

DRIVEN AND STATIC TOOLING
For
DMG MORI



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Live Tooling



M. T. Marchetti, a major live tool manufacturer in northern Italy, is a leader in live tool technology. The formula is simple. Use only the best angular contact high-speed bearings available. Add to this an exacting tolerances for all ground shafts, gears and bearing pocket features. Next, develop a sealed system that **will not** allow any contamination from chips or coolant.

Top this all off with a superior design and you end up with a live tool that is more rigid, faster and will last longer. **We back this up with a 2-Year factory warranty.**

Our Live Tool Warranty

Our tooling will give years of service in the most demanding applications. The superior design and rugged construction has proven this over the last 12 years. The reliability of our tools allows us to provide a 2-year factory warranty, for non-wear components.

MD Tooling will repair any defective tool holders for a period of 2 years from the date of purchase.

Product Range

We have the largest range of live tooling available for most major machine tool manufactures.

Our available products include an extensive line of standard live tooling as well as specialty tool holders such as 0-180 adjustable angle tool holders, gear hobbors, and even worm gear generators. Our product range includes geared up holders to 60,000 RPM and are engineered for 1,000 PSI coolant through.

We are an industry leader in providing complete tooling solutions with hundreds of static tool options as well.

Technical Support

Here at MD Tooling we have a full technical support department with over 35 years of CNC experience.

Our highly qualified staff can help with part processing, tooling up a job from a blue print and even assist with part programming. Applications Engineers are always available by phone to answer any questions you may have about our tooling or any other CNC related issue.

Stock and Replenishment

MD Tooling maintains an extensive inventory of tooling in our warehouse in Michigan. Our current "fill" rate on orders is 93% from our stock in Michigan for same day shipping.

Should you require a non-stock item, our manufacturer, M.T. Marchetti also maintains a large inventory in Italy. Tooling can be obtained in as little as 3-5 business days.

Shipping

MD Tooling realizes that when you need tooling, often you can't wait until the next day. We process orders and ship from available stock right up until 4PM EST to make certain we get your tooling solutions to you as quickly as possible.

We regularly ship throughout the day via UPS, FedEx or any other carrier that a customer requests.



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- Fast, Friendly, Reliable Service!
- Quality tooling at highly competitive pricing.
- 2-Year Warranty on all live tools.
- Extensive inventory. We currently ship over 93% of all orders same day.
- In-house repair services available.
- If a warranty tool needs to be returned for inspection, service or repair, loaner tools are available to keep your machine tool production up and running.
- More specialty tool holders than any other manufacturer.
- Custom tool holders available.
- All available tooling may not be shown in this catalog. If you can't find the holder you're looking for, please contact our office for assistance.



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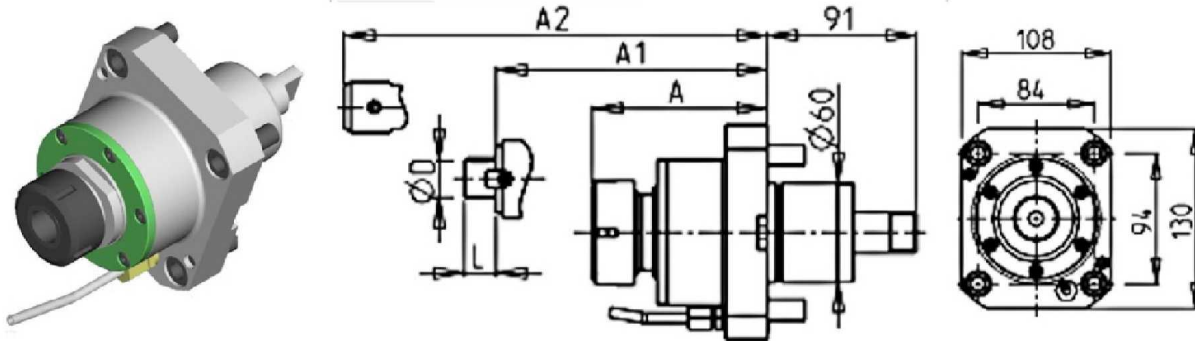
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NL DRIVEN

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RADIAL DRIVEN TOOL

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**



PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
MNL0020532	Radial ER32 Standard	T32206	ER32	1:1	6000		X	104.16				
MNL1230232	Radial ER32 Cool Thru*		ER32	1:1	6000	70 BAR	X	104.66				
MNL0020732	Radial ER32 Cool Thru*		ER32	1:1	6000	30 BAR		107.66				
MNL0022132	Radial ER32 Short		ER32 Short	1:1	6000		X	75.76				
MNL0020632	Radial ER32 Extended Reach		ER32	1:1	6000		X	144.16				
MNL1231632	Radial ER32 Ext. Reach Cool Thru*		ER32	1:1	6000	70 BAR	X	144.16				
MNL0020140	Radial ER40 Standard	T32213	ER40	1:1	6000		X	106.66				
MNL1230240	Radial ER40 Cool Thru*		ER40	1:1	6000	70 BAR	X	107.66				
MNL0022140	Radial ER40 Short		ER40 Short	1:1	6000		X	89.66				
MNL0021617	Radial Mill Head 16x17mm		16x17	1:1	6000		X		116		16	17
MNL0020116	Radial Mill Head 16x17mm Cool Thru*		16x17	1:1	6000	30 BAR	X		116		16	17
MNL0022219	Radial Mill Head 22x19mm		22x19	1:1	6000		X		106		22	19
MNL0020122	Radial Mill Head 22x19mm Cool Thru*		22x19	1:1	6000	30 BAR	X		106		22	19
MNL0022721	Radial Mill Head 27x21mm		27x21	1:1	6000		X		81.5		27	21
MNL0022519	Radial Mill Head 1"x19mm		1"x19	1:1	6000		X		81.5		1"	21
MNL0020525	Radial Mill Head 1"x19mm Cool Thru*		1"x19	1:1	6000	30 BAR	X		84.5		1"	21
MNL0020120	Radial Weldon 20		Weldon 20	1:1	6000		X			99.5		
MNL0020220	Radial Weldon 20 Cool Thru*		Weldon 20	1:1	6000	30 BAR	X			99.5		
MNL0020125	Radial Weldon 25		Weldon 25	1:1	6000		X			109		
MNL0020425	Radial Weldon 25 Cool Thru*		Weldon 25	1:1	6000	30 BAR	X			109		
MNL0020132	Radial Weldon 32		Weldon 32	1:1	6000		X			125.5		
MNL0020232	Radial Weldon 32 Cool Thru*		Weldon 32	1:1	6000	30 BAR	X			125.5		

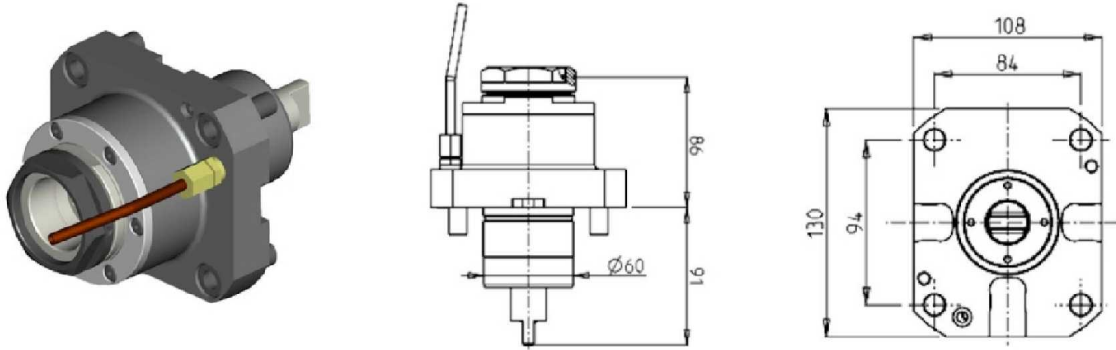
* Coolant Thru tools are designed for 400/1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.
30 BAR=400 PSI 70 BAR=1000 PSI

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

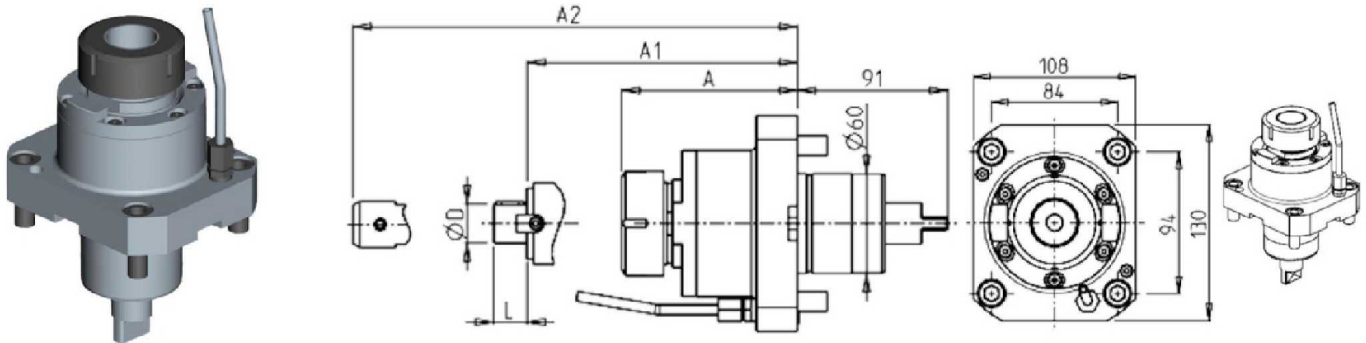
QUICK CHANGE RADIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0590150	Radial MTSK-50	MTSK-50	1:1	6000	X

RADIAL DRIVEN TOOL 10,000 RPM



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
MNL0760532	Radial ER32 10,000 RPM	ER32	1:1	10000		X	104.16				
MNL0761532	Radial ER32 10,000 RPM Cool Thru*	ER32	1:1	10000	X	X	104.66				
MNL0760632	Radial ER32 Ext. Reach 10,000 RPM	ER32	1:1	10000		X	144.16				
MNL0761632	Radial ER32 Ext. Reach 10,000 RPM Cool Thru*	ER32	1:1	10000	X	X	144.16				
MNL0760140	Radial ER40 10,000 RPM	ER40	1:1	10000		X	106.66				
MNL0761140	Radial ER40 10,000 RPM Cool Thru*	ER40	1:1	10000	X	X	107.66				
MNL0761617	Radial Mill Head Ø16x17mm 10,000 RPM	16x17	1:1	10000		X		116		16	17
MNL0762219	Radial Mill Head Ø22x19mm 10,000 RPM	22x19	1:1	10000		X		106		22	19
MNL0762721	Radial Mill Head Ø27x21mm 10,000 RPM	27x21	1:1	10000		X		81.5		27	21
MNL0762519	Radial Mill Head Ø1"x19mm 10,000 RPM	1"x19	1:1	10000		X		81.5		1"	21
MNL0760120	Radial Weldon 20 10,000 RPM	Weldon 20	1:1	10000		X			99.5		
MNL0760125	Radial Weldon 25 10,000 RPM	Weldon 25	1:1	10000		X			109		
MNL0760132	Radial Weldon 32 10,000 RPM	Weldon 32	1:1	10000		X			125.5		

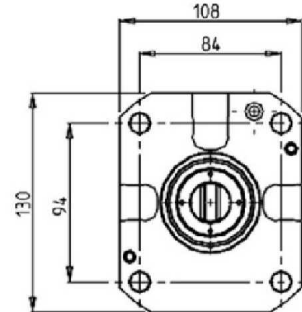
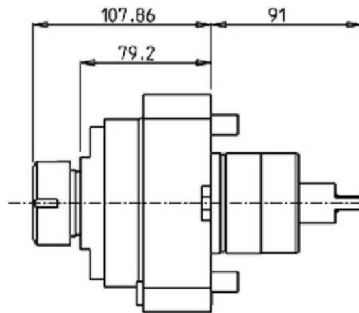
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL DRIVEN TOOL 10,000 RPM COOL THRU*

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.

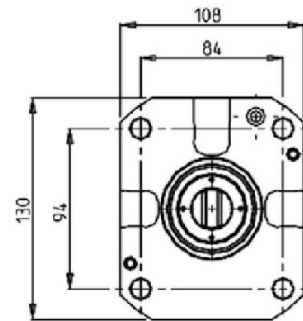
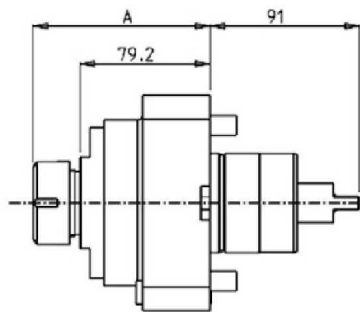
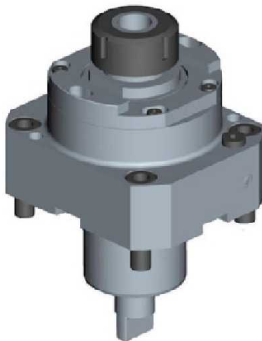


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0770125	Radial ER25 Cool Thru* 10,000 RPM	ER25	1:1	10000	X	X

*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL DRIVEN TOOL HIGH PRESSURE

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0570125	Radial ER25 High Pressure Cool Thru*	ER25	1:1	6000	X	X	104.8

*Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

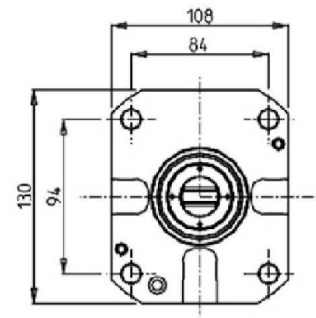
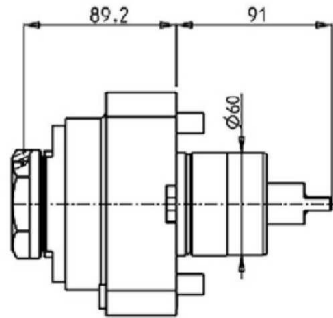
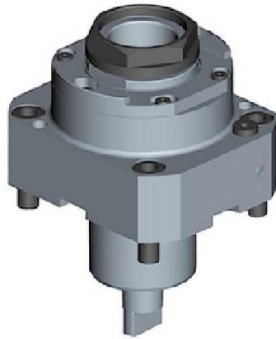
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

QUICK CHANGE RADIAL MTSK DRIVEN TOOL HIGH PRESSURE

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

Please see Accessories for MTSK Clamping Units

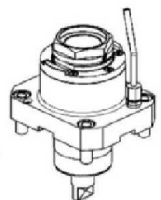
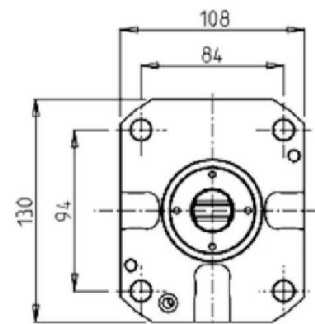
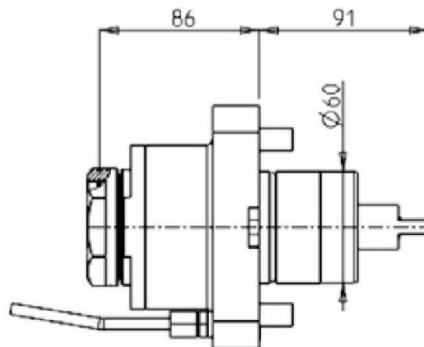
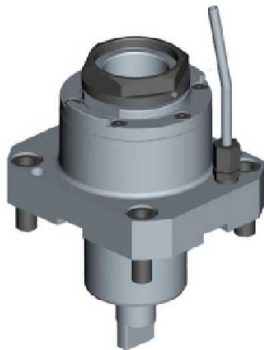


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0590250	Radial MTSK-50 High Pressure Cool Thru*	MTSK-50	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE RADIAL MTSK-50 DRIVEN TOOL 10,000 RPM

Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0790150	Radial MTSK-50 RPM=10000	MTSK-50	1:1	10000	X

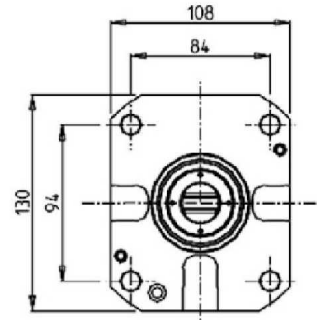
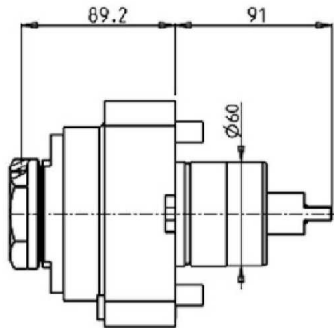
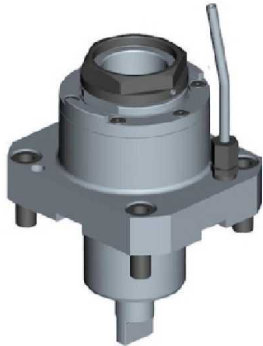
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

QUICK CHANGE RADIAL MTSK-50 DRIVEN TOOL 10,000 RPM COOL THRU*

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

Please see Accessories for MTSK Clamping Units

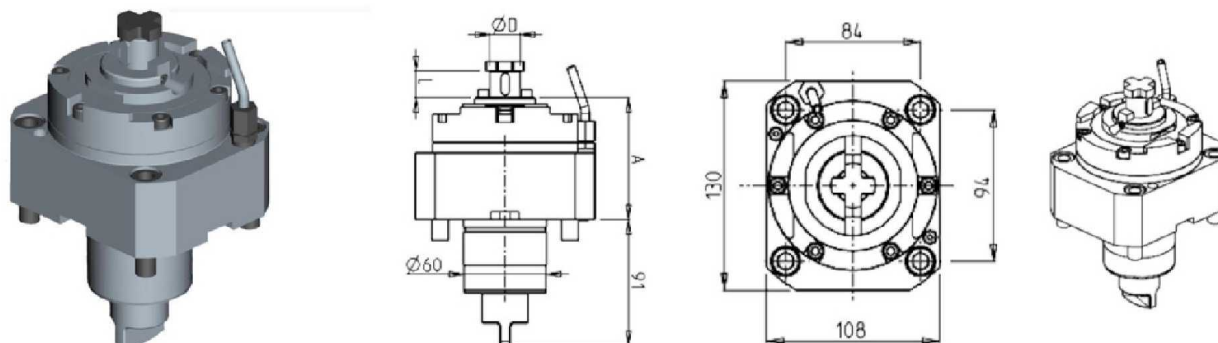


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0790250	Radial MTSK-50 Cool Thru* 10,000 RPM	MTSK-50	1:1	10000	X	X

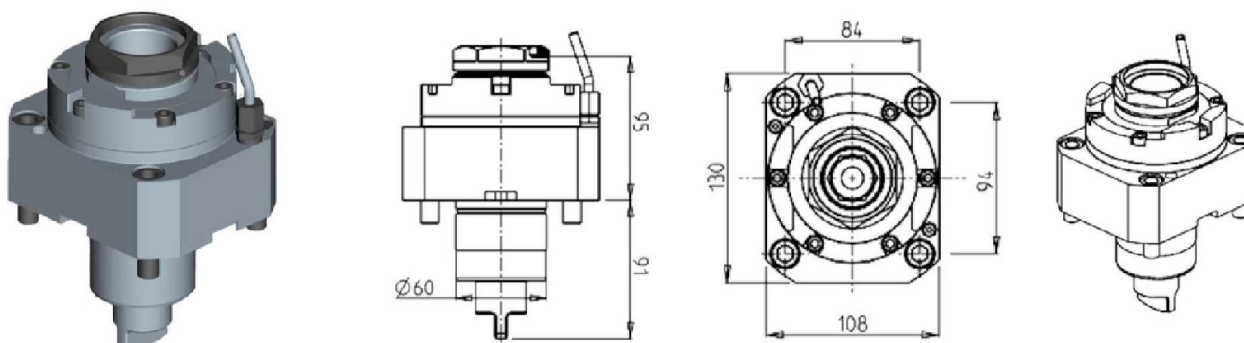
*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NLX4000

RADIAL REINFORCED DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Ext Cool	A	D	L
MNL0732519	Radial Reinforced Ø1"x19mm	1"x19	1:1	4000	X	89	1"	19
MNL0732219	Radial Reinforced Ø22x19mm	22x19	1:1	4000	X	88	22	19
MNL0732721	Radial Reinforced Ø27x21mm	27x21	1:1	4000	X	89	27	21
MNL0733224	Radial Reinforced Ø32x24mm	32x24	1:1	4000	X	91	32	24

QUICK CHANGE RADIAL MTSK REINFORCED DRIVEN TOOL*Please see Accessories for MTSK Clamping Units*

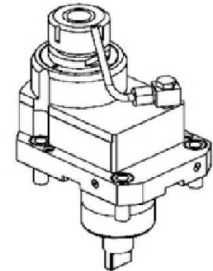
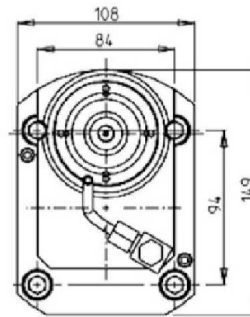
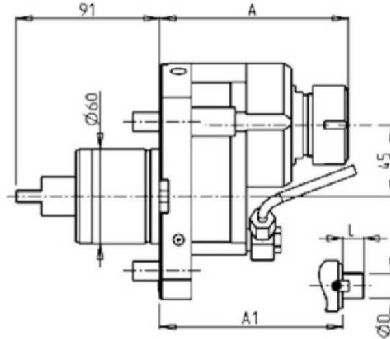
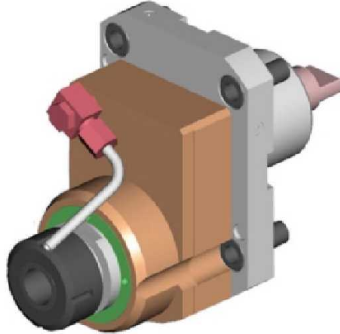
PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0740150	Radial MTSK-50 Reinforced	MTSK-50	1:1	4000	X

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL DRIVEN TOOL RE-DIRECTED IN Z BY 45mm

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	D	L
MNL0340120	Radial Redirected ER20	ER20	X	1:1	6000		X	115.66			
MNL0340220	Radial Redirected ER20 Cool Thru*	ER20	X	1:1	6000	X	X	126.66			
MNL0340032	Radial Redirected ER32	ER32	X	1:1	6000		X	120.16			
MNL0340132	Radial Redirected ER32 Cool Thru*	ER32	X	1:1	6000	X	X	131.16			
MNL0341119	Radial Redirected Ø3/4x3/4"	3/4"x3/4"	X	1:1	6000		X		98	3/4"	3/4"
MNL0341116	Radial Redirected Ø16x17mm	16x17	X	1:1	6000		X		98	16	17
MNL0341122	Radial Redirected Ø22x19mm	22x19	X	1:1	6000		X		98	22	19
MNL0341127	Radial Redirected Ø27x21mm	27x21	X	1:1	6000		X		98	27	21
MNL0342225	Radial Redirected Ø1"x19mm	1"x19	X	1:1	6000		X		98	1"	19

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

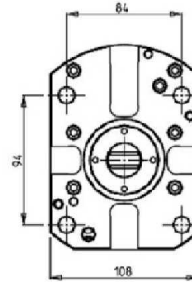
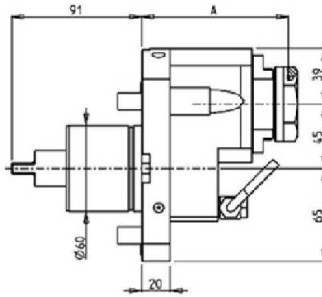
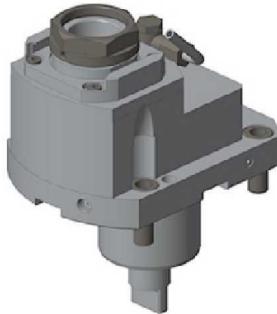
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

QUICK CHANGE RADIAL MTSK DRIVEN TOOL REDIRECTED IN Z BY 45mm

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.

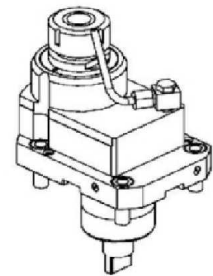
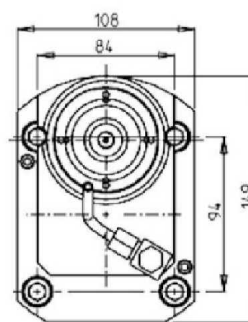
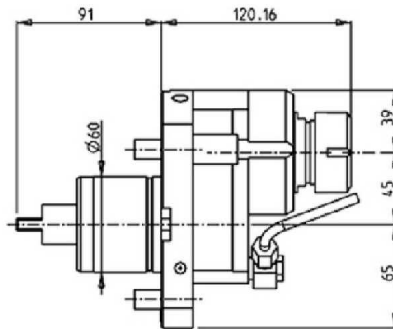
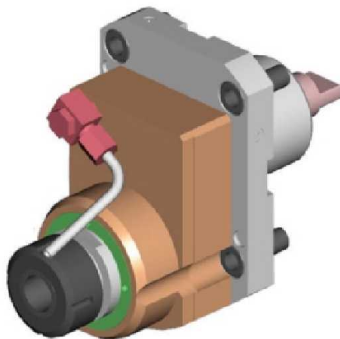
Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A
MNL1210140	Radial MTSK-40 Redirected in Z by 45mm	MTSK-40	1:1	6000	X		X	103
MNL1210240	Radial MTSK-40 Redirected in Z by 45mm Cool Thru*	MTSK-40	1:1	6000	X	X	X	114

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL DRIVEN TOOL RE-DIRECTED IN Z BY 45mm 10,000 RPM



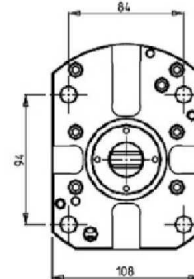
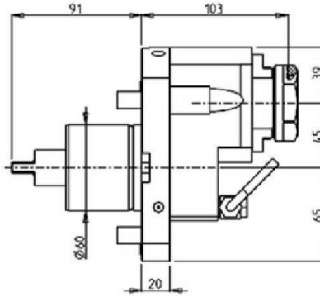
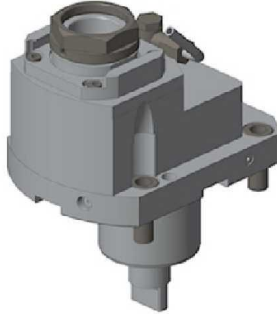
PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1130132	Radial Re-Directed ER32 10,000 RPM	ER32	1:1	10000	X	X

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

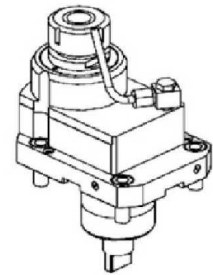
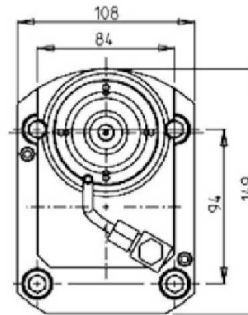
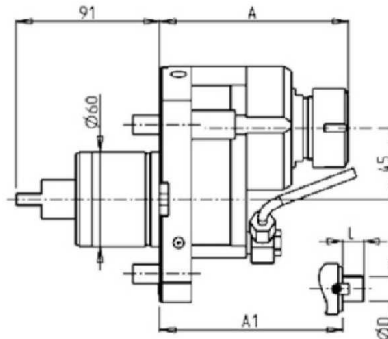
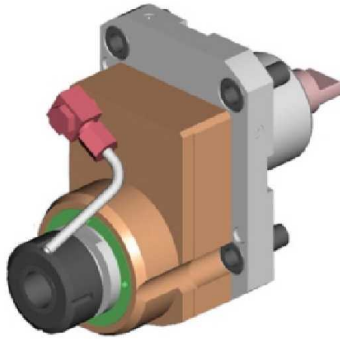
QUICK CHANGE RADIAL MTSK-40 DRIVEN TOOL REDIRECTED IN Z BY 45mm 10,000 RPM

Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1200140	Radial MTSK-40 Redirected in Z by 45mm 10,000 RPM	MTSK-40	1:1	10000	X	X

RADIAL GEARED-DOWN 2:1 DRIVEN TOOL RE-DIRECTED IN Z BY 45mm



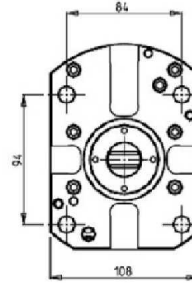
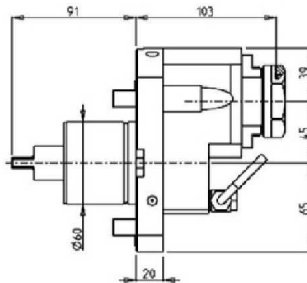
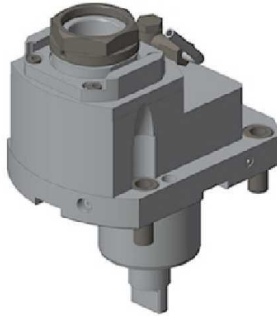
PartNumber	Description	Spindle	Reversible	I	RPM	Ext Cool	A	A1	D	L
MNL0342132	Radial Geared-Down 2:1 Redirected ER32	ER32	X	2:1	3000	X	120.16			
MNL0342119	Radial Geared-Down 2:1 Redirected 3/4"x3/4"	3/4"x3/4"	X	2:1	3000	X	98	3/4"	3/4"	
MNL0342125	Radial Geared-Down 2:1 Redirected 1"x19mm	1"x19	X	2:1	3000	X	98	1"	19	
MNL0342122	Radial Geared-Down 2:1 Redirected 22x19mm	22x19	X	2:1	3000	X	98	22	19	
MNL0342127	Radial Geared-Down 2:1 Redirected 27x21mm	27X21	X	2:1	3000	X	98	27	21	

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

QUICK CHANGE RADIAL MTSK GEARED-DOWN 2:1 DRIVEN TOOL REDIRECTED IN Z BY 45mm

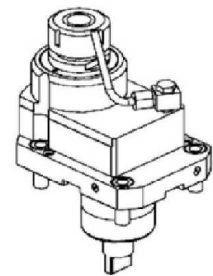
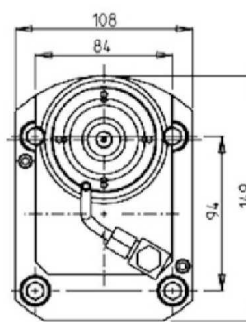
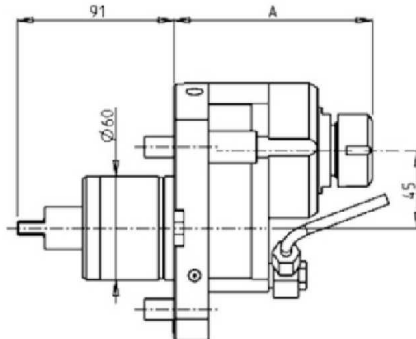
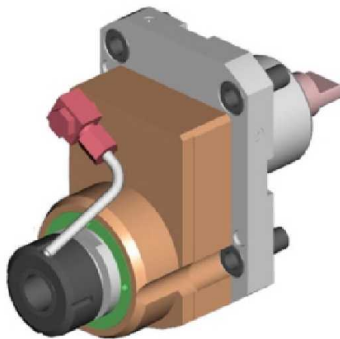
Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1220140	Radial MTSK-40 Geared-Down 2:1	MTSK-40	2:1	3000	X	X

RADIAL GEARED-UP 1:2 DRIVEN TOOL RE-DIRECTED IN Z BY 45mm

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**



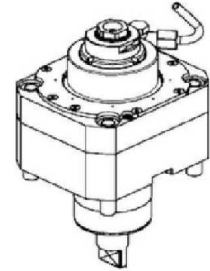
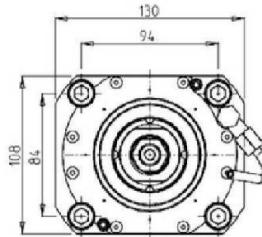
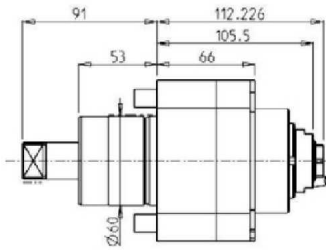
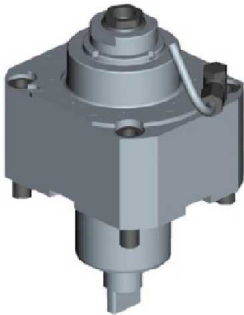
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A
MNL0341225	Radial Geared-Up 1:2 Redirected ER25	ER25	X	1:2	12000		X	115.16
MNL0342425	Radial Geared-Up 1:2 Redirected ER25 Cool Thru*	ER25	X	1:2	12000	X	X	126.16

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL GEARED-UP 1:5 DRIVEN TOOL

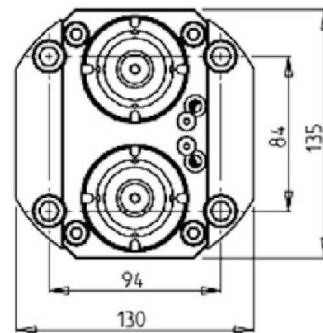
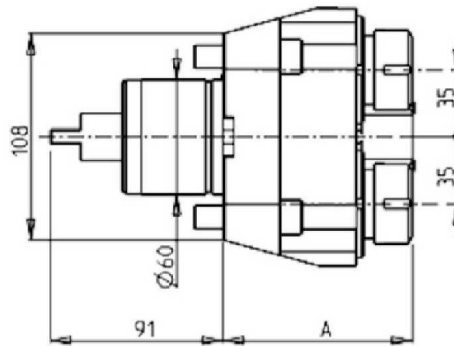
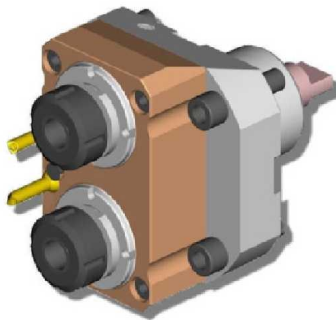


PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0690120	Radial Geared-Up 1:5 ERA20	ERA20	1:5	30000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL FOR Y-AXIS

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

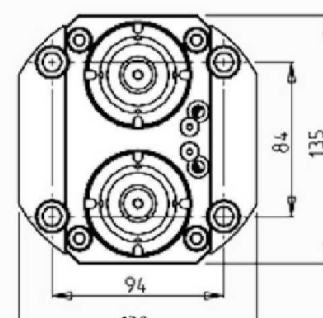
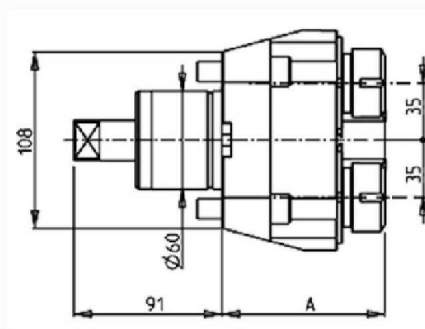
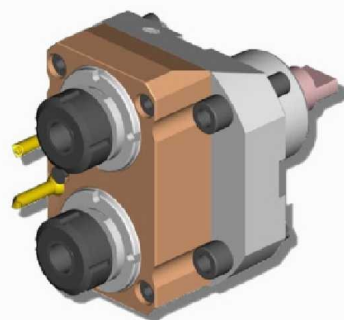


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0200225	Radial ER25 Double Outlet Tool for Y-Axis	ER25	1:1	6000		X	99.96
MNL0201225	Radial ER25 Double Outlet Tool for Y-Axis Cool Thru*	ER25	1:1	6000	X	X	115.2
MNL0200325	Radial ERA25 Double Outlet Tool for Y-Axis	ERA25	1:1	6000		X	88.5
MNL0201325	Radial ERA25 Double Outlet Tool for Y-Axis Cool Thru*	ERA25	1:1	6000	X	X	108.53

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

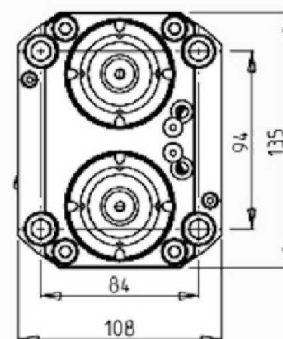
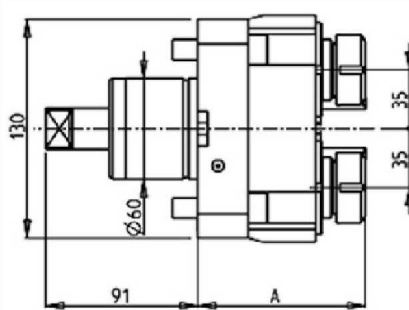
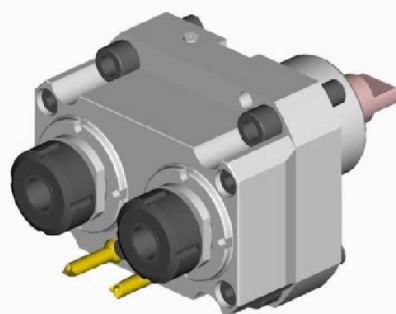
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y 10,000 RPM

PartNumber	Description	Spindle	I	RPM	Ext Cool	A
MNL1070225	Radial Single Side Twin Head ER25 10,000 RPM	ER25	1:1	10000	X	99.96
MNL1070325	Radial Single Side Twin Head ERA25 10,000 RPM	ERA25	1:1	10000	X	88.5

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL FOR Z-AXIS

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.



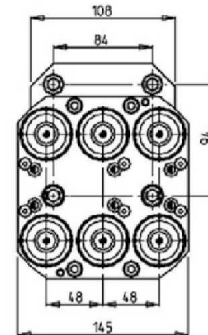
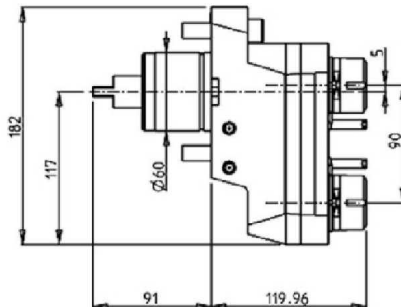
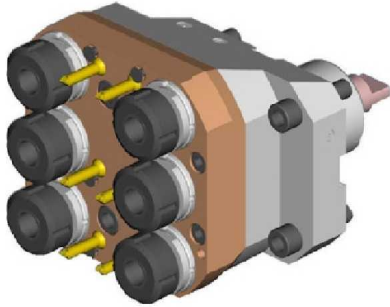
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0420225	Radial ER25 Double Outlet Tool for Z-Axis	ER25	1:1	6000		X	99.96
MNL0421225	Radial ER25 Double Outlet Tool for Z-Axis Cool Thru*	ER25	1:1	6000	X	X	115.2
MNL0420325	Radial ERA25 Double Outlet Tool for Z-Axis	ERA25	1:1	6000		X	88.5
MNL0421325	Radial ERA25 Double Outlet Tool for Z-Axis Cool Thru*	ERA25	1:1	6000	X	X	108.53

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

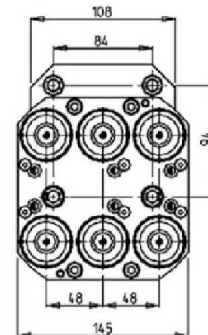
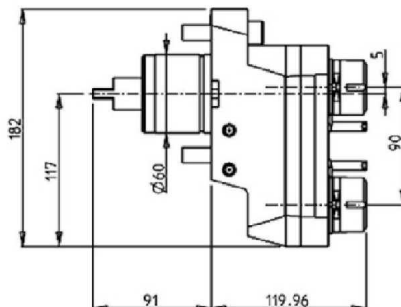
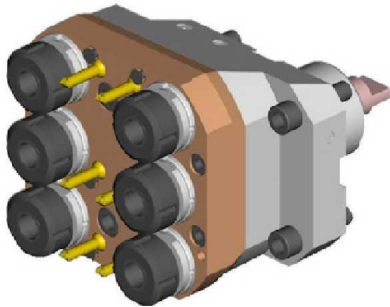
RADIAL 6 HEAD DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool
MNL0210625	Radial 6 Head ER25	ER25	1:1	6000	6	X	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

RADIAL 6 HEAD DRIVEN TOOL 10,000 RPM



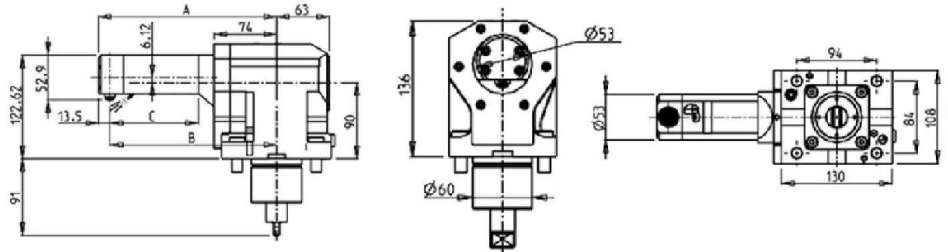
PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool
MNL1120625	Radial 6 Head ER25 10,000 RPM	ER25	1:1	10000	6	X	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

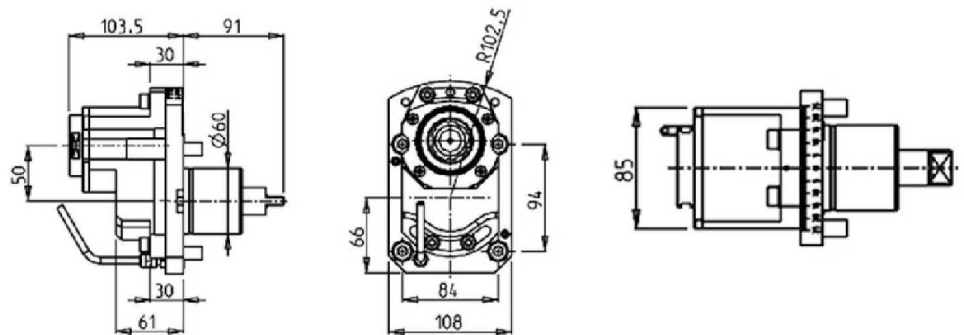
RADIAL INVERTED DRIVEN TOOL RE-DIRECTED IN Z



PartNumber	Description	Spindle	I	RPM	Ext Cool	A	B	C
MNL0961055	Radial Inverted Driven Tool	CHG	1:1	6000	X	161.5	148	55
MNL0961105	Radial Inverted Driven Tool	CHG	1:1	6000	X	211.5	198	105
MNL0961155	Radial Inverted Driven Tool	CHG	1:1	6000	X	261.5	248	155

Note : Wrenches are provided with the purchase of Specialty Toolholders

RADIAL $\pm 25^\circ$ ADJUSTABLE ANGLE DRIVEN TOOL REDIRECTED BY 50mm

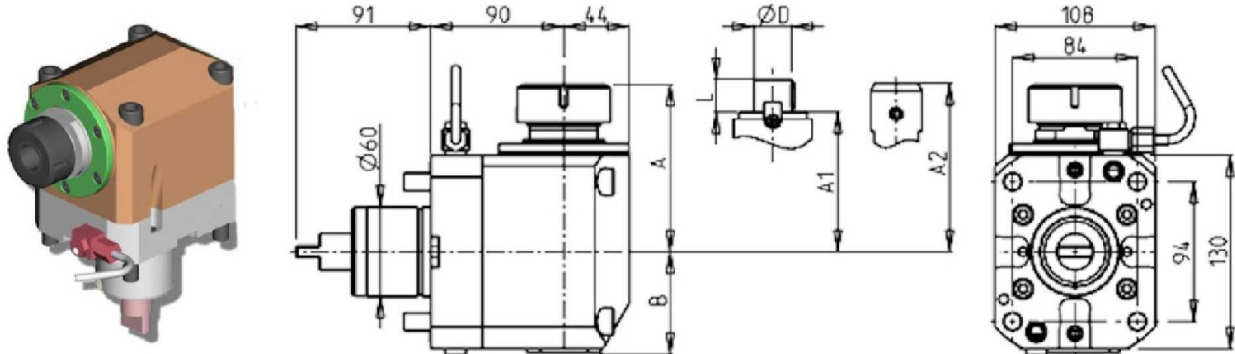


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0950332	Radial $\pm 25^\circ$ Adjustable Angle ERA32	ERA32	1:1	6000	X	X

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL DRIVEN TOOL



PartNumber	Description	Mori Ref	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	A2	B	D	L
MNL0010525	Axial ER25 Standard		ER25	X	1:1	6000		X	107.6			69		
MNL0011525	Axial ER25 Cool Thru*		ER25	X	1:1	6000	X	X	107.6			79		
MNL0010532	Axial ER32 Standard	T32207	ER32	X	1:1	6000		X	110.6			69		
MNL0011532	Axial ER32 Cool Thru*		ER32	X	1:1	6000	X	X	110.6			79		
MNL0010332	Axial ERA32 Standard		ERA32	X	1:1	6000		X	98.5			69		
MNL0010432	Axial ERA32 Cool Thru*		ERA32	X	1:1	6000	X	X	98.5			79		
MNL0010140	Axial ER40 Standard	T32214	ER40	X	1:1	6000		X	112.6			69		
MNL0011140	Axial ER40 Cool Thru*		ER40	X	1:1	6000	X	X	112.6			79		
MNL0011617	Axial Mill Head D=16mm, L=17mm		16x17	X	1:1	6000		X	87.5			69	16	17
MNL0012219	Axial Mill Head D=22mm, L=19mm		22x19	X	1:1	6000		X	87.5			69	22	19
MNL0012721	Axial Mill Head D=27mm, L=21mm		27x21	X	1:1	6000		X	87.5			69	27	21
MNL0012519	Axial Mill Head D=1", L=19mm		1"x19	X	1:1	6000		X	87.5			69	1"	19
MNL0010120	Axial Weldon 20		Weldon 20	X	1:1	6000		X			105.5	69		
MNL0010220	Axial Weldon 20 Cool Thru*		Weldon 20	X	1:1	6000	X	X			105.5	91.5		
MNL0010125	Axial Weldon 25		Weldon 25	X	1:1	6000		X			115	69		
MNL0010225	Axial Weldon 25 Cool Thru*		Weldon 25	X	1:1	6000	X	X			115	91.5		
MNL0010132	Axial Weldon 32		Weldon 32	X	1:1	6000		X			131.5	69		

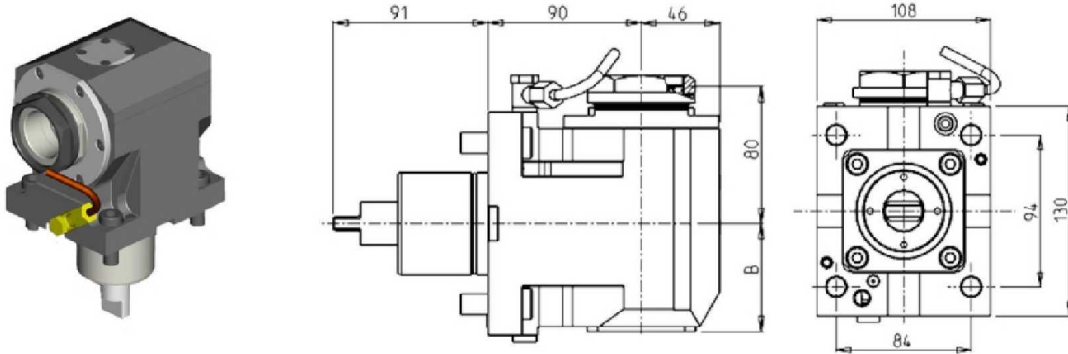
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

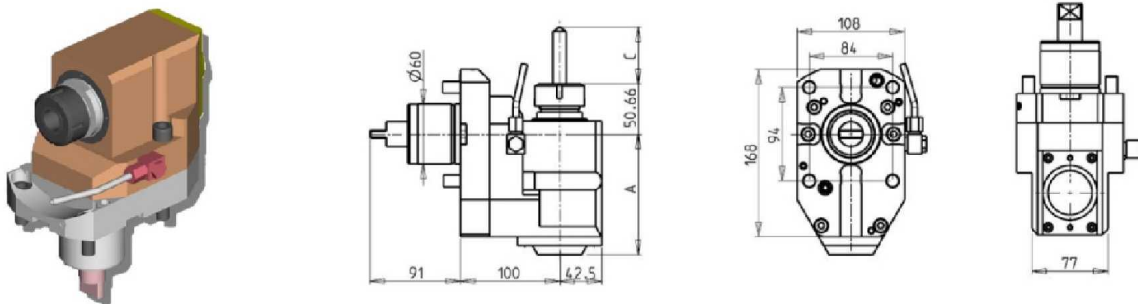
QUICK CHANGE AXIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNL0580140	Axial MTSK-40	MTSK-40	X	1:1	6000		X	63
MNL0580240	Axial MTSK-40 Cool Thru*	MTSK-40	X	1:1	6000	X	X	75.5
MNL0580150	Axial MTSK-50	MTSK-50	X	1:1	6000		X	63
MNL0580250	Axial MTSK-50 Cool Thru*	MTSK-50	X	1:1	6000	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL REAR-SET DRIVEN TOOL

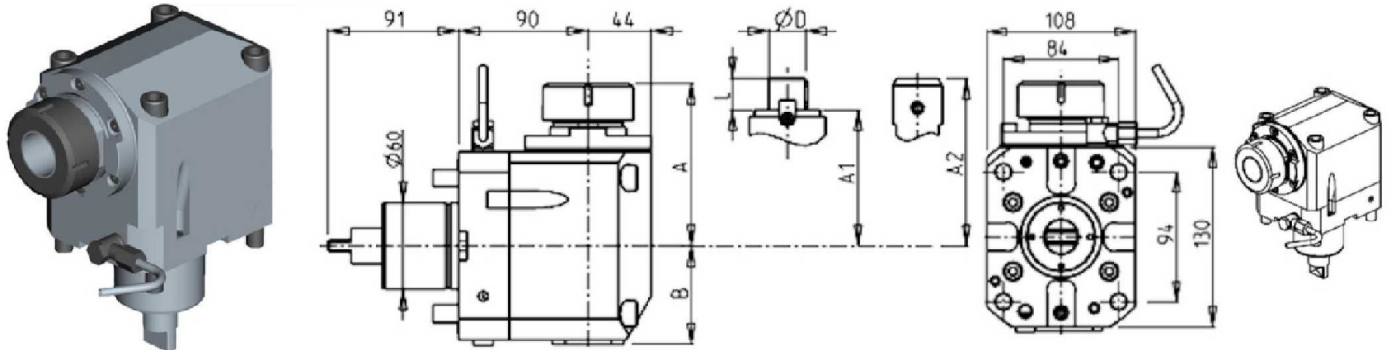
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	CMax
MNL0290632	Axial ER32 Rear-Set Driven Tool	ER32	X	1:1	6000		X	121	118
MNL0291632	Axial ER32 Rear-Set Driven Tool Cool Thru*	ER32	X	1:1	6000	X	X	135	118

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL DRIVEN TOOL RPM=10,000



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	A2	B	D	L
MNL0750525	Axial ER25	ER25	X	1:1	10000		X	107.6			69		
MNL0751525	Axial ER25 Cool Thru*	ER25	X	1:1	10000	X	X	107.6			79		
MNL0750532	Axial ER32	ER32	X	1:1	10000		X	110.6			69		
MNL0751532	Axial ER32 Cool Thru*	ER32	X	1:1	10000	X	X	110.6			79		
MNL0750332	Axial ERA32	ERA32	X	1:1	10000		X	98.5			69		
MNL0750432	Axial ERA32 Cool Thru*	ERA32	X	1:1	10000	X	X	98.5			79		
MNL0750140	Axial ER40	ER40	X	1:1	10000		X	112.6			69		
MNL0751140	Axial ER40 Cool Thru*	ER40	X	1:1	10000	X	X	112.6			79		
MNL0751617	Axial Mill Head D=16mm, L=17mm	16x17	X	1:1	10000		X		87.5		69	16	17
MNL0752219	Axial Mill Head D=22mm, L=19mm	22x19	X	1:1	10000		X		87.5		69	22	19
MNL0752721	Axial Mill Head D=27mm, L=21mm	27x21	X	1:1	10000		X		87.5		69	27	21
MNL0752519	Axial Mill Head D=1", L=19mm	1"x19	X	1:1	10000		X		87.5		69	1"	19
MNL0750120	Axial Weldon 20	Weldon 20	X	1:1	10000		X			105.5	69		
MNL0750220	Axial Weldon 20 Cool Thru*	Weldon 20	X	1:1	10000	X	X			105.5	91.5		
MNL0750125	Axial Weldon 25	Weldon 25	X	1:1	10000		X			115	69		
MNL0750225	Axial Weldon 25 Cool Thru*	Weldon 25	X	1:1	10000	X	X			115	91.5		
MNL0750132	Axial Weldon 32	Weldon 32	X	1:1	10000		X			131.5	69		

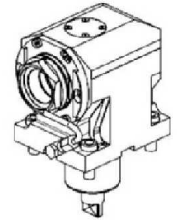
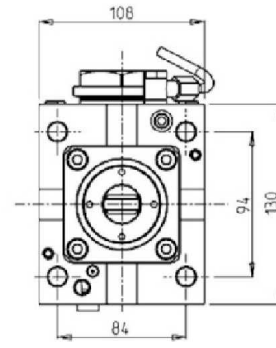
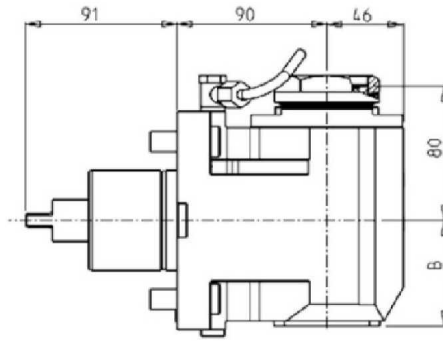
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

QUICK CHANGE AXIAL MTSK DRIVEN TOOL RPM=10,000

Please see Accessories for MTSK Clamping Units

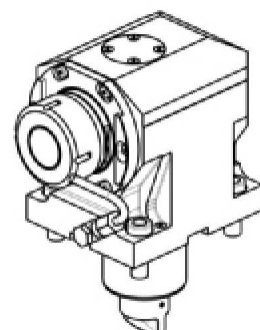
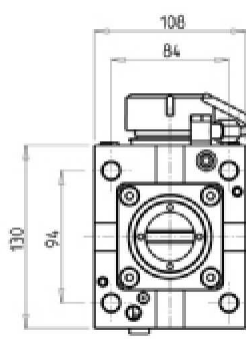
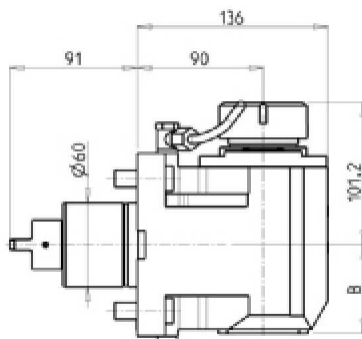


PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNL0780140	Axial MTSK-40 RPM=10,000	MTSK-40	X	1:1	10000		X	63
MNL0780240	Axial MTSK-40 RPM=10,000 Cool Thru*	MTSK-40	X	1:1	10000	X	X	75.5
MNL0780150	Axial MTSK-50 RPM=10,000	MTSK-50	X	1:1	10000		X	63
MNL0780250	Axial MTSK-50 RPM=10,000 Cool Thru*	MTSK-50	X	1:1	10000	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NLX4000

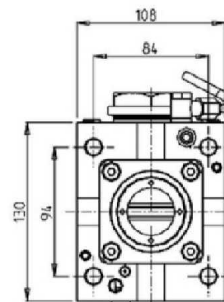
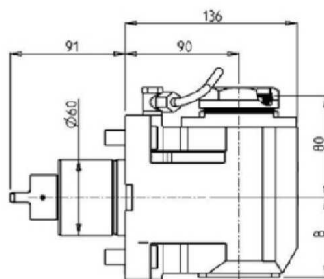
AXIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNL0840140	Axial ER40	ER40	1:1	4000	X		X	63
MNL0840240	Axial ER40 Cool Thru*	ER40	1:1	4000	X	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units



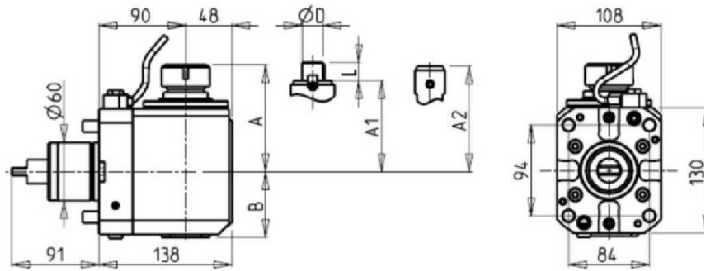
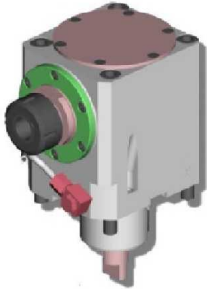
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNL0850140	Axial MTSK-40	MTSK-40	1:1	4000	X		X	63
MNL0850240	Axial MTSK-40 Cool Thru*	MTSK-40	1:1	4000	X	X	X	75.5
MNL0850150	Axial MTSK-50	MTSK-50	1:1	4000	X		X	63
MNL0850250	Axial MTSK-50 Cool Thru*	MTSK-50	1:1	4000	X	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL GEARED-DOWN 2:1 DRIVEN TOOL



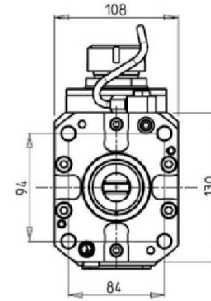
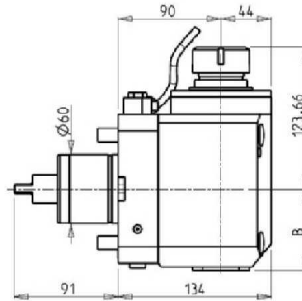
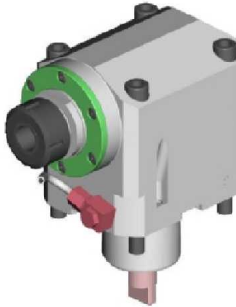
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	A2	B	D	L
MNL0330525	Axial ER25 Geared-Down 2:1	ER25	X	2:1	3000		X	107.5			68		
MNL0330532	Axial ER32 Geared-Down 2:1	ER32	X	2:1	3000		X	110.56			68		
MNL0330140	Axial ER40 Geared-Down 2:1	ER40	X	2:1	3000		X	113.16			68		
MNL0331525	Axial ER25 Geared-Down 2:1 Cool Thru*	ER25	X	2:1	3000	X	X	107.5			79		
MNL0331532	Axial ER32 Geared-Down 2:1 Cool Thru*	ER32	X	2:1	3000	X	X	110.56			79		
MNL0331140	Axial ER40 Geared-Down 2:1 Cool Thru*	ER40	X	2:1	3000	X	X	113.16			79		
MNL0331617	Axial Geared-Down 2:1 16x17mm	16x17	X	2:1	3000		X		87.5		68	16	17
MNL0332219	Axial Geared-Down 2:1 22x19mm	22x19	X	2:1	3000		X		87.5		68	22	19
MNL0332721	Axial Geared-Down 2:1 27x21mm	27x21	X	2:1	3000		X		87.5		68	27	21
MNL0332519	Axial Geared-Down 2:1 1"x19mm	1"x19	X	2:1	3000		X		87.5		68	1"	19
MNL0330120	Axial Geared-Down 2:1 Weldon20	Weldon 20	X	2:1	3000		X			105.5	68		
MNL0330220	Axial Geared-Down 2:1 Weldon20 Cool Thru*	Weldon 20	X	2:1	3000	X	X			105.5	91.5		
MNL0330125	Axial Geared-Down 2:1 Weldon25	Weldon 25	X	2:1	3000		X			115	68		
MNL0330225	Axial Geared-Down 2:1 Weldon25 Cool Thru*	Weldon 25	X	2:1	3000	X	X			115	91.5		
MNL0330132	Axial Geared-Down 2:1 Weldon32	Weldon 32	X	2:1	3000		X			131.5	68		
MNL0330232	Axial Geared-Down 2:1 Weldon32 Cool Thru*	Weldon 32	X	2:1	3000	X	X			131.5	91.5		

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL GEARED-UP 1:2 DRIVEN TOOL

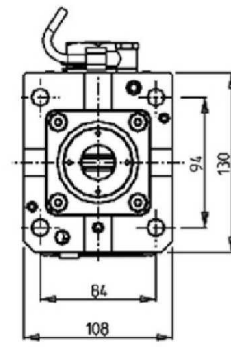
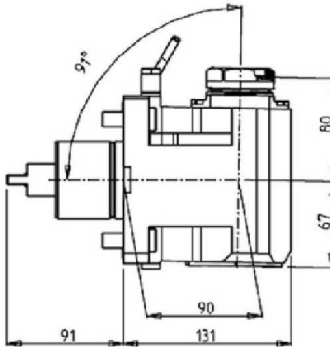


PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNL0350532	Axial ER32 Geared-Up 1:2	ER32	X	1:2	12000		X	71
MNL0351532	Axial ER32 Geared-Up 1:2 Cool Thru*	ER32	X	1:2	12000	X	X	94.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR INTERNAL POLYGON-MAKING H=90mm

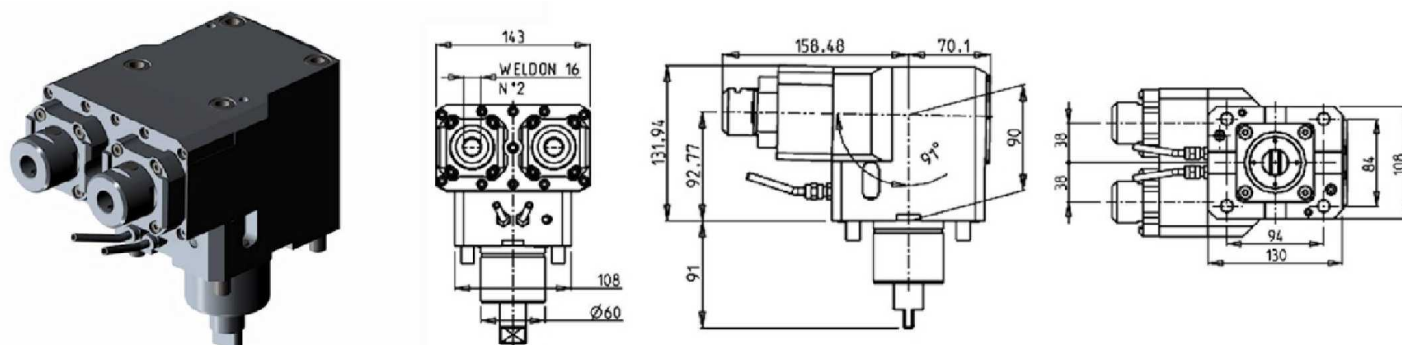
Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0900140	Axial MTSK-40 Driven Tool H=90mm	MTSK-40	1:1	6000	X	X

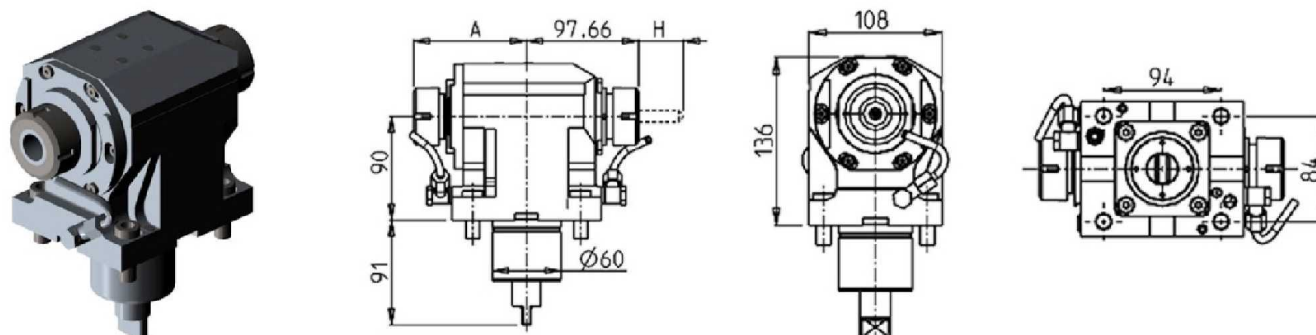
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y FOR INTERNAL POLYGON MAKING H=90mm

PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0940616	Axial Single Side Twin Head Weldon 16	Weldon 16	1:1	6000	X	X

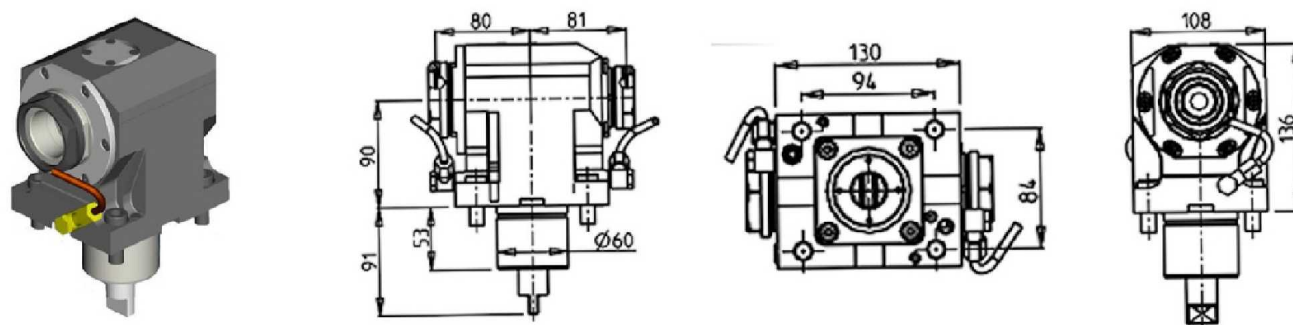
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	H MAX
MNL0830232	Axial Double Outlet ER32/ER32	ER32+ER32	1:1	6000	X	X	98.7	74
MNL0830240	Axial Double Outlet ER40/ER32	ER40+ER32	1:1	6000	X	X	101.7	74

QUICK CHANGE AXIAL MTSK OPPOSITE FACE TWIN DRIVEN TOOL

Please see Accessories for MTSK Clamping Units

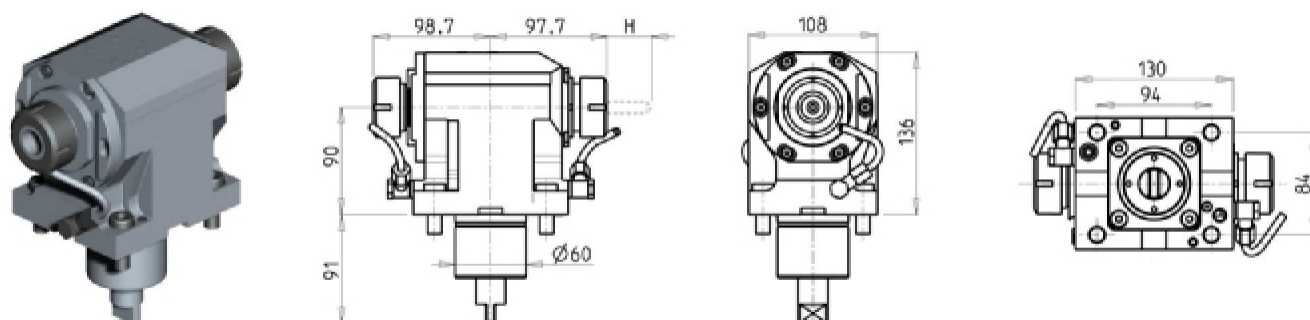


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1015040	Axial MTSK Opposite Face Twin Driven Tool	MTSK50+MTSK40	1:1	6000	X	X

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

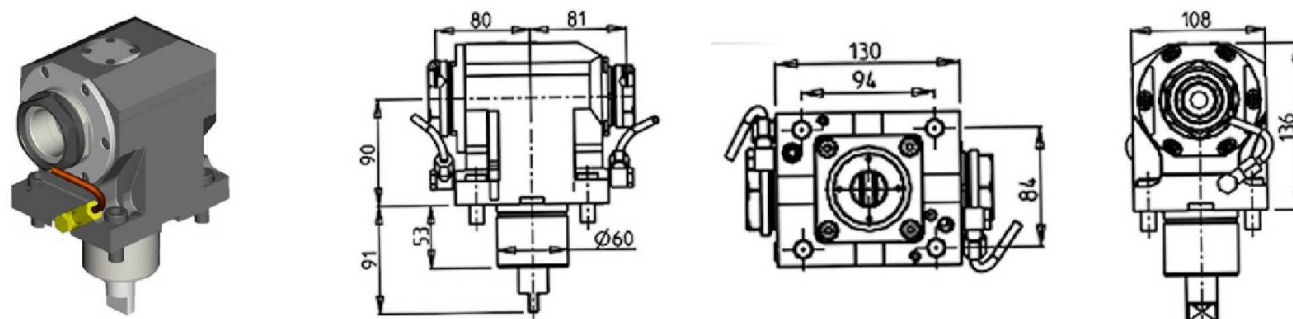
AXIAL OPPOSITE FACE TWIN DRIVEN TOOL RPM=10,000



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	H Max
MNL0820232	Axial Double Outlet ER32/ER32	ER32+ER32	1:1	10,000	X	X	74

QUICK CHANGE AXIAL MTSK OPPOSITE FACE TWIN DRIVEN TOOL 10,000 RPM

Please see Accessories for MTSK Clamping Units

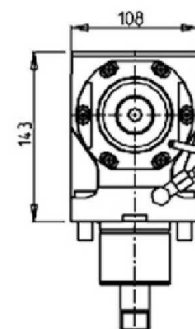
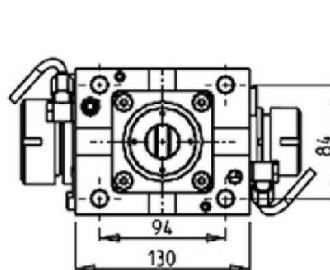
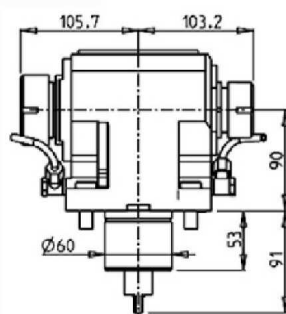
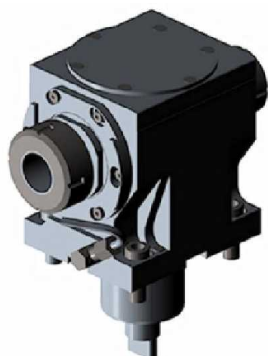


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1005040	Axial MTSK Opposite Face Driven Tool 10,000 RPM	MTSK50+MTSK40	1:1	10000	X	X

NL DRIVEN

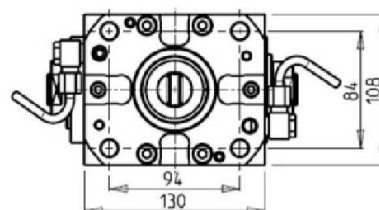
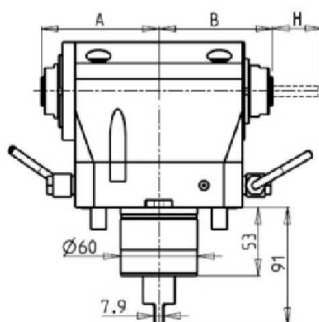
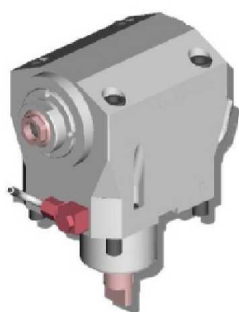
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

AXIAL GEARED-DOWN 2:1 OPPOSITE FACE TWIN DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0914032	Axial Geared-Down 2:1 Opposite Face ER40+ER32	ER40+ER32	2:1	3000	X	X

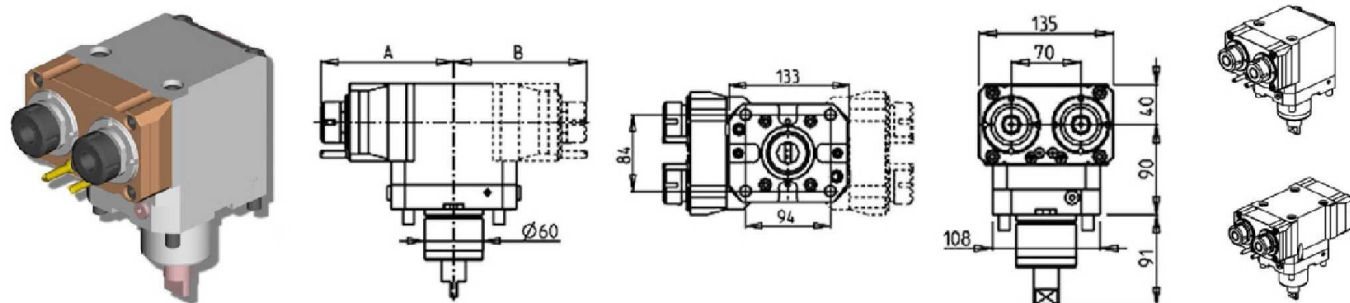
AXIAL GEARED-UP 1:2 OPPOSITE FACE TWIN DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	B	H Max
MNL0450116	Axial Geared-Up 1:2 ERA16/ERA16	ERA16+ERA16	1:2	12000	X	X	97.63	94.13	77.6
MNL0450120	Axial Geared-Up 1:2 ERA20/ERA20	ERA20+ERA20	1:2	12000	X	X	95.73	93.73	78

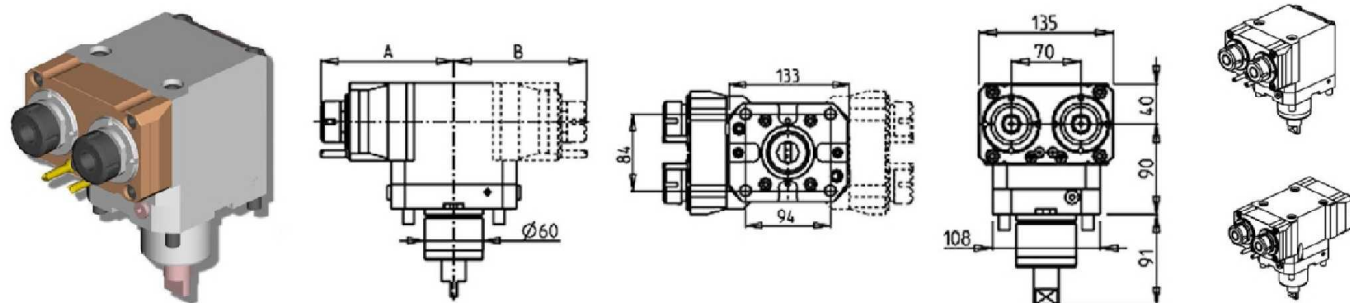
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Cool Thru	Ext Cool	A	B
MNL0220225	Axial Double Outlet ER25	ER25	1:1	6000	2	X		X	137.96	68
MNL0221225	Axial Double Outlet ER25 Cool Thru*	ER25	1:1	6000	2	X	X	X	162.66	68
MNL0220325	Axial Double Outlet ERA25	ERA25	1:1	6000	2	X		X	126.5	68
MNL0221325	Axial Double Outlet ERA25 Cool Thru*	ERA25	1:1	6000	2	X	X	X	156.03	68
MNL1250225	Axial Double Outlet ER25+ER25	ER25+ER25	1:1	6000	2+2	X		X	137.96	137.96
MNL1250325	Axial Double Outlet ERA25+ERA25	ERA25+ERA25	1:1	6000	2+2	X		X	126.5	126.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

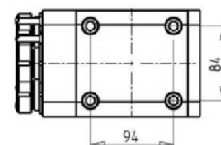
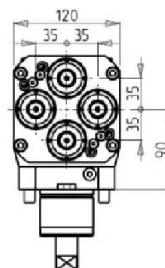
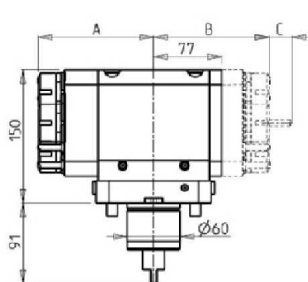
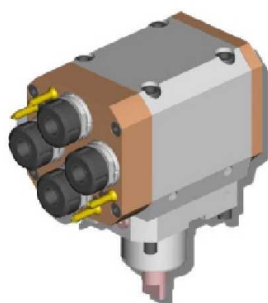
AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y 10,000 RPM

PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B
MNL1060225	Axial Double Outlet ER25 10,000 RPM	ER25	1:1	10000	2	X	X	137.96	68
MNL1060325	Axial Double Outlet ERA25 10,000 RPM	ERA25	1:1	10000	2	X	X	126.5	68
MNL1240225	Axial Double Outlet ER25+ER25 10,000 RPM	ER25+ER25	1:1	10000	2+2	X	X	137.96	137.96
MNL1240325	Axial Double Outlet ERA25+ERA25 10,000 RPM	ERA25+ERA25	1:1	10000	2+2	X	X	126.5	126.5

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

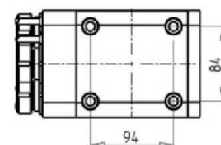
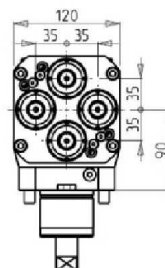
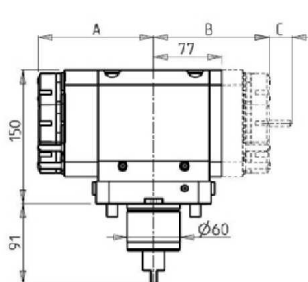
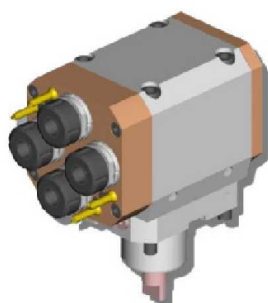
AXIAL MULTIPLE 4/8 OUTLET DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B	C Max
MNL0230425	Axial 4 Outlet ER25	ER25	1:1	6000	4	X	X	130.46		
MNL0234425	Axial 4+4 Outlet ER25	ER25+ER25	1:1	6000	4+4		X	130.46	130.46	36

Note : Also available in 2+2 version : Call for price and availability

AXIAL MULTIPLE 4/8 OUTLET DRIVEN TOOL 10,000 RPM



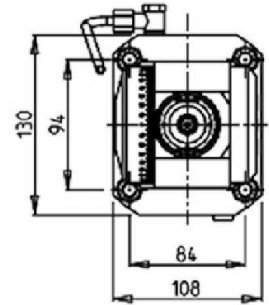
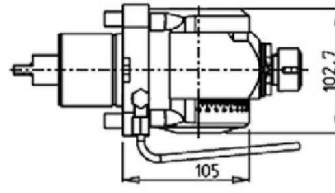
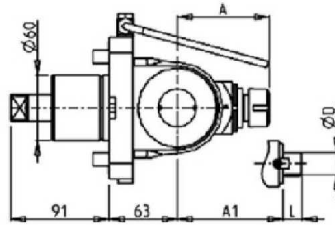
PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B	C Max
MNL1110425	Axial 4 Outlet ER25 10,000 RPM	ER25	1:1	10000	4	X	X	130.96		
MNL1114425	Axial 4+4 Outlet ER25 10,000 RPM	ER25+ER25	1:1	10000	4+4	X	X	130.96	130.96	36

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

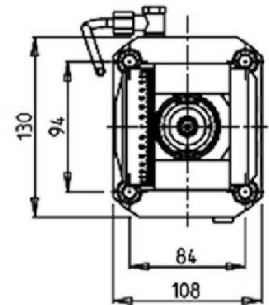
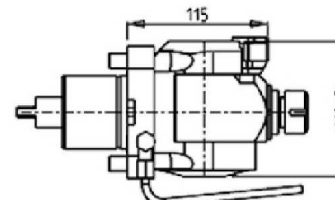
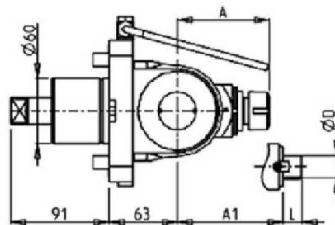
0-180 ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
MNL0930120	0-180 Adjustable Angle ER20	ER20	1:1	6000	X	X	85.16			
MNL0930125	0-180 Adjustable Angle ER25	ER25	1:1	6000	X	X	86.16			
MNL0930519	0-180 Adjustable Angle 3/4"x3/4"	3/4"x3/4"	1:1	6000	X	X	65	3/4"	3/4"	
MNL0930516	0-180 Adjustable Angle 16x17mm	16x17	1:1	6000	X	X	65	16	17	
MNL0930522	0-180 Adjustable Angle 22x19mm	22x19	1:1	6000	X	X	66	22	19	

Note : Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY

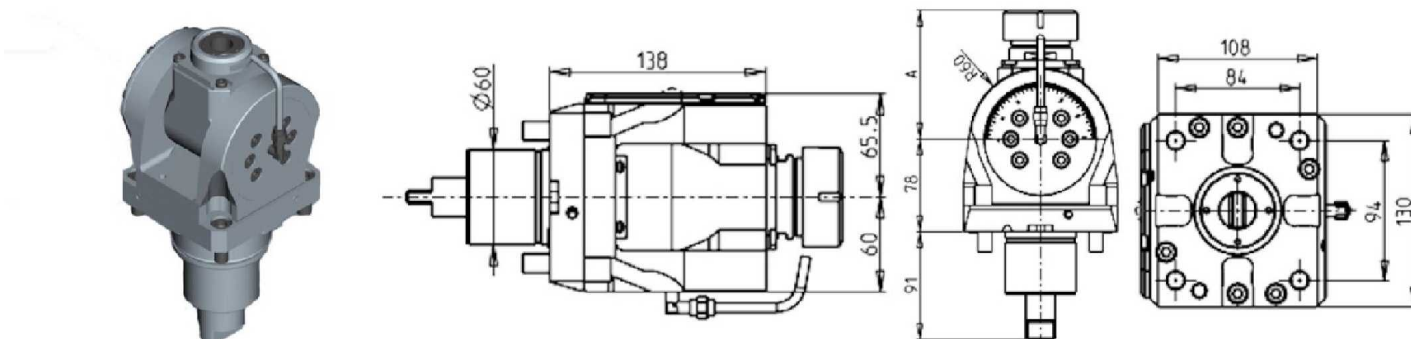


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
MNL0890120	0-180 Adj. Angle with Digital Display ER20	ER20	1:1	6000	X	X	85.16			
MNL0890125	0-180 Adj. Angle with Digital Display ER25	ER25	1:1	6000	X	X	86.16			
MNL0890519	0-180 Adj. Angle with Digital Display 3/4"x3/4"	3/4"x3/4"	1:1	6000	X	X	65	3/4"	3/4"	
MNL0890516	0-180 Adj. Angle with Digital Display 16x17mm	16x17	1:1	6000	X	X	65	16	17	
MNL0890522	0-180 Adj. Angle with Digital Display 22x19mm	22x19	1:1	6000	X	X	66	22	19	

Note : Wrenches are provided with the purchase of Specialty Toolholders

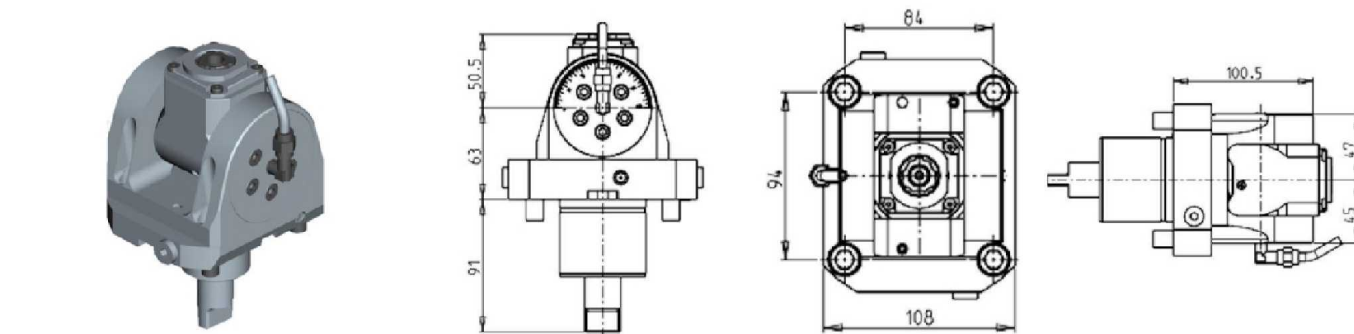
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

0-180 ADJUSTABLE ANGLE DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0660332	Adj. Angle (0-180) ERA32	ERA32	1:1	6000		X	81
MNL0660432	Adj. Angle (0-180) ERA32 Cool Thru*	ERA32	1:1	6000	X	X	81
MNL0660140	Adj. Angle (0-180) ERA40	ER40	1:1	6000		X	108.66
MNL0660240	Adj. Angle (0-180) ERA40 Cool Thru*	ER40	1:1	6000	X	X	108.66

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2

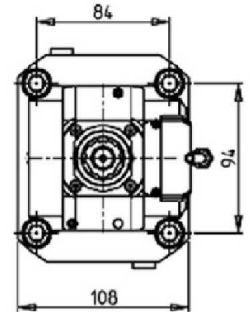
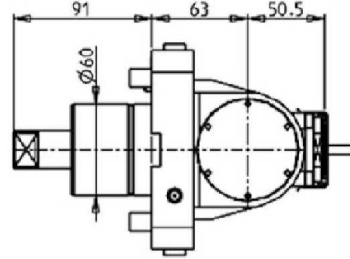
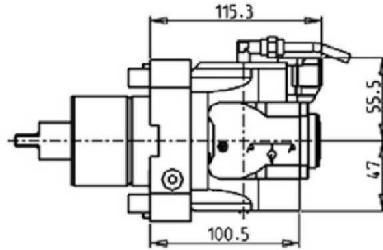
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0640316	Adj. Angle (0-180) Geared-Up ERA16	ERA16	1:2	12000		X
MNL0640416	Adj. Angle (0-180) Geared-Up ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 WITH DIGITAL DISPLAY



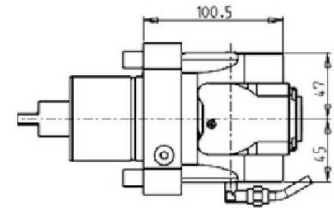
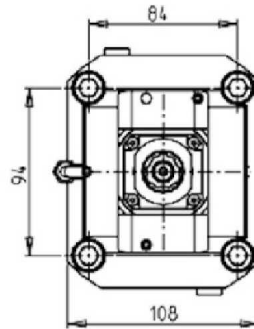
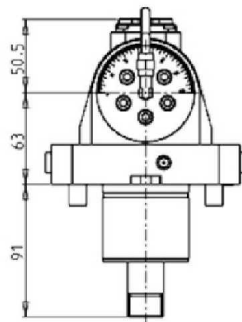
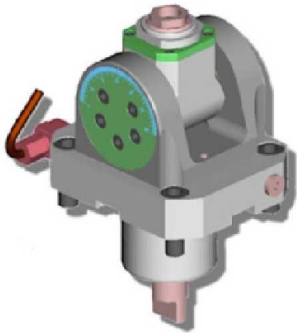
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0645316	0-180 Adj. Angle Geared Up with Digital Display ERA16	ERA16	1:2	12000		X
MNL0645416	0-180 Adj. Angle Geared Up with Digital Display ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180° ADJUSTABLE ANGLE DRIVEN TOOL



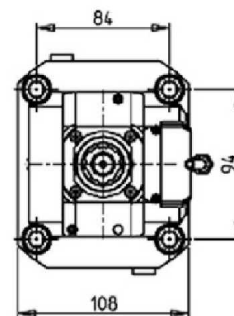
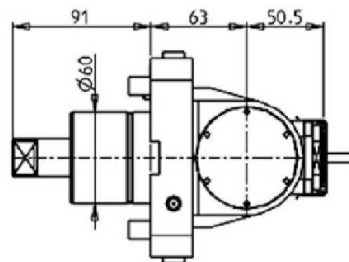
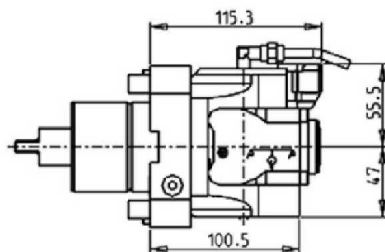
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0640120	Adj. Angle (0-180) ERA20	ERA20	1:1	6000		X
MNL0640220	Adj. Angle (0-180) ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

0-180° ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0645120	0-180 Adj. Angle with Digital Display ERA20	ERA20	1:1	6000		X
MNL0645220	0-180 Adj. Angle with Digital Display ERA20 Cool Thru*	ERA20	1:1	6000	X	X

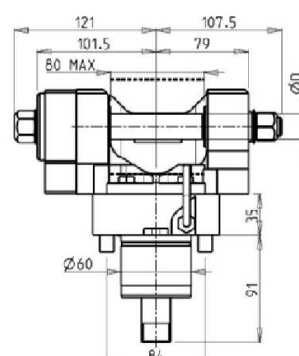
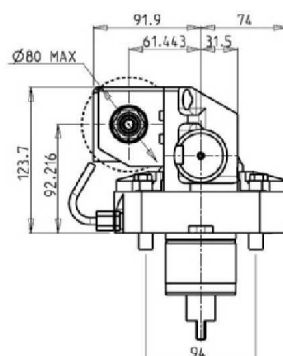
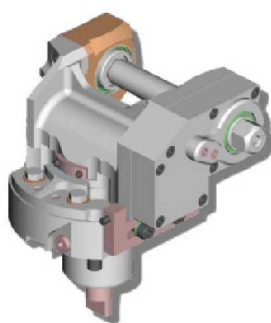
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

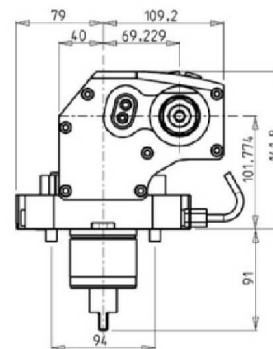
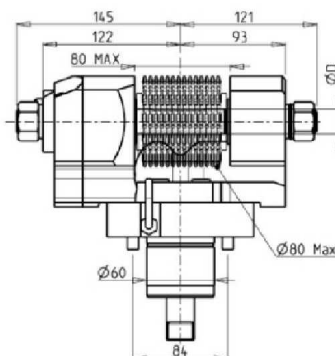
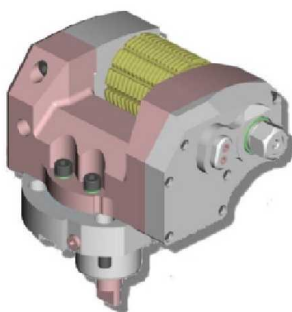
NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

DRIVEN GEAR HOBBER

PartNumber	Description	Reversible	I	RPM	Ext Cool	D mm	D Inch
MNL0151100	Gear Hobbing Tool 1:1	X	1:1	6000	X	16-22-27-32	3/4"-1"-1 1/4"
MNL0152100	Gear Hobbing Tool 2:1 Geared Down	X	2:1	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

REINFORCED DRIVEN GEAR HOBBER

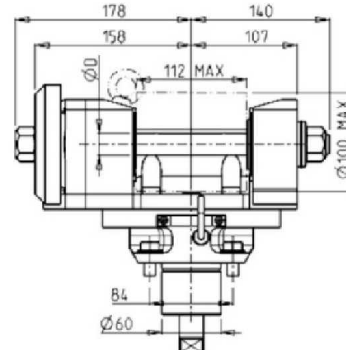
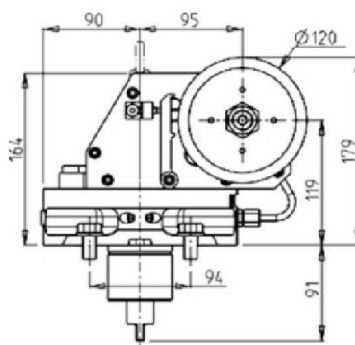
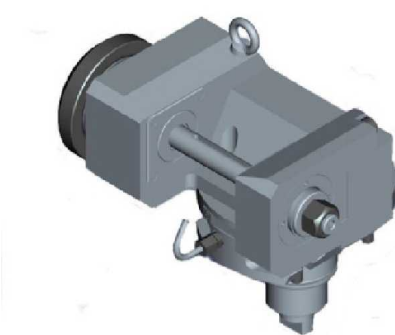
PartNumber	Description	Reversible	I	RPM	Ext Cool	D mm	D Inch
MNL0411100	Heavy Duty Gear Hobbing Tool 1:1	X	1:1	6000	X	16-22-27-32	3/4"-1"-1 1/4"
MNL0412100	Heavy Duty Gear Hobbing Tool 2:1 Geared Down	X	2:1	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

LARGE DRIVEN GEAR HOBBER



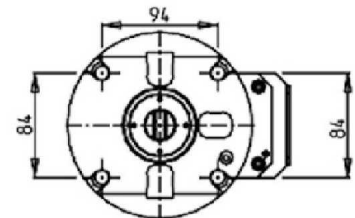
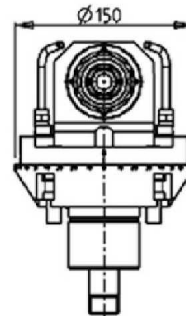
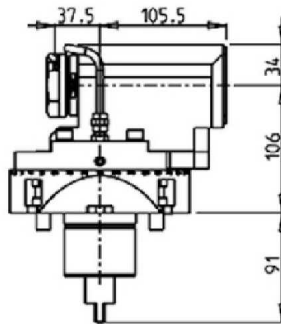
PartNumber	Description	I	RPM	Ext Cool	D (mm)
MNL0671100	Large Gear Hobber 1:1	1:1	6000	X	22-27-32
MNL0672100	Large Gear Hobber 2:1 Geared Down	2:1	3000	X	22-27-32

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NTX2000/2500/3000 2ND GEN. 10ST - CTX2500 (BMT60)

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR POWER SKIVING H=106mm

Please see Accessories for MTSK Clamping Units



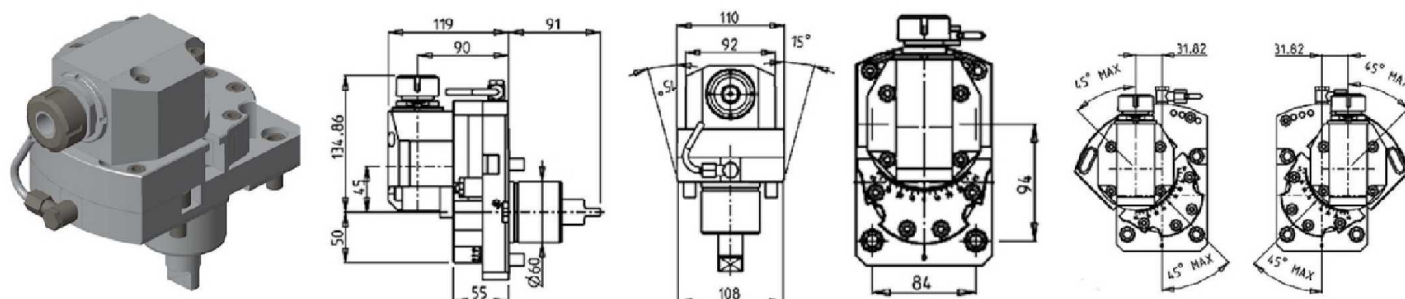
PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0870100	Axial MTSK-40 for Power Skiving H=106mm	MTSK-40	1:1	6000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL DRIVEN

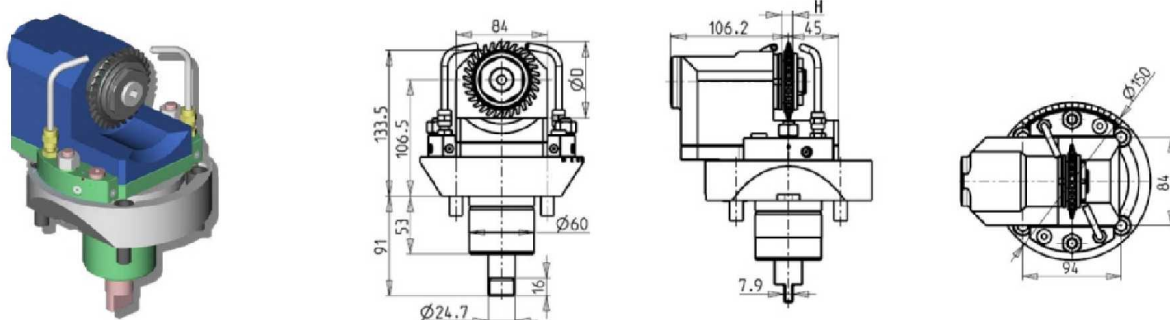
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±45° Y AXIS ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL1100125	±45° Y Axis Adjustable Angle ER25	ER25	1:1	6000	X	X

WORM GEAR DRIVEN TOOL



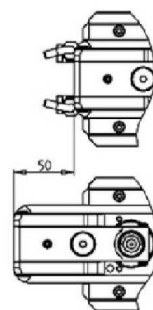
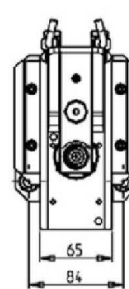
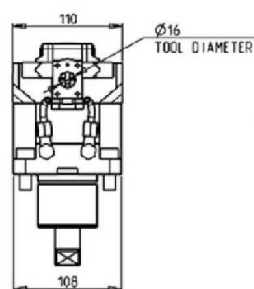
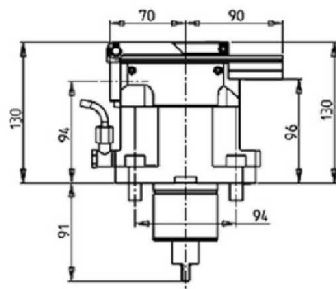
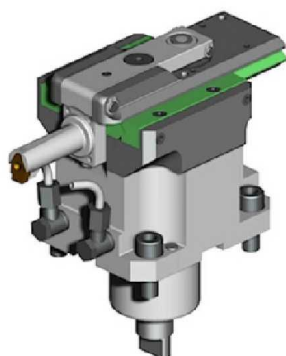
PartNumber	Description	Spindle	I	RPM	Ext Cool	D	H
MNL0378125	Driven Worm Gear Tool 1"x12mm	1"x12	1:1	6000	X	63-70-80	Max 12
MNL0378022	Driven Worm Gear Tool 22mmx12mm	22x12	1:1	6000	X	63-70-80	Max 12

Note : Wrenches are provided with the purchase of Specialty Toolholders

NL DRIVEN

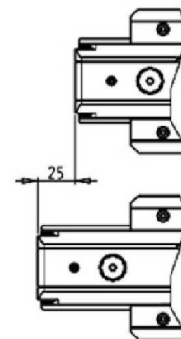
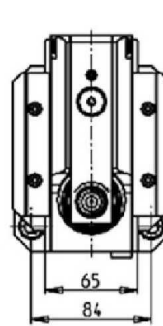
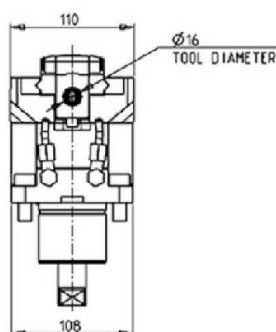
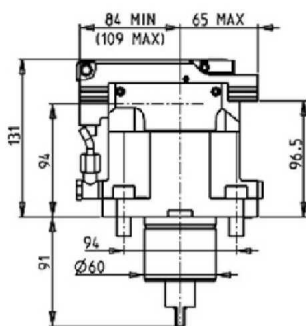
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

BROACHING/SLOTING DRIVEN TOOL 50mm STROKE H=94mm



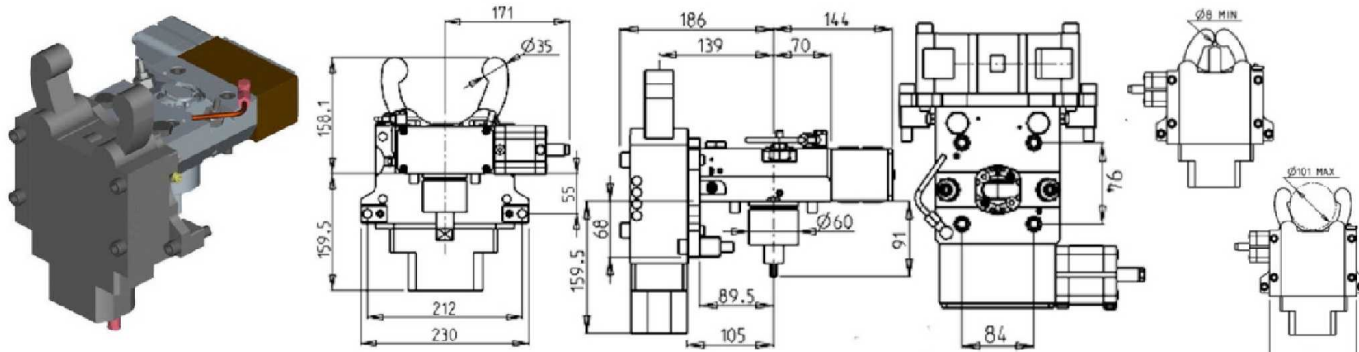
PartNumber	Description	Reversible	I	RPM MAX	Ext Cool
MNL0650100	Broaching/Slotting Driven Tool 50mm Stroke	X	4:1	2000	X

BROACHING/SLOTING DRIVEN TOOL 25mm STROKE H=94mm



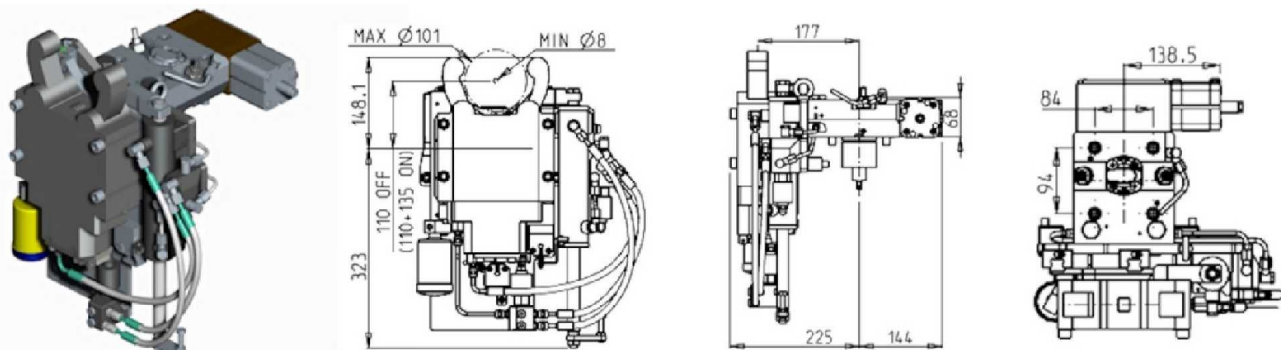
PartNumber	Description	Reversible	I	RPM Max	Ext Cool
MNL0650200	Broaching/Slotting Driven Tool 25mm Stroke	X	4:1	2400	X

TURRET MOUNTED COMPACT STEADY REST (SIZE 2)



PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNL0560100	Compact Steady Rest- Size 2	SLU-2	8mm/101mm	1:1	6000	X	NO
MNL0560100US	Compact Steady Rest- Size 2 with Electronics	SLU-2	8mm/101mm	1:1	6000	X	YES

TURRET MOUNTED SLIDING STEADY REST (SIZE 2)



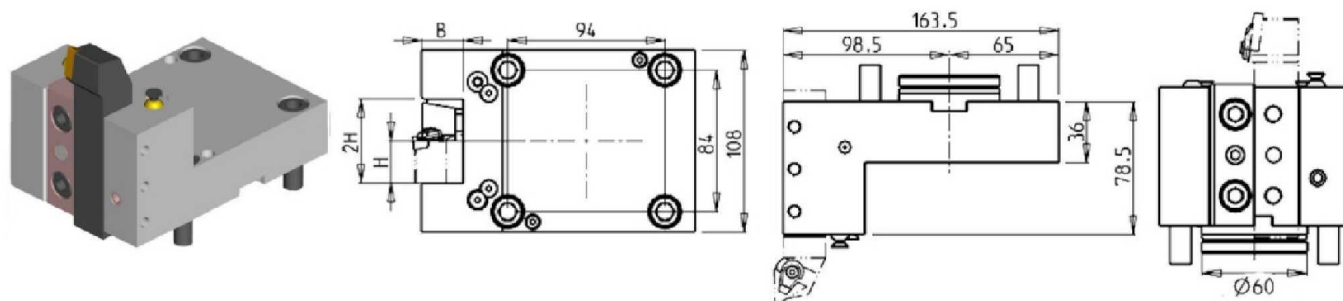
PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNL0560300	Sliding Steady Rest - Size 2	SLU-2	8mm/101mm	1:1	6000	X	NO
MNL0560300US	Sliding Steady Rest- Size 2 with Electronics	SLU-2	8mm/101mm	1:1	6000	X	YES

Phone: 810-632-4446 : Fax: 810-632-4467

NL STATIC

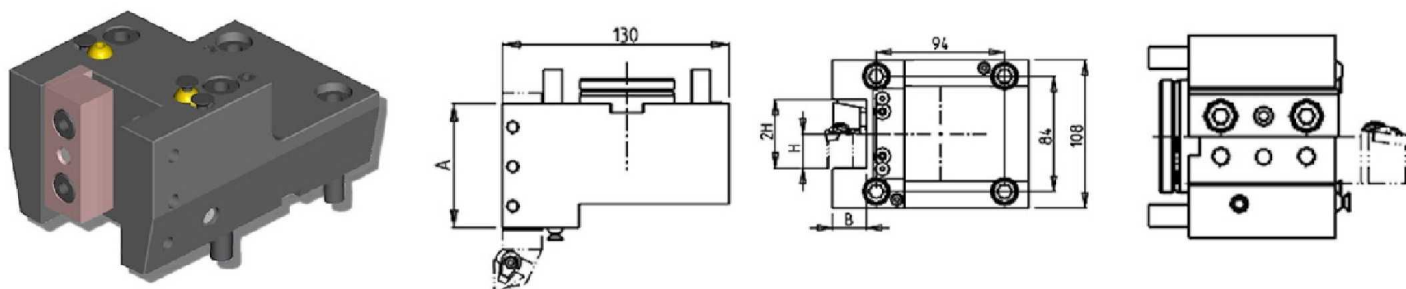
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL SINGLE STATIC



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	B	H
MNL0041905	Radial Single Static: 3/4"	1	X		X	Inch	3/4"	3/4"
MNL0042540	Radial Single Static: 1"	1	X		X	Inch	1"	1"
MNL0042000	Radial Single Static: 20mm	1	X		X	mm	20	20
MNL0042500	Radial Single Static: 25mm	1	X		X	mm	25	25
MNL0042510	Radial Single Static: 25mm Cool Thru*	1	X	X	X	mm	25	25

RADIAL SINGLE STATIC TOOL

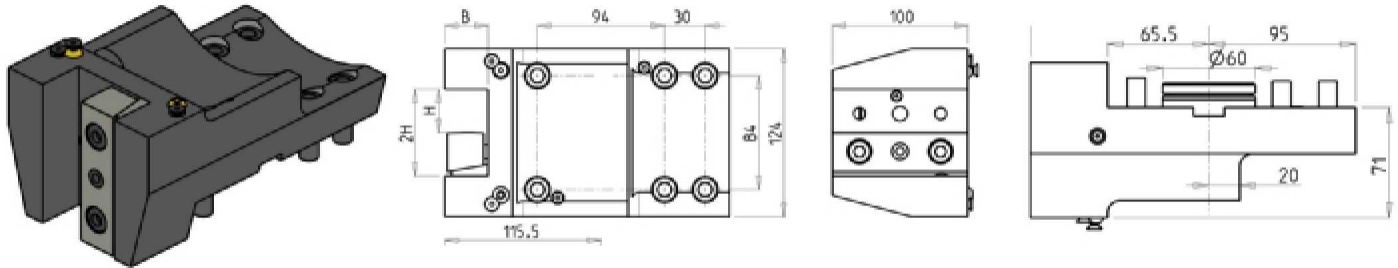


PartNumber	Description	Mori Ref	# of Tools	Reversible	Dimensions	A	B	H
MNL0042000_CH	Radial Single Static 20mm	T00187	1/2	X	mm	65	20	20
MNL0042500_CH	Radial Single Static 25mm	T00186	1/2	X	mm	70	25	25

NL STATIC

NLX2500 - NLX3000 - NLX4000 - CTX2500 (BMT60)

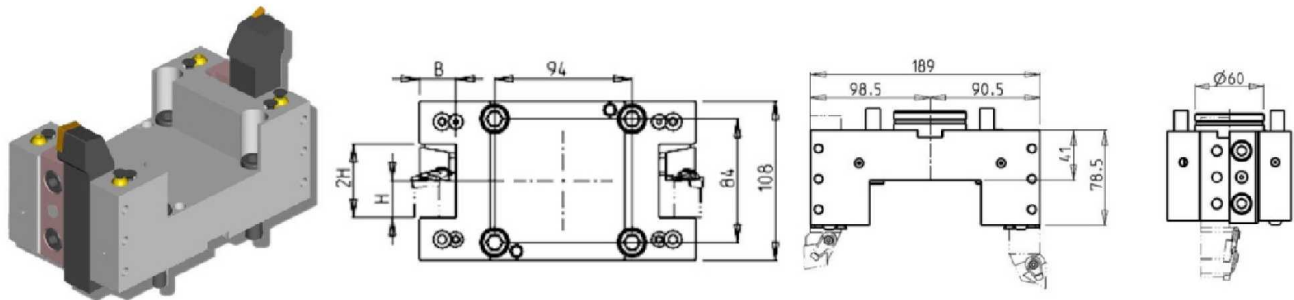
RADIAL SINGLE STATIC



PartNumber	Description	Mori Ref	# of Tools	Dim.	B	H
MNL0043175	Radial Single Static: 1-1/4"	T00462	1	Inch	1-1/4"	1-1/4"
MNL0043200	Radial Single Static: 32mm	T00450	1	mm	32	32

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

SINGLE RADIAL DOUBLE SIDE STATIC TOOL

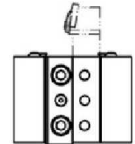
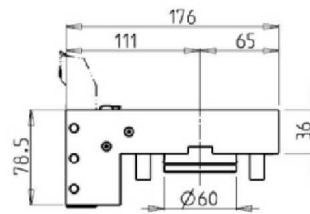
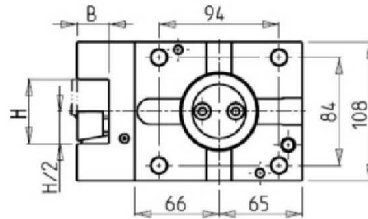
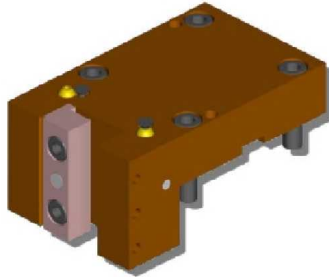


PartNumber	Description	Mori Ref	# of Tools	Cool Thru	Ext Cool	Reversible	Dim.	B	H
MNL0051905	Radial Double Static Tool 3/4"	T00201	2/4		X	X	Inch	3/4"	3/4"
MNL0052540	Radial Double Static Tool 1"	T00199	2/4		X	X	Inch	1"	1"
MNL0052000	Radial Double Static Tool 20mm	T00185	2/4		X	X	mm	20	20
MNL0052500	Radial Double Static Tool 25mm	T00184	2/4		X	X	mm	25	25
MNL0052510	Radial Double Static Tool 25mm Cool Thru*		2/4	X	X	X	mm	25	25

NL STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

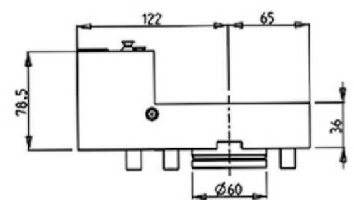
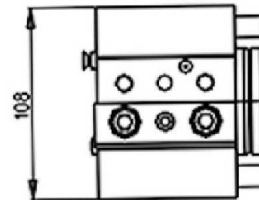
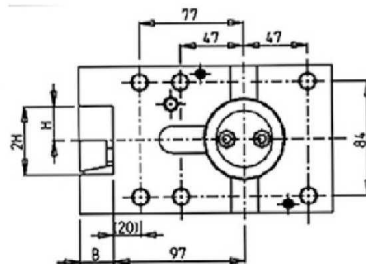
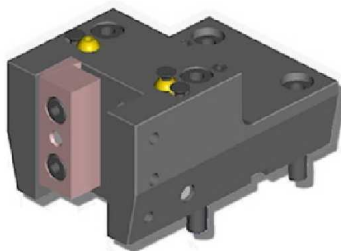
RADIAL REAR-SET SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Dim.	B	H
MNL0381905	Radial Rear-set Single Tool: 3/4"	1/2	Inch	3/4"	3/4"
MNL0382540	Radial Rear-set Single Tool: 1.0"	1/2	Inch	1"	1"
MNL0382000	Radial Rear-set Single Tool: 20mm	1/2	mm	20	20
MNL0382500	Radial Rear-set Single Tool: 25mm	1/2	mm	25	25

NLX2500 - NLX3000 - NLX4000 - CTX2500 (BMT60)

RADIAL SINGLE STATIC TOOL FOR SUBSPINDLE

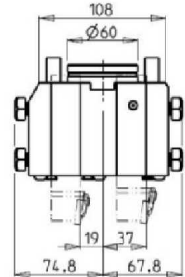
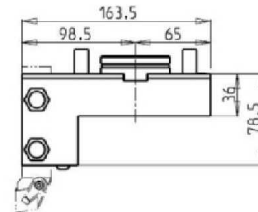
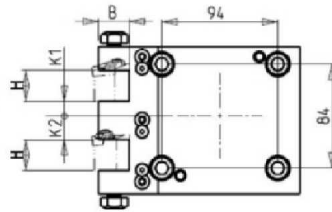
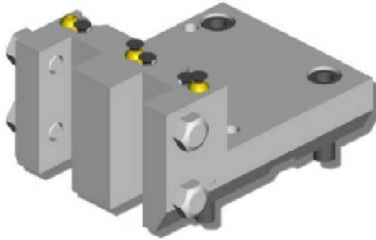


PartNumber	Description	Dimensions	B	H
MNL0992500	Radial Single Static 25mm	mm	25	25

NL STATIC

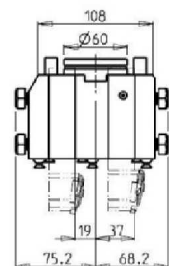
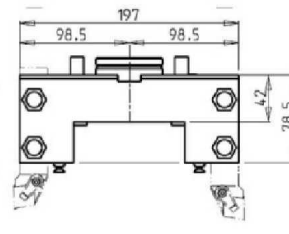
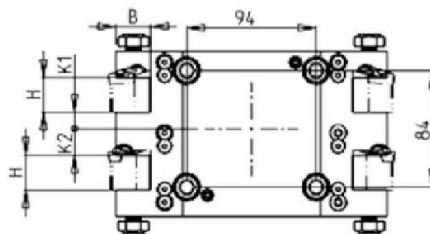
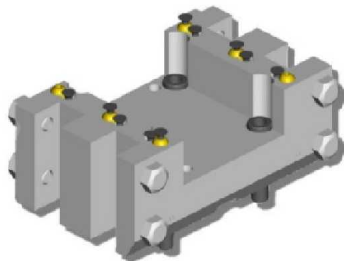
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

DOUBLE RADIAL SINGLE SIDE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	H	B	K1	K2
MNL0061905	Radial Single-Side Double Tool: 3/4"	2	X		X	Inch	3/4"	3/4"	1/2"	3/4"
MNL0062540	Radial Single-Side Double Tool: 1"	2	X		X	Inch	1"	1"	1/2"	3/4"
MNL0062000	Radial Single-Side Double Tool: 20mm	2	X		X	mm	20	20	12	19
MNL0062500	Radial Single-Side Double Tool: 25mm	2	X		X	mm	25	25	12	19
MNL0062510	Radial Single-Side Double Tool: 25mm Cool Thru*	2	X	X	X	mm	25	25	12	19

DOUBLE RADIAL DOUBLE SIDE STATIC TOOL

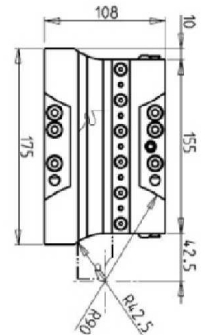
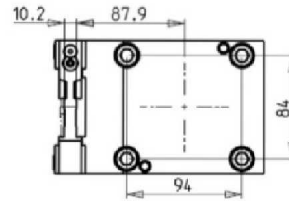
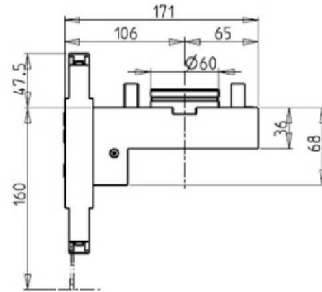
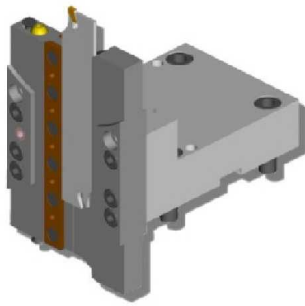


PartNumber	Description	# of Tools	Reversible	Dim.	Cool Thru	Ext Cool	H	B	K1	K2
MNL0071905	Radial Double Side Twin 3/4"	4	X	Inch		X	3/4"	3/4"	1/2"	3/4"
MNL0072540	Radial Double Side Twin 1"	4	X	Inch		X	1"	1"	1/2"	3/4"
MNL0072010	Radial Double Side Twin 20mm Cool Thru*	4	X	mm	X	X	20	20	12	19
MNL0072500	Radial Double Side Twin 25mm	4	X	mm		X	25	25	12	19

NL STATIC

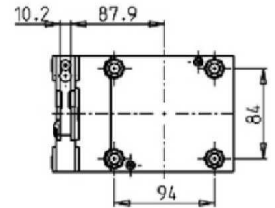
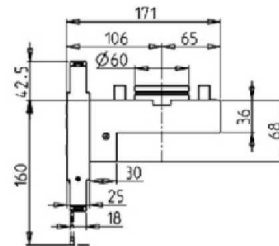
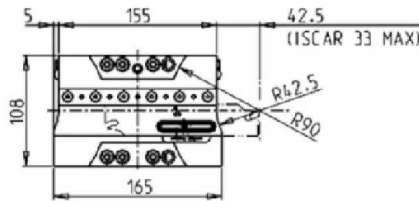
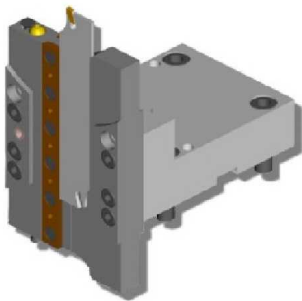
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) -
NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL DOUBLE BLADE HOLDER WITH BLADE KIT



PartNumber	Description	# of Tools
MNL0140132	Radial Double Blade Holder wth Blade Kit	1
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts	

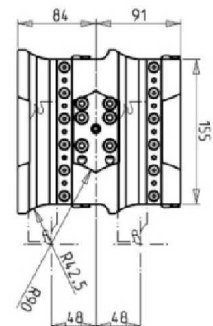
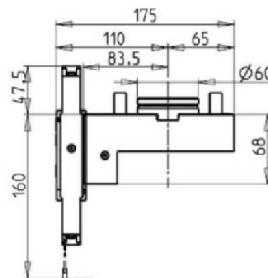
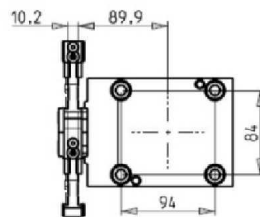
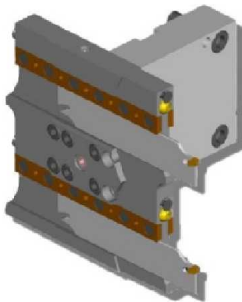
RADIAL BLADE HOLDER WITH INTERNAL COOLANT- BLADE KIT NOT INCLUDED



PartNumber	Description	# of Tools	Ext Cool	Int Cool
MNL0860132	Radial Blade Holder Cool Thru	1	X	X
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts			

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - CTX2500 (BMT60)

RADIAL DOUBLE TWIN SIDE BLADE HOLDER WITH BLADE KITS

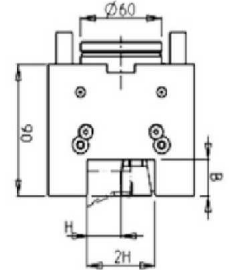
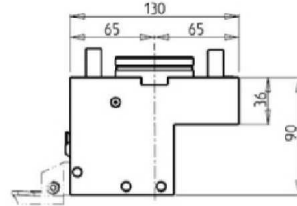
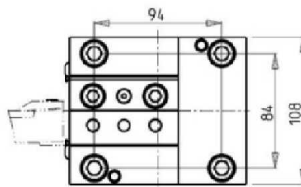
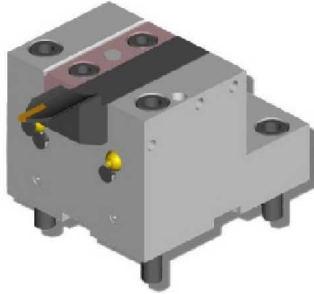


PartNumber	Description	# of Tools
MNL0160232	Radial Double Twin-side Blade Holder with Blade Kit	2
BLADEKIT-2	Blade Kit: 2 Blade, 20 Inserts	

NL STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

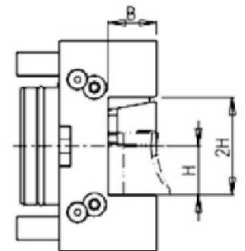
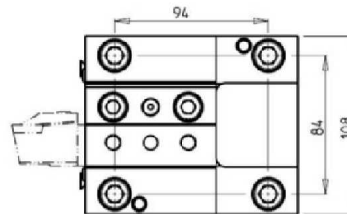
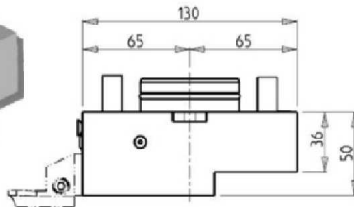
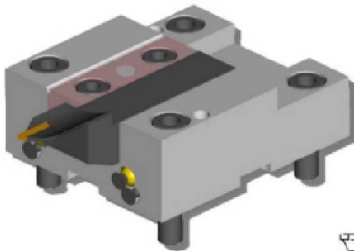
SINGLE AXIAL STATIC TOOL



PartNumber	Description	Mori Ref	# of Tools	Reversible	Dim.	B	H
MNL0131905	Axial Single Position Tool: 3/4"	T03014	1/2	X	Inch	3/4"	3/4"
MNL0132540	Axial Single Position Tool: 1.0"	T03013	1/2	X	Inch	1"	1"
MNL0132000	Axial Single Position Tool: 20mm	T03006	1/2	X	mm	20	20
MNL0132500	Axial Single Position Tool: 25mm	T03005	1/2	X	mm	25	25

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

SINGLE AXIAL STATIC TOOL - LOWER HEIGHT

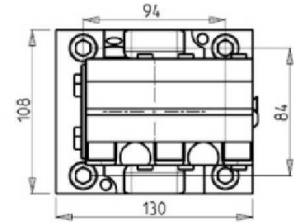
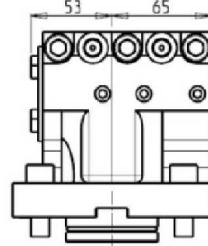
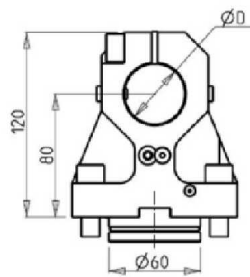


PartNumber	Description	Mori Ref	# of Tools	Reversible	Dim.	B	H
MNL0302000	Single Axial Lower Height Static Tool: 20mm	T03006	1	X	mm	20	20
MNL0302500	Single Axial Lower Height Static Tool: 25mm	T03005	1	X	mm	25	25

NL STATIC

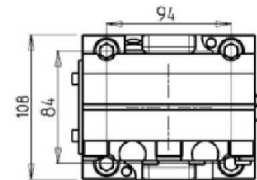
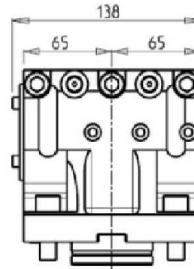
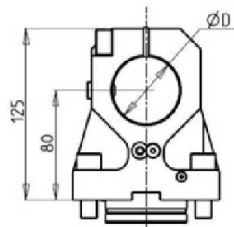
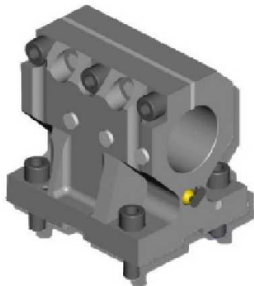
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) -
NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

SINGLE AXIAL BORING BAR HOLDER



PartNumber	Description	Mori Ref	# of Tools	Reversible	Cool Thru	Ext Cool	Dim.	D
MNL0113810	Axial Single Boring Bar Holder: 1-1/2"	T10101/ T13130	1	X	X	X	Inch	1-1/2"
MNL0114000	Axial Single Boring Bar Holder: 40mm	T10097/ T13128	1	X	X	X	mm	40
KIT1003004	1 1/2" Plug & Seal to make BBH Cool Thru*							
KIT1003003	40mm Plug & Seal to make BBH Cool Thru*							

SINGLE AXIAL BORING BAR HOLDER

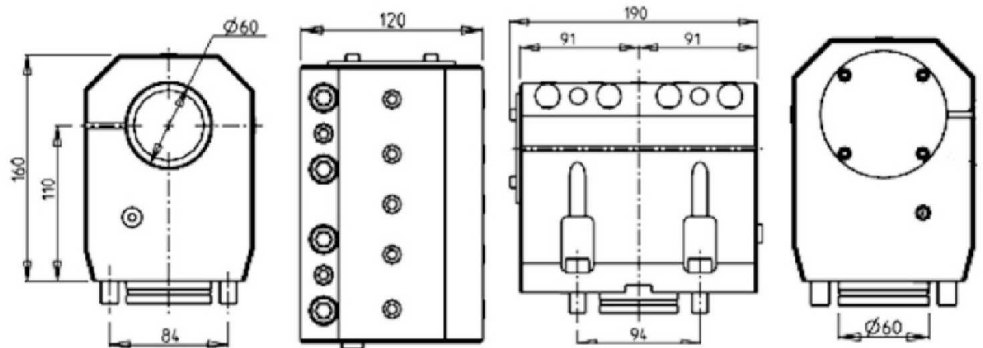
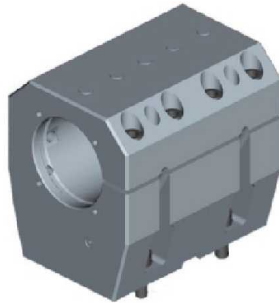


PartNumber	Description	Mori Ref	# of Tools	Reversible	Cool Thru	Ext Cool	Dim.	D
MNL0115080	Axial Single Boring Bar Holder: 2.0"	T10102	1	X	X	X	Inch	2"
MNL0115000	Axial Single Boring Bar Holder: 50mm	T10098	1	X	X	X	mm	50
KIT1001002	50mm or 2" Plug & Seal to make BBH Cool Thru*							

NL STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

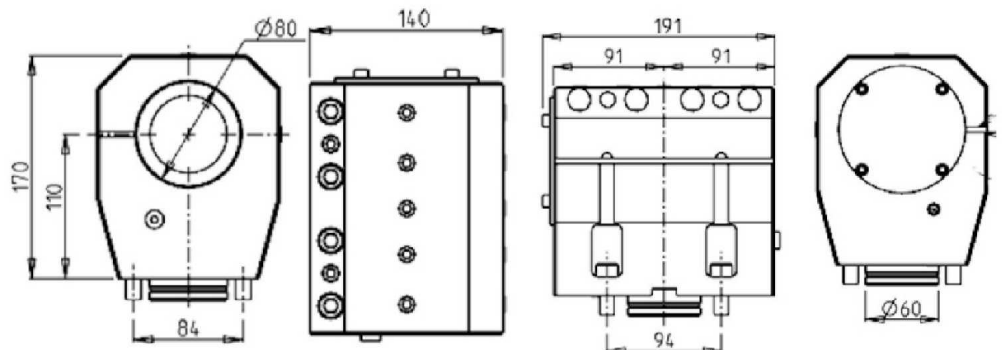
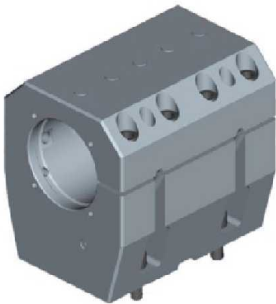
AXIAL SINGLE BORING BAR HOLDER 60mm H=110mm



PartNumber	Description	# of Tools	Cool Thru	Ext Cool
MNL0616000	Single Boring Bar Holder 60mm H=110mm	1	X	X
KIT1005025	60mm Plug & Seal to make BBH Cool Thru			

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

AXIAL SINGLE BORING BAR HOLDER 80mm H=110mm

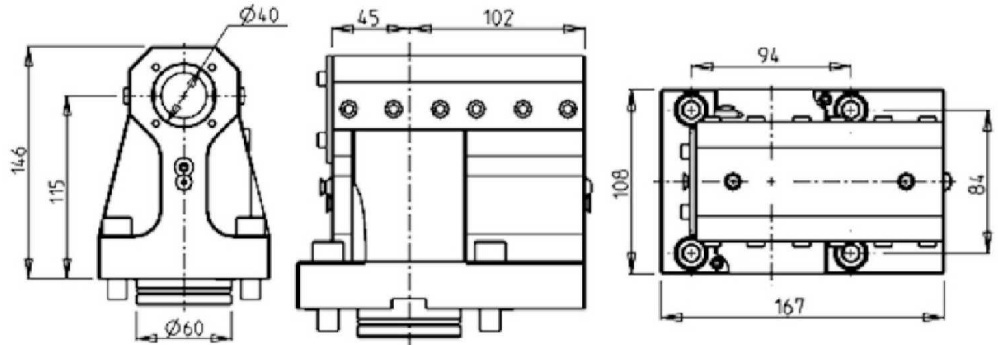
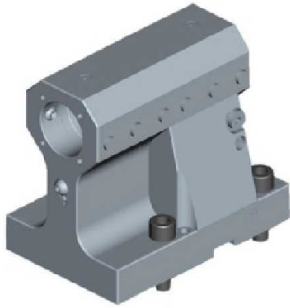


PartNumber	Description	# of Tools	Cool Thru	Ext Cool
MNL0628000	Single Boring Bar Holder 80mm H=110mm	1	X	X
KIT1005013	80mm Plug & Seal to make BBH Cool Thru			

NL STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

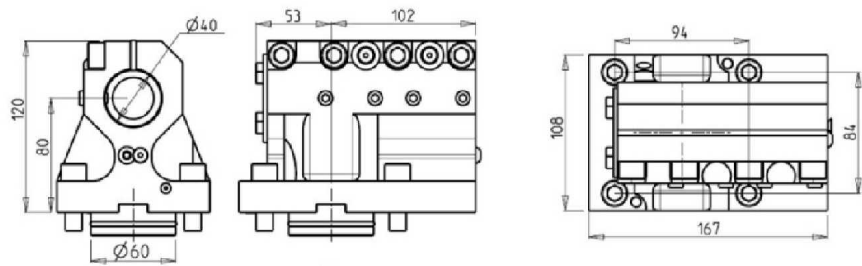
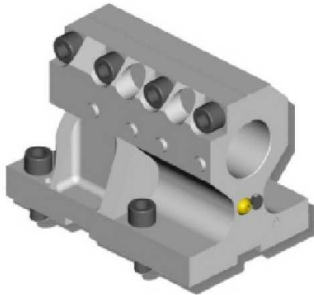
SINGLE AXIAL EXTENDED BORING BAR HOLDER 40mm H=115mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool
MNL0604000	Single Axial Extended BBH: 40mm H=115mm	1	X	X	X
KIT1000003	40mm Plug & Seal to make BBH Cool Thru*				

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

SINGLE AXIAL EXTENDED BORING BAR HOLDER H=80mm

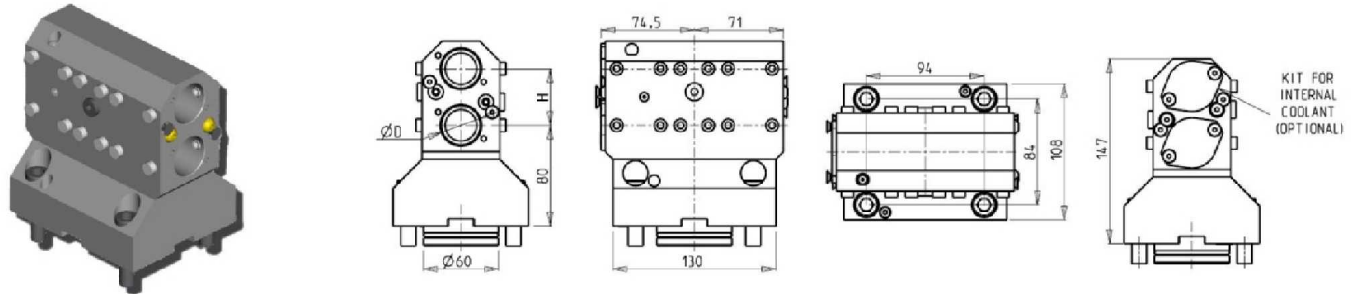


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNL0313810	Single Axial Extended BBH: 1.5"	1	X	X	X	Inch	1.5"
MNL0314000	Single Axial Extended BBH: 40mm	1	X	X	X	mm	40
KIT1002003	40mm Plug & Seal to make BBH Cool Thru*						
KIT1002004	1-1/2 Plug & Seal to make BBH Cool Thru*						

NL STATIC

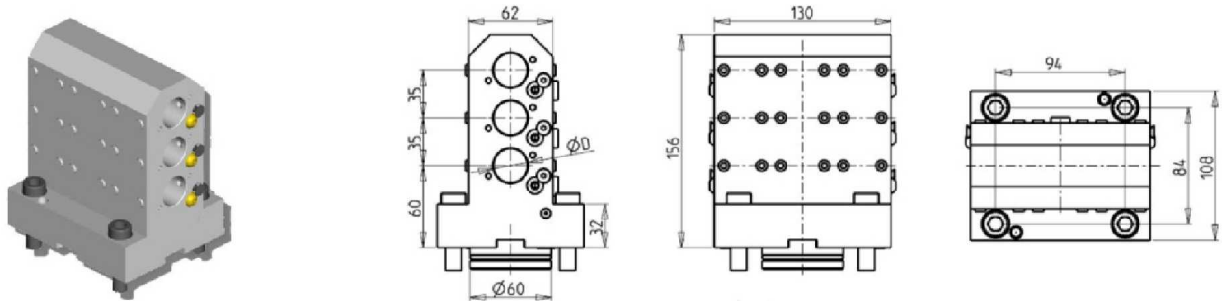
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) -
NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL 2 + 2 POSITION BORING BAR HOLDER



PartNumber	Description	Mori Ref	# of Tools	Cool Thru	Ext Cool	Dim.	D	H
MNL0103175	Axial 2+2 Boring Bar Holder:1-1/4"	T10100	2+2	X	X	Inch	1-1/4"	1-3/4"
MNL0103200	Axial 2+2 Boring Bar Holder:32mm	T10096	2+2	X	X	mm	32	45
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*							

AXIAL 3 + 3 POSITION UPRIGHT BORING BAR HOLDER

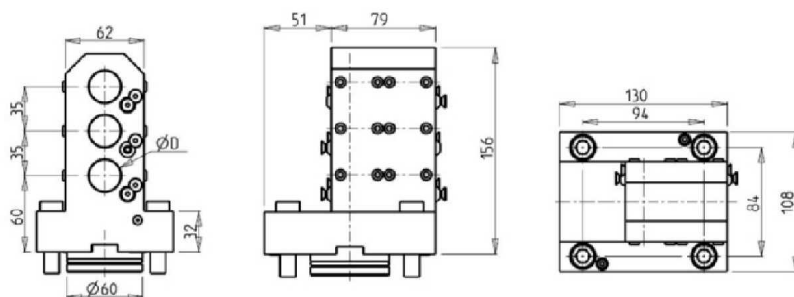
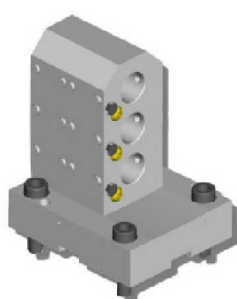


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	D
MNL0182540	Axial 3+3 Boring Bar Holder: 1"	3+3	X	X	X	Inch	1"
MNL0182500	Axial 3+3 Boring Bar Holder: 25mm	3+3	X	X	X	mm	25
KIT1000006	25mm or 1" Plug to make BBH Cool Thru						

NL STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

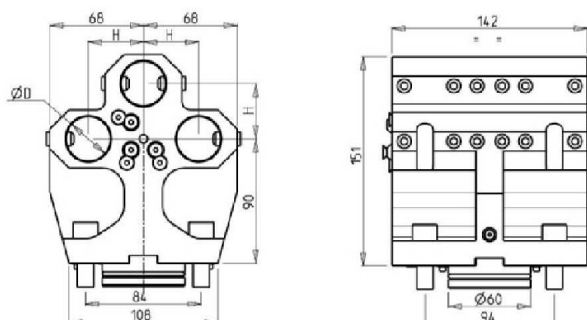
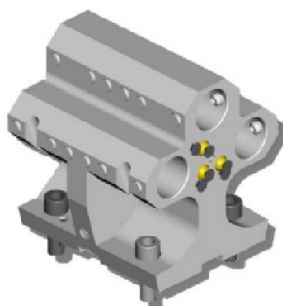
AXIAL 3 POSITION UPRIGHT REAR SET BORING BAR HOLDER



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	D
MNL0192540	Axial Triple Rear-Set Boring Bar Holder: 1"	3	X	X	X	Inch	1"
MNL0192500	Axial Triple Rear-Set Boring Bar Holder: 25mm	3	X	X	X	mm	25
KIT1000006	25mm or 1" Plug to make BBH Cool Thru						

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

AXIAL 3 + 3 POSITION BORING BAR HOLDER

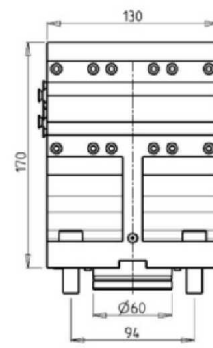
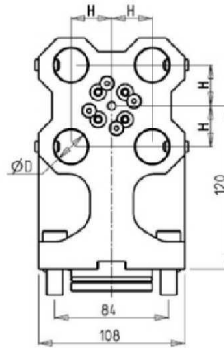
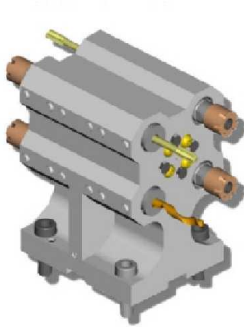


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimension	D	H
MNL0093175	Axial 3+3 Boring Bar Holder: 1-1/4"	3+3	X	X	Inch	1-1/4"	1-1/2"
MNL0093200	Axial 3+3 Boring Bar Holder: 32mm	3+3	X	X	mm	32	40
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*						

NL STATIC

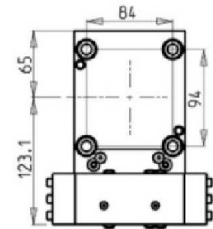
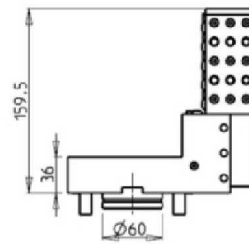
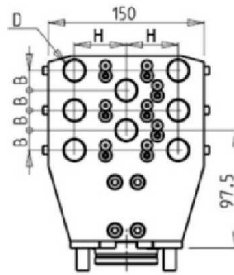
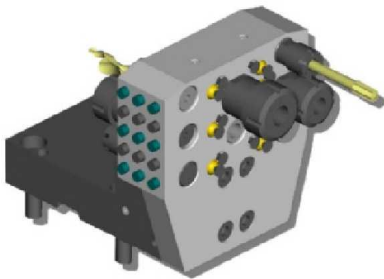
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - CTX2500 (BMT60)

AXIAL 4 + 4 POSITION BORING BAR HOLDER



PartNumber	Description	# of Tools	Ext Cool	Dimension	D	H
MNL0082540	Axial 4+4 Boring Bar Holder: 1"	4+4	X	Inch	1"	1 1/4"
MNL0082500	Axial 4+4 Boring Bar Holder: 25mm	4+4	X	mm	25	30

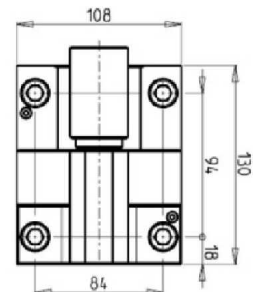
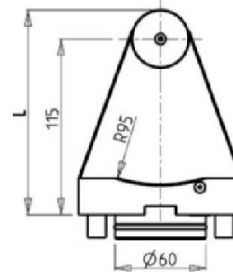
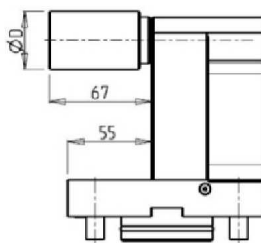
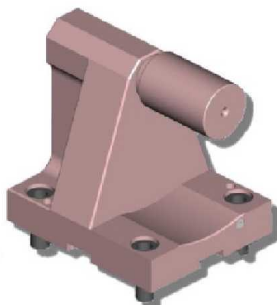
AXIAL 8 POSITION BORING BAR HOLDER



PartNumber	Description	# of Tools	Reversible	Ext Cool	Dim.	D	B	H
MNL0121905	Axial 8-Position Boring Bar Holder: 3/4"	8	X	X	Inch	3/4"	5/8"	2"
MNL0122000	Axial 8-Position Boring Bar Holder: 20mm	8	X	X	mm	20	16	50

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

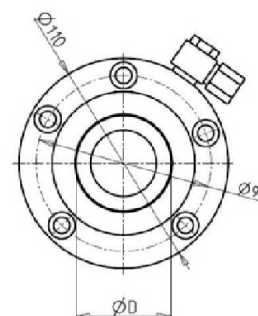
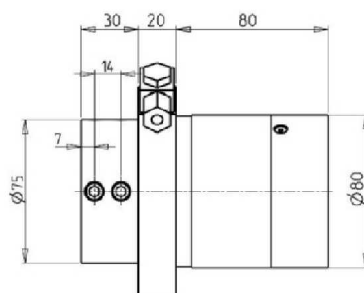
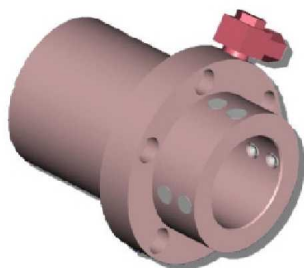
TAILSTOCK FOR SUB-SPINDLE



PartNumber	Description	# of Tools	Reversible	D	L
MNL0360100L	Tailstock for Sub-Spindle 2"	1	X	2"	140.4
MNL0360100	Tailstock for Sub-Spindle 38mm	1	X	38mm	134
080003	Removable Tailstock Center				

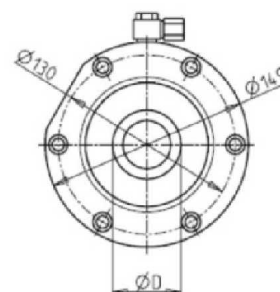
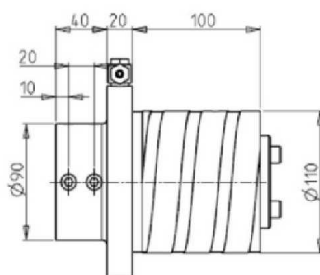
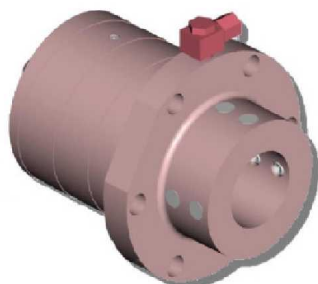
NL STATIC

NL1500/2000/2500

TAILSTOCK ADAPTER - 700mm DRILL HEAD DISTANCE

PartNumber	Description	Cool Thru	D
MNL0285080	Tailstock Adaptor 2"	X	2"
MNL0285000	Tailstock Adaptor 50mm	X	50mm

NL2500/3000

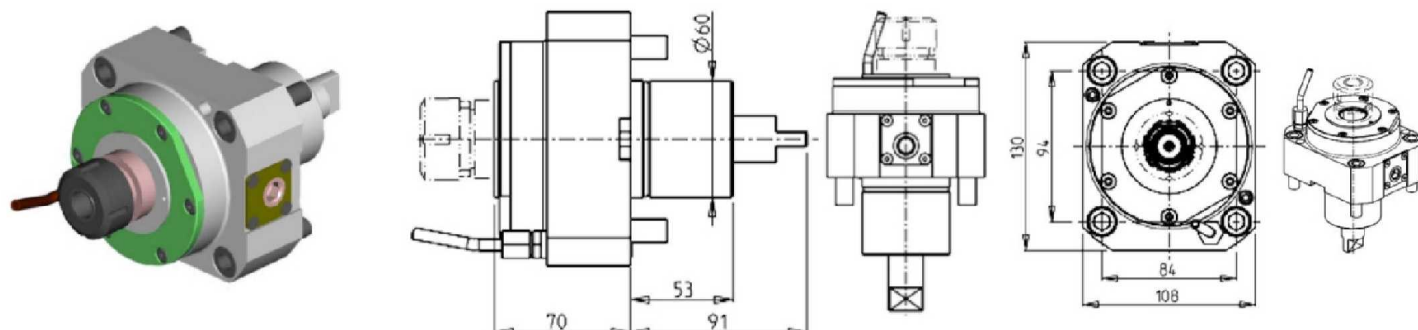
TAILSTOCK ADAPTER - 1250mm DRILL HEAD DISTANCE

PartNumber	Description	Cool Thru	D
MNL0275080	Tailstock Adapter 2"	X	2"
MNL0275000	Tailstock Adapter 50mm	X	50mm

NL CAPTO DRIVEN

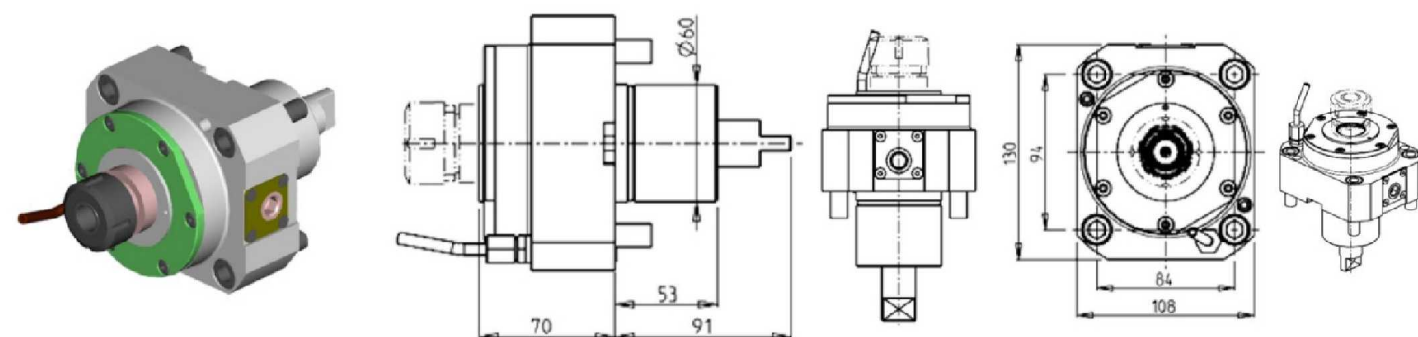
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

RADIAL DRIVEN TOOL COROMANT-CAPTO



PartNumber	Description	I	RPM	Capto Size	Ext Cool
MNL0530140	Radial Capto C4	1:1	6000	C4	X
MNL0530150	Radial Capto C5	1:1	6000	C5	X

RADIAL DRIVEN TOOL COROMANT-CAPTO RPM=10,000

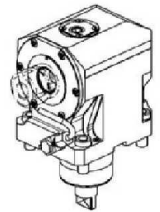
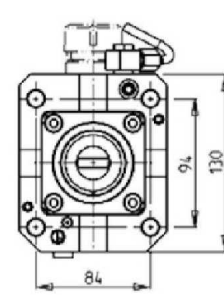
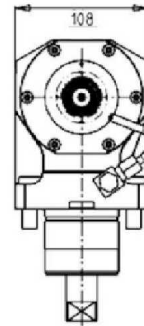
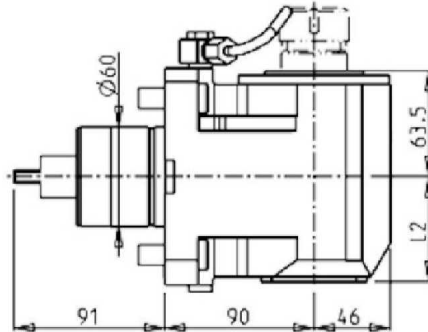
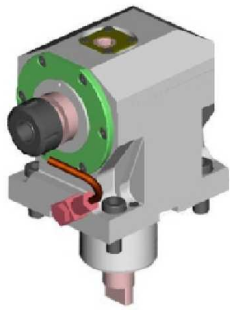


PartNumber	Description	Capto Size	I	RPM	Ext Cool
MNL0810140	Radial Capto C4 RPM=10,000	C4	1:1	10000	X
MNL0810150	Radial Capto C5 RPM=10,000	C5	1:1	10000	X

NL CAPTO DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

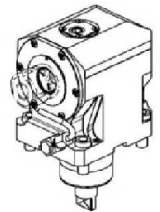
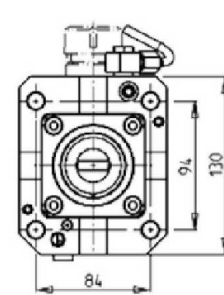
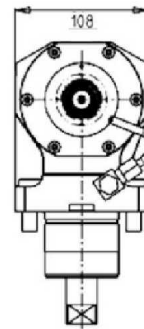
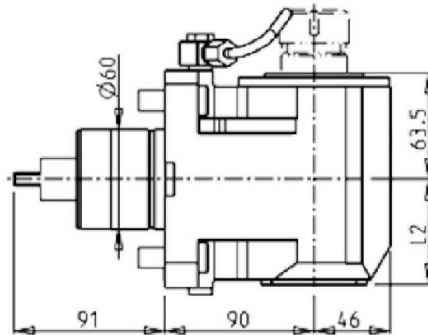
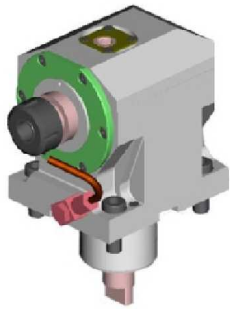
AXIAL DRIVEN TOOL COROMANT-CAPTO



PartNumber	Description	Reversible	I	RPM	Capto Size	Cool Thru	Ext Cool	L2
MNL0520140	Axial Capto C4	X	1:1	6000	C4		X	63
MNL0520240	Axial Capto C4 Cool Thru*	X	1:1	6000	C4	X	X	75.5
MNL0520150	Axial Capto C5	X	1:1	6000	C5		X	63
MNL0520250	Axial Capto C5 Cool Thru*	X	1:1	6000	C5	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL DRIVEN TOOL COROMANT-CAPTO RPM=10,000



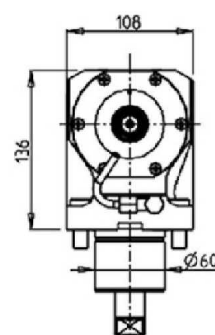
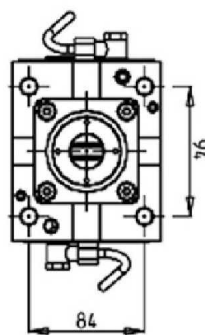
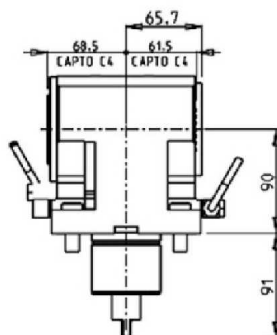
PartNumber	Description	Capto Size	Reversible	I	RPM	Cool Thru	Ext Cool	L2
MNL0800140	Axial C4 Capto RPM=10000	C4	X	1:1	10000		X	63
MNL0800240	Axial C4 Capto RPM=10000 Cool Thru*	C4	X	1:1	10000	X	X	75.5
MNL0800150	Axial C5 Capto RPM=10000	C5	X	1:1	10000		X	63
MNL0800250	Axial C5 Capto RPM=10000 Cool Thru*	C5	X	1:1	10000	X	X	75.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NL CAPTO DRIVEN

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL 10,000 RPM CAPTO

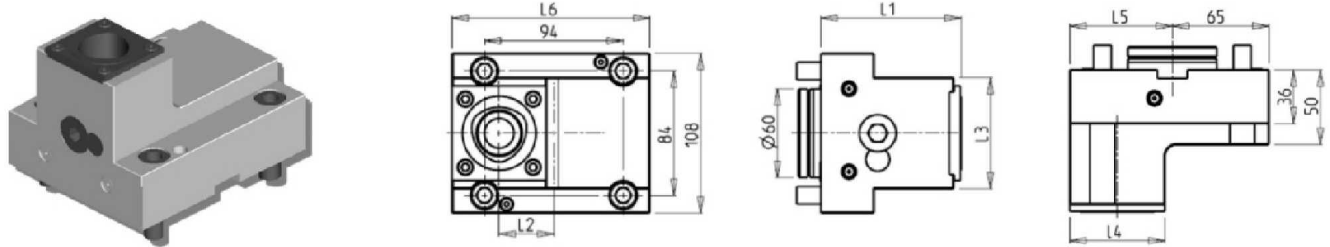


PartNumber	Description	Size	I	RPM	Reversible	Ext Cool
MNL1170240	Axial Opposite Face C4+C4 10,000 RPM	C4+C4	1:1	10000	X	X

NL CAPTO STATIC

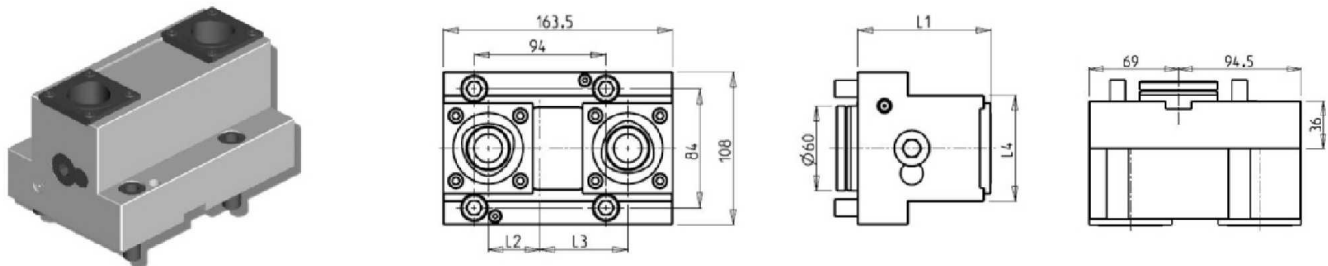
NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

SINGLE RADIAL STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru	L1	L2	L3	L4	L5	L6
MNL0464010	Single Radial Static Tool: Right C4 Capto	1	X	C4	X	90	45	63	48	69	134
MNL0464010LC	Single Radial Static Tool: Left C4 Capto	1	X	C4	X	90	45	63	48	69	134
MNL0465010	Single Radial Static Tool: Right C5 Capto	1	X	C5	X	95	37	75	64	69	134
MNL0465010LC	Single Radial Static Tool: Left C5 Capto	1	X	C5	X	95	37	75	64	69	134
MNL0465015	Single Radial Static Tool: Right C5 Capto	1	X	C5	X	95	62.5	75	64	94.5	159.5
MNL0465015LC	Single Radial Static Tool: Left C5 Capto	1	X	C5	X	95	62.5	75	64	94.5	159.5
MNL0466010	Single Radial Static Tool: Right C6 Capto	1	X	C6	X	108	55	108	94	97	162
MNL0466010LC	Single Radial Static Tool: Left C6 Capto	1	X	C6	X	108	55	108	94	97	162

DOUBLE RADIAL STATIC TOOL COROMANT-CAPTO

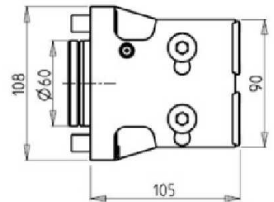
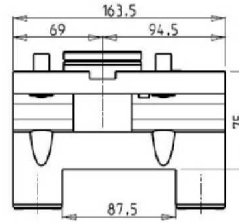
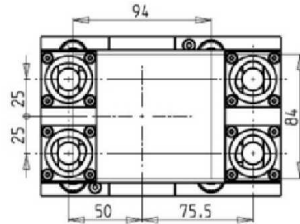
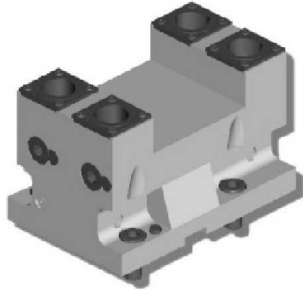


PartNumber	Description	# of Tools	Capto Size	Cool Thru	L1	L2	L3	L4
MNL0474020	Double Radial Static Tool: Right C4 Capto	2	C4	X	90	45	70.5	63
MNL0474020LC	Double Radial Static Tool: Left C4 Capto	2	C4	X	90	45	70.5	63
MNL0475020	Double Radial Static Tool: Right C5 Capto	2	C5	X	95	37	62.5	75
MNL0475020LC	Double Radial Static Tool: Left C5 Capto	2	C5	X	95	37	62.5	75

NL CAPTO STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

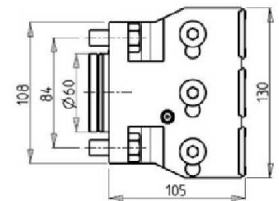
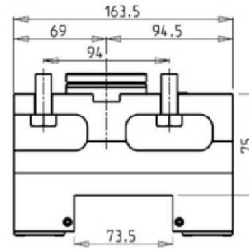
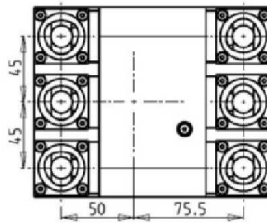
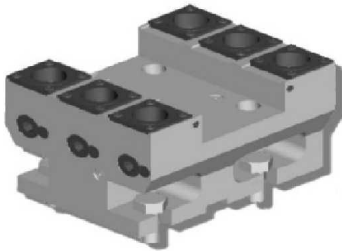
DOUBLE RADIAL 2+2 UPRIGHT POSITION STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Capto Size	Cool Thru
MNL0483240	Double Radial 2+2 Static Tool: Right C3 Capto	4	C3	X
MNL0483240LC	Double Radial 2+2 Static Tool: Left C3 Capto	4	C3	X

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

DOUBLE RADIAL 3+3 UPRIGHT POSITION STATIC TOOL COROMANT-CAPTO

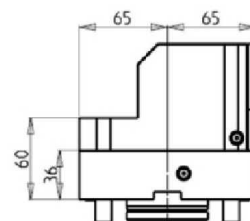
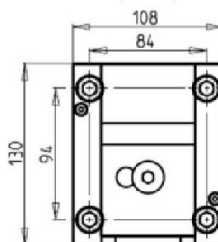
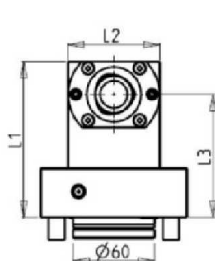
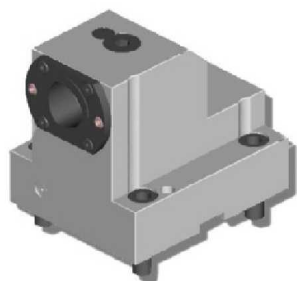


PartNumber	Description	# of Tools	Capto Size	Cool Thru
MNL0483260	Double Radial 3+3 Static Tool: Right C3 Capto	6	C3	X
MNL0483260LC	Double Radial 3+3 Static Tool: Left C3 Capto	6	C3	X

NL CAPTO STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

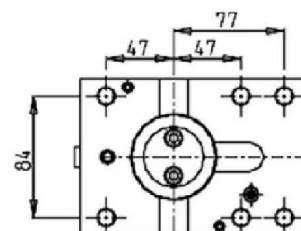
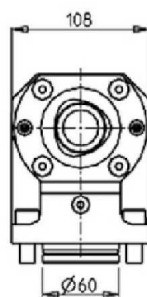
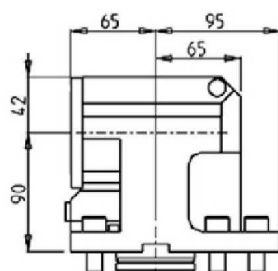
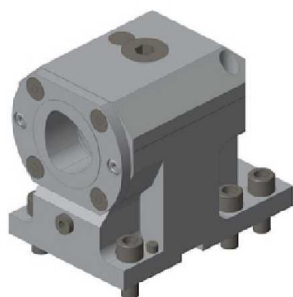
SINGLE AXIAL STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru	L1	L2	L3
MNL0494010	Single Axial Static Tool: Right C4 Capto	1	X	C4	X	114	68	90
MNL0494010LC	Single Axial Static Tool: Left C4 Capto	1	X	C4	X	114	68	90
MNL0495010	Single Axial Static Tool: Right C5 Capto	1	X	C5	X	122	83	90
MNL0495010LC	Single Axial Static Tool: Left C5 Capto	1	X	C5	X	122	83	90
MNL0495015	Single Axial Static Tool: Right C5 Capto	1	X	C5	X	152	83	120
MNL0495015LC	Single Axial Static Tool: Left C5 Capto	1	X	C5	X	152	83	120
MNL0496010	Single Axial Static Tool: Right C6 Capto	1	X	C6	X	132	108	90
MNL0496010LC	Single Axial Static Tool: Left C6 Capto	1	X	C6	X	132	108	90

NLX2500 - NLX3000 - NLX4000 - CTX2500 (BMT60)

AXIAL SINGLE STATIC TOOL CAPTO C6

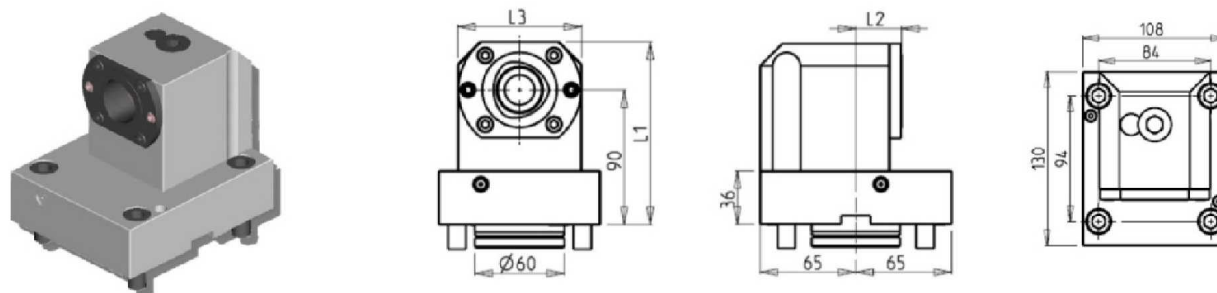


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Size
MNL1196010	Axial Single Static Tool Capto C6 Right Version	1	X	X	C6
MNL1196010LC	Axial Single Static Tool Capto C6 Left Version	1	X	X	C6

NL CAPTO STATIC

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - NTX2000/2500/3000 2ND GEN. 10 ST - CTX2500 (BMT60)

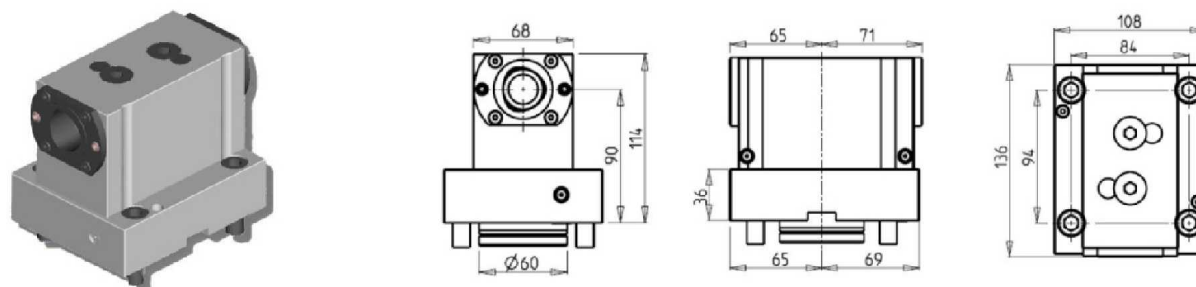
SINGLE AXIAL REAR-SET STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru	L1	L2	L3
MNL0514010	Single Axial Rear-Set Static: Right C4 Capto	1	X	C4	X	114	21	68
MNL0514010LC	Single Axial Rear-Set Static: Left C4 Capto	1	X	C4	X	114	21	68
MNL0515010	Single Axial Rear-Set Static: Right C5 Capto	1	X	C5	X	122	31	83
MNL0515010LC	Single Axial Rear-Set Static: Left C5 Capto	1	X	C5	X	122	31	83

NL1500/2000/2500/3000 12 ST - NLX1500/2000/2500/3000 12 ST - NLX4000 - NZL2000/2500 - NZX2500 (BMT60) - NT4000/5000 SERIES - CTX2500 (BMT60)

DOUBLE AXIAL OPPOSITE FACE STATIC TOOL COROMANT-CAPTO



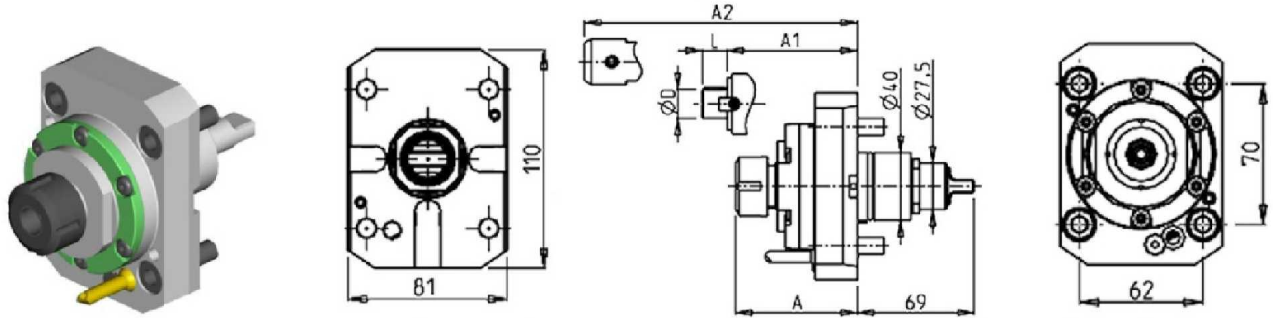
PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru
MNL0504020	Opp. Face Twin Axial Static Tool: Right C4 Capto	1+1	X	C4	X
MNL0504020LC	Opp. Face Twin Axial Static Tool: Left C4 Capto	1+1	X	C4	X

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL DRIVEN TOOL

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**



PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
MNZ0020120	Radial ER20	T32254	ER20	1:1	6000		X	72.16				
MNZ0020125	Radial ER25	T32274	ER25	1:1	6000		X	73.16				
MNZ0021225	Radial ER25 Cool Thru*		ER25	1:1	6000	X	X	83.66				
MNZ0020132	Radial ER32		ER32	1:1	6000		X	76.16				
MNZ0021232	Radial ER32 Cool Thru*		ER32	1:1	6000	X	X	86.66				
MNZ0020419	Radial Mill Head 3/4"x3/4"		3/4"X3/4"	1:1	6000		X		54.5		3/4"	3/4"
MNZ0020416	Radial Mill Head 16x17mm		16x17	1:1	6000		X		54.5		16	17
MNZ0020422	Radial Mill Head 22x19mm		22x19	1:1	6000		X		54.5		22	19
MNZ0020308	Radial Weldon 8		Weldon 8	1:1	6000		X			72.5		
MNZ0020310	Radial Weldon 10		Weldon 10	1:1	6000		X			74.5		
MNZ0020312	Radial Weldon 12		Weldon 12	1:1	6000		X			77		
MNZ0020316	Radial Weldon 16		Weldon 16	1:1	6000		X			79.5		

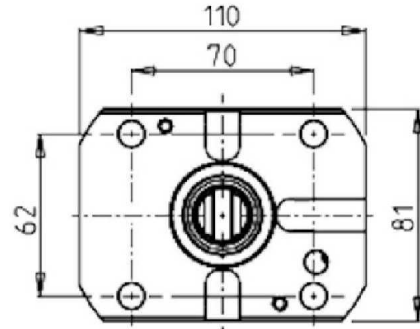
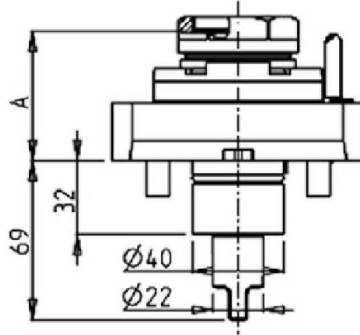
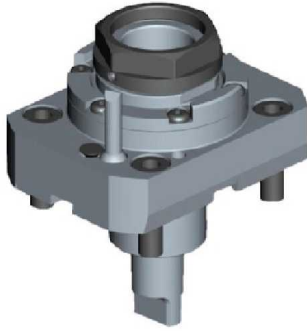
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

QUICK CHANGE RADIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units

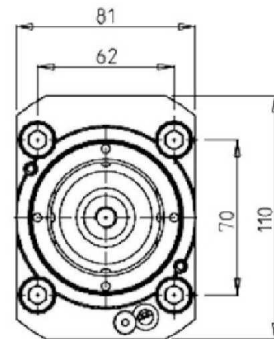
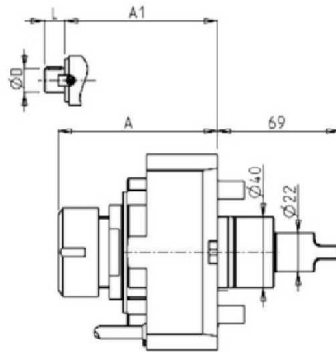


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNZ0410140	Radial MTSK-40 Driven Tool	MTSK-40	1:1	6000		X	56
MNZ0410240	Radial MTSK-40 Driven Tool Cool Thru*	MTSK-40	1:1	6000	X	X	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL REINFORCED DRIVEN TOOL

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.



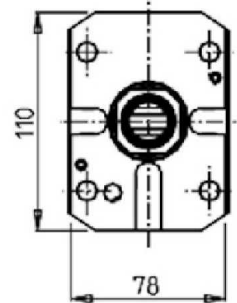
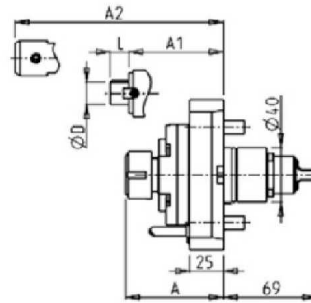
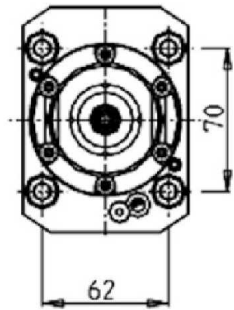
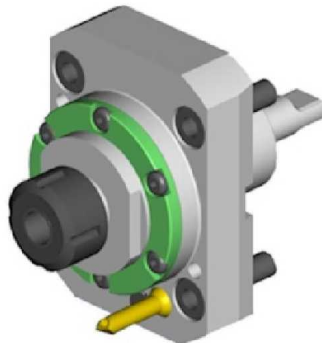
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	D	L
MNZ0360132	Radial Reinforced ER32	ER32	1:1	6000		X	89.66			
MNZ0730440	Radial Reinforced ERA40 Cool Thru*	ERA40	1:1	6000	X	X	89.7			
MNZ0360519	Radial Reinforced Mill Head 3/4"x3/4"	3/4"x3/4"	1:1	6000		X		68	3/4"	3/4"
MNZ0360516	Radial Reinforced Mill Head 16x17mm	16x17	1:1	6000		X		68	16	17
MNZ0360522	Radial Reinforced Mill Head 22x19mm	22x19	1:1	6000		X		68	22	19

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

RADIAL DRIVEN TOOL 12,000 RPM



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
MNZ0440116	Radial ER16 12,000 RPM	ER16	1:1	12000		X	70.76				
MNZ0440120	Radial ER20 12,000 RPM	ER20	1:1	12000		X	72.16				
MNZ0440125	Radial ER25 12,000 RPM	ER25	1:1	12000		X	73.16				
MNZ0440225	Radial ER25 12,000 RPM Cool Thru*	ER25	1:1	12000	X	X	83.66				
MNZ0440132	Radial ER32 12,000 RPM	ER32	1:1	12000		X	76.16				
MNZ0440232	Radial ER32 12,000 RPM Cool Thru*	ER32	1:1	12000	X	X	86.66				
MNZ0440416	Radial Mill Head 16x17mm 12,000 RPM	16x17	1:1	12000		X		54.5		16	17
MNZ0440422	Radial Mill Head 22x19mm 12,000 RPM	22x19	1:1	12000		X		54.5		22	19
MNZ0440419	Radial Mill Head 3/4"x3/4" 12,000 RPM	3/4"x3/4"	1:1	12000		X		54.5		3/4"	3/4"
MNZ0440308	Radial Weldon 8 12,000 RPM	Weldon 8	1:1	12000		X			72.5		
MNZ0440310	Radial Weldon 10 12,000 RPM	Weldon 10	1:1	12000		X			74.5		
MNZ0440312	Radial Weldon 12 12,000 RPM	Weldon 12	1:1	12000		X			77		
MNZ0440316	Radial Weldon 16 12,000 RPM	Weldon 16	1:1	12000		X			79.5		

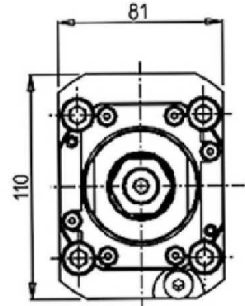
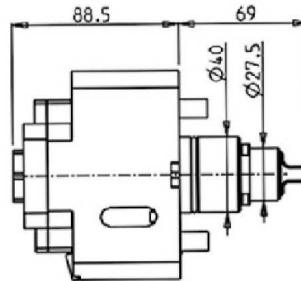
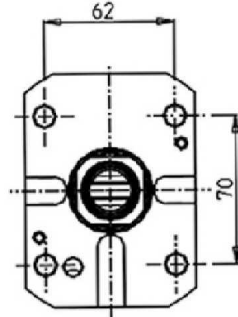
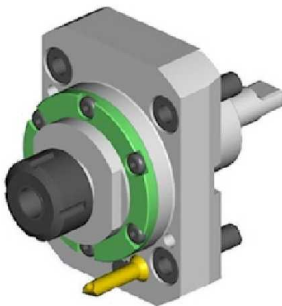
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

RADIAL DRIVEN TOOL 12,000 RPM COOL THRU*

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.

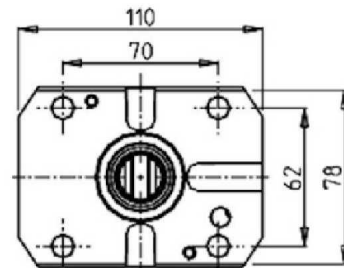
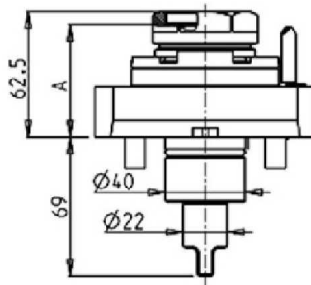
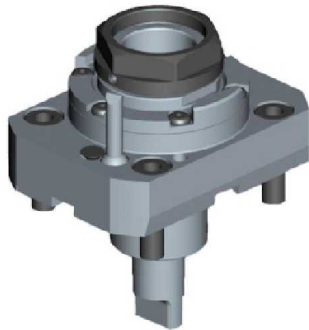


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0460125	Radial ERA25 Cool Thru*	ERA25	1:1	12000	X	X

*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE RADIAL MTSK DRIVEN TOOL 12,000 RPM

Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNZ0450140	Radial MTSK-40 12,000 RPM	MTSK-40	1:1	12000		X	56
MNZ0450240	Radial MTSK-40 12,000 RPM Cool Thru*	MTSK-40	1:1	12000	X	X	68

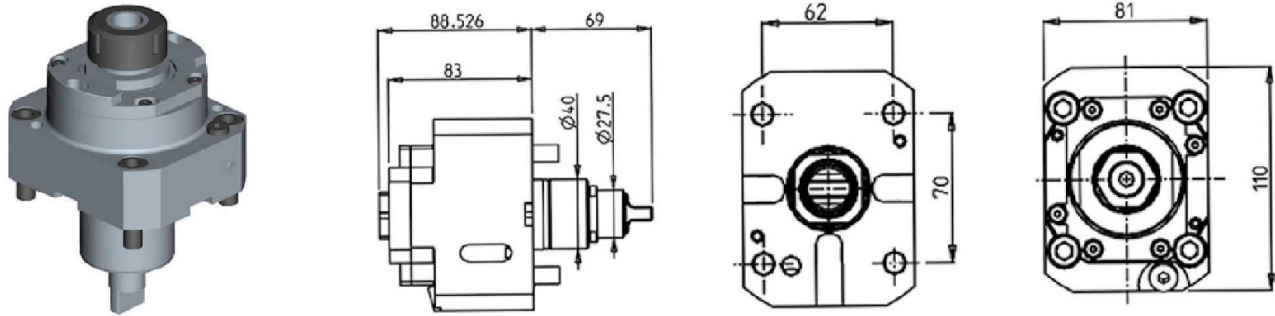
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL DRIVEN TOOL HIGH PRESSURE COOL THRU*

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0340125	Radial ERA25 High Pressure Cool Thru*	ERA25	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

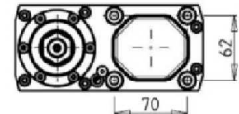
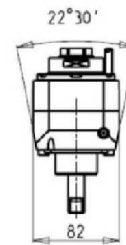
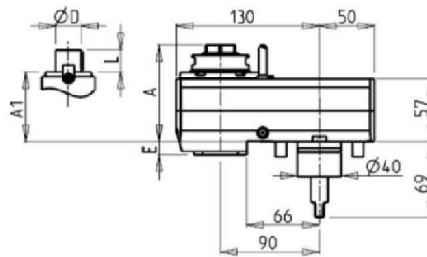
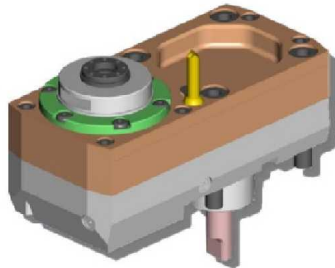
NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL RE-DIRECTED DRIVEN TOOL IN Z BY 90mm

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

Warning: This tool can not be mounted on NT3000 Series



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	D	L	E
MNZ0060220	Radial ERA20 Redirected	ERA20	X	1:1	6000		X	81.73				12
MNZ0060225	Radial ERA25 Redirected	ERA25	X	1:1	6000		X	87.53				12
MNZ0060425	Radial ERA25 Redirected Cool Thru*	ERA25	X	1:1	6000	X	X	87.53				22
MNZ0060232	Radial ERA32 Redirected	ERA32	X	1:1	6000		X	95.03				12
MNZ0060432	Radial ERA32 Redirected Cool Thru*	ERA32	X	1:1	6000	X	X	95.03				22
MNZ0060219	Radial Mill Head 3/4"x3/4" Redirected	3/4"x3/4"	X	1:1	6000		X		75.5	3/4"	3/4"	12
MNZ0060216	Radial Mill Head 16x17mm Redirected	16x17	X	1:1	6000		X		75.5	16	17	12
MNZ0060222	Radial Mill Head 22x19mm Redirected	22x19	X	1:1	6000		X		75.5	22	19	12

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

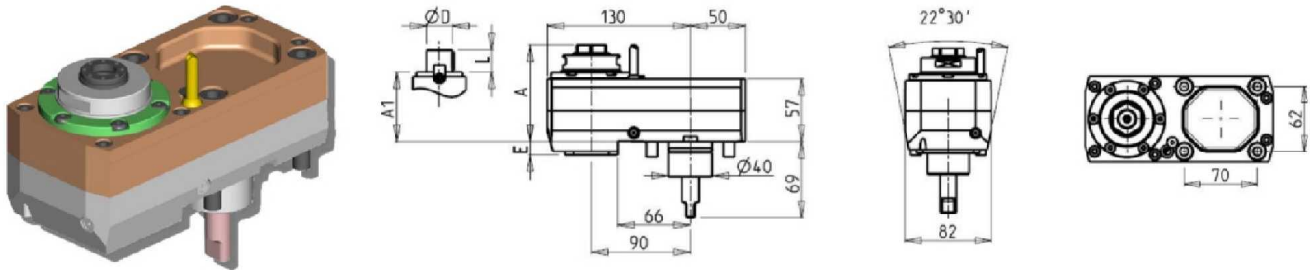
NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL GEARED-DOWN 2:1 RE-DIRECTED IN Z BY 90mm DRIVEN TOOL

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

Warning: This tool can not be mounted on NT3000 Series



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	D	L	E
MNZ0060125	Radial Geared-Down 2:1 ERA25 Redirected	ERA25	X	2:1	3000		X	87.53				12
MNZ0060525	Radial Geared-Down 2:1 ERA25 Cool Thru*	ERA25	X	2:1	3000	X	X	87.53				22
MNZ0060132	Radial Geared-Down 2:1 ERA32 Redirected	ERA32	X	2:1	3000		X	95.03				12
MNZ0060532	Radial Geared-Down 2:1 ERA32 Cool Thru*	ERA32	X	2:1	3000	X	X	95.03				22
MNZ0060119	Radial Geared-Down 2:1 Redirected Mill Head	3/4"x3/4"	X	2:1	3000		X	75.5	3/4"	3/4"		12
MNZ0060116	Radial Geared-Down 2:1 Redirected Mill Head	16x17	X	2:1	3000		X	75.5	16	17		12
MNZ0060122	Radial Geared-Down 2:1 Redirected Mill Head	22x19	X	2:1	3000		X	75.5	22	19		12

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

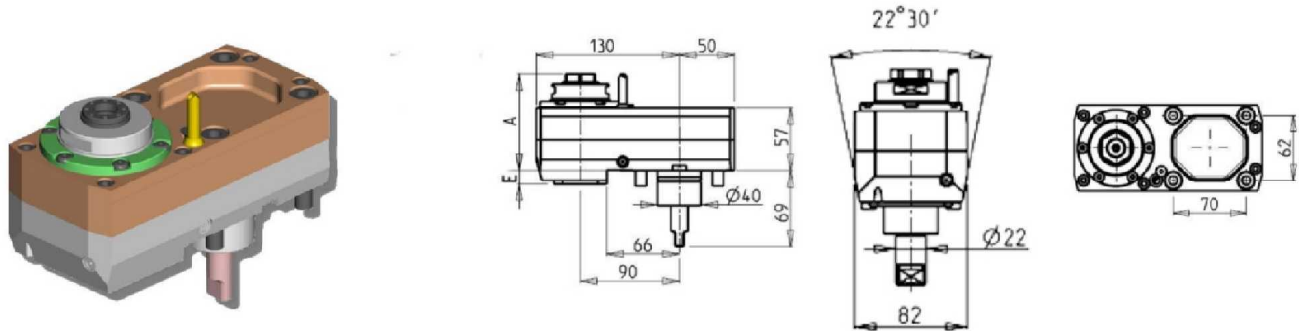
NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL GEARED-UP 1:2 RE-DIRECTED IN Z BY 90mm DRIVEN TOOL

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.

Warning: This tool can not be mounted on NT3000 Series



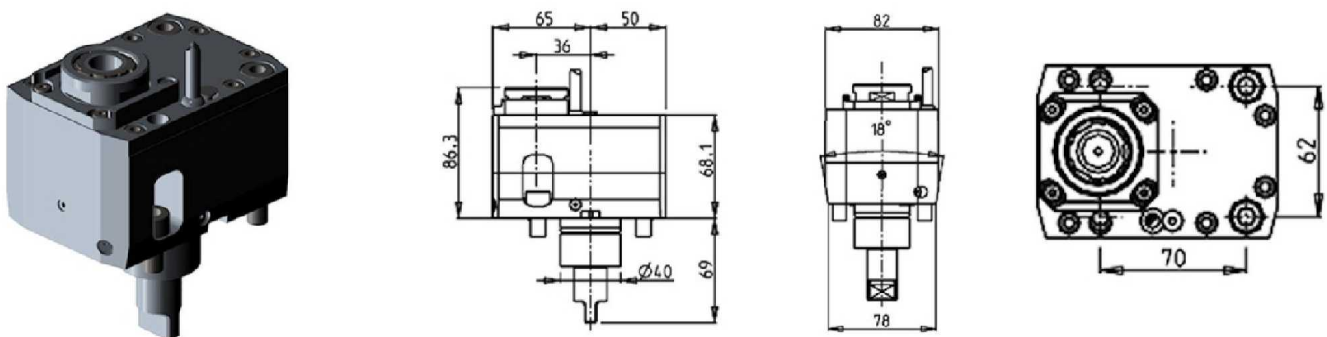
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	E
MNZ0060320	Radial Geared-Up 1:2 ERA20 Redirected	ERA20	X	1:2	12000		X	88.73	12
MNZ0060620	Radial Geared-Up 1:2 ERA20 Cool Thru*	ERA20	X	1:2	12000	X	X	88.73	22
MNZ0060325	Radial Geared-Up 1:2 ERA25 Redirected	ERA25	X	1:2	12000		X	94.53	12

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

RADIAL DRIVEN TOOL RE-DIRECTED IN Z BY 36MM 12,000 RPM

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine**.



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool
MNZ0570325	Radial Driven Tool Re-Directed in Z ERA25	ERA25	1:1	12000	X		X
MNZ0570425	Radial Driven Tool in Z ERA25 Cool Thru*	ERA25	1:1	12000	X	X	X

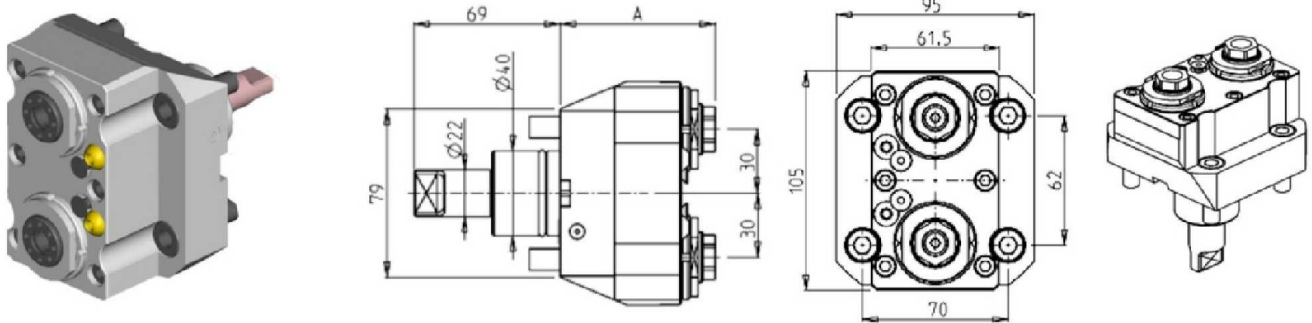
*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y AXIS

These tools can NOT be mounted side by side on the turret.



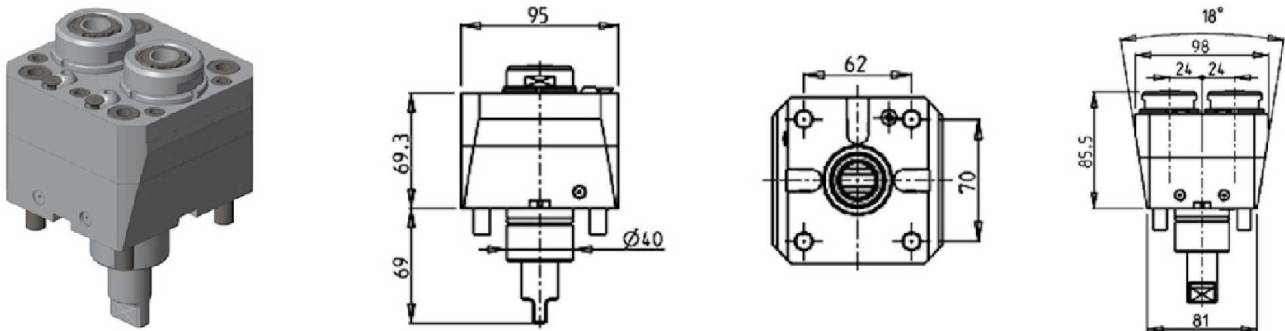
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNZ0030416	Radial Double Outlet ERA16	ERA16	1:1	6000		X	73.13
MNZ0030516	Radial Double Outlet ERA16 Cool Thru*	ERA16	1:1	6000	X	X	83.13
MNZ0030420	Radial Double Outlet ER20	ER20	1:1	6000		X	89.66
MNZ0680220	Radial Double Outlet ER20 Cool Thru*	ER20	1:1	6000	X	X	96.16

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

*Our Radial Coolant Thru holders **can only** be used on a **2012 or newer machine.**

These tools CAN be mounted side by side on the turret.



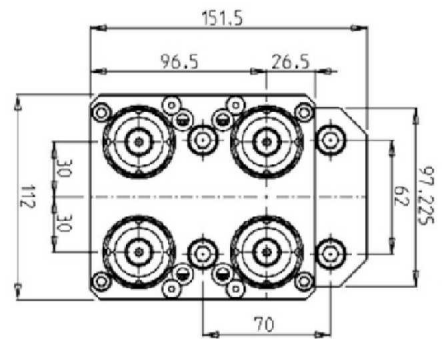
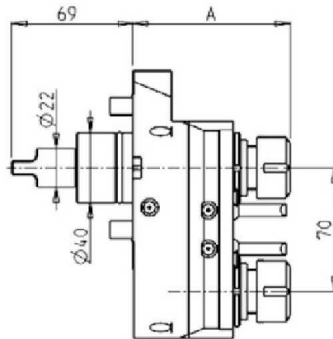
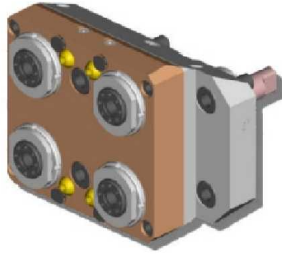
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0690320	Radial Single Side Twin ERA20	ERA20	1:1	6000		X
MNZ0690420	Radial Single Side Twin ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

RADIAL 4 HEAD DRIVEN TOOL

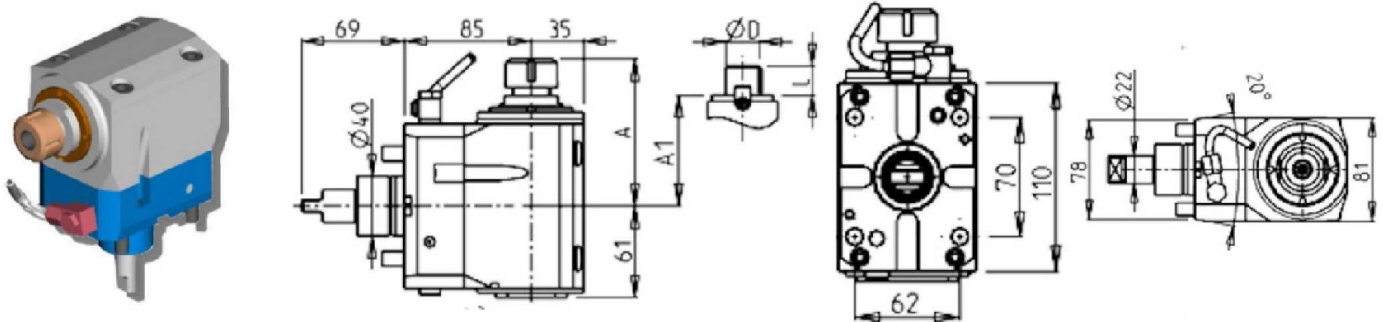


PartNumber	Description	# of Tools	Reversible	Spindle	I	RPM	Ext Cool	A
MNZ0030116	Radial 4-Outlet ER16	4	X	ER16	1:1	6000	X	67.26
MNZ0030120	Radial 4-Outlet ER20	4	X	ER20	1:1	6000	X	89.66

Note : Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

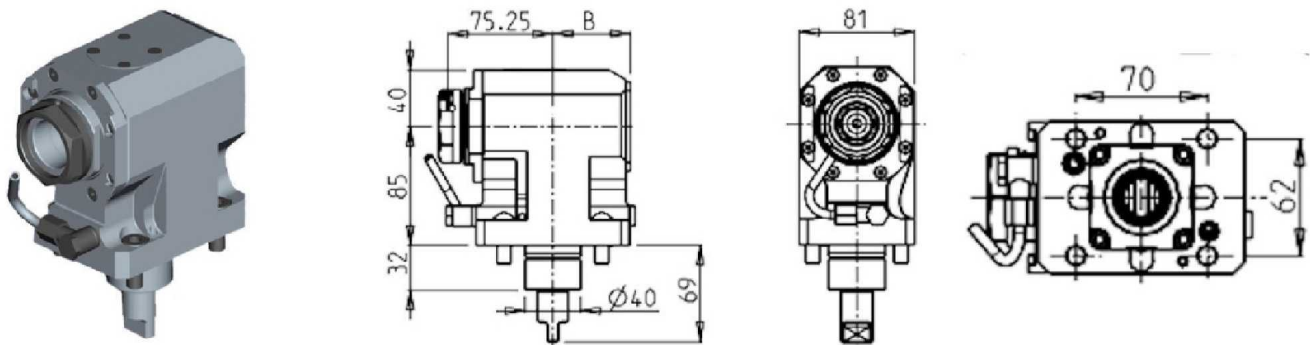
AXIAL DRIVEN TOOL H=85mm

PartNumber	Description	Mori Ref	Reversible	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
MNZ0010120	Axial ER20 Standard	T32255	X	ER20	1:1	6000		X	98.16		61		
MNZ0010125	Axial ER25 Standard	T32275	X	ER25	1:1	6000		X	99.16		61		
MNZ0010225	Axial ER25 Cool Thru*		X	ER25	1:1	6000	X	X	99.16		71		
MNZ0010132	Axial ER32 Standard		X	ER32	1:1	6000		X	102.16		61		
MNZ0010232	Axial ER32 Cool Thru*		X	ER32	1:1	6000	X	X	102.76		71		
MNZ0011919	Axial Mill Head 3/4"x3/4"		X	3/4"x3/4"	1:1	6000		X		77	61	3/4"	3/4"
MNZ0011617	Axial Mill Head 16x17mm		X	16x17	1:1	6000		X		76.5	61	16	17
MNZ0012219	Axial Mill Head 22x19mm		X	22x19	1:1	6000		X		78.5	61	22	19
MNZ0012721	Axial Mill Head 27x21mm		X	27x21	1:1	6000		X		79.5	61	27	21

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units



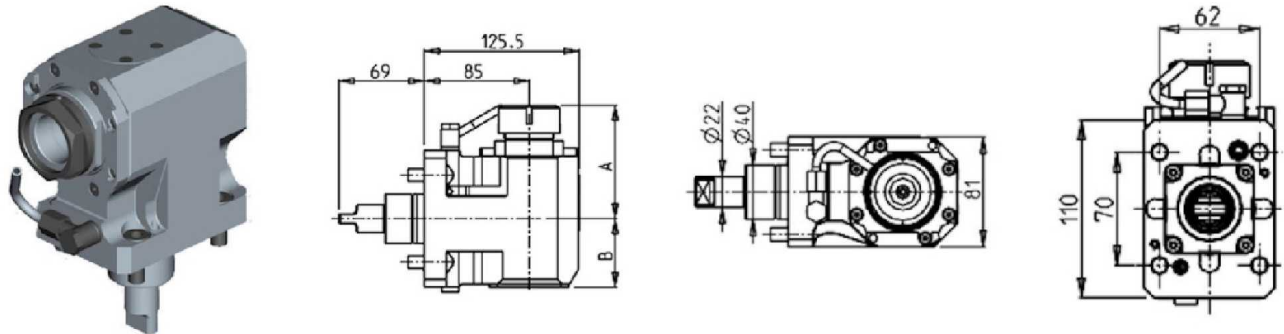
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNZ0400140	Axial MTSK-40 Driven	MTSK-40	X	1:1	6000		X	55.5
MNZ0400240	Axial MTSK-40 Driven Cool Thru*	MTSK-40	X	1:1	6000	X	X	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

AXIAL DRIVEN TOOL H=85 12,000 RPM

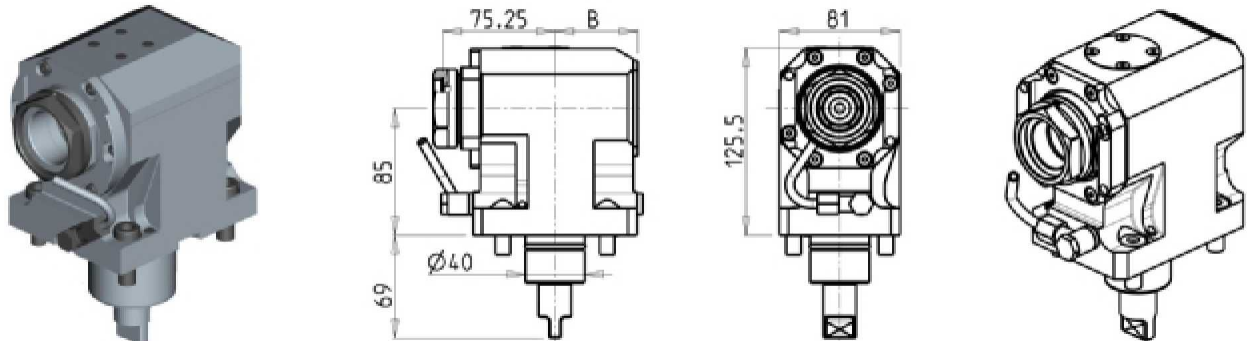


PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A	B
MNZ0470116	Axial ER16 12,000 RPM	ER16	1:1	12000	X		X	86	55.5
MNZ0470125	Axial ER25 12,000 RPM	ER25	1:1	12000	X		X	88.4	55.5
MNZ0470225	Axial ER25 12,000 RPM Cool Thru*	ER25	1:1	12000	X	X	X	88.4	68
MNZ0470132	Axial ER32 12,000 RPM	ER32	1:1	12000	X		X	91.4	55.5
MNZ0470232	Axial ER32 12,000 RPM Cool Thru*	ER32	1:1	12000	X	X	X	91.4	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK DRIVEN TOOL 12,000 RPM

Please see Accessories for MTSK Clamping Units



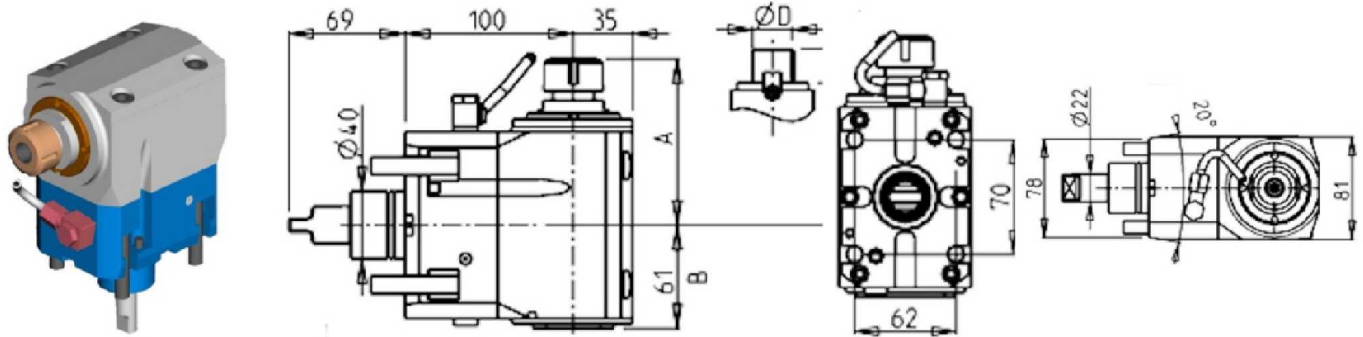
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNZ0480140	Axial MTSK-40 12,000 RPM	MTSK-40	1:1	12000	X		X	55.5
MNZ0480240	Axial MTSK-40 12,000 RPM Cool Thru*	MTSK-40	1:1	12000	X	X	X	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500

AXIAL DRIVEN TOOL H=100mm



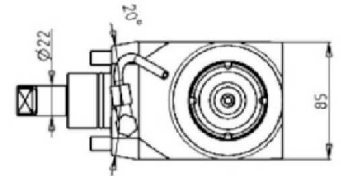
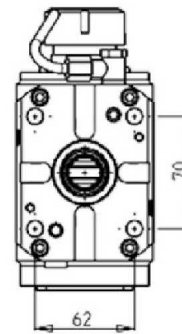
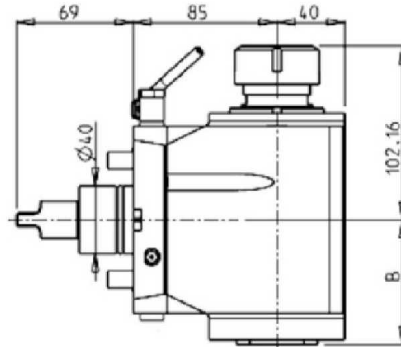
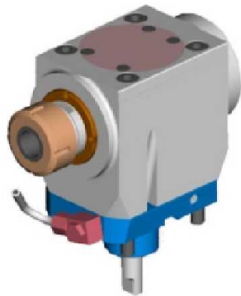
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
MNZ0210120	Axial ER20	ER20	X	1:1	6000		X	98.16		61		
MNZ0210125	Axial ER25	ER25	X	1:1	6000		X	99.16		61		
MNZ0210225	Axial ER25 Cool Thru*	ER25	X	1:1	6000	X	X	99.16		71		
MNZ0210132	Axial ER32	ER32	X	1:1	6000		X	102.16		61		
MNZ0210232	Axial ER32 Cool Thru*	ER32	X	1:1	6000	X	X	102.76		71		
MNZ0211919	Axial Mill Head 3/4"x3/4"	3/4"x3/4"	X	1:1	6000		X		77	61	3/4"	3/4"
MNZ0211617	Axial Mill Head 16x17mm	16X17	X	1:1	6000		X		76.5	61	16	17
MNZ0212219	Axial Mill Head 22x19mm	22X19	X	1:1	6000		X		78.5	61	22	19
MNZ0212721	Axial Mill Head 27x21mm	27X21	X	1:1	6000		X		79.5	61	27	21

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

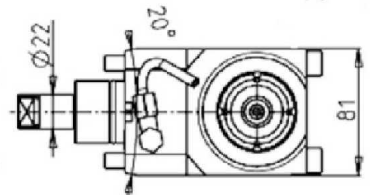
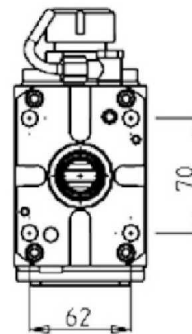
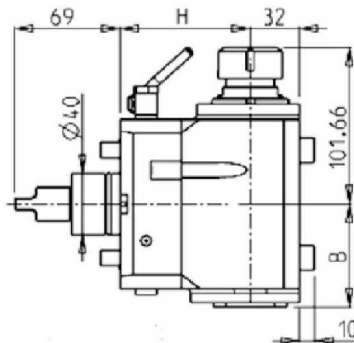
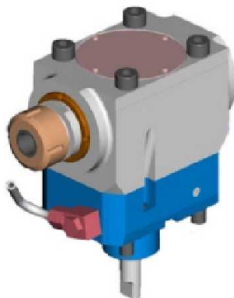
AXIAL GEARED-DOWN 2:1 DRIVEN TOOL



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNZ0070132	Axial Geared-Down 2:1 ER32	ER32	X	2:1	3000		X	73.5
MNZ0070232	Axial Geared-Down 2:1 ER32 Cool Thru*	ER32	X	2:1	3000	X	X	83.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL GEARED-UP 1:2 DRIVEN TOOL H=85mm



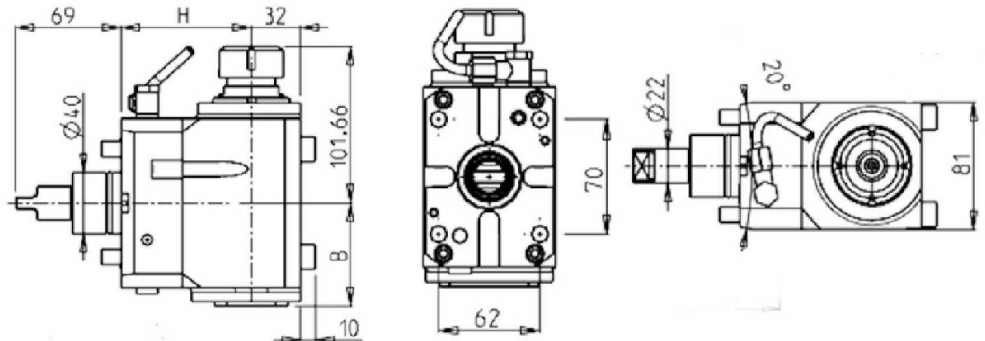
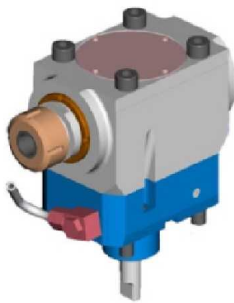
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNZ0080125	Axial Geared-Up 1:2 ER25	ER25	X	1:2	12000		X	67
MNZ0080225	Axial Geared-Up 1:2 ER25 Cool Thru*	ER25	X	1:2	12000	X	X	77

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500

AXIAL GEARED-UP 1:2 DRIVEN TOOL H=100mm

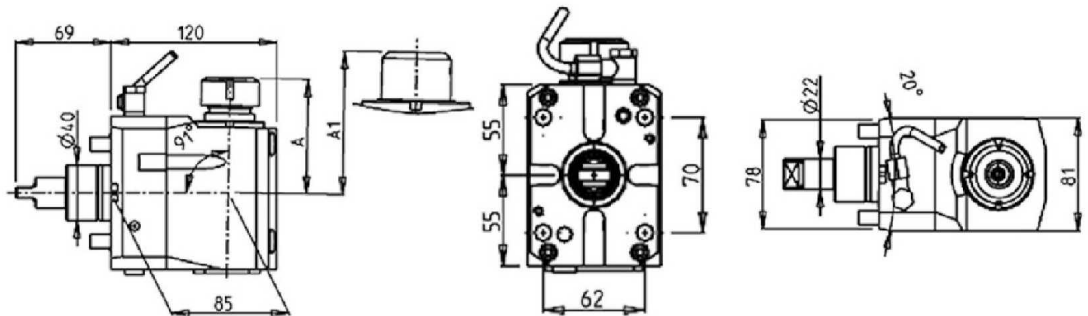


PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	B
MNZ0081125	Axial Geared-Up 1:2 ER25	ER25	X	1:2	12000		X	67
MNZ0081225	Axial Geared-Up 1:2 ER25 Cool Thru*	ER25	X	1:2	12000	X	X	77

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL DRIVEN TOOL FOR INTERNAL POLYGON-MAKING H=85mm

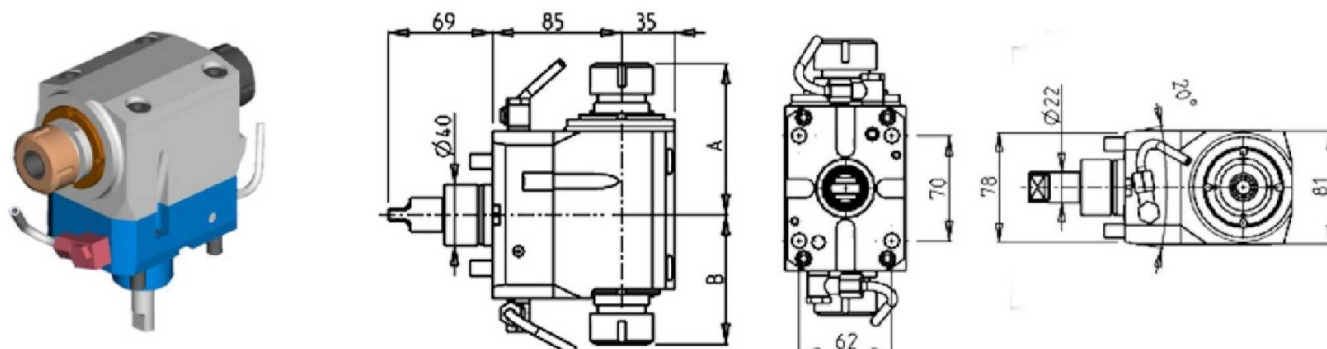


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1
MNZ0239125	Axial Driven Tool for Polygon Making ER25	ER25	1:1	6000	X	X	82.36	
MNZ0239108	Axial Driven Tool for Polygon Making Weldon 8	WELDON 8	1:1	6000	X	X		76.5
MNZ0239110	Axial Driven Tool for Polygon Making Weldon 10	WELDON 10	1:1	6000	X	X		76.5
MNZ0239112	Axial Driven Tool for Polygon Making Weldon 12	WELDON 12	1:1	6000	X	X		76.5
MNZ0239116	Axial Driven Tool for Polygon Making Weldon 16	WELDON 16	1:1	6000	X	X		73.5

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

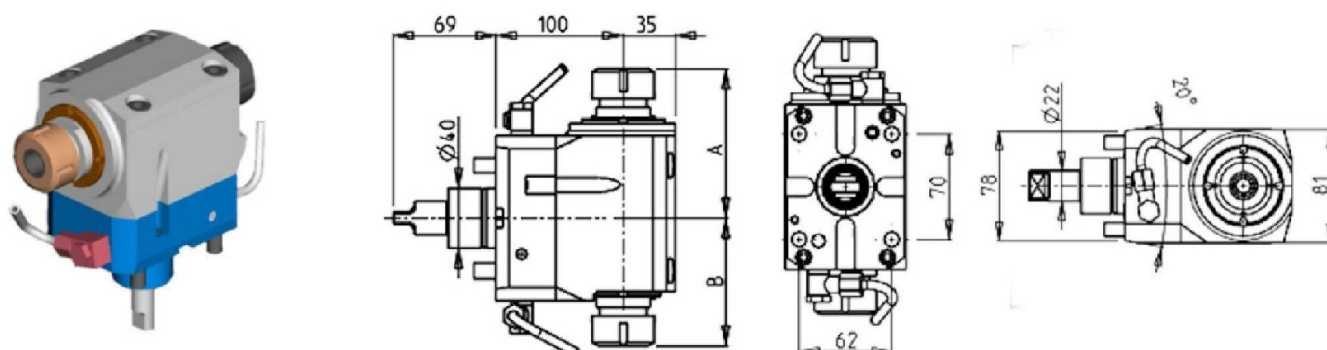
AXIAL OPPOSITE FACE TWIN DRIVEN TOOL H=85mm



PartNumber	Description	Mori Ref	Spindle	Reversible	I	RPM	Ext Cool	A	B
MNZ0010325	Axial Opposite Face ER25+ER25	T32276	ER25+ER25	X	1:1	6000	X	99.16	85.16
MNZ0010332	Axial Opposite Face ER32+ER32		ER32+ER32	X	1:1	6000	X	102.16	87.86

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - DURATURN 2050MC/2550MC - ALX1500/2000/2500

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL H=100mm

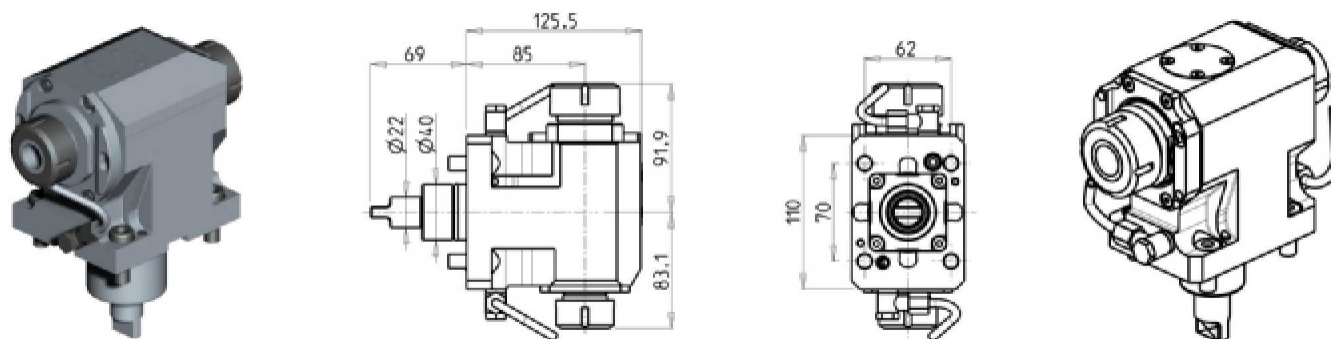


PartNumber	Description	Spindle	Reversible	I	RPM	Ext Cool	A	B
MNZ0210325	Axial Opposite Face ER25+ER25	ER25+ER25	X	1:1	6000	X	99.16	85.16
MNZ0210332	Axial Opposite Face ER32+ER32	ER32+ER32	X	1:1	6000	X	102.16	87.86

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - ALX1500/2000/2500

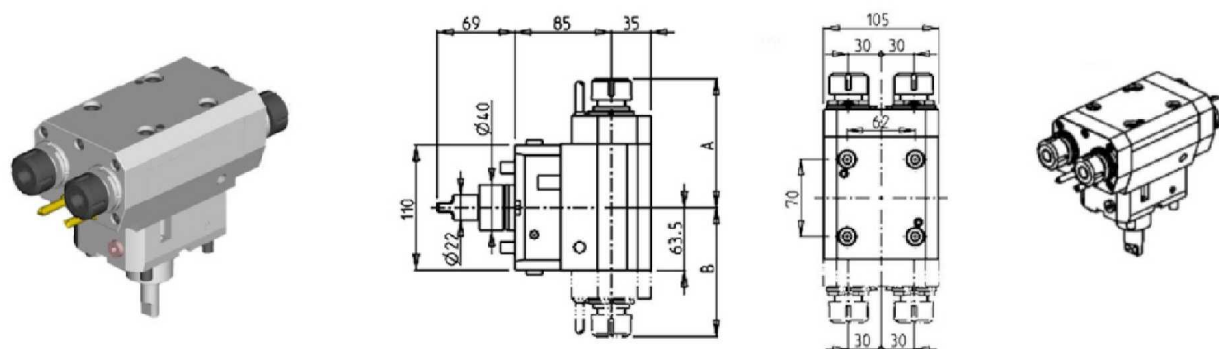
AXIAL OPPOSITE FACE TWIN DRIVEN TOOL 12,000 RPM



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNZ0493225	Axial Double Outlet ER32+ER25 12,000 RPM	ER32+ER25	1:1	12000	X	X

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

AXIAL MULTIPLE 2/4 OUTLET DRIVEN TOOL IN Y H=85mm

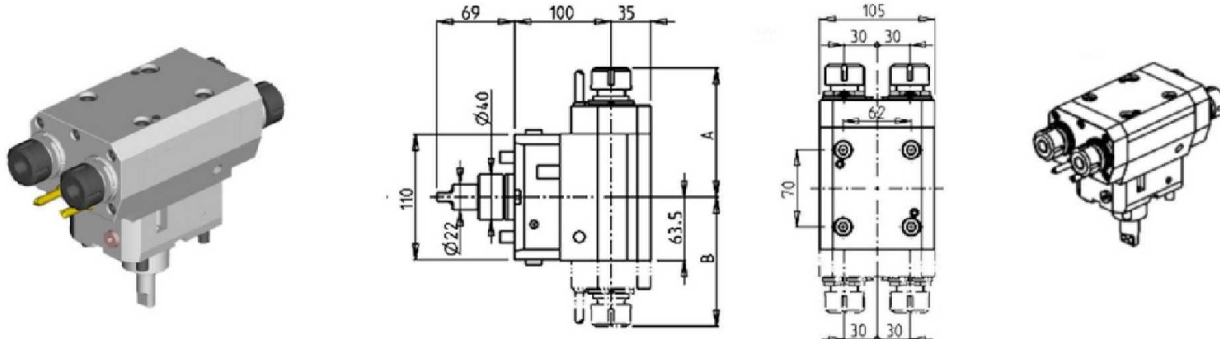


PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B
MNZ0040316	Axial 2/4 Outlet in Y ERA16	ERA16	1:1	6000	2	X	X	96.63	
MNZ0040320	Axial 2/4 Outlet in Y ER20	ER20	1:1	6000	2	X	X	113.16	
MNZ0040416	Axial 2/4 Outlet in Y ERA16+ERA16	ERA16+ERA16	1:1	6000	2+2	X	X	96.63	96.63
MNZ0040420	Axial 2/4 Outlet in Y ER20+ER20	ER20+ER20	1:1	6000	2+2	X	X	113.16	113.16

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - DURATURN 2050MC/2550MC - ALX1500/2000/2500

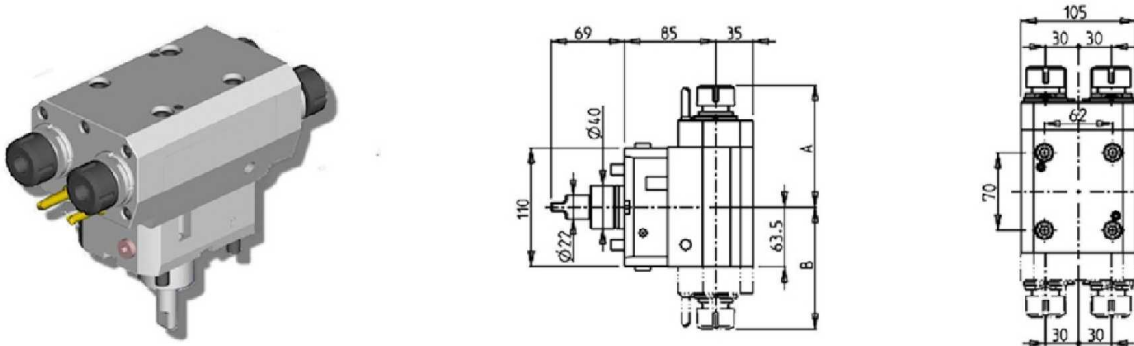
AXIAL MULTIPLE 2/4 OUTLET DRIVEN TOOL IN Y H=100mm



PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B
MNZ0041316	Axial 2/4 Outlet in Y ERA16	ERA16	1:1	6000	2	X	X	96.63	
MNZ0041320	Axial 2/4 Outlet in Y ER20	ER20	1:1	6000	2	X	X	113.16	
MNZ0041416	Axial 2/4 Outlet in Y ERA16+ERA16	ERA16+ERA16	1:1	6000	2+2	X	X	96.63	96.63
MNZ0041420	Axial 2/4 Outlet in Y ER20+ER20	ER20+ER20	1:1	6000	2+2	X	X	113.16	113.16

NZ1500/2000 - NZX1500/2000 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - ALX1500/2000/2500

AXIAL MULTIPLE 2/4 OUTLET DRIVEN TOOL IN Y 12,000 RPM H=85mm

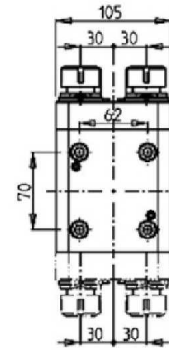
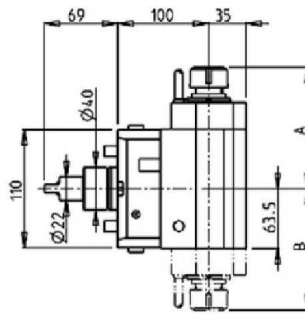


PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B
MNZ0610316	Axial 2/4 Outlet in Y ERA16 12,000 RPM	ERA16	1:1	12000	2	X	X	96.63	
MNZ0610320	Axial 2/4 Outlet in Y ER20 12,000 RPM	ER20	1:1	12000	2	X	X	113.16	
MNZ0610416	Axial 2/4 Outlet in Y ERA16+ERA16 12,000 RPM	ERA16+ERA16	1:1	12000	2+2	X	X	96.63	96.63
MNZ0610420	Axial 2/4 Outlet in Y ER20+ER20 12,000 RPM	ER20+ER20	1:1	12000	2+2	X	X	113.16	113.16

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX1000/2000 - ALX1500/2000/2500

AXIAL MULTIPLE 2/4 OUTLET DRIVEN TOOL IN Y 12,000 RPM H=100mm



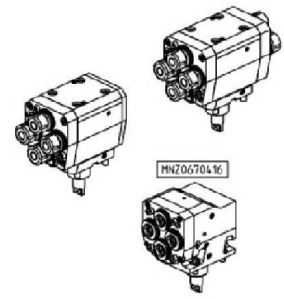
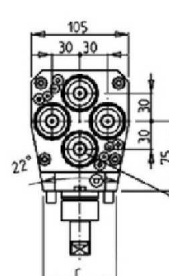
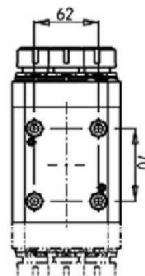
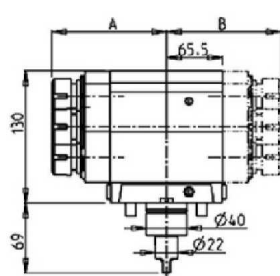
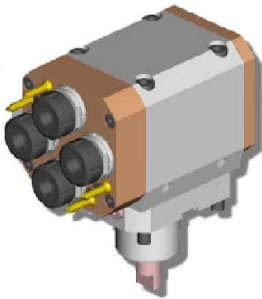
PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Ext Cool	A	B
MNZ0611316	Axial 2/4 Outlet in Y ERA16 12,000 RPM	ERA16	1:1	12000	2	X	X	96.63	
MNZ0611320	Axial 2/4 Outlet in Y ER20 12,000 RPM	ER20	1:1	12000	2	X	X	113.16	
MNZ0611416	Axial 2/4 Outlet in Y ERA16+ERA16 12,000 RPM	ERA16+ERA16	1:1	12000	2+2	X	X	96.63	96.63
MNZ0611420	Axial 2/4 Outlet in Y ER20+ER20 12,000 RPM	ER20+ER20	1:1	12000	2+2	X	X	113.16	113.16

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - DURATURN 2050MC/2550MC - ECOTURN 450

The bottom spindle on the Axial 4 Outlet and 4+4 Outlet Tool will NOT reach center line on the following machine models:

NZX1500/2000 and NT3000 Series

AXIAL MULTIPLE 4/8 OUTLET DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	# of Tools	Reversible	Cool Thru	Ext Cool	A	B	C
MNZ0040116	Axial 4-Outlet ERA16	ERA16	1:1	6000	4	X		X	96.63		79
MNZ0670416	Axial 4-Outlet ERA16 Cool Thru*	ERA16	1:1	6000	4	X	X	X	99.07		82
MNZ0040120	Axial 4-Outlet ER20	ER20	1:1	6000	4	X		X	113.16		79
MNZ0040216	Axial 4+4 Outlet ERA16+ERA16	ERA16+ERA16	1:1	6000	4+4	X		X	96.63	96.63	79
MNZ0040220	Axial 4+4 Outlet ER20+ER20	ER20+ER20	1:1	6000	4+4	X		X	113.16	113.16	79

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

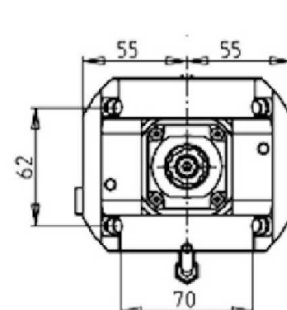
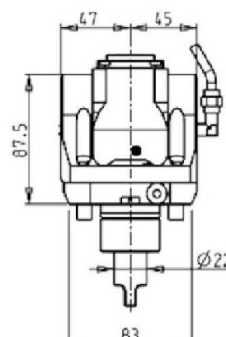
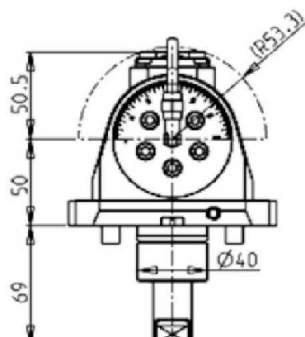
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NT1000/2000 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN.
12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

0-180 ADJUSTABLE ANGLE DRIVEN TOOL H=50mm



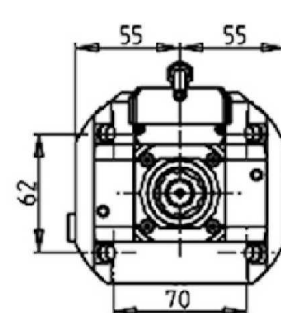
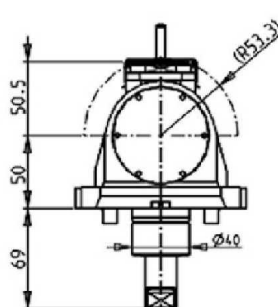
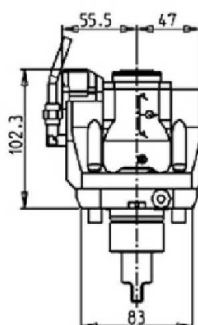
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0390120	Adj. Angle (0-180) ERA20	ERA20	1:1	6000		X
MNZ0390220	Adj. Angle (0-180) ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY H=50mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0395120	0-180 Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
MNZ0395220	0-180 Adj. Angle ERA20 with Digital Display Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

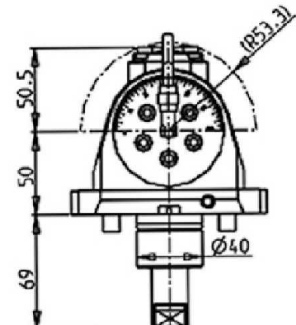
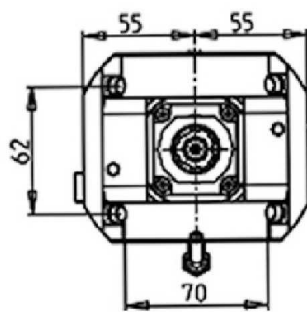
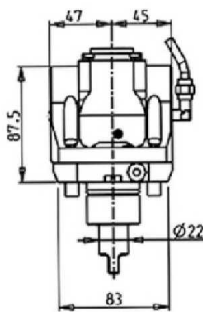
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

0-180 ADJUSTABLE ANGLE DRIVEN TOOL 12,000 RPM H=50mm



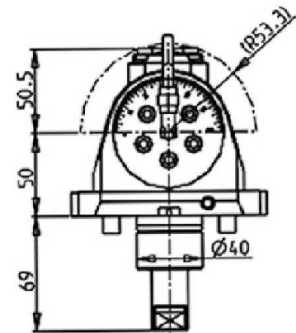
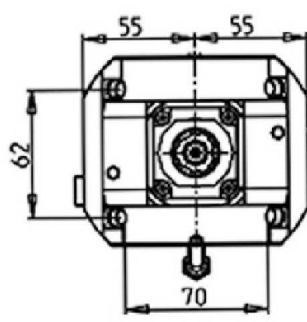
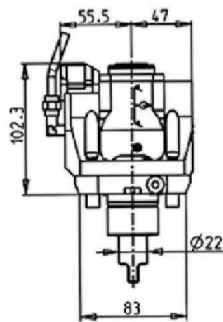
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0580120	0-180 Adj. Angle ERA20 12,000 RPM	ERA20	1:1	12000		X
MNZ0580220	0-180 Adj. Angle ERA20 12,000 RPM Cool Thru*	ERA20	1:1	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL 12,000 RPM WITH DIGITAL DISPLAY H=50mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0585120	0-180 Adj. Angle ERA20 12,000 RPM with Digital Display	ERA20	1:1	12000		X
MNZ0585220	0-180 Adj. Angle ERA20 12,000 RPM with Digital Display Cool Thru*	ERA20	1:1	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

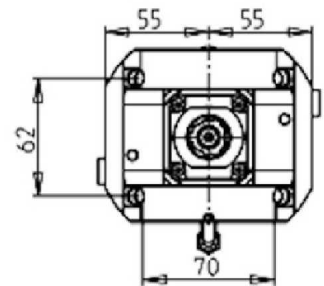
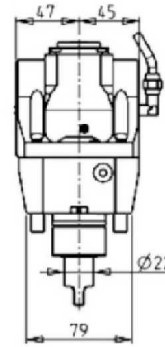
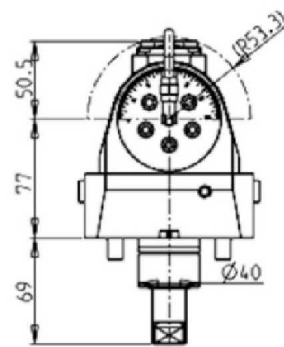
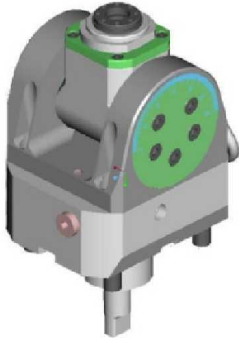
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

0-180 ADJUSTABLE ANGLE DRIVEN TOOL H=77mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0391120	Adj. Angle (0-180) ERA20	ERA20	1:1	6000		X
MNZ0391220	Adj. Angle (0-180) ERA20 Cool Thru*	ERA20	1:1	6000	X	X

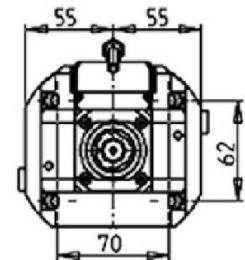
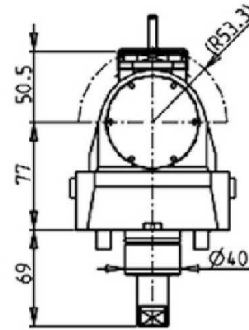
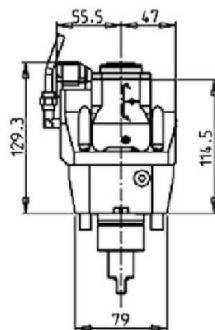
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY H=77mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0396120	0-180 Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
MNZ0396220	0-180 Adj. Angle ERA20 with Digital Display Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

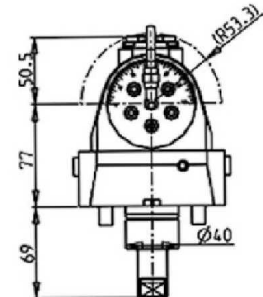
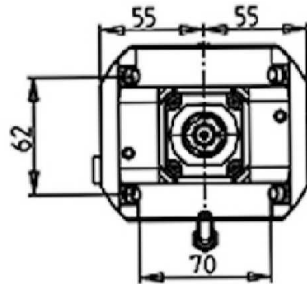
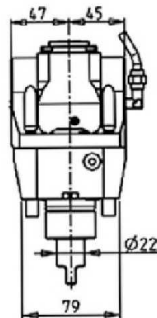
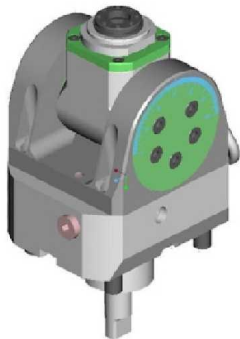
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

0-180 ADJUSTABLE ANGLE DRIVEN TOOL 12,000 RPM H=77mm



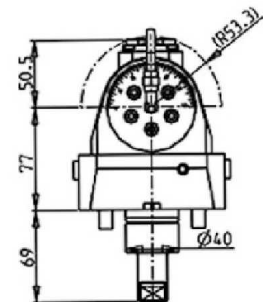
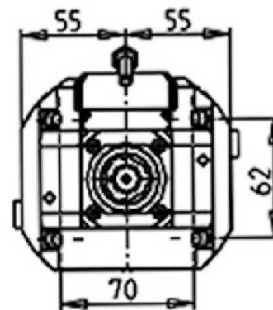
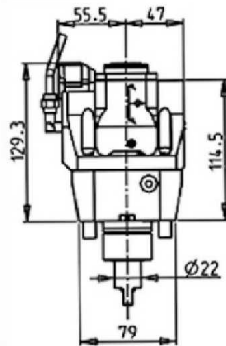
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0581120	0-180 Adj. Angle ERA20 12,000 RPM	ERA20	1:1	12000		X
MNZ0581220	0-180 Adj. Angle ERA20 12,000 RPM Cool Thru*	ERA20	1:1	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL 12,000 RPM WITH DIGITAL DISPLAY H=77mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0586120	0-180 Adj. Angle ERA20 12,000 RPM with Digital Display	ERA20	1:1	12000		X
MNZ0586220	0-180 Adj. Angle ERA20 12,000 RPM with Digital Display Cool Thru*	ERA20	1:1	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

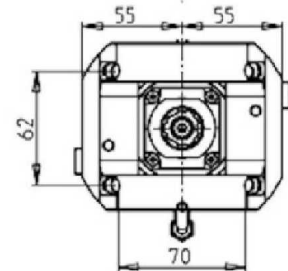
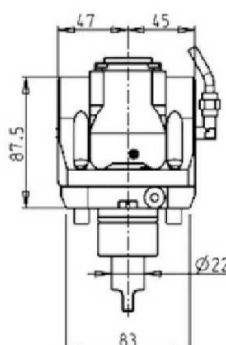
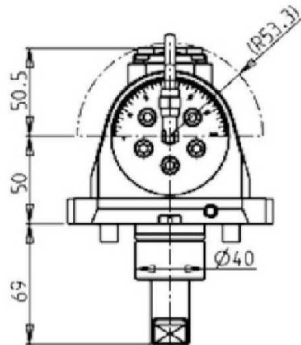
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NT1000/2000 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN.
12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 H=50mm



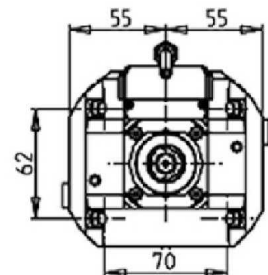
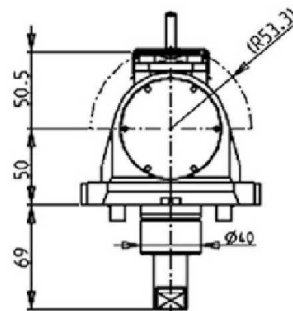
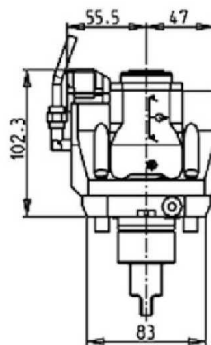
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0390316	Adj. Angle (0-180) Geared-Up ERA16	ERA16	1:2	12000		X
MNZ0390416	Adj. Angle (0-180) Geared-Up ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 WITH DIGITAL DISPLAY H=50mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0395316	0-180 Adj. Angle ERA16 Geared Up with Digital Display	ERA16	1:2	12000		X
MNZ0395416	0-180 Adj. Angle ERA16 Geared Up with Digital Display Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

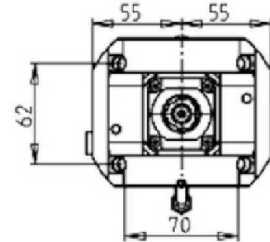
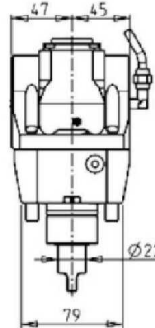
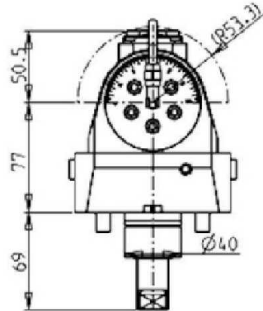
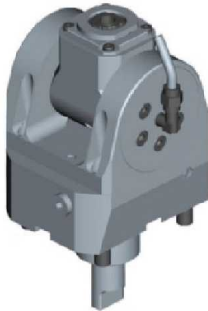
Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 H=77mm



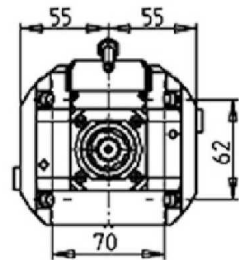
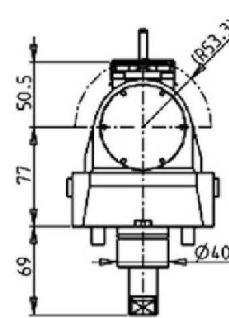
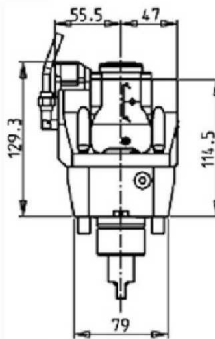
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0391316	Adj. Angle (0-180) Geared-Up ERA16	ERA16	1:2	12000		X
MNZ0391416	Adj. Angle (0-180) Geared-Up ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 WITH DIGITAL DISPLAY H=77mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNZ0396316	0-180 Adj. Angle Geared-Up ERA16 with Digital Display	ERA16	1:2	12000		X
MNZ0396416	0-180 Adj. Angle Geared-Up ERA16 with Digital Display Cool Thru*	ERA16	1:2	12000	X	X

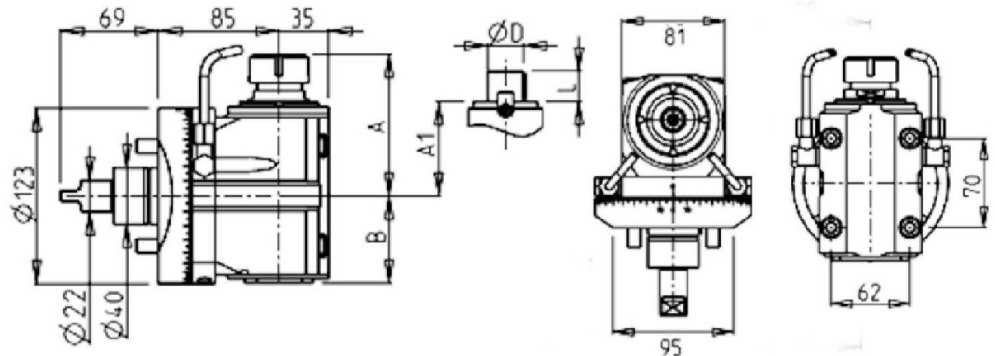
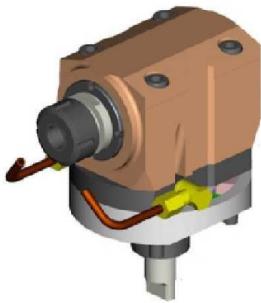
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

AXIAL ADJUSTABLE ANGLE $\pm 180^\circ$ DRIVEN TOOL

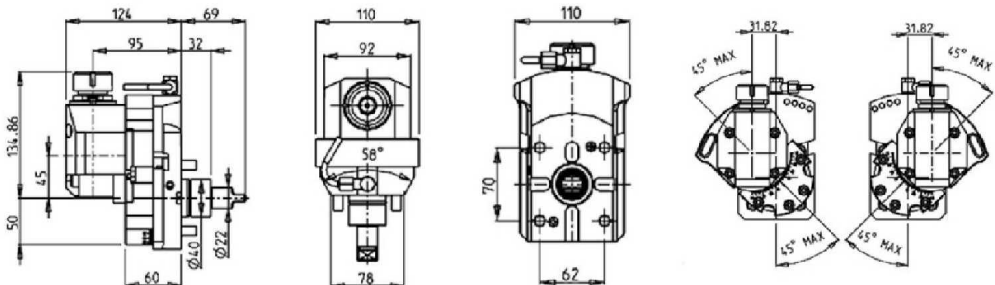
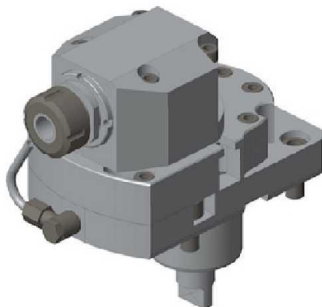
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A	A1	B	D	L
MNZ0350120	Axial Adj. Angle $\pm 180^\circ$ ER20	ER20	1:1	6000	X		X	98.16		61		
MNZ0350125	Axial Adj. Angle $\pm 180^\circ$ ER25	ER25	1:1	6000	X		X	99.16		61		
MNZ0350225	Axial Adj. Angle $\pm 180^\circ$ ER25 Cool Thru*	ER25	1:1	6000	X	X	X	99.16		71		
MNZ0350132	Axial Adj. Angle $\pm 180^\circ$ ER32	ER32	1:1	6000	X		X	102.16		61		
MNZ0350232	Axial Adj. Angle $\pm 180^\circ$ ER32 Cool Thru*	ER32	1:1	6000	X	X	X	102.76		71		
MNZ0351919	Axial Adj. Angle $\pm 180^\circ$ Mill Head $\varnothing 3/4" \times 3/4"$	3/4" x 3/4"	1:1	6000	X		X		77	61	3/4"	3/4"
MNZ0351617	Axial Adj. Angle $\pm 180^\circ$ Mill Head $\varnothing 16 \times 17 \text{mm}$	16x17	1:1	6000	X		X		76.5	61	16	17
MNZ0352219	Axial Adj. Angle $\pm 180^\circ$ Mill Head $\varnothing 22 \times 19 \text{mm}$	22x19	1:1	6000	X		X		78.5	61	22	19
MNZ0352721	Axial Adj. Angle $\pm 180^\circ$ Mill Head $\varnothing 27 \times 21 \text{mm}$	27x21	1:1	6000	X		X		79.5	61	27	21

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

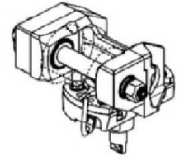
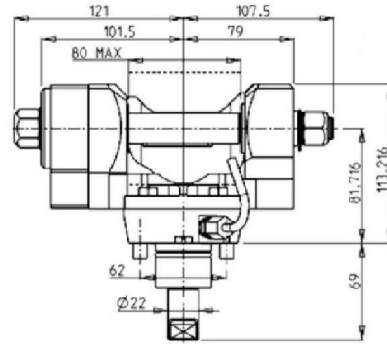
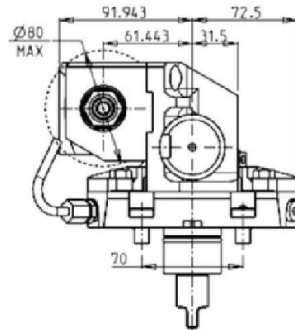
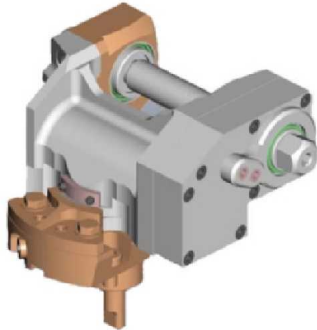
 $\pm 45^\circ$ Y AXIS ADJUSTABLE ANGLE DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNZ0860125	$\pm 45^\circ$ Y Axis Adj. Angle ER25	ER25	1:1	6000	X	X

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

DRIVEN GEAR HOBBER



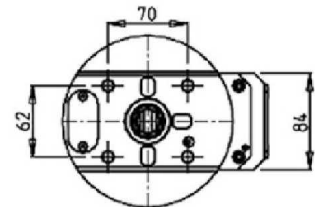
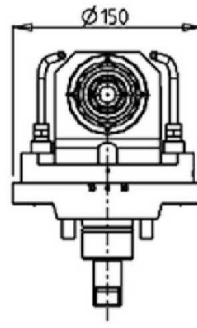
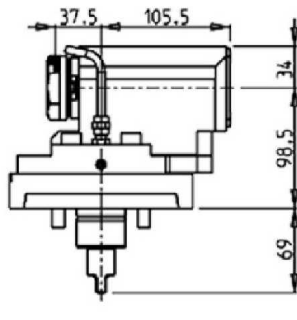
PartNumber	Description	I	Reversible	RPM	Ext Cool	D mm	D Inch
MNZ0201100	Gear Hobbing Tool 1:1	1:1	X	6000	X	16-22-27-32	3/4"-1"-1 1/4"
MNZ0202100	Gear Hobbing Tool 2:1 Geared Down	2:1	X	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

NZ1500/2000 - NZX1500/2000 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - ALX1500/2000/2500 - ECOTURN 450

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR POWER SKIVING H=98.5mm

Please see Accessories for MTSK Clamping Units



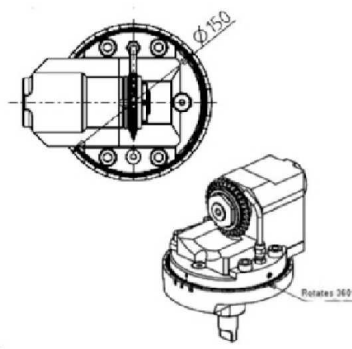
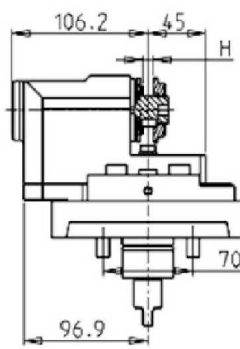
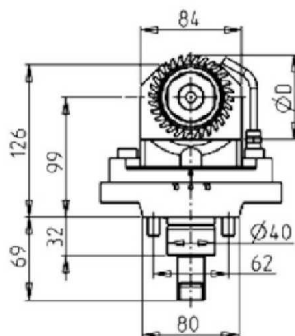
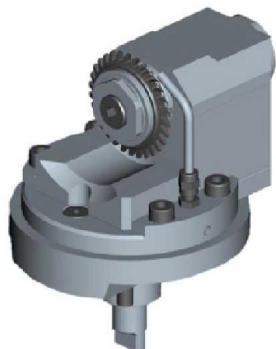
PartNumber	Description	Spindle	I	RPM	Ext Cool
MNZ0550100	Axial MTSK-40 Power Skiving	MTSK-40	1:1	6000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

DRIVEN TOOL FOR WORM SCREWS



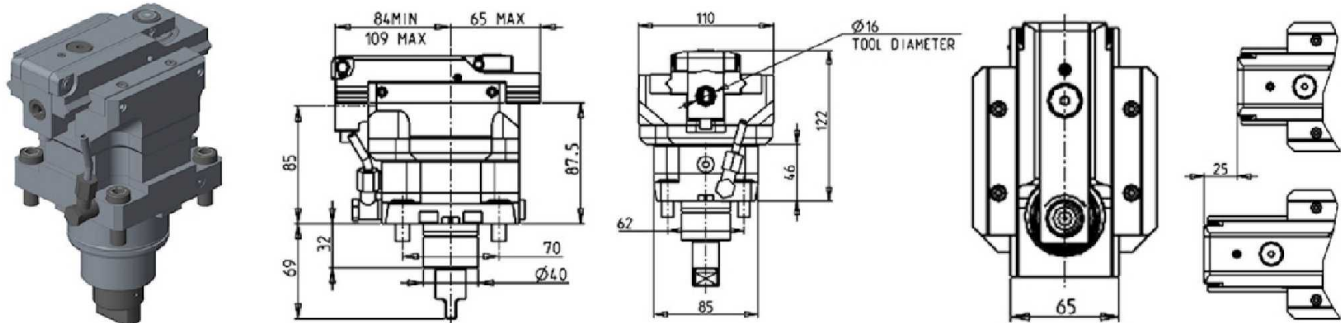
PartNumber	Description	Spindle	I	RPM	Ext Cool	D	H
MNZ0438022	Driven Tool for Worm Screws D=22mm, L=12mm	22x12	1:1	6000	X	63-70-80	Max 12
MNZ0438125	Driven Tool for Worm Screws D=1", L=12mm	1"x12	1:1	6000	X	63-70-80	Max 12

Note : Wrenches are provided with the purchase of Specialty Toolholders

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

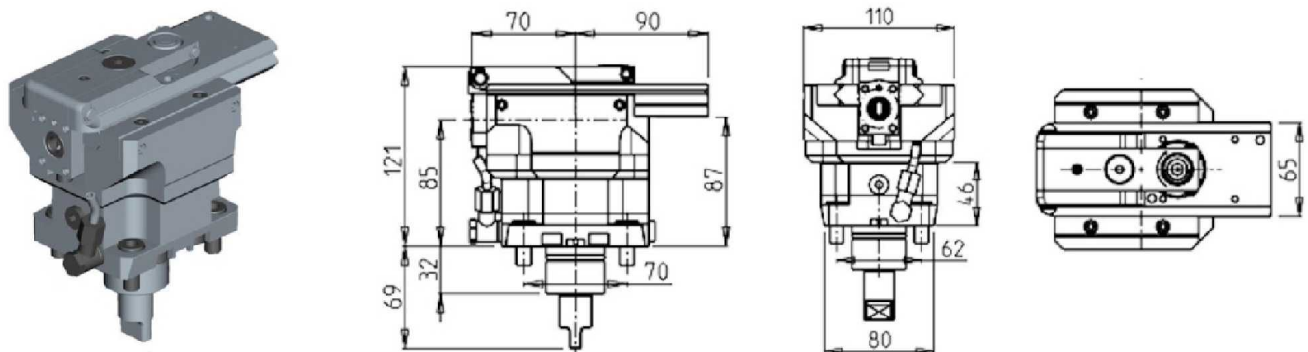
BROACHING/SLOTING DRIVEN TOOL 25mm STROKE H=85mm



PartNumber	Description	Reversible	I	RPM	Ext Cool
MNZ0420200	Broaching / Slotting Tool 25mm Stroke	X	4:1	2400	X

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NTX500 - NLX1500/2000/2500 20 ST - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

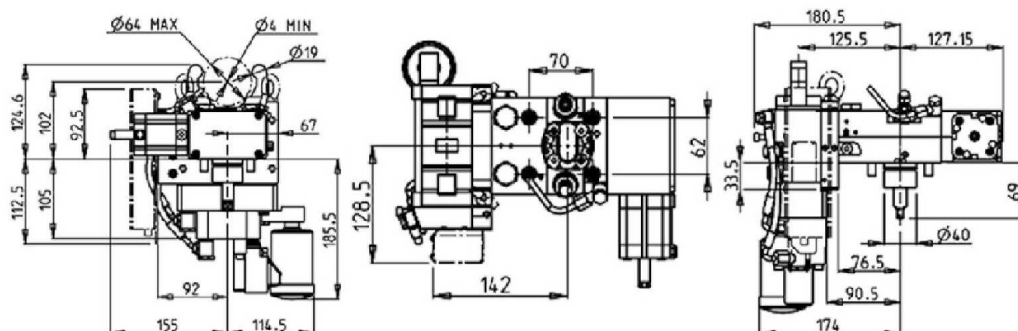
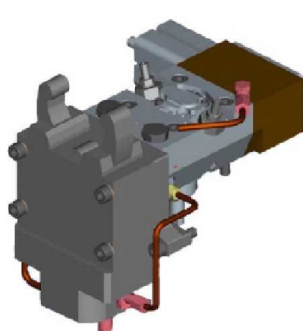
BROACHING/SLOTING DRIVEN TOOL 50mm STROKE H=85mm



PartNumber	Description	Reversible	I	RPM	Ext Cool
MNZ0420100	Broaching / Slotting Tool 50mm Stroke	X	4:1	2000	X

NZ DRIVEN

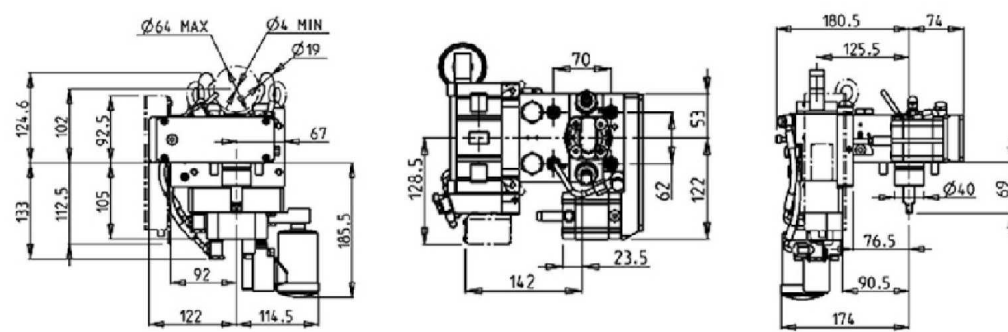
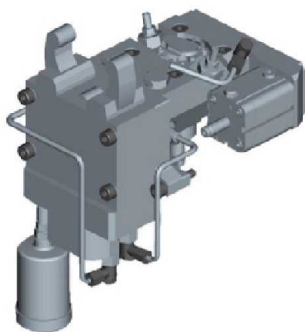
NZ1500/2000 - NZX1500/2000

DRIVEN STEADY REST

PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNZ0310100	Driven Steady Rest- Size 1	SLU-1	4mm/64mm	1:1	6000	X	NO
MNZ0310100US	Driven Steady Rest- Size 1 with Electronics	SLU-1	4mm/64mm	1:1	6000	X	YES

* Safe Check is a wireless system that sends a signal to the control
To tell the machine if the Steady Rest is in a safe position to index the Turret.

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NT1000/2000 - NTX1000/2000

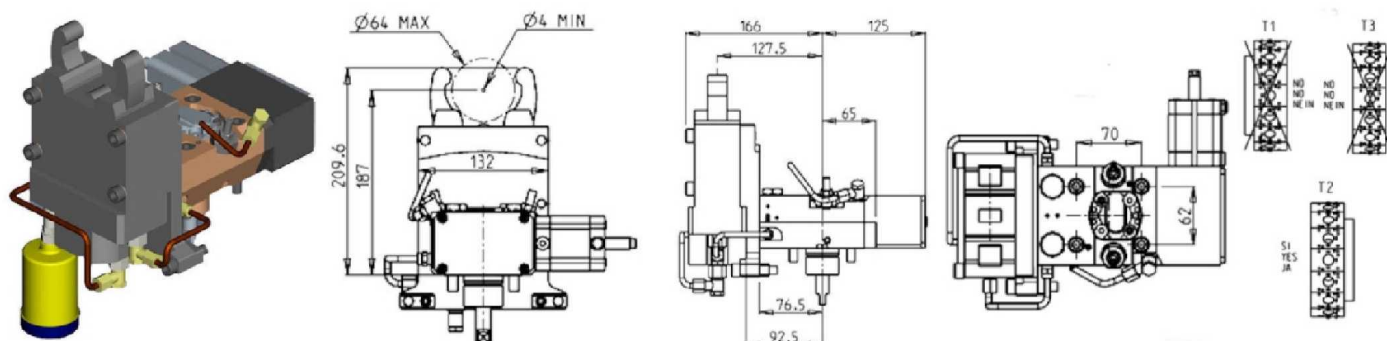
COMPACT STEADY REST

PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNZ0310150	Compact Steady Rest- Size 1	SLU-1	4mm/64mm	1:1	6000	X	NO
MNZ0310150US	Compact Steady Rest -Size 1 with Electronics	SLU-1	4mm/64mm	1:1	6000	X	YES

* Safe Check is a wireless system that sends a signal to the control
To tell the machine if the Steady Rest is in a safe position to index the Turret.

NZ DRIVEN

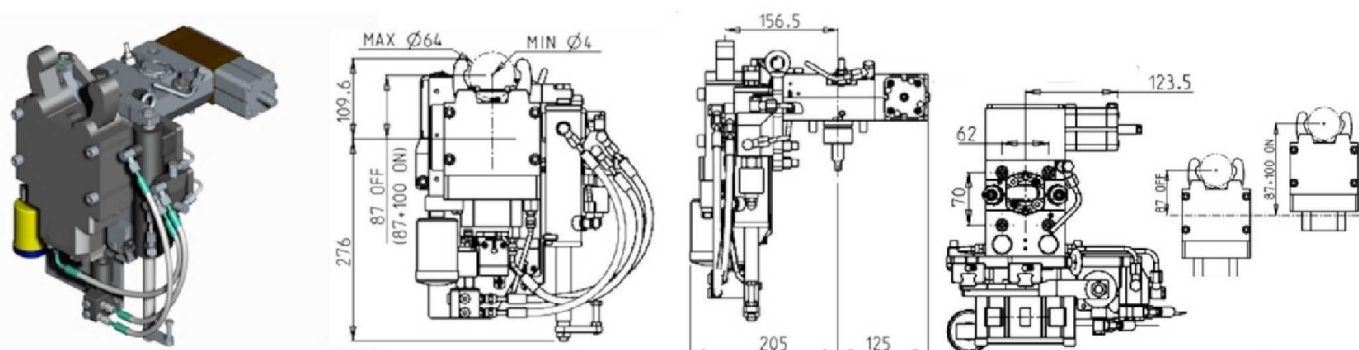
NZ1500/2000

EXTENDED STEADY REST

PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNZ0310200	Extended Steady Rest- Size 1	SLU-1	4mm/64mm	1:1	6000	X	NO
MNZ0310200US	Extended Steady Rest- Size 1 with Electronics	SLU-1	4mm/64mm	1:1	6000	X	YES

* Safe Check is a wireless system that sends a signal to the control
To tell the machine if the Steady Rest is in a safe position to index the Turret.

NZ1500/2000 - NZX1500/2000

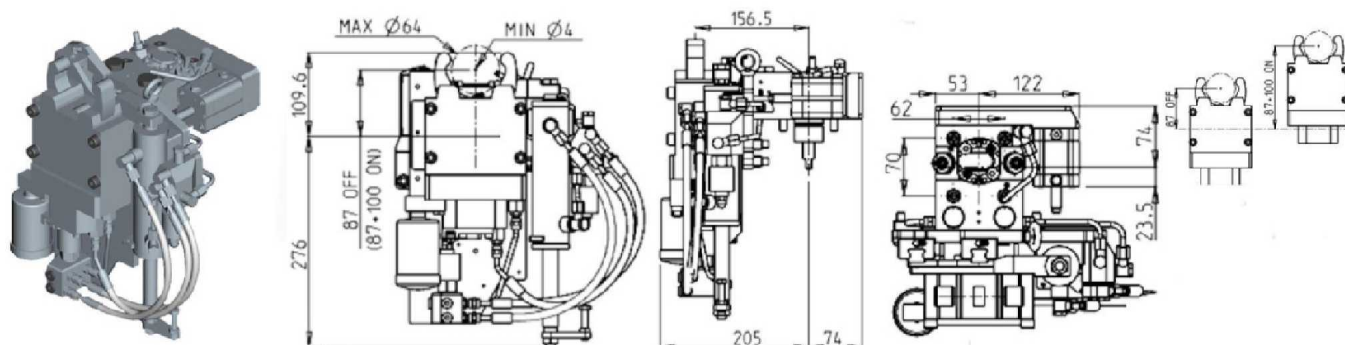
DRIVEN TOOLHOLDER FOR SLIDING STEADY REST

PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNZ0310300	Sliding Steady Rest- Size 1	SLU-1	4mm/64mm	1:1	6000	X	NO
MNZ0310300US	Sliding Steady Rest- Size 1 with Electronics	SLU-1	4mm/64mm	1:1	6000	X	YES

* Safe Check is a wireless system that sends a signal to the control
To tell the machine if the Steady Rest is in a safe position to index the Turret.

NZ DRIVEN

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NT1000/2000 - NTX1000/2000

DRIVEN TOOLHOLDER FOR SLIDING STEADY REST

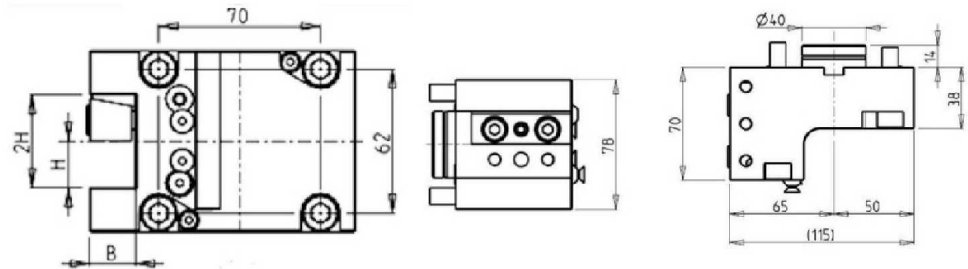
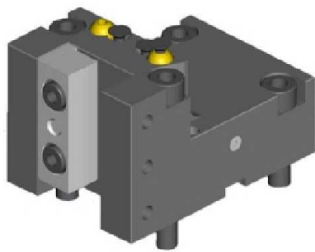
PartNumber	Description	Size	Capacity	I	RPM	Ext Cool	Safe Check
MNZ0310350	Sliding Steady Rest- Size 1	SLU-1	4mm/64mm	1:1	6000	X	NO
MNZ0310350US	Sliding Steady Rest- Size 1 with Electronics	SLU-1	4mm/64mm	1:1	6000	X	YES

* Safe Check is a wireless system that sends a signal to the control
To tell the machine if the Steady Rest is in a safe position to index the Turret.

NZ STATIC

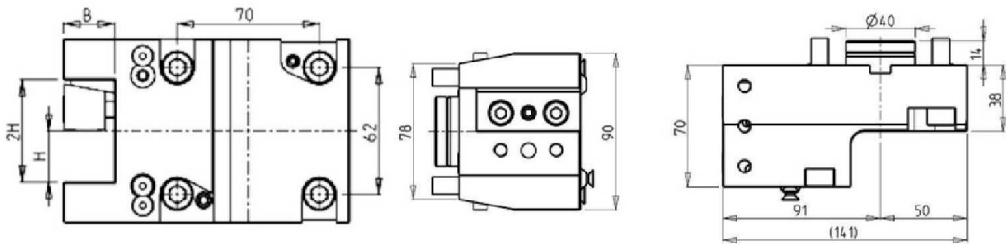
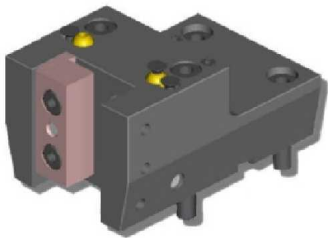
NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL SINGLE STATIC TOOL H=70mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	B	H
MNZ0091905	Radial Single Static Tool 3/4"	1	X		X	Inch	3/4"	3/4"
MNZ0092000	Radial Single Static Tool Ø20mm	1	X		X	mm	20	20
MNZ0092050	Radial Single Static Tool Ø20mm Cool Thru*	1	X	X	X	mm	20	20

RADIAL SINGLE STATIC TOOL H=70mm

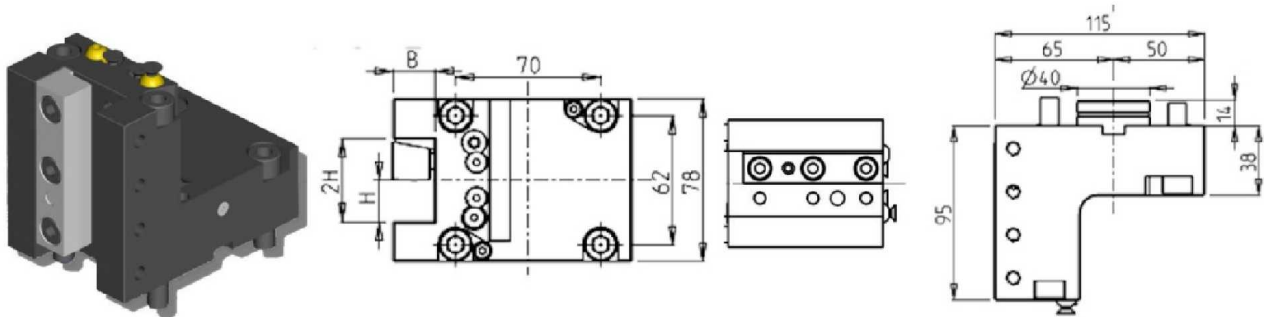


PartNumber	Description	# of Tools	Reversible	Dimension	B	H
MNZ0092540	Radial Single 1"	1	X	Inch	1"	1"
MNZ0092500	Radial Single 25mm	1	X	mm	25	25

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

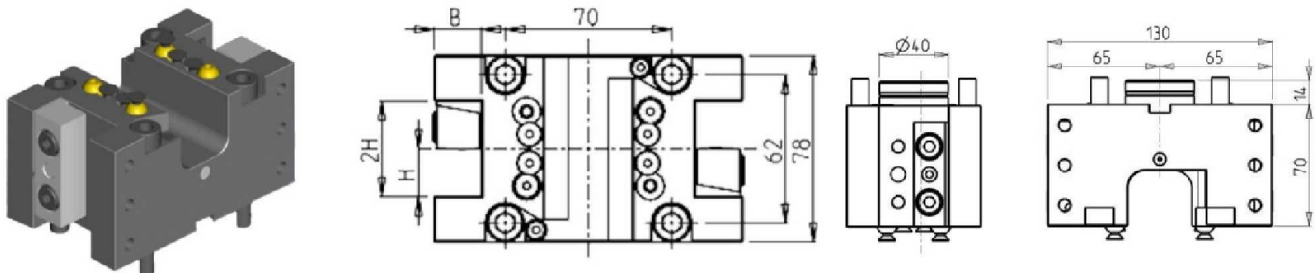
RADIAL SINGLE STATIC TOOL H=95mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	B	H
MNZ0091915	Radial Single Static Tool 3/4"	1	X		X	Inch	3/4"	3/4"
MNZ0092010	Radial Single Static Tool Ø20mm	1	X		X	mm	20	20
MNZ0092060	Radial Single Static Tool Ø20mm Cool Thru*	1	X	X	X	mm	20	20

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

RADIAL DOUBLE STATIC TOOL H=70mm

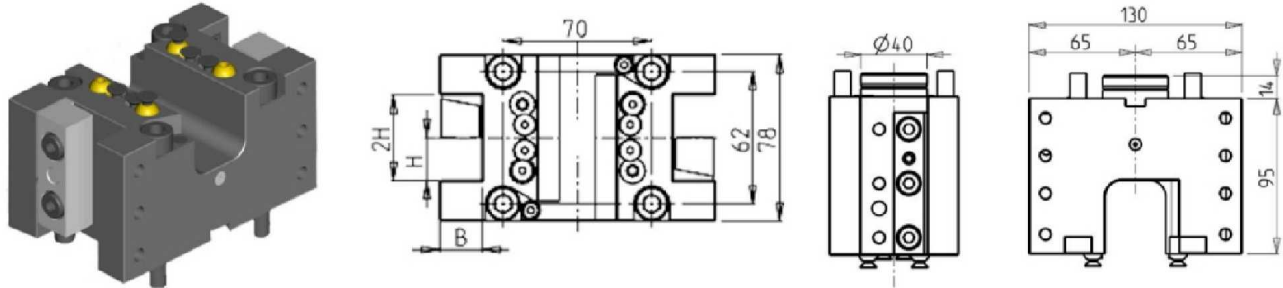


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	B	H
MNZ0111905	Radial Double Static Tool 3/4"	2	X		X	Inch	3/4"	3/4"
MNZ0112000	Radial Double Static Tool Ø20mm	2	X		X	mm	20	20
MNZ0112050	Radial Double Static Tool Ø20mm Cool Thru*	2	X	X	X	mm	20	20

NZ STATIC

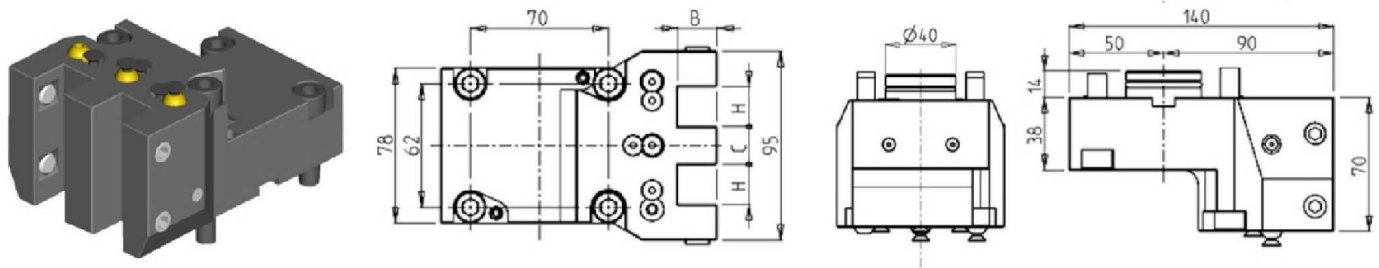
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RADIAL DOUBLE STATIC TOOL H=95mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	B	H
MNZ0111915	Radial Double Static Tool 3/4"	2	X		X	Inch	3/4"	3/4"
MNZ0112010	Radial Double Static Tool Ø20mm	2	X		X	mm	20	20
MNZ0112060	Radial Double Static Tool Ø20mm Cool Thru*	2	X	X	X	mm	20	20

RADIAL SINGLE SIDE TWIN STATIC TOOL H=70mm

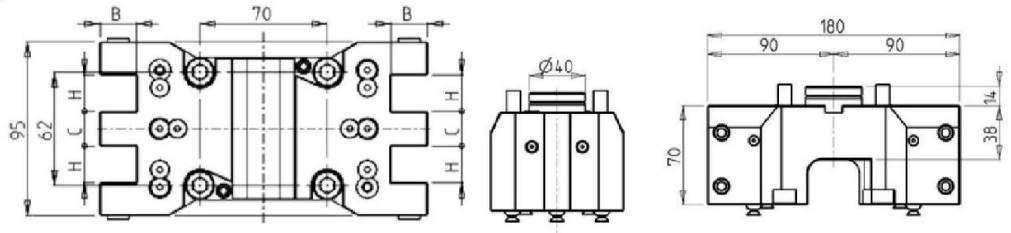
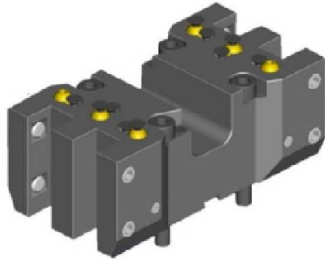


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	B	H	C
MNZ0101905	Radial Single-Side Twin 3/4"	2	X		X	Inch	3/4"	3/4"	0.822"
MNZ0102000	Radial Single-Side Twin Ø20mm	2	X		X	mm	20	20	19
MNZ0102050	Radial Single-Side Twin Ø20mm Cool Thru*	2	X	X	X	mm	20	20	19

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - DURATURN 2050MC/2550MC - ALX1500/2000/2500

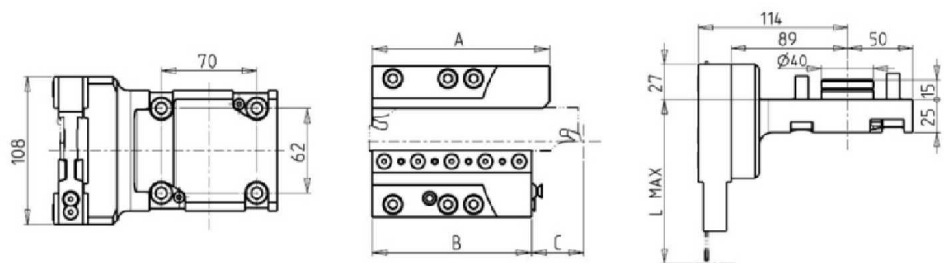
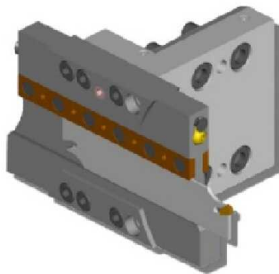
RADIAL REVERSIBLE DOUBLE SIDE TWIN STATIC TOOL H=70mm



PartNumber	Description	# of Tools	Reversible	Dimension	B	H	C
MNZ0121905	Radial Double-side Twin 3/4"	4	X	Inch	3/4"	3/4"	0.822"
MNZ0122000	Radial Double-side Twin Ø20mm	4	X	mm	20	20	19

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL DOUBLE BLADE HOLDER WITH BLADE KIT

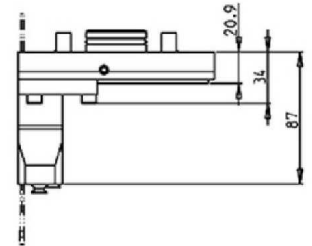
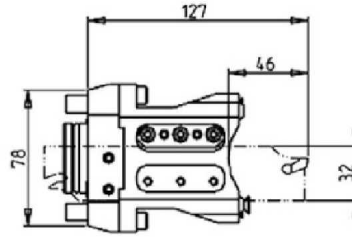
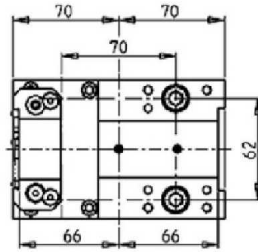
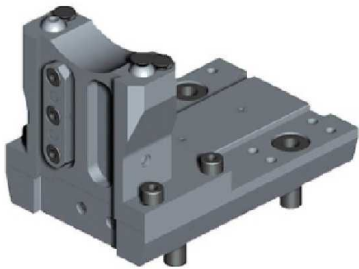


PartNumber	Description	# of Tools	Reversible	A	B	C	L Max
MNZ0180132	Radial Double Blade Holder with Blade Kit	1	X	127.5	113	39	125
MNZ0180232	Radial Double Blade Holder with Blade Kit	1	X	114.5	100	52	115
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts						

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL BLADE HOLDER WITH BLADE KIT

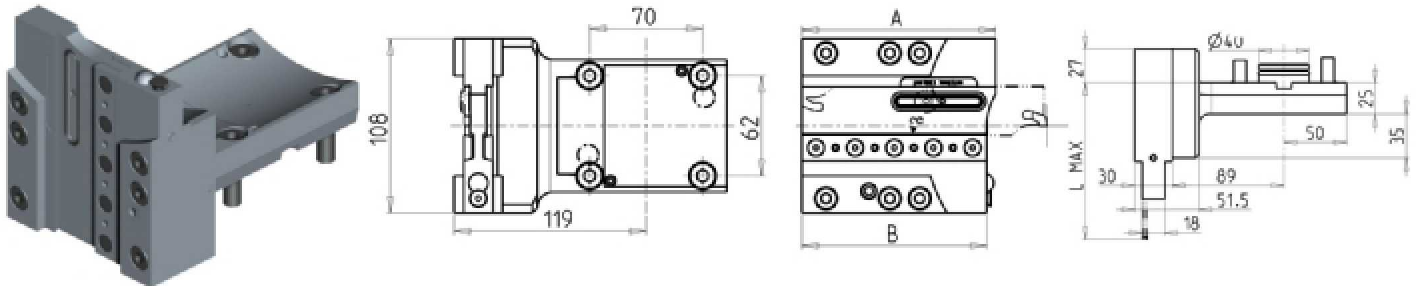


PartNumber	Description	# of Tools	Reversible	Ext Cool
MNZ0380132	Radial Blade Holder with Blade Kit	1	X	X
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts			

NZ STATIC

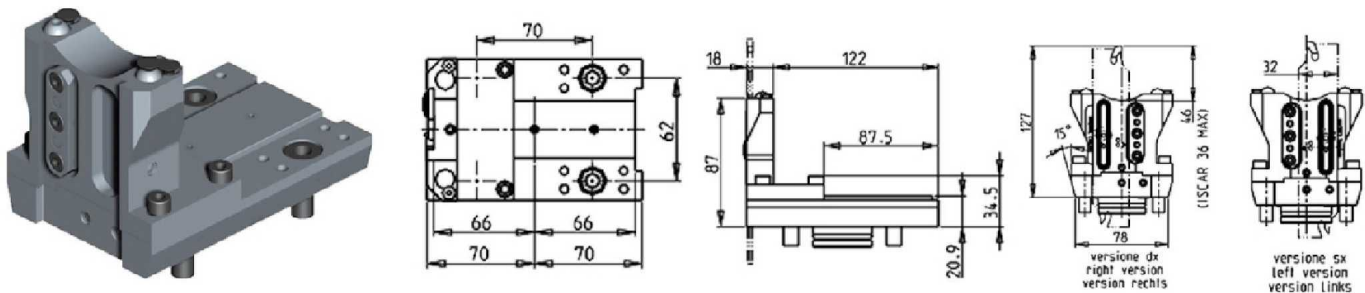
NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

RADIAL DOUBLE BLADE HOLDER WITH INTERNAL COOLANT- BLADE KIT NOT INCLUDED



PartNumber	Description	# of Tools	Ext Cool	Cool Thru	A	B	L Max
MNZ0520132	Radial Double Blade Holder Cool Thru	1	X	X	120	114.5	125 (122 ISCAR)
MNZ0520232	Radial Double Blade Holder Cool Thru	1	X	X	107	100	115 (108 ISCAR)
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts						

RADIAL BLADE HOLDER WITH INTERNAL COOLANT- BLADE KIT NOT INCLUDED

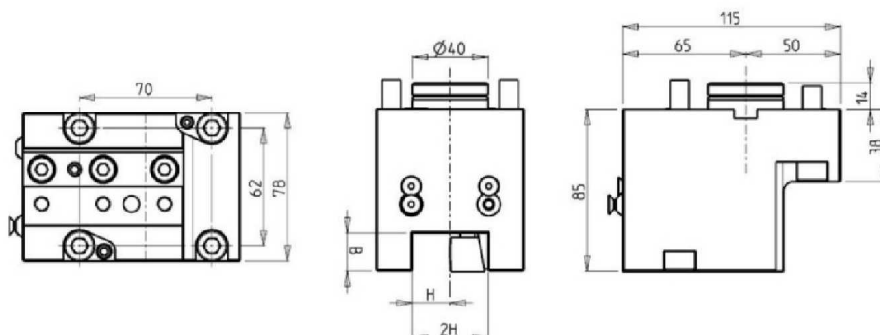
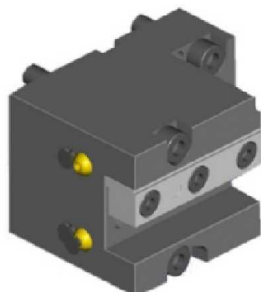


PartNumber	Description	# of Tools	Reversible	Ext Cool	Cool Thru
MNZ0530132R	Radial Blade Holder Cool Thru	1	X	X	X
MNZ0530132L	Radial Blade Holder Cool Thru	1	X	X	X
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts				

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

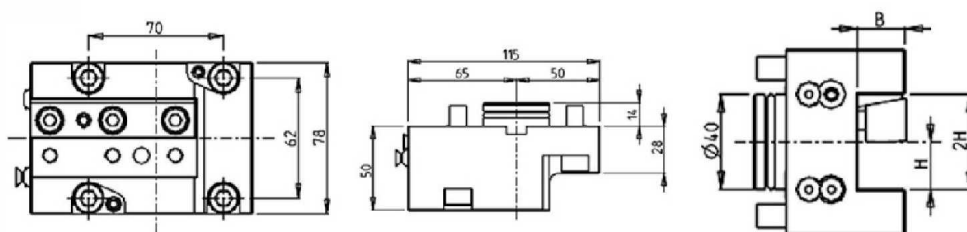
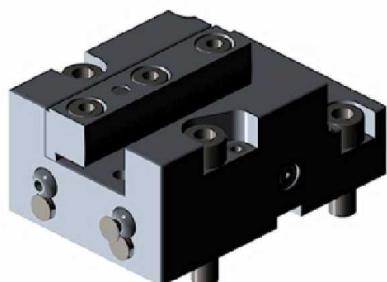
AXIAL SINGLE STATIC TOOL H=85mm



PartNumber	Description	# of Tools	Reversible	Dimension	B	H
MNZ0131905	Axial Single Static 3/4"	1	X	Inch	3/4"	3/4"
MNZ0132000	Axial Single Static Ø20mm	1	X	mm	20	20

NL1500/2000/2500 20 STATION - NLX1500/2000/2500 20 STATION - NT1000/2000 - NTX1000/2000 - DURATURN 2050MC/2550MC - ECOTURN 450

AXIAL SINGLE STATIC TOOL H=50mm

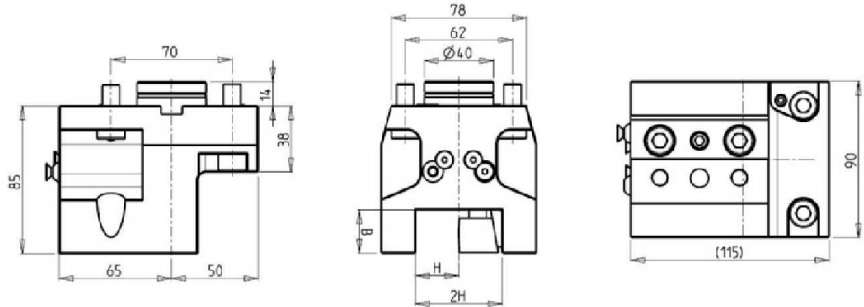
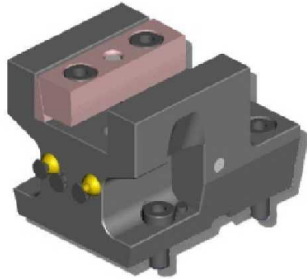


PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
MNZ0561905	Axial Single Static 3/4"	1	X	Inch	3/4"	3/4"
MNZ0562000	Axial Single Static 20mm	1	X	mm	20	20

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

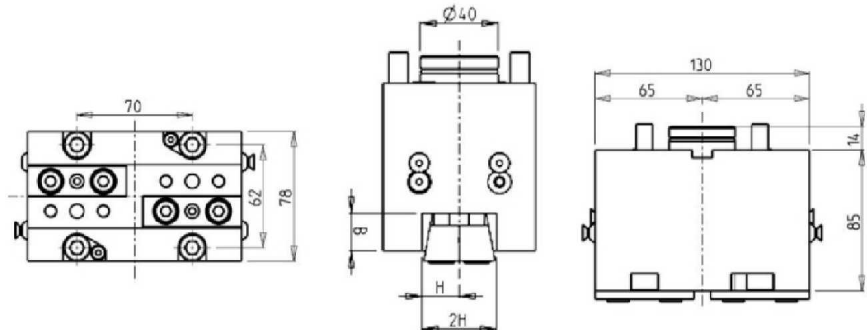
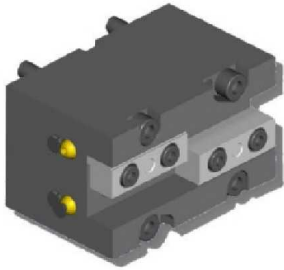
AXIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimension	B	H
MNZ0132500	Axial Single Static Ø25mm	1	X	mm	25	25

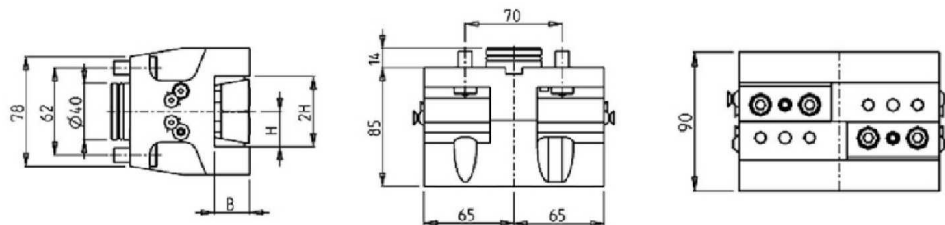
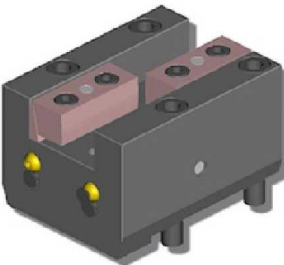
NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NT1000/2000 - NTX1000/2000 - DURATURN 2050MC/2550MC -ALX1500/2000/2500 - ECOTURN 450

AXIAL DOUBLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimension	B	H
MNZ0191905	Axial Double Static 3/4"	1/2	X	Inch	3/4"	3/4"
MNZ0192000	Axial Double Static 20mm	1/2	X	mm	20	20

AXIAL DOUBLE STATIC TOOL

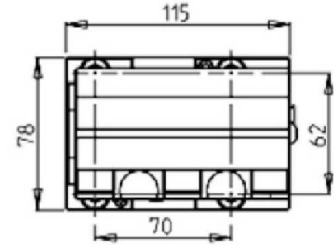
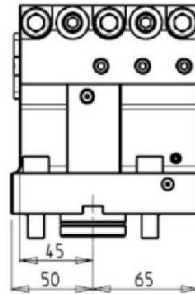
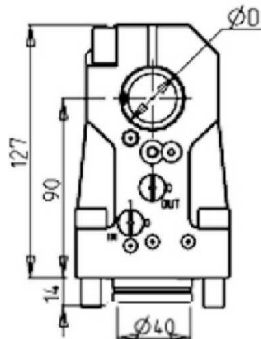
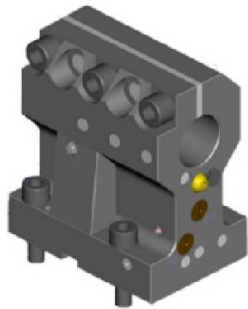


PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
MNZ0192540	Axial Double Static 1"	1/2	X	Inch	1"	1"
MNZ0192500	Axial Double Static 25mm	1/2	X	mm	25	25

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

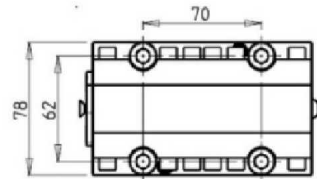
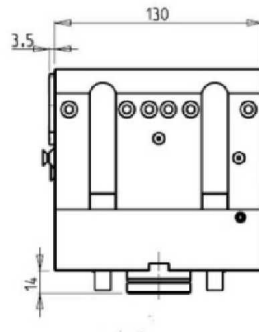
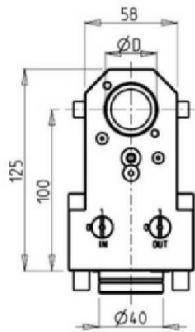
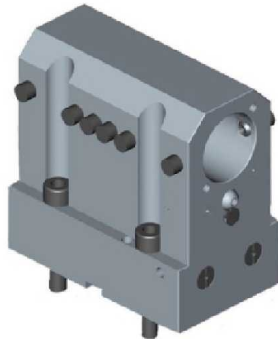
AXIAL SINGLE BORING BAR HOLDER H=90mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	D
MNZ0153175	Axial Single Boring Bar Holder: 1-1/4"	1	X	X	X	Inch	1-1/4"
MNZ0153200	Axial Single Boring Bar Holder: 32mm	1	X	X	X	mm	32
KIT1003001	32mm or 1-1/4" Plug & Seal to make BBH Cool Thru*						

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL SINGLE BORING BAR HOLDER H=100mm

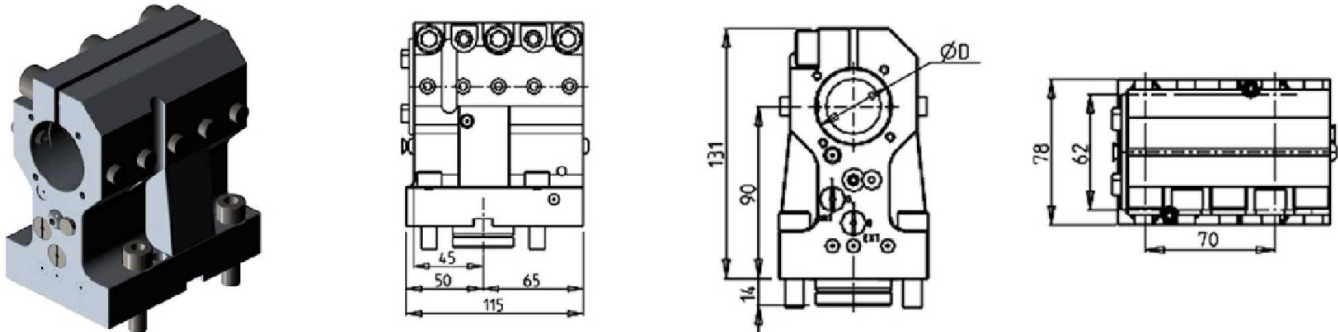


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	D
MNZ0143175	Axial Single Boring Bar Holder: 1-1/4"	1+1	X	X	X	Inch	1-1/4"
MNZ0143200	Axial Single Boring Bar Holder: 32mm	1+1	X	X	X	mm	32
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*						

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

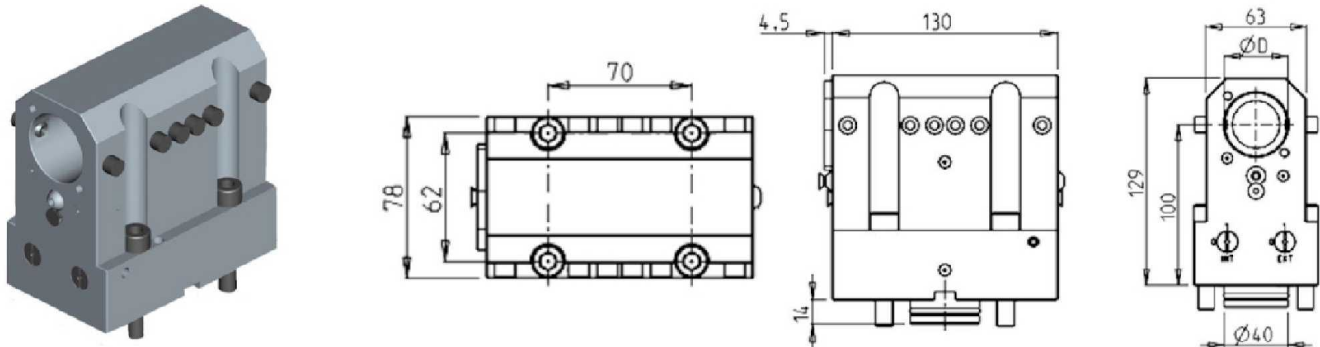
AXIAL SINGLE BORING BAR HOLDER H=90mm



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Dimensions	D
MNZ0153810	Axial Single BBH 1-1/2"	1	X	X	X	Inch	1-1/2"
MNZ0154000	Axial Single BBH 40mm	1	X	X	X	mm	40
KIT1003003	40mm Plug & Seal to make BBH Cool Thru*						
KIT1003004	1 1/2" Plug & Seal to make BBH Cool Thru*						

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL SINGLE BORING BAR HOLDER H=100mm

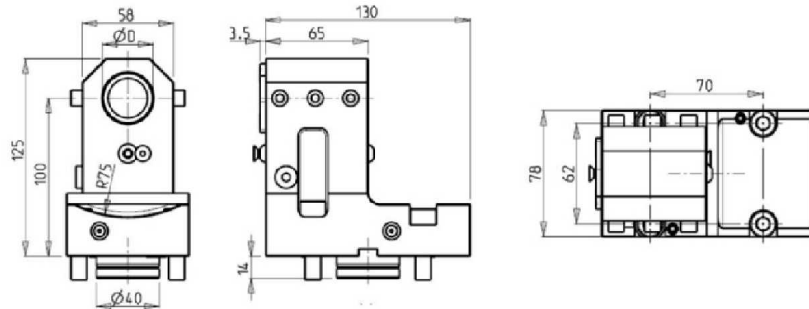


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Dimension	D
MNZ0143810	Single Boring Bar Holder 1-1/2"	1+1	X	X	X	Inch	1-1/2"
MNZ0144000	Single Boring Bar Holder 40mm	1+1	X	X	X	mm	40
KIT1000018	40mm Plug to make BBH Cool Thru*						
KIT1000021	1-1/2" Plug to make BBH Cool Thru*						

NZ STATIC

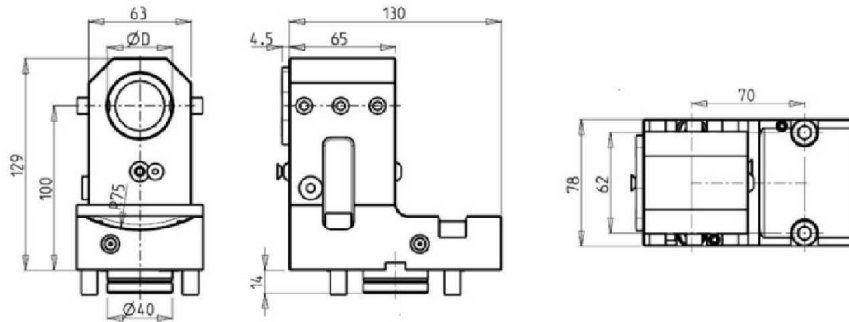
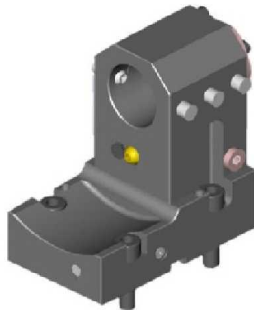
NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL SINGLE REAR-SET BORING BAR HOLDER H=100mm



PartNumber	Description	Reversible	Cool Thru	Ext Cool	Dimension	D
MNZ0223175	Axial Single Rear-Set Boring Bar Holder: 1-1/4"	X	X	X	Inch	1-1/4"
MNZ0223200	Axial Single Rear-Set Boring Bar Holder: 32mm	X	X	X	mm	32
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*					

AXIAL SINGLE REAR-SET BORING BAR HOLDER H=100mm

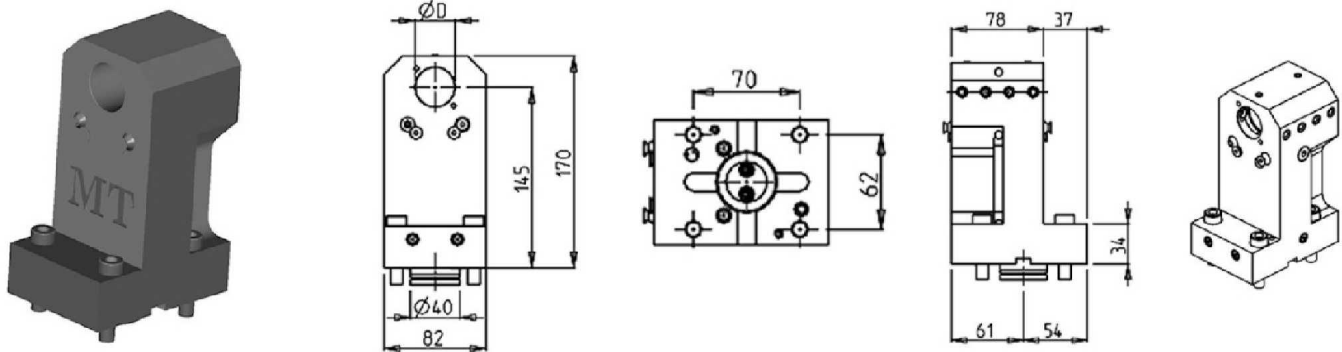


PartNumber	Description	Reversible	Cool Thru	Ext Cool	Dimension	D
MNZ0223810	Axial Single Rear-Set Boring Bar Holder: 1-1/2"	X	X	X	Inch	1-1/2"
MNZ0224000	Axial Single Rear-Set Boring Bar Holder: 40mm	X	X	X	mm	40
KIT1000021	1-1/2" Plug to make BBH Cool Thru*					
KIT1000018	40mm Plug to make BBH Cool Thru*					

NZ STATIC

NTX1000/2000/2500/3000 2ND GEN. 12 ST

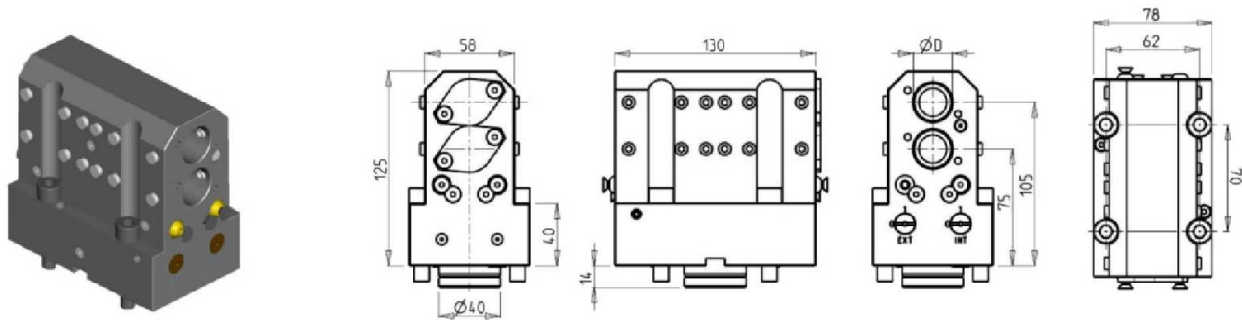
AXIAL SINGLE REAR SET BORING BAR HOLDER H=145mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNZ0853200	Axial Single Rear-Set BBH Ø32mm	1	X	X	X	mm	32
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*						

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

AXIAL 2 + 2 POSITION UPRIGHT BORING BAR HOLDER

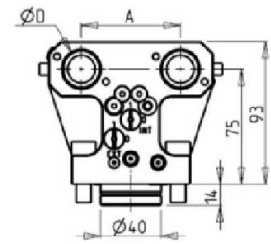
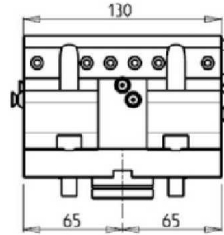
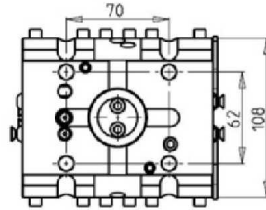
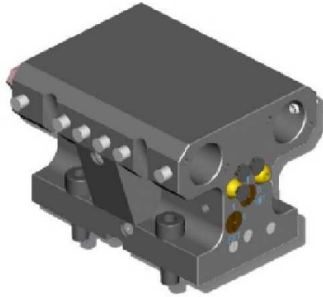


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimension	D
MNZ0162540	Axial 2+2 Upright Boring Bar Holder1"	2+2	X	X	X	Inch	1"
MNZ0162500	Axial 2+2 Upright Boring Bar Holder 25mm	2+2	X	X	X	mm	25
KIT1000006	25mm or 1" Plug to make BBH Cool Thru*						

NZ STATIC

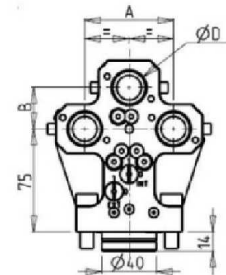
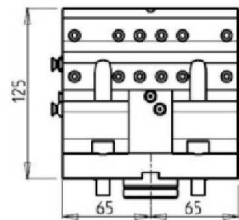
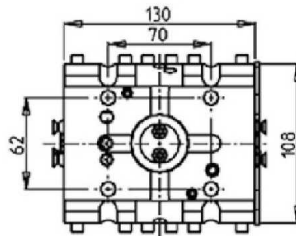
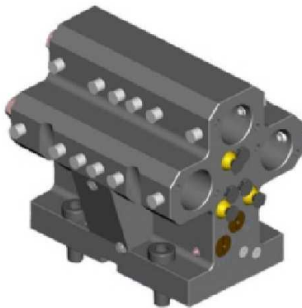
NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

AXIAL 2 + 2 BORING BAR HOLDER



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dim.	D	A
MNZ0241905	Axial 2+2 Boring Bar Holder: 3/4"	2+2	X	X	X	Inch	3/4"	63.5
MNZ0242540	Axial 2+2 Boring Bar Holder: 1"	2+2	X	X	X	Inch	1"	63.5
MNZ0242000	Axial 2+2 Boring Bar Holder: 20mm	2+2	X	X	X	mm	20	65
MNZ0242500	Axial 2+2 Boring Bar Holder: 25mm	2+2	X	X	X	mm	25	65
KIT1000005	3/4" Plug to make BBH Cool Thru*							
KIT1000015	20mm Plug to make BBH Cool Thru*							
KIT1000006	25mm or 1" Plug to make BBH Cool Thru*							

AXIAL 3 + 3 POSITION BORING BAR HOLDER

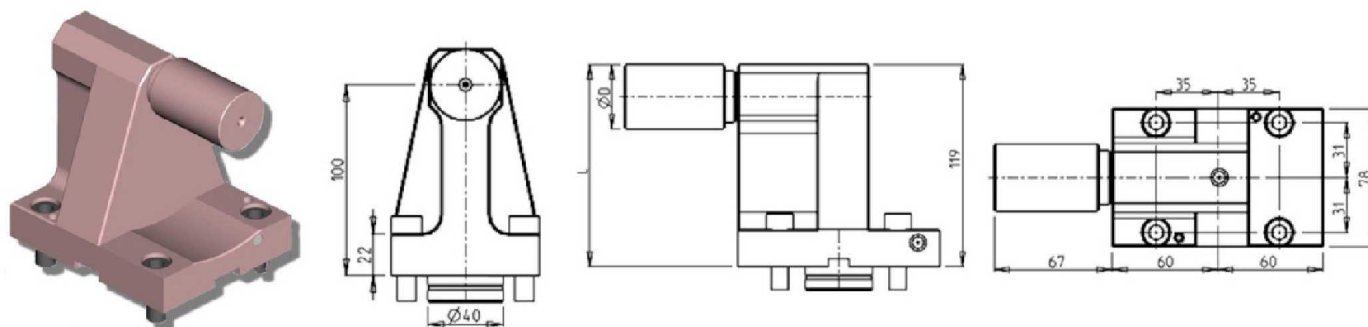


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dim.	D	A	B
MNZ0171905	Axial 3+3 Boring Bar Holder: 3/4"	3+3	X	X	X	Inch	3/4"	63.5	2 1/2"
MNZ0172540	Axial 3+3 Boring Bar Holder: 1"	3+3	X	X	X	Inch	1"	63.5	1 1/4"
MNZ0172000	Axial 3+3 Boring Bar Holder: 20mm	3+3	X	X	X	mm	20	65	30
MNZ0172500	Axial 3+3 Boring Bar Holder: 25mm	3+3	X	X	X	mm	25	65	30
KIT1000005	3/4" Plug to make BBH Cool Thru*								
KIT1000015	20mm Plug to make BBH Cool Thru*								
KIT1000006	25mm or 1" Plug to make BBH Cool Thru*								

NZ STATIC

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500

TAILSTOCK FOR SUB SPINDLE

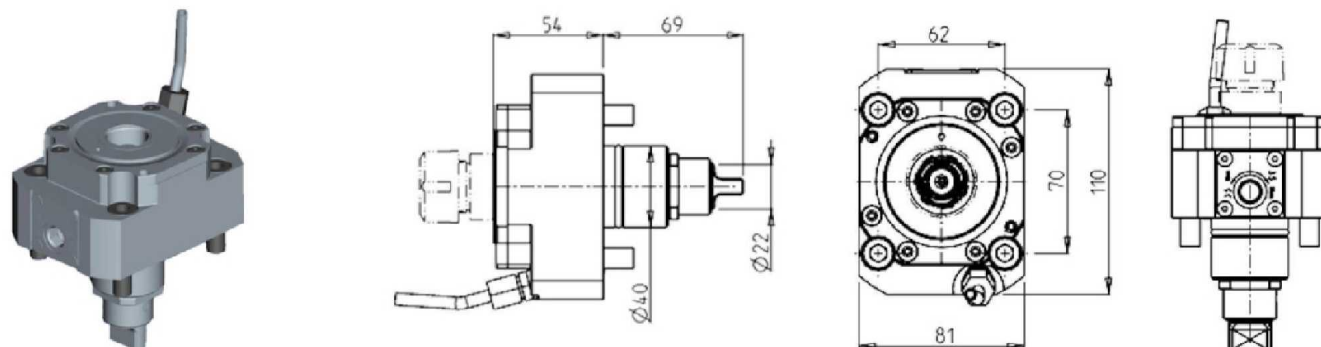


PartNumber	Description	# of Tools	D	L
MNZ0300100L	Tail Stock for sub spindle D=2"	1	2"	125.4
MNZ0300100	Tail Stock for sub spindle D=38mm	1	38	119

NZ CAPTO DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

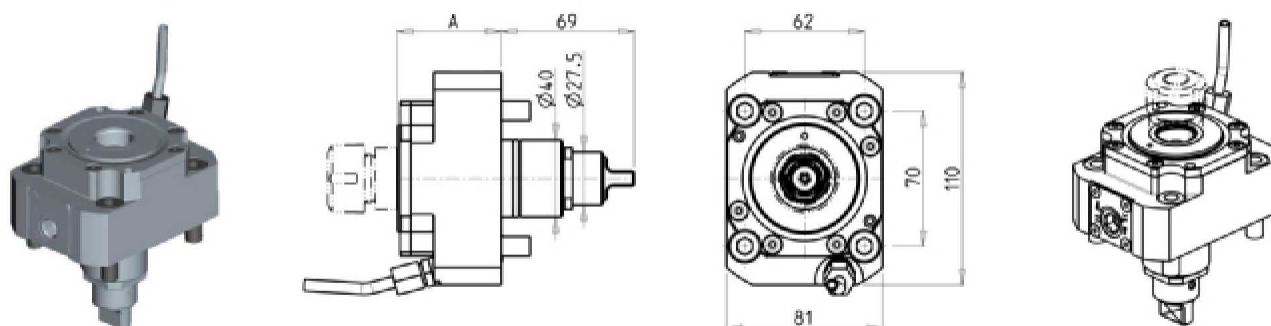
RADIAL DRIVEN COROMANT-CAPTO



PartNumber	Description	Capto Size	I	RPM	Ext Cool	A
MNZ0330130	Radial Capto C3	C3	1:1	6000	X	54
MNZ0330140	Radial Capto C4	C4	1:1	6000	X	63

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

RADIAL DRIVEN COROMANT-CAPTO RPM=12,000

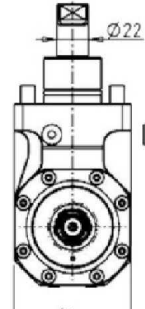
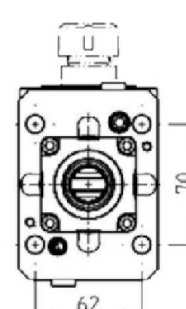
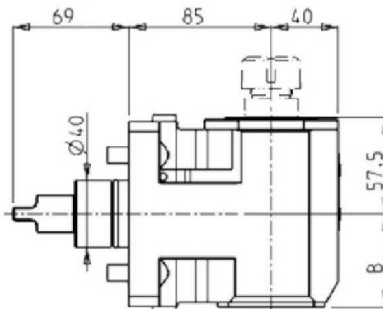


PartNumber	Description	Capto Size	I	RPM	Ext Cool	A
MNZ0500130	Radial Capto C3 RPM=12,000	C3	1:1	12000	X	54
MNZ0500140	Radial Capto C4 RPM=12,000	C4	1:1	12000	X	63

NZ CAPTO DRIVEN

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL DRIVEN COROMANT-CAPTO

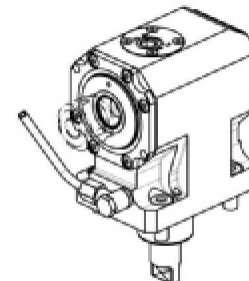
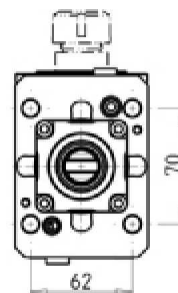
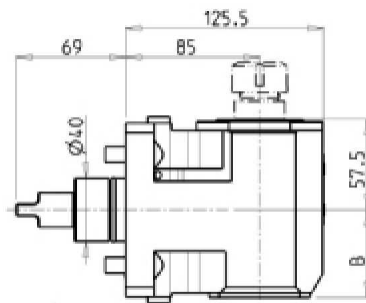
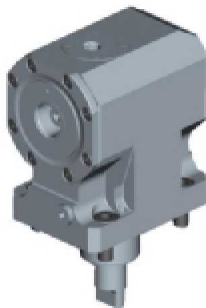


PartNumber	Description	Reversible	Capto Size	I	RPM	Cool Thru	Ext Cool	B
MNZ0320130	Axial Capto C3	X	C3	1:1	6000		X	55.5
MNZ0320230	Axial Capto C3 Cool Thru*	X	C3	1:1	6000	X	X	68
MNZ0320140	Axial Capto C4	X	C4	1:1	6000		X	55.5
MNZ0320240	Axial Capto C4 Cool Thru*	X	C4	1:1	6000	X	X	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ1500/2000 - NZX1500/2000 - NZX2500 - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - NRX2000 - ALX1500/2000/2500

AXIAL DRIVEN COROMANT-CAPTO RPM=12,000



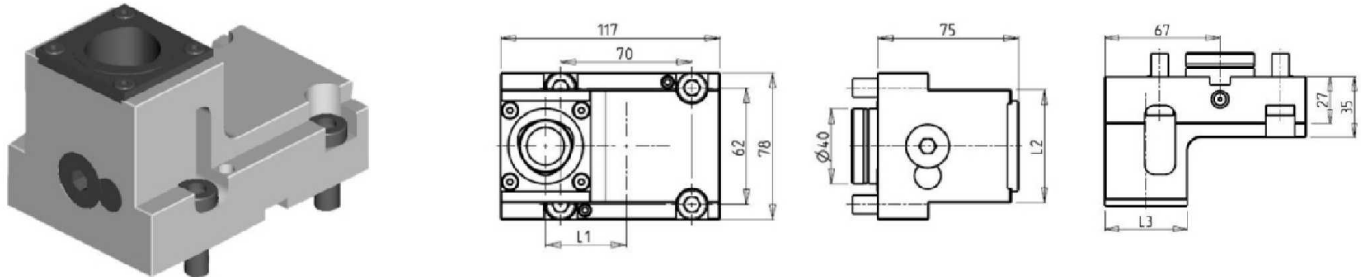
PartNumber	Description	Capto Size	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNZ0510130	Axial Capto C3 RPM=12,000	C3	1:1	12000	X		X	55.5
MNZ0510230	Axial Capto C3 Cool Thru* RPM=12,000	C3	1:1	12000	X	X	X	68
MNZ0510140	Axial Capto C4 RPM=12,000	C4	1:1	12000	X		X	55.5
MNZ0510240	Axial Capto C4 Cool Thru* RPM=12,000	C4	1:1	12000	X	X	X	68

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ CAPTO STATIC

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

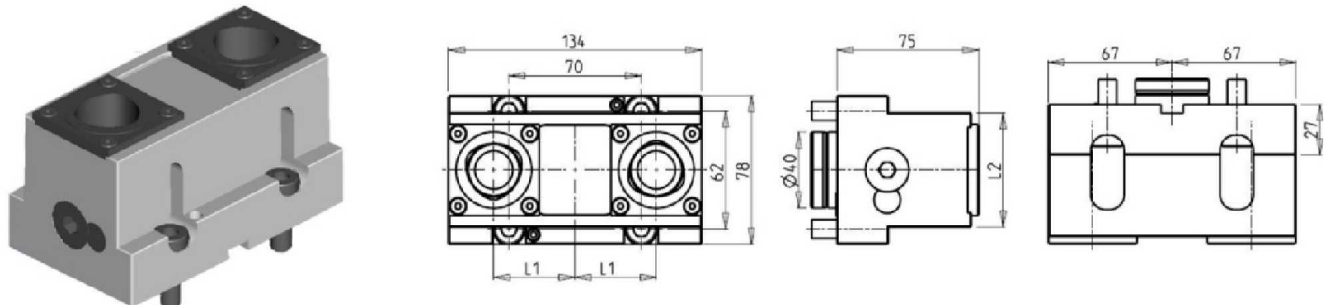
RADIAL STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru	L1	L2	L3
MNZ0253210	Single Radial Static Tool: Right C3 Capto	1	X	C3	X	48	50	43
MNZ0253210LC	Single Radial Static Tool: Left C3 Capto	1	X	C3	X	48	50	43
MNZ0254010	Single Radial Static Tool: Right C4 Capto	1	X	C4	X	43	60	48
MNZ0254010LC	Single Radial Static Tool: Left C4 Capto	1	X	C4	X	43	60	48

NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - ALX1500/2000/2500 - ECOTURN 450

RADIAL DOUBLE STATIC TOOL COROMANT-CAPTO

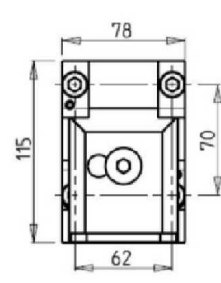
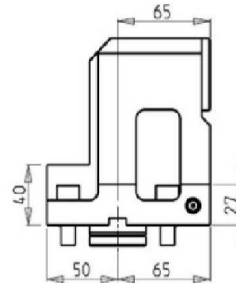
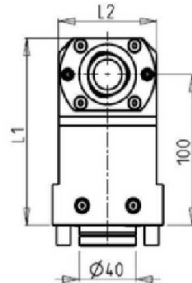
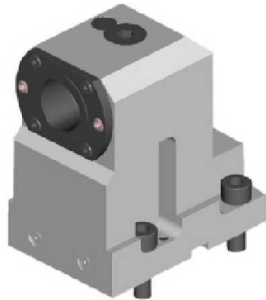


PartNumber	Description	# of Tools	Capto Size	Cool Thru	L1	L2
MNZ0263220	Double Radial Static Tool: Right C3 Capto	2	C3	X	48	50
MNZ0263220LC	Double Radial Static Tool: Left C3 Capto	2	C3	X	48	50
MNZ0264020	Double Radial Static Tool: Right C4 Capto	2	C4	X	43	60
MNZ0264020LC	Double Radial Static Tool: Left C4 Capto	2	C4	X	43	60

NZ CAPTO STATIC

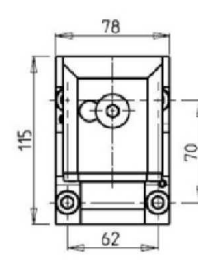
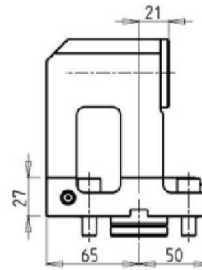
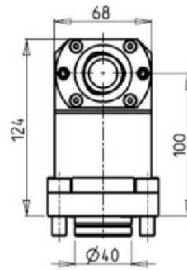
NZ1500/2000 - NZX1500/2000 - NZX2500 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NT1000/2000 - NTX500 - NTX1000/2000 - NTX1000/2000/2500/3000 2ND GEN. 12 ST - DURATURN 2050MC/2550MC - NRX2000 - ALX1500/2000/2500 - ECOTURN 450

AXIAL SINGLE STATIC TOOL COROMANT-CAPTO



PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru	L1	L2
MNZ0273210	Single Axial Static Tool: Right C3 Capto	1	X	C3	X	119	56
MNZ0273210LC	Single Axial Static Tool: Left C3 Capto	1	X	C3	X	119	56
MNZ0274010	Single Axial Static Tool: Right C4 Capto	1	X	C4	X	124	69
MNZ0274010LC	Single Axial Static Tool: Left C4 Capto	1	X	C4	X	124	69

AXIAL REAR-SET SINGLE BORING BAR HOLDER COROMANT-CAPTO

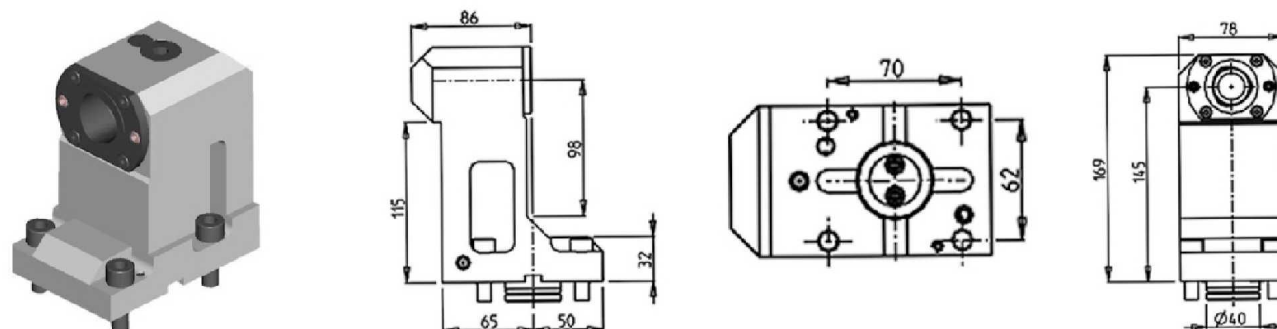


PartNumber	Description	# of Tools	Reversible	Capto Size	Cool Thru
MNZ0294010	Single Axial Rear-Set Static : Right C4 Capto	1	X	C4	X
MNZ0294010LC	Single Axial Rear-Set Static : Left C4 Capto	1	X	C4	X

NZ CAPTO STATIC

NTX1000/2000/2500/3000 2ND GEN. 12 ST

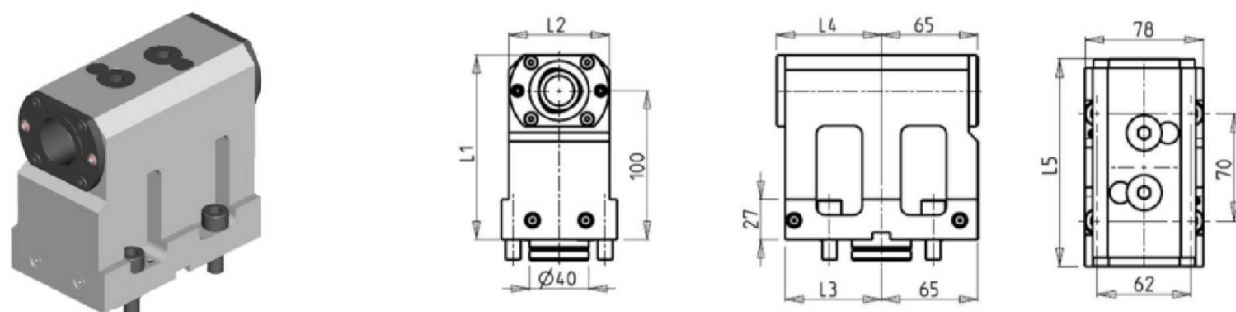
AXIAL SINGLE REAR-SET BORING BAR HOLDER CAPTO C4



PartNumber	Description	Cool Thru	Reversible	Capto Size
MNZ0604010	Axial Rear-Set Boring Bar - Right C4 Capto	X	X	C4
MNZ0604010LC	Axial Rear-Set Boring Bar - Left C4 Capto	X	X	C4

NZ1500/2000 - NZX1500/2000 - NT3000 SERIES - NL1500/2000/2500 20 ST - NLX1500/2000/2500 20 ST - NTX500 - ALX1500/2000/2500 - ECOTURN 450

AXIAL OPPOSITE FACE TWIN STATIC TOOL COROMANT-CAPTO

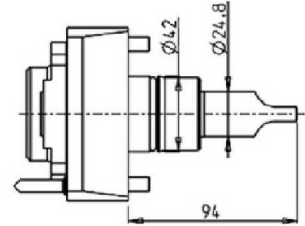
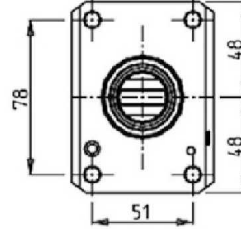
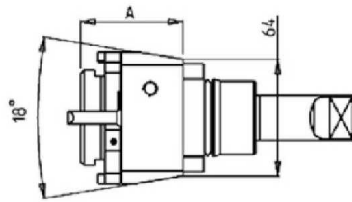


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Capto Size	L1	L2	L3	L4	L5
MNZ0283220	Opp. Face Twin Axial Static Right C3 Capto	1+1	X	X	X	C3	119	56	60	60	125
MNZ0283220LC	Opp. Face Twin Axial Static Left C3 Capto	1+1	X	X	X	C3	119	56	60	60	125
MNZ0284020	Opp. Face Twin Axial Static Right C4 Capto	1+1	X	X	X	C4	124	68	65	71	136
MNZ0284020LC	Opp. Face Twin Axial Static Left C4 Capto	1+1	X	X	X	C4	124	68	65	71	136

NZ DRIVEN

NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

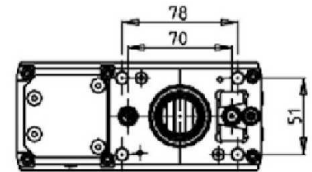
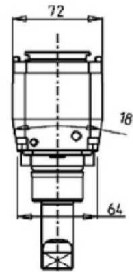
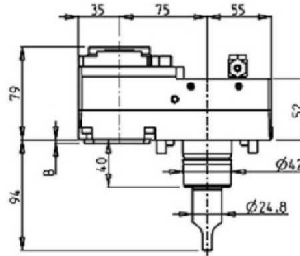
RADIAL DRIVEN TOOL 12000 RPM



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNZ0740332	Radial Driven Tool ERA32 12K RPM	ERA32	1:1	12000		X	56.5
MNZ0740432	Radial Driven Tool ERA32 12K RPM Cool Thru	ERA32	1:1	12000	X	X	69.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL DRIVEN TOOL REDIRECTED IN Z BY 75mm 12000 RPM



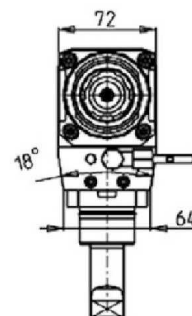
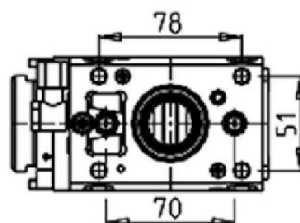
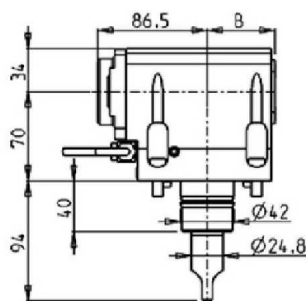
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNZ0870325	Radial Redirected in Z ERA25 12K RPM	ERA25	1:1	12000	X		X	2.8
MNZ0870425	Radial Redirected in Z ERA25 12K RPM Cool Thru	ERA25	1:1	12000	X	X	X	12.3

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ DRIVEN

NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

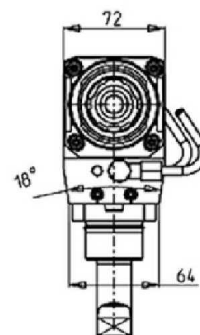
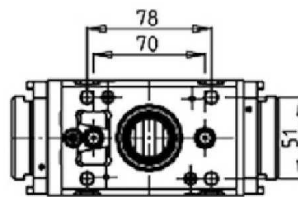
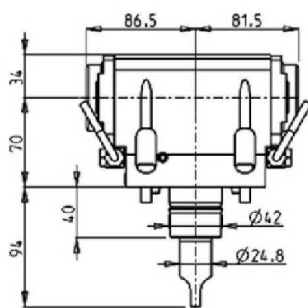
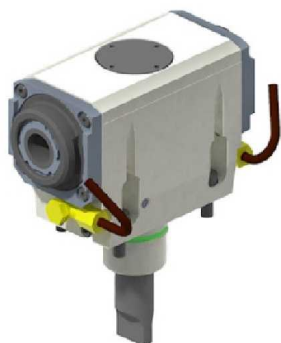
AXIAL DRIVEN TOOL 12000 RPM H=70mm



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNZ0750332	Axial Driven Tool ERA32 12K RPM	ERA32	1:1	12000	X		X	53.3
MNZ0750432	Axial Driven Tool ERA32 12K RPM Cool Thru	ERA32	1:1	12000	X	X	X	64.3

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL 12000 RPM

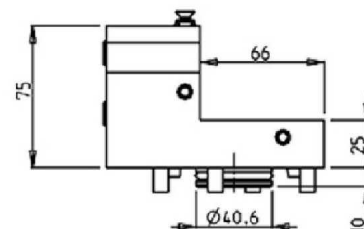
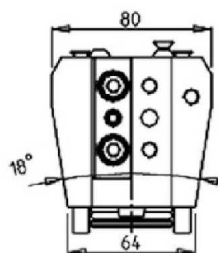
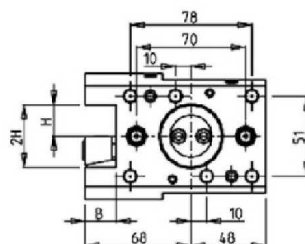
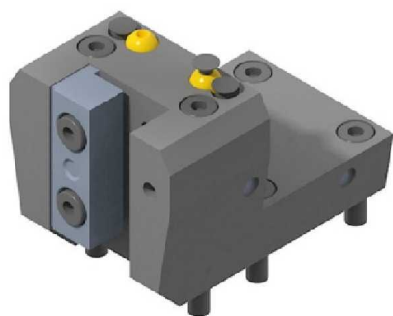


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNZ0880332	Axial Opposite Face ERA32+ERA32 12K RPM	ERA32+ERA32	1:1	12000	X	X

NZ STATIC

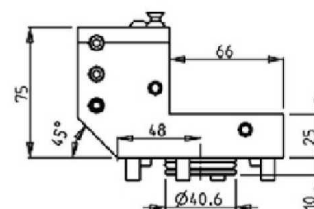
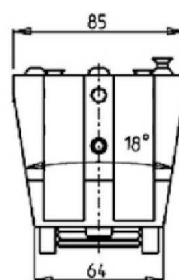
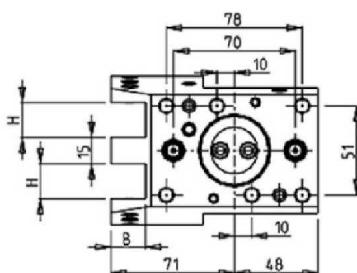
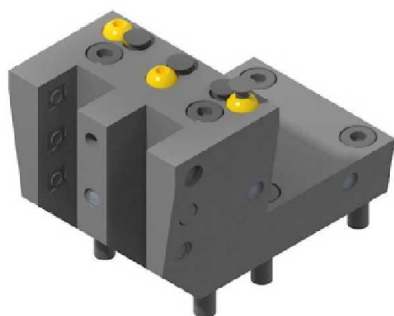
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

RADIAL SINGLE STATIC TOOL H=75mm



PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimensions	B	H
MNZ0762000	Radial Single Static Tool Ø20mm	1	X	X	mm	20	20

RADIAL SINGLE SIDE TWIN STATIC TOOL

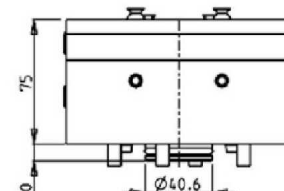
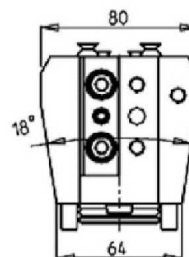
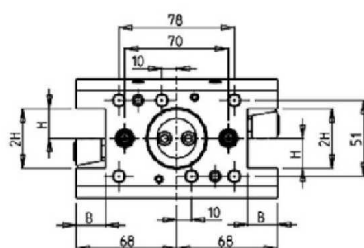
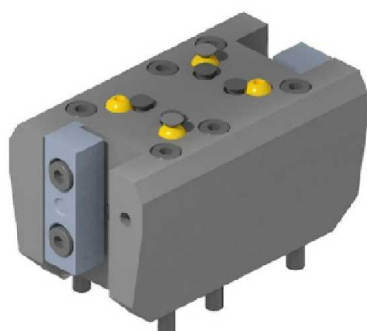


PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimensions	H	B
MNZ0962000	Radial Single Side Twin Static Tool Ø20mm	2	X	X	mm	20	20

NZ STATIC

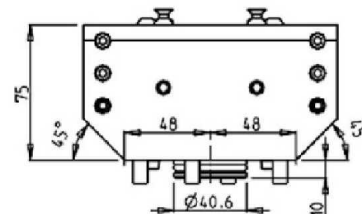
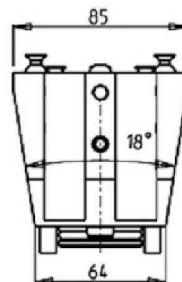
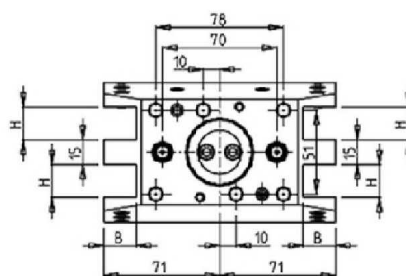
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

RADIAL DOUBLE STATIC TOOL H=75mm



PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimensions	B	H
MNZ0772000	Radial Double Static Tool Ø20mm	2	X	X	mm	20	20

RADIAL DOUBLE SIDE TWIN STATIC TOOL

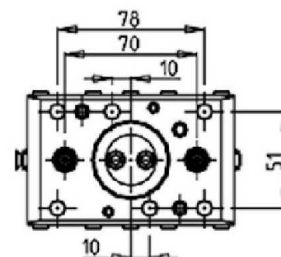
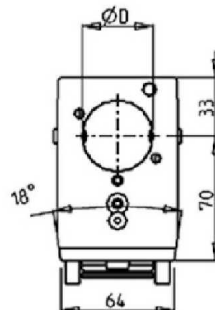
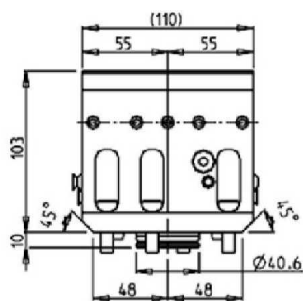


PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimensions	H	B
MNZ0992000	Radial Double Side Twin Static Tool Ø20mm	2+2	X	X	mm	20	20

NZ STATIC

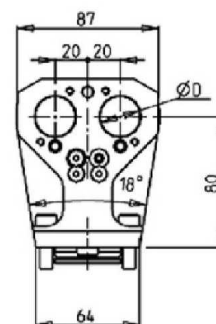
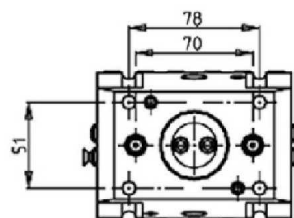
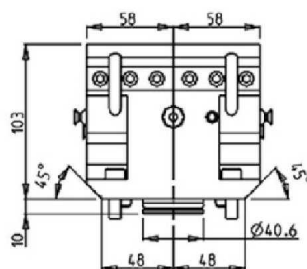
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

AXIAL SINGLE BORING BAR HOLDER H=70mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNZ0804000	Axial Single BBH Ø40mm	1	X	X	X	mm	40
KIT1000018	40mm Plug to make BBH Cool Thru*						

AXIAL 2+2 POSITION BORING BAR HOLDER

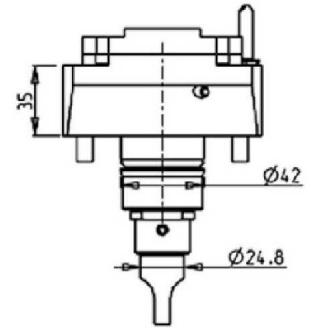
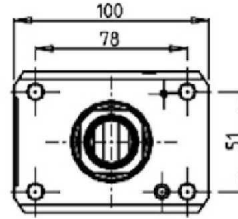
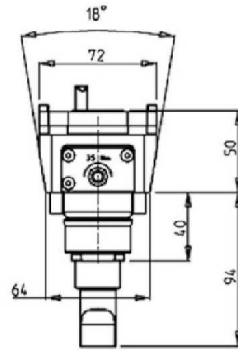


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNZ0972500	Axial 2+2 Position BBH Ø25mm	2+2	X	X	X	mm	25
KIT1000006	25mm or 1" Plug to make BBH Cool Thru						

NZ CAPTO DRIVEN

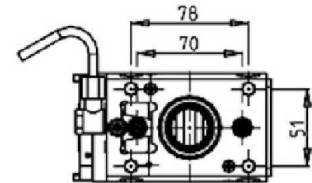
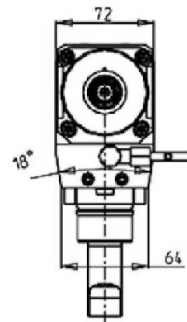
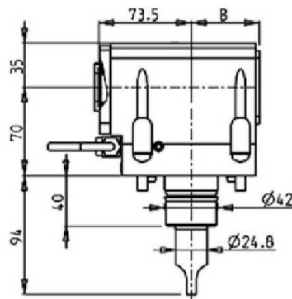
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

RADIAL DRIVEN TOOL CAPTO C3 12000 RPM



PartNumber	Description	Size	I	RPM	Ext Cool
MNZ0820130	Radial Driven Tool Capto C3 12K RPM	C3	1:1	12000	X

AXIAL DRIVEN TOOL CAPTO C3 12000 RPM



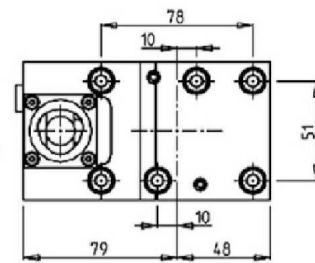
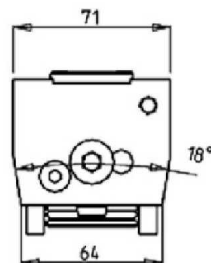
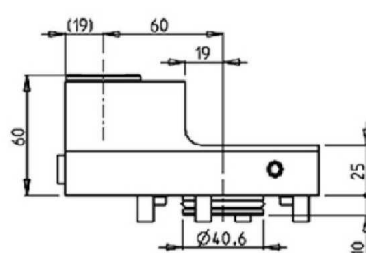
PartNumber	Description	Size	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNZ0830130	Axial Driven Tool Capto C3 12K RPM	C3	1:1	12000	X		X	54
MNZ0830230	Axial Driven Tool Capto C3 12K RPM Cool Thru	C3	1:1	12000	X	X	X	62.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZ CAPTO STATIC

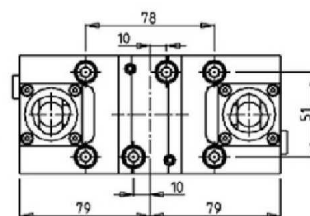
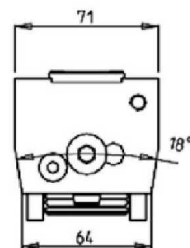
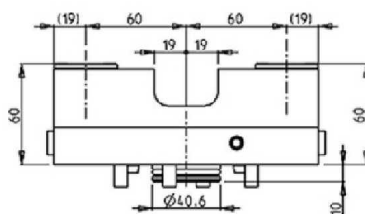
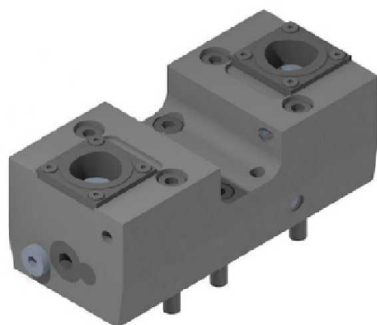
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

RADIAL SINGLE STATIC TOOL CAPTO C3



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Size
MNZ0913210	Radial Single Static Tool Capto C3 Right Hand	1	X	X	X	C3
MNZ0913210LC	Radial Single Static Tool Capto C3 Left Hand	1	X	X	X	C3

RADIAL DOUBLE STATIC TOOL CAPTO C3

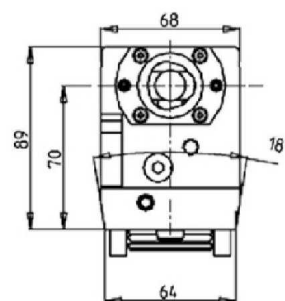
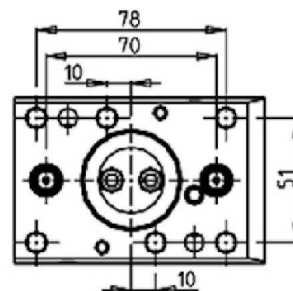
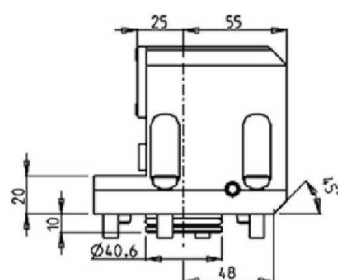


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Size
MNZ0923220	Radial Double Static Tool Capto C3 Right Hand	2	X	X	X	C3
MNZ0923220LC	Radial Double Static Tool Capto C3 Left Hand	2	X	X	X	C3

NZ CAPTO STATIC

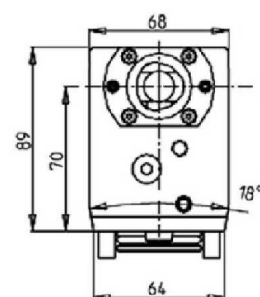
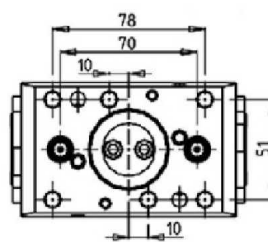
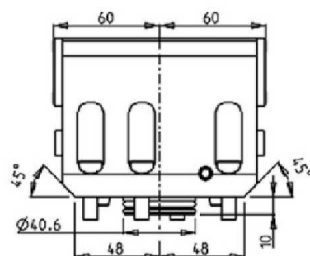
NZ DUE/TRE/QUATTRO (BMT42/64) - NTX500 (BMT42/64)

AXIAL REAR SET SINGLE STATIC TOOL CAPTO C3



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Size
MNZ0953210	Axial Rear Set Single Static Capto C3 Right Hand	1	X	X	X	C3
MNZ0953210LC	Axial Rear Set Single Static Capto C3 Left Hand	1	X	X	X	C3

AXIAL OPPOSITE FACE TWIN STATIC TOOL CAPTO C3



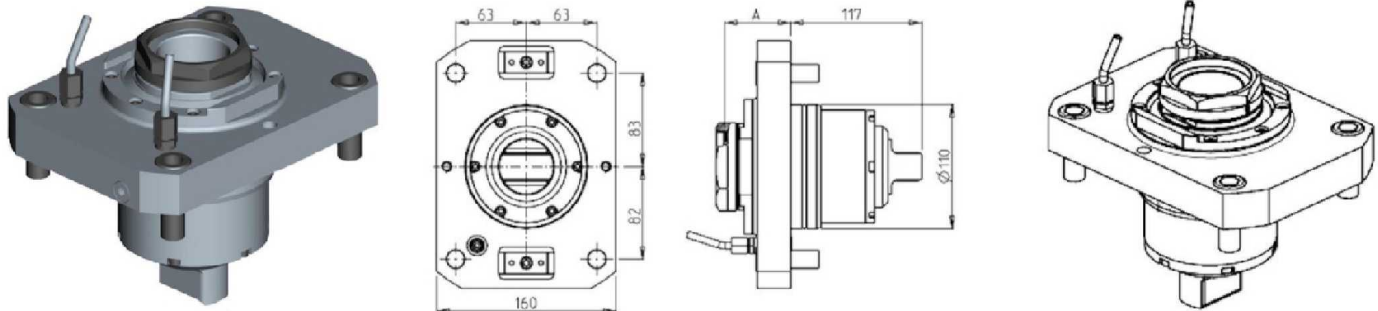
PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Reversible	Size
MNZ0943220	Axial Opposite Face Twin Static Capto C3 Right Hand	1+1	X	X	X	C3
MNZ0943220LC	Axial Opposite Face Twin Static Capto C3 Left Hand	1+1	X	X	X	C3

NZL DRIVEN

NZL6000 - NZX6000

QUICK CHANGE RADIAL MTSK-63 DRIVEN TOOL

Please see Accessories for MTSK Clamping Units

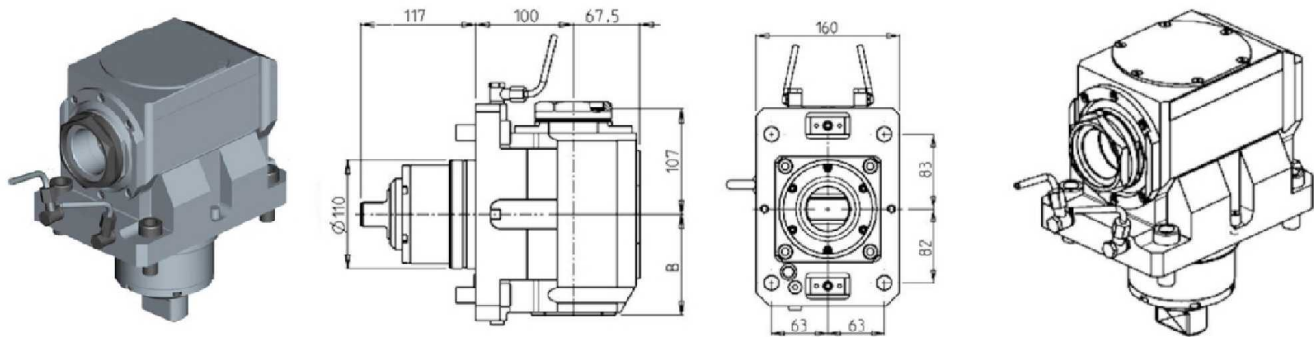


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
NZL0020163	Radial MTSK-63	MTSK-63	1:1	3500		X	59
NZL0020263	Radial MTSK-63 Cool Thru*	MTSK-63	1:1	3500	X	X	69
NZL0020363	Radial MTSK-63	MTSK-63	1:1	6500		X	59
NZL0020463	Radial MTSK-63 Cool Thru*	MTSK-63	1:1	6500	X	X	69

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK-63 DRIVEN TOOL

Please see Accessories for MTSK Clamping Units

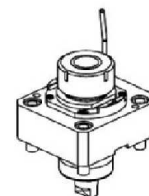
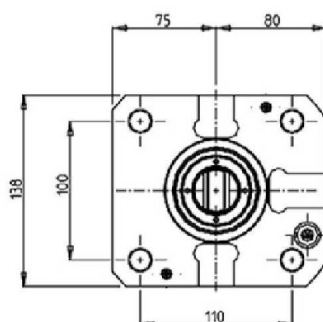
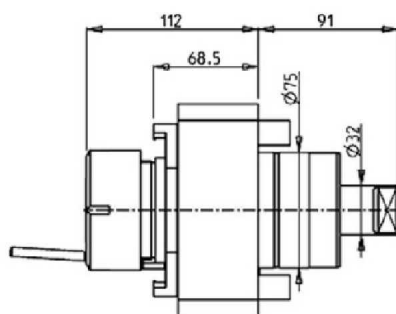


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
NZL0010163	Axial MTSK-63	MTSK-63	1:1	3500		X	102.5
NZL0010263	Axial MTSK-63 Cool Thru*	MTSK-63	1:1	3500	X	X	119
NZL0010363	Axial MTSK-63	MTSK-63	1:1	6500		X	102.5
NZL0010463	Axial MTSK-63 Cool Thru*	MTSK-63	1:1	6500	X	X	119

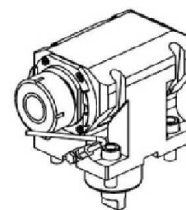
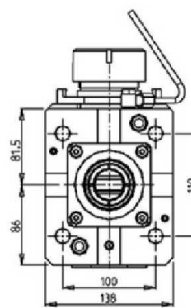
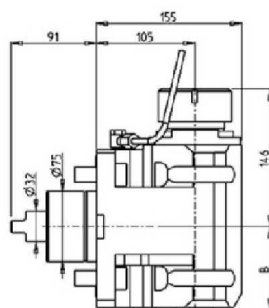
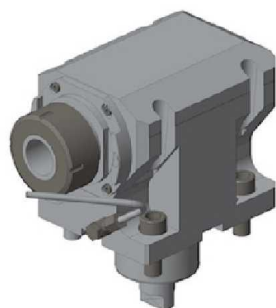
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZL DRIVEN

NLX6000 - NZX4000

RADIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Ext Cool
NZL0060150	Radial Driven Tool ER50	ER50	1:1	8000	X

AXIAL DRIVEN TOOL H=105mm

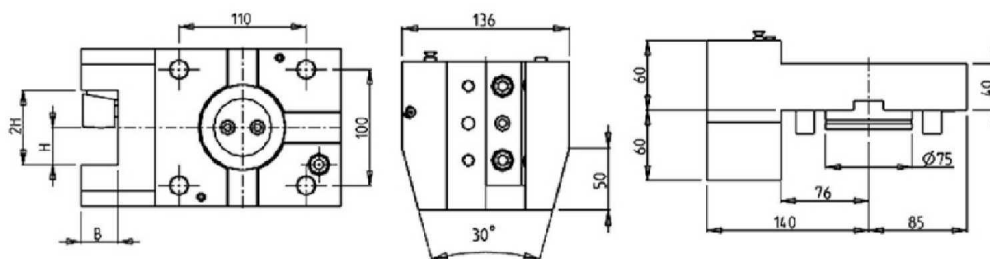
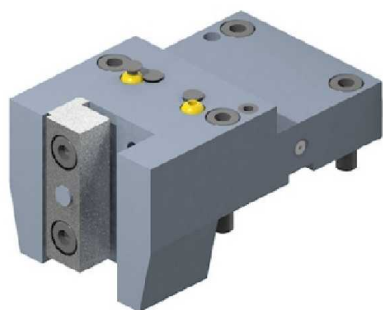
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
NZL0070150	Axial Driven Tool ER50	ER50	1:1	8000	X		X	89
NZL0070250	Axial Driven Tool ER50 Cool Thru*	ER50	1:1	8000	X	X	X	105.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

NZL STATIC

NLX6000 - NZX4000

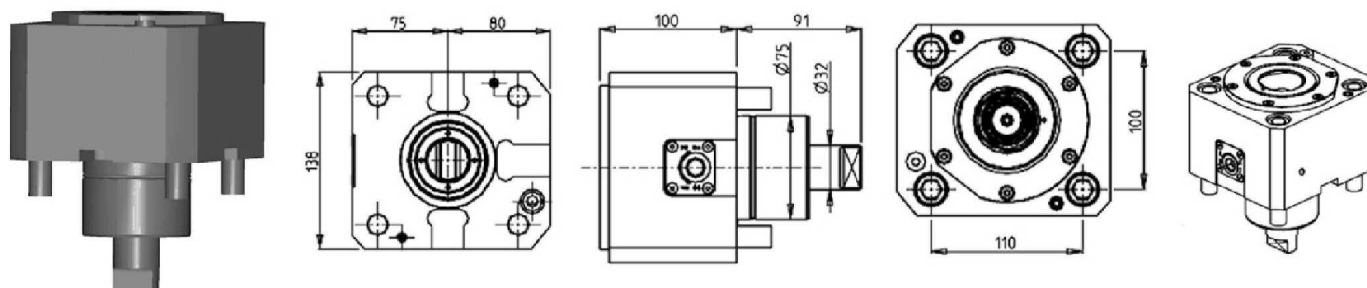
RADIAL SINGLE REAR SET STATIC TOOL



PartNumber	Description	# of Tools	Dimensions	B	H
NZL0083200	Radial Single Rear Set Static Tool Ø32mm	1	mm	32	32

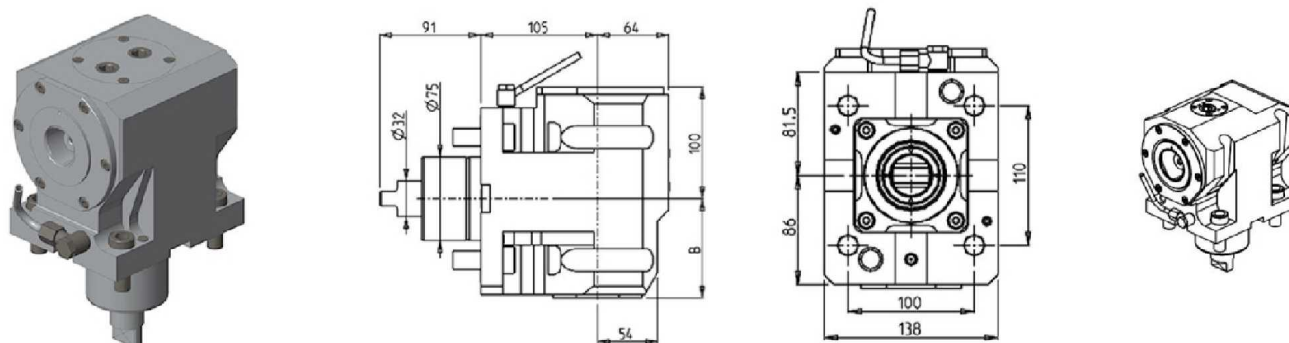
NZL CAPTO DRIVEN

NLX6000 - NZX4000

RADIAL DRIVEN TOOL CAPTO C6

PartNumber	Description	Size	I	RPM	Cool Thru	Ext Cool
NZL0090260	Radial Driven Tool Capto C6 Cool Thru*	C6	1:1	8000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL DRIVEN TOOL CAPTO C6 H=105mm

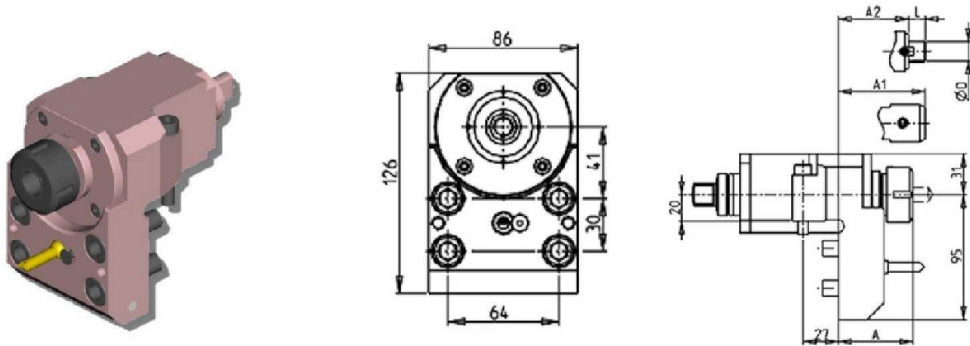
PartNumber	Description	Size	I	RPM	Reversible	Cool Thru	Ext Cool	B
NZL0100160	Axial Driven Tool Capto C6	C6	1:1	8000	X		X	89
NZL0100260	Axial Driven Tool Capto C6 Cool Thru*	C6	1:1	8000	X	X	X	105.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL-DL-ZL DRIVEN

SL-ZL150/153/154 (MC-SMC-Y-SY) DL150MC DL15MC

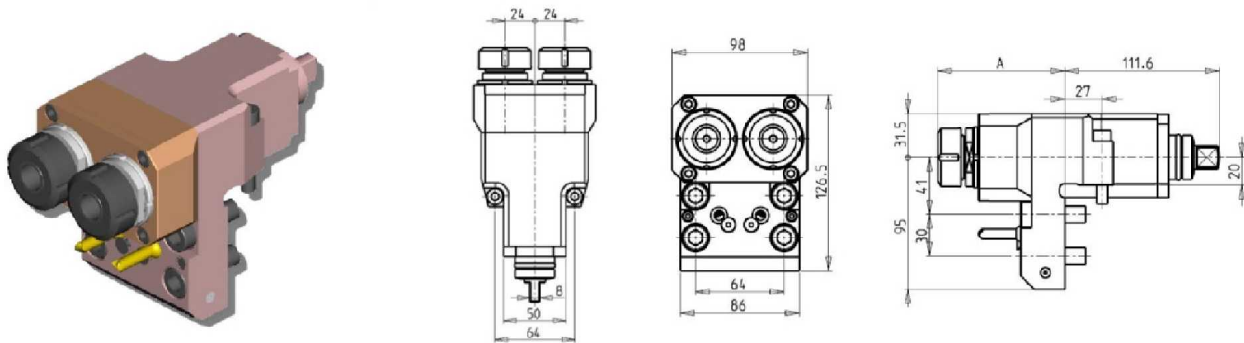
RADIAL DRIVEN TOOL



PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
M0020225	Radial ER25	T32107B05	ER25	1:1	6000		X	56.96				
M0021225	Radial ER25 Cool Thru*		ER25	1:1	6000	X		71.46				
M0020132	Radial ER32		ER32	1:1	6000		X	65.96				
M0021617	Radial Mill Head 16x17mm		16x17	1:1	6000		X			37	16	17
M0020325	Radial Weldon 25		Weldon 25	1:1	6000		X	76.8				

*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

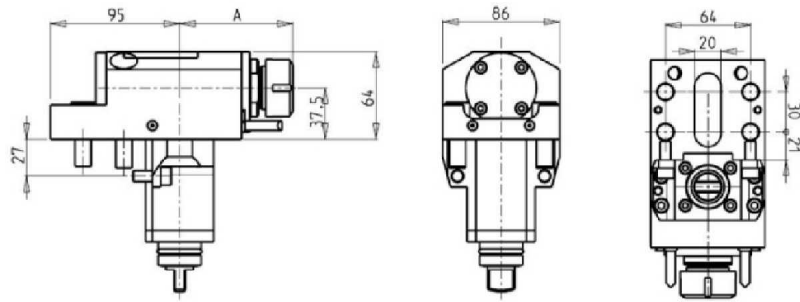


PartNumber	Description	Spindle	I	RPM	Ext Cool	A
MSL0020216	Radial Double Outlet ER16	ER16	1:1	6000	X	91.5
MSL0020225	Radial Double Outlet ER25	ER25	1:1	6000	X	91.96

SL-DL-ZL DRIVEN

SL-ZL150/153/154 (MC-SMC-Y-SY) DL150MC DL15MC

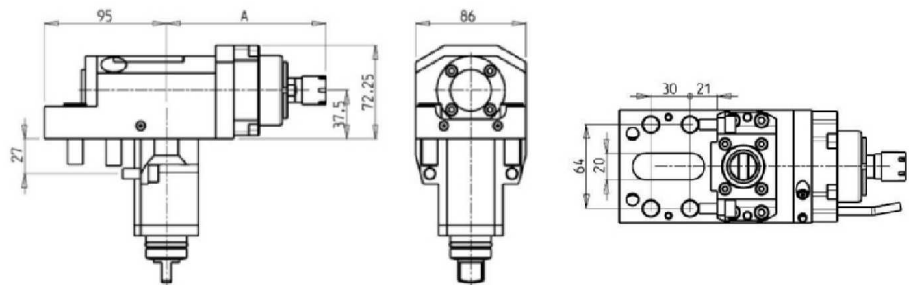
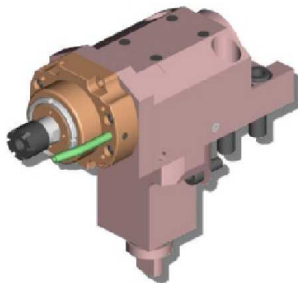
AXIAL DRIVEN TOOL



PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A
M0040425	Axial ER25	T32108B07	ER25	1:1	6000		X	83.26
M0041725	Axial ER25 Cool Thru*		ER25	1:1	6000	X		83.26

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL GEARED-UP 1:5.625 DRIVEN TOOL



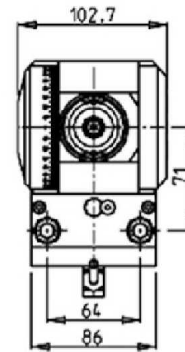
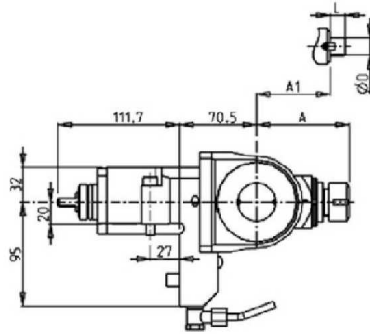
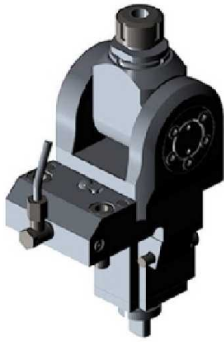
PartNumber	Description	Spindle	I	RPM	Ext Cool	A
M0050016	Axial ER16 Geared Up 1:5.625	ER16	1:5.625	22500	X	124.25

Note : Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL150/153/154 (MC-SMC-Y-SY) DL150MC DL15MC

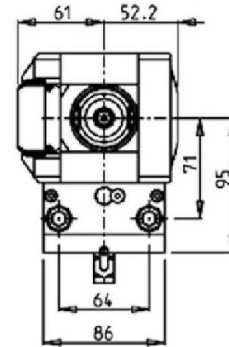
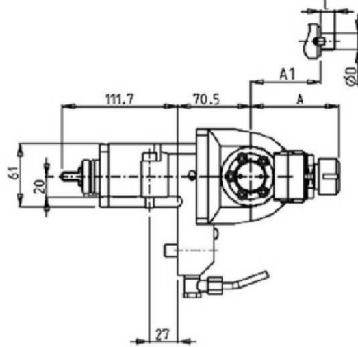
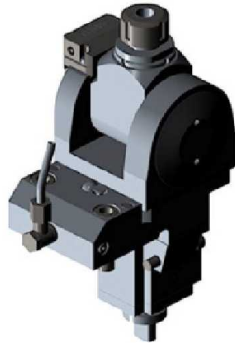
0-180 ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1	D	L
MSL0240120	0-180 Adj. Angle ER20	ER20	1:1	6000	X	85.16			
MSL0240125	0-180 Adj. Angle ER25	ER25	1:1	6000	X	86.16			
MSL0240519	0-180 Adj. Angle 3/4"x3/4"	3/4"x3/4"	1:1	6000	X		65	3/4"	3/4"
MSL0240516	0-180 Adj. Angle 16x17mm	16x17	1:1	6000	X		65	16	17
MSL0240522	0-180 Adj. Angle 22x19mm	22x19	1:1	6000	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY



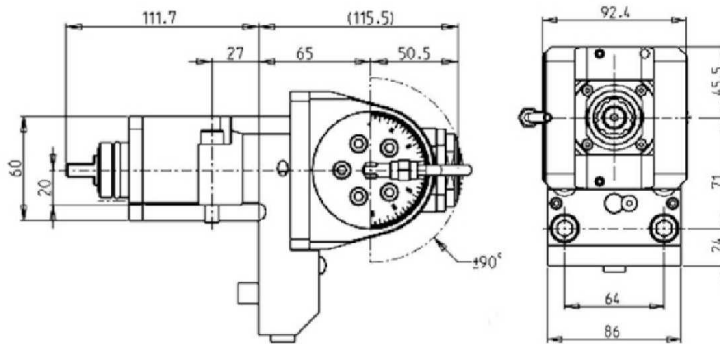
PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1	D	L
MSL0200120	0-180 Adj. Angle ER20 with Digital Display	ER20	1:1	6000	X	85.16			
MSL0200125	0-180 Adj. Angle ER25 with Digital Display	ER25	1:1	6000	X	86.16			
MSL0200519	0-180 Adj. Angle 3/4"x3/4" with Digital Display	3/4"x3/4"	1:1	6000	X		65	3/4"	3/4"
MSL0200516	0-180 Adj. Angle 16x17mm with Digital Display	16x17	1:1	6000	X		65	16	17
MSL0200522	0-180 Adj. Angle 22x19mm with Digital Display	22x19	1:1	6000	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL150/153/154 (MC-SMC-Y-SY) DL150MC DL15MC

0-180 ADJUSTABLE ANGLE DRIVEN TOOL ERA20



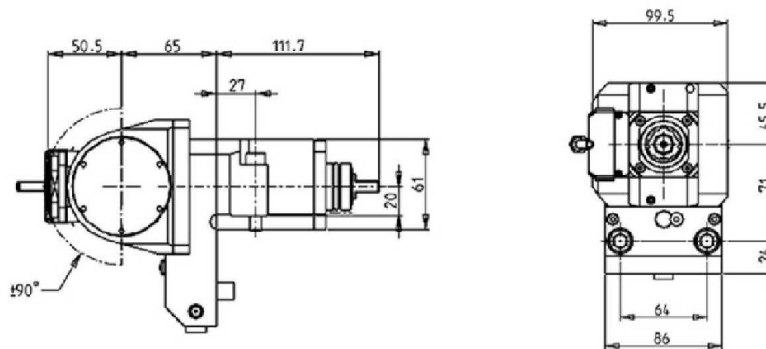
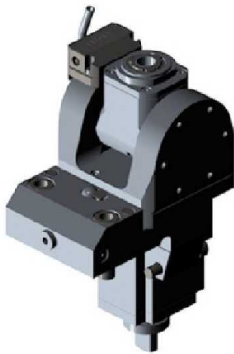
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0110120	Adj. Angle (0-180) ERA20	ERA20	1:1	6000		X
MSL0110220	Adj. Angle (0-180) ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0115120	0-180 Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
MSL0115220	0-180 Adj. Angle ERA20 with Digital Display Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

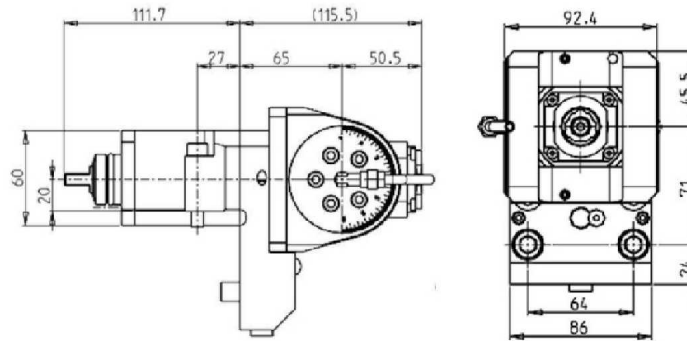
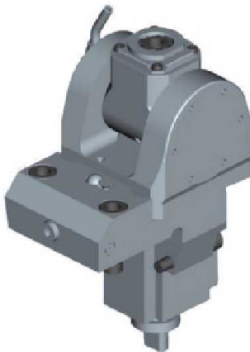
Note :

Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL150/153/154 (MC-SMC-Y-SY) DL150MC DL15MC

0-180 ADJUSTABLE ANGLE GEARED-UP 1:2 DRIVEN TOOL



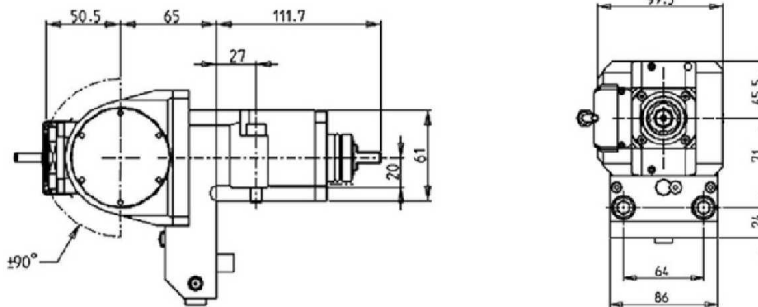
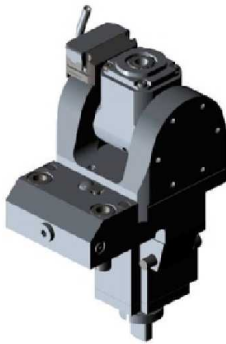
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0110316	Adj. Angle (0-180) Geared-Up ERA16	ERA16	1:2	12000		X
MSL0110416	Adj. Angle (0-180) Geared-Up ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 WITH DIGITAL DISPLAY



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0115316	0-180 Adj. Angle ERA16 Geared-Up with Digital Display	ERA16	1:2	12000		X
MSL0115416	0-180 Adj. Angle ERA16 Geared-Up with Digital Display Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

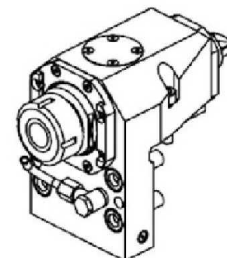
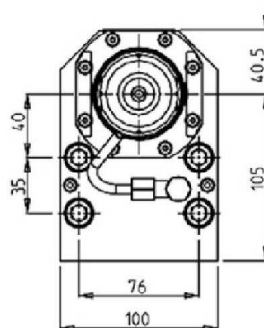
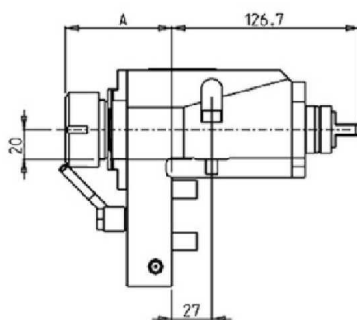
Note :

Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

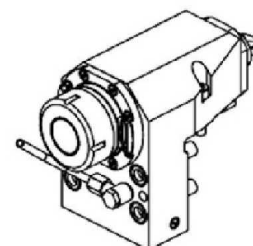
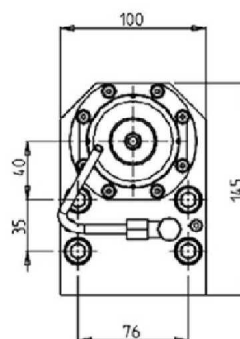
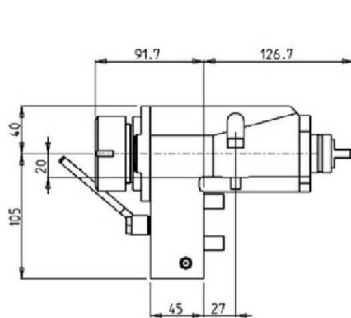
RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MSL0150132	Radial Driven Tool ER32	ER32	1:1	6000		X	71.91
MSL0151232	Radial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	74.91

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL REINFORCED DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0500140	Radial Reinforced ER40	ER40	1:1	6000		X
MSL0500240	Radial Reinforced ER40 Cool Thru*	ER40	1:1	6000	X	X

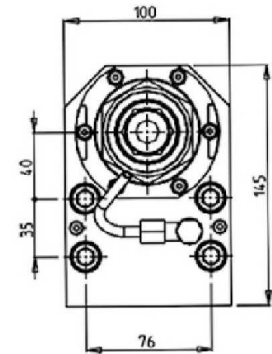
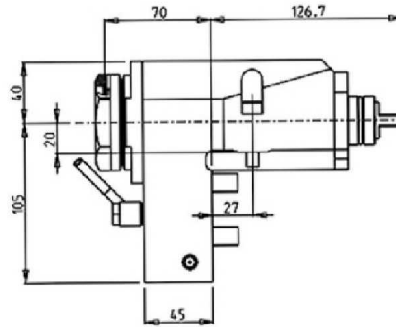
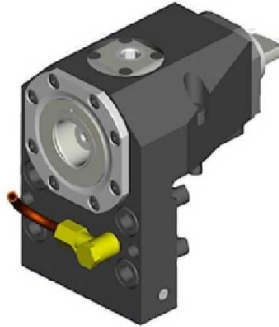
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

QUICK CHANGE RADIAL MTSK-50 DRIVEN TOOL

Please see Accessories for MTSK Clamping Units

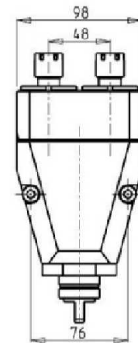
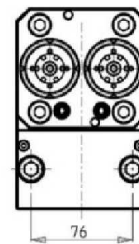
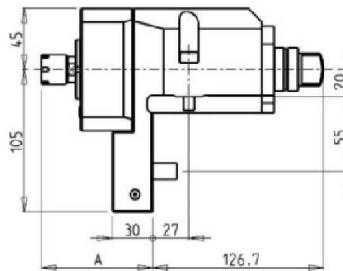
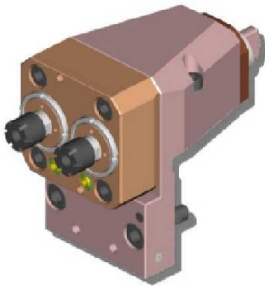


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MSL0360150	Radial MTSK-50	MTSK-50	1:1	6000		X
MSL0360250	Radial MTSK-50 Cool Thru*	MTSK-50	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL2500Y

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

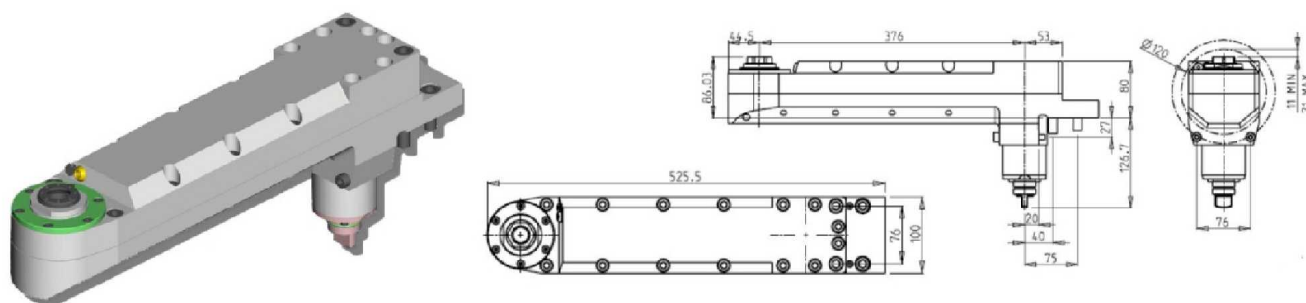


PartNumber	Description	Spindle	I	RPM	Ext Cool	A
M0300016	Radial Single-Side Twin Head ER16	ER16	1:1	6000	X	82.5
M0300025	Radial Single-Side Twin Head ER25	ER25	1:1	6000	X	82.96

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

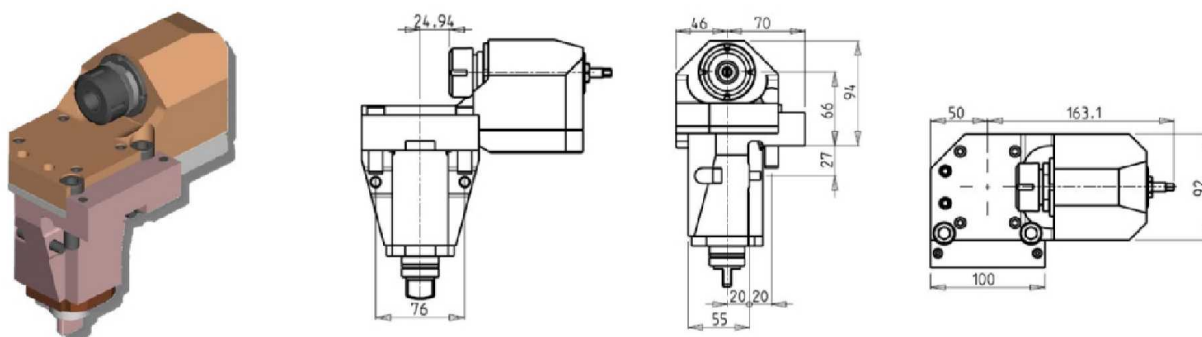
RADIAL SPECIAL DRIVEN TOOL REDIRECTED IN Z BY 376mm



PartNumber	Description	Spindle	I	RPM	Ext Cool
MSL0010132	Radial Redirected ERA32 in Z by 376mm	ERA32	1:1	6000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

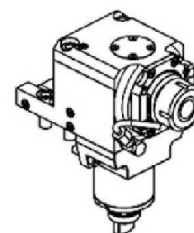
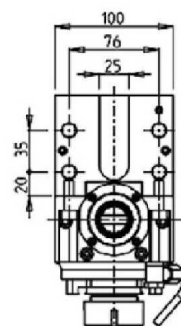
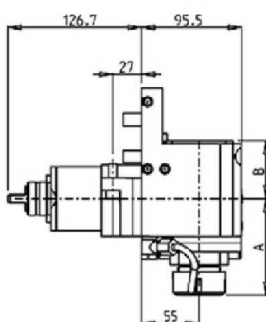
RADIAL SPECIAL DRIVEN TOOL IN Y



PartNumber	Description	Spindle	I	RPM	Ext Cool
M0230025	Radial Special Driven Tool in Y ER25	ER25	1:1	6000	X

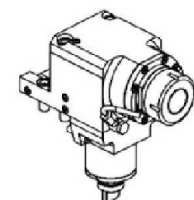
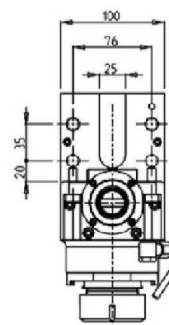
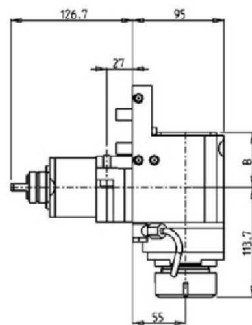
SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

AXIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
MSL0160125	Axial Driven Tool ER25	ER25	1:1	6000		X	88.41	55
MSL0160225	Axial Driven Tool ER25 Cool Thru*	ER25	1:1	6000	X	X	88.41	67.5
MSL0160132	Axial Driven Tool ER32	ER32	1:1	6000		X	91.41	55
MSL0160232	Axial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	91.41	67.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

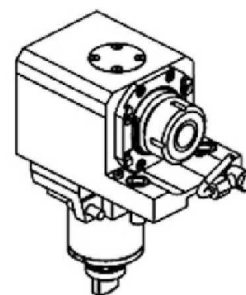
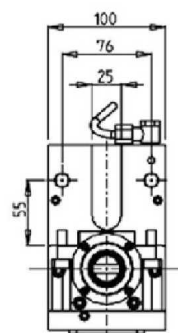
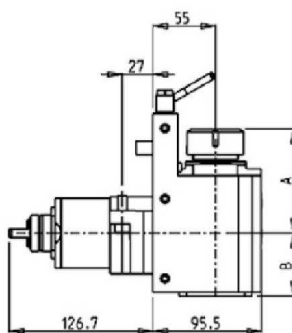
AXIAL REINFORCED DRIVEN TOOL H=55mm

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
MSL0480140	Axial Reinforced ER40	ER40	1:1	6000		X	56.5
MSL0480240	Axial Reinforced ER40 Cool Thru*	ER40	1:1	6000	X	X	69

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

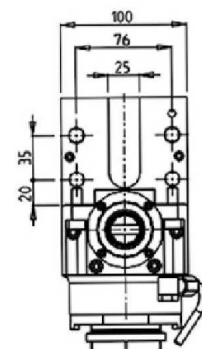
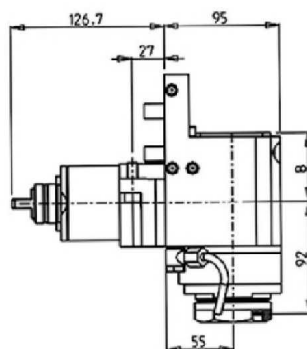
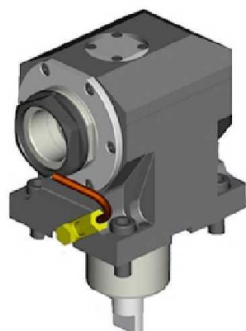
SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

AXIAL DRIVEN TOOL FOR SUBSPINDLE H=55mm

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
MSL0570125	Axial ER25 for Subspindle	ER25	1:1	6000		X	88.41	55
MSL0570225	Axial ER25 for Subspindle Cool Thru*	ER25	1:1	6000	X	X	88.41	67.5
MSL0570132	Axial ER32 for Subspindle	ER32	1:1	6000		X	91.41	55
MSL0570232	Axial ER32 for Subspindle Cool Thru*	ER32	1:1	6000	X	X	91.41	67.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

QUICK CHANGE AXIAL MTSK-50 DRIVEN TOOL*Please see Accessories for MTSK Clamping Units*

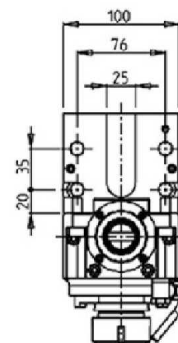
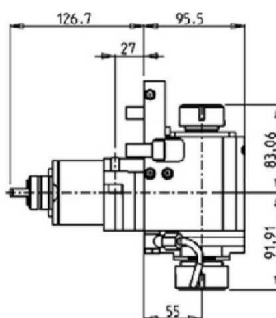
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
MSL0370150	Axial MTSK-50	MTSK-50	1:1	6000		X	56.5
MSL0370250	Axial MTSK-50 Cool Thru*	MTSK-50	1:1	6000	X	X	69

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

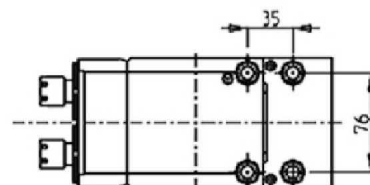
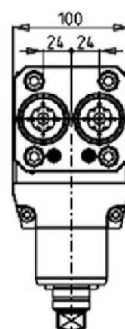
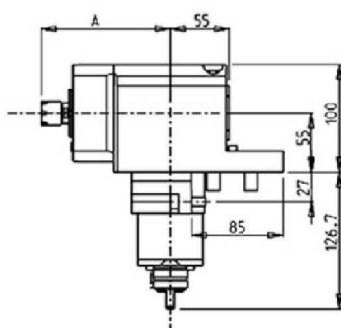
AXIAL OPPOSITE FACE TWIN DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
MSL0173225	Axial Opposite Face ER32+ER25	ER32+ER25	1:1	6000	X

SL2500Y

AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

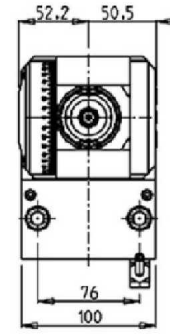
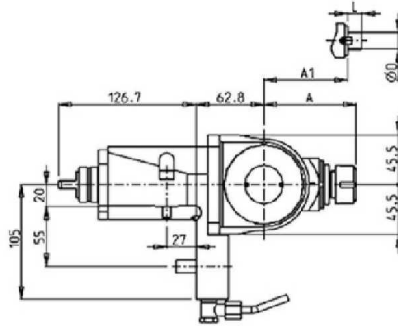


PartNumber	Description	Spindle	I	RPM	Ext Cool	A
MSL0180216	Axial Single Side Twin ER16 in Y	ER16	1:1	6000	X	120
MSL0180225	Axial Single Side Twin ER25 in Y	ER25	1:1	6000	X	121

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

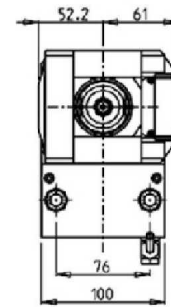
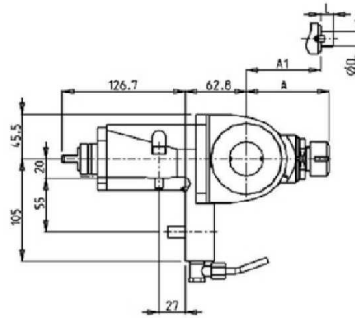
0-180 ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1	D	L
MSL0230120	0-180 Adj. Angle ER20	ER20	1:1	6000	X	85.16			
MSL0230125	0-180 Adj. Angle ER25	ER25	1:1	6000	X	86.16			
MSL0230519	0-180 Adj. Angle 3/4"x3/4"	3/4"x3/4"	1:1	6000	X		65	3/4"	3/4"
MSL0230516	0-180 Adj. Angle 16x17mm	16x17	1:1	6000	X		65	16	17
MSL0230522	0-180 Adj. Angle 22x19mm	22x19	1:1	6000	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY



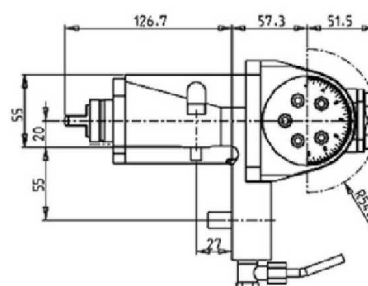
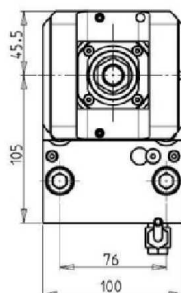
PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1	D	L
MSL0190120	0-180 Adj. Angle ER20 with Digital Display	ER20	1:1	6000	X	85.16			
MSL0190125	0-180 Adj. Angle ER25 with Digital Display	ER25	1:1	6000	X	86.16			
MSL0190519	0-180 Adj. Angle 3/4"x3/4" with Digital Display	3/4"x3/4"	1:1	6000	X		65	3/4"	3/4"
MSL0190516	0-180 Adj. Angle 16x17mm with Digital Display	16x17	1:1	6000	X		65	16	17
MSL0190522	0-180 Adj. Angle 22x19mm with Digital Display	22x19	1:1	6000	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

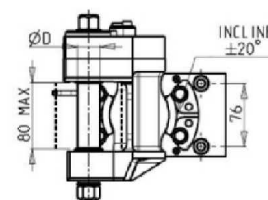
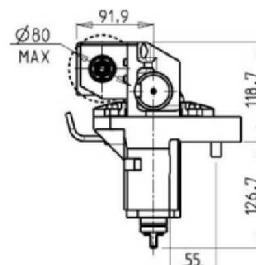
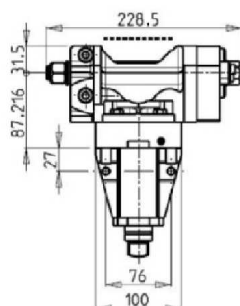
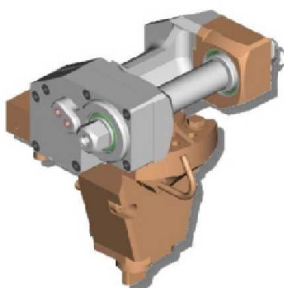
0-180 ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
M0220020	Adj. Angle (0-180) ERA20	ERA20	1:1	6000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN GEAR HOBBER



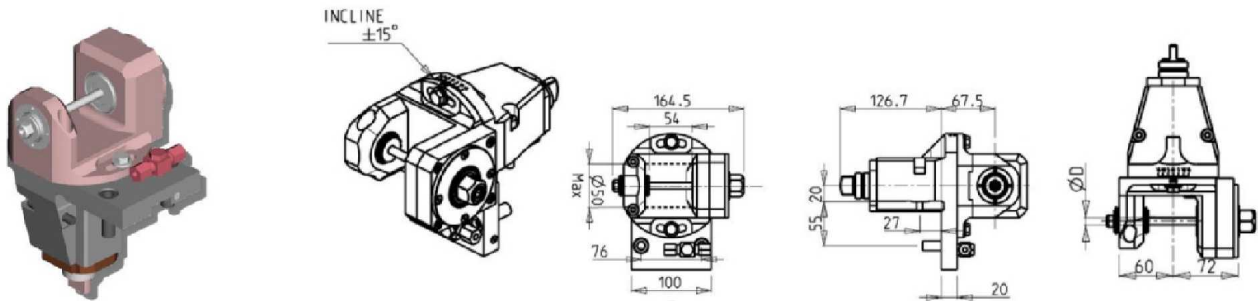
PartNumber	Description	I	RPM	Ext Cool	D mm	D Inch
M0081100	Gear Hobbing Tool 1:1	1:1	6000	X	16-22-27-32	3/4"-1"-1 1/4"
M0082100	Gear Hobbing Tool 1:2 Geared Down	2:1	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

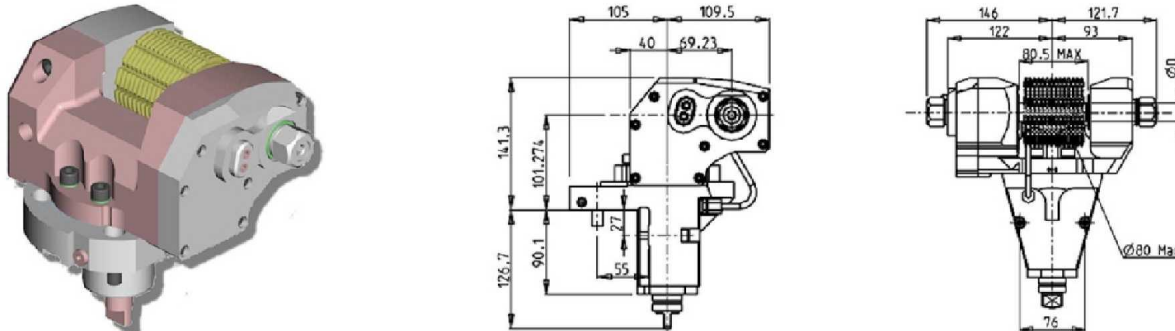
GEAR HOBBER - RADIAL DRIVEN



PartNumber	Description	I	RPM	Ext Cool	D mm
M0311108	Gear Hobber - Radial Driven D=8	1:1	6000	X	8
M0311110	Gear Hobber - Radial Driven D=10	1:1	6000	X	10
M0311113	Gear Hobber - Radial Driven D=13	1:1	6000	X	13
M0311116	Gear Hobber - Radial Driven D=16	1:1	6000	X	16

Note : Wrenches are provided with the purchase of Specialty Toolholders

REINFORCED DRIVEN GEAR HOBBER



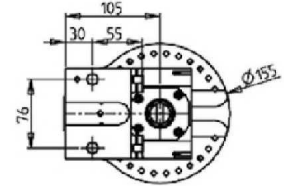
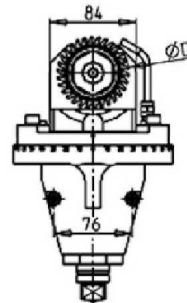
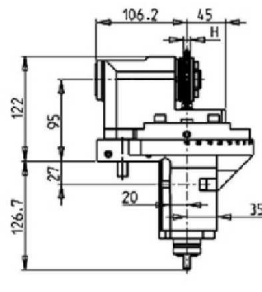
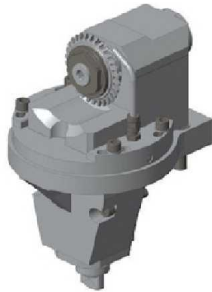
PartNumber	Description	I	MAX RPM	Ext Cool	D (mm)	D (Inch)
MSL0381100	Reinforced Gear Hobber 1:1	1:1	6000	X	16-22-27-32	3/4"-1"-1 1/4"
MSL0382100	Reinforced Gear Hobber 2:1 Geared-Down	2:1	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

SL-DL-ZL DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

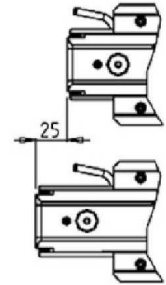
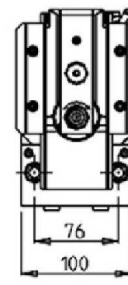
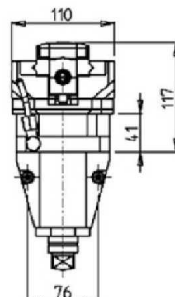
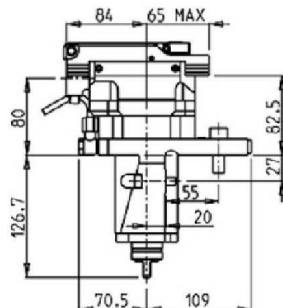
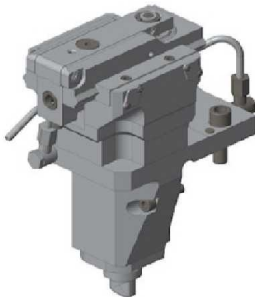
DRIVEN TOOL FOR WORM SCREWS



PartNumber	Description	Spindle	I	RPM	Ext Cool	ØD	H
MSL0428022	Driven Tool for Worm Screws Ø22x12	Ø22x12	1:1	6000	X	63-70-80	MAX 12

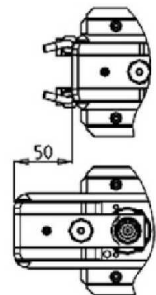
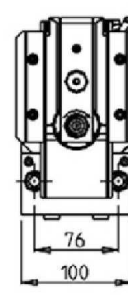
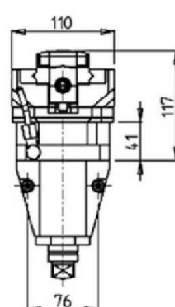
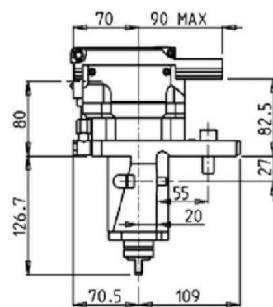
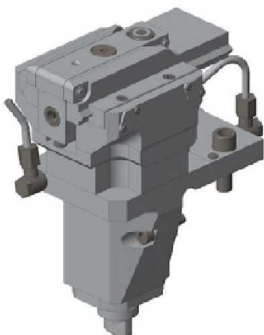
Note : Wrenches are provided with the purchase of Specialty Toolholders

BROACHING/SLOTING DRIVEN TOOL 25mm STROKE H=80mm



PartNumber	Description	I	MAX RPM	Ext Cool
MSL0460200	Broaching/Slotting Driven Tool 25mm Stroke	4:1	2400	X

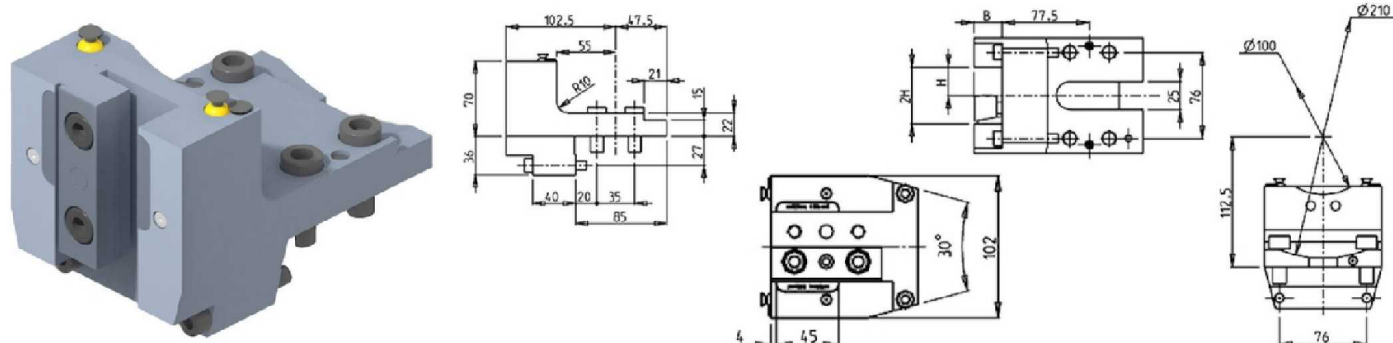
BROACHING/SLOTING DRIVEN TOOL 50mm STROKE H=80mm



PartNumber	Description	I	MAX RPM	Ext Cool
MSL0460100	Broaching/Slotting Driven Tool 50mm Stroke	4:1	2000	X

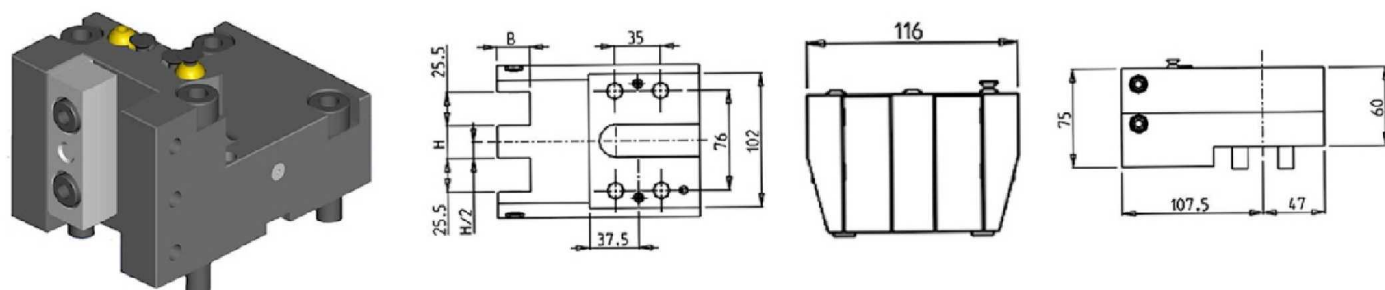
SL-DL-ZL STATIC

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

RADIAL SINGLE STATIC TOOL

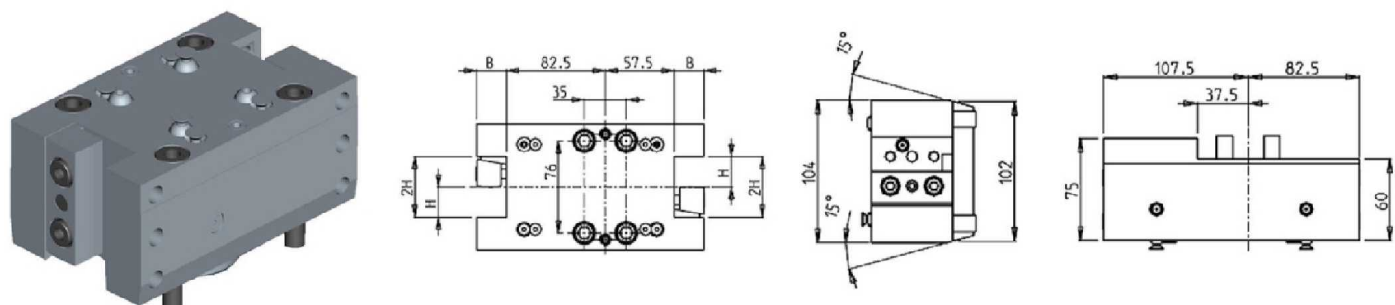
PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	B	H
MSL0652500	Radial Single Static Tool Ø25mm	1	X	X	mm	25	25

SL2500Y

RADIAL SINGLE SIDE TWIN STATIC TOOL

PartNumber	Description	Dimensions	H	B
MSL0342500	Radial Single Side Twin Static 25mm	mm	25	25

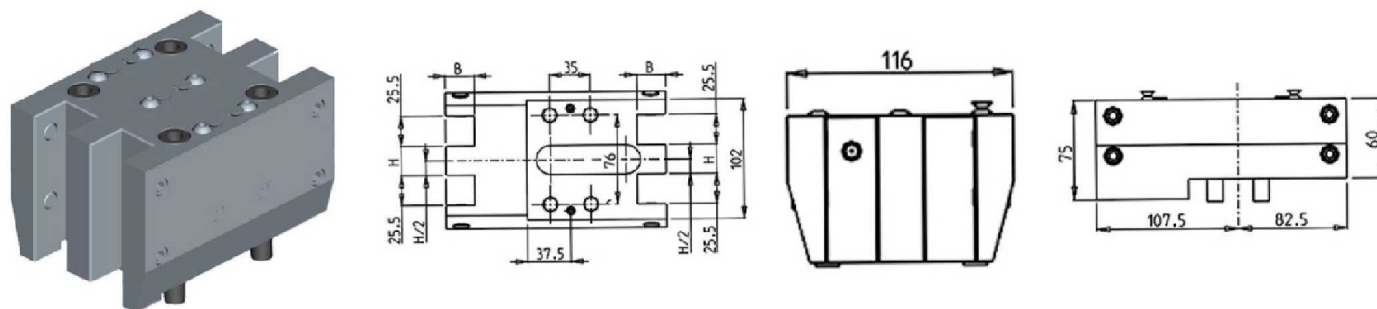
SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

RADIAL DOUBLE STATIC TOOL

PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	B	H
MSL0392540	Radial Double Static Tool 1"	2		X	Inch	1"	1"
MSL0392500	Radial Double Static Tool 25mm	2		X	mm	25	25
MSL0392510	Radial Double Static Tool 25mm Cool Thru*	2	X	X	mm	25	25

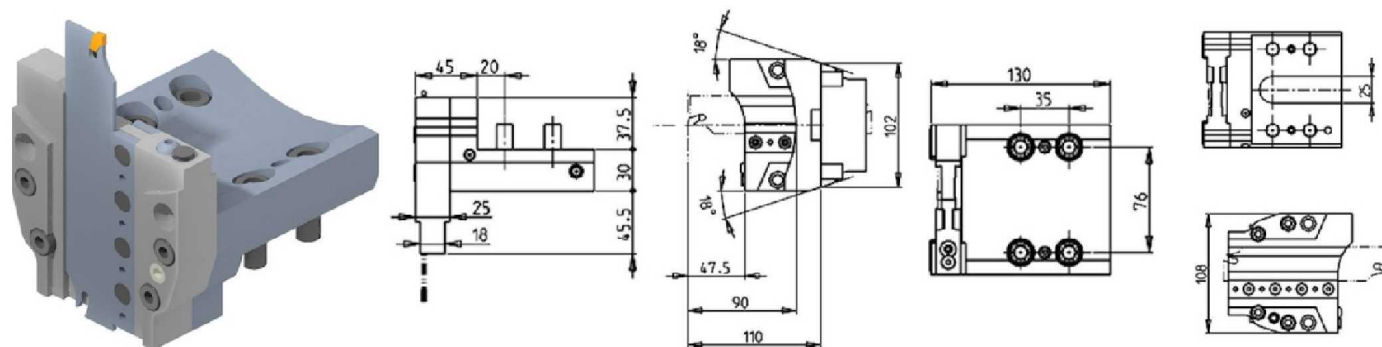
SL-DL-ZL STATIC

SL2500YS

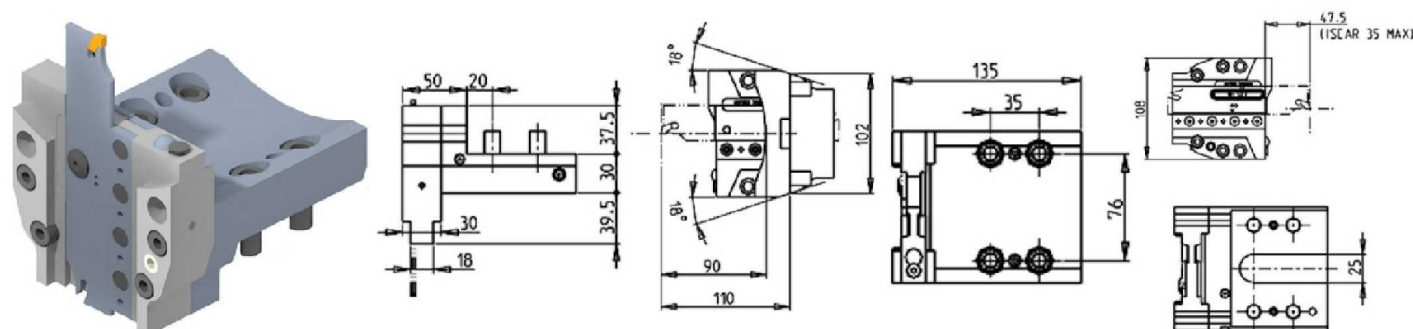
RADIAL DOUBLE SIDE TWIN STATIC TOOL

PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	H	B
MSL0332500	Radial Double Side Twin Static 25mm	4		X	mm	25	25
MSL0332510	Radial Double Side Twin Static 25mm Cool Thru	4	X	X	mm	25	25

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

RADIAL DOUBLE BLADE HOLDER WITH BLADE KIT

PartNumber	Description	# of Tools	Ext Cool
MSL0530132	Radial Double Blade Holder with Blade Kit	1	X
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts		

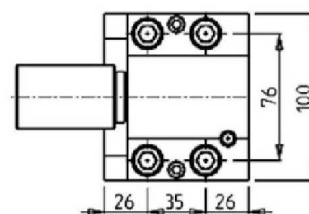
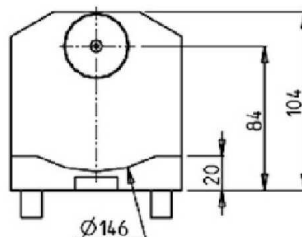
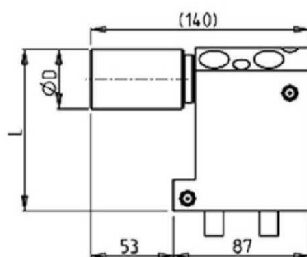
RADIAL DOUBLE BLADE HOLDER WITH INTERNAL COOLANT - BLADE KIT NOT INCLUDED

PartNumber	Description	# of Tools	Ext Cool	Cool Thru
MSL0540132	Radial Double Blade Holder Cool Thru	1	X	X
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts			

SL-DL-ZL STATIC

SL-ZL200/203/204/250/253/254 SMC - SL2500Y

TAILSTOCK FOR SUBSPINDLE

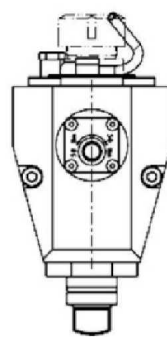
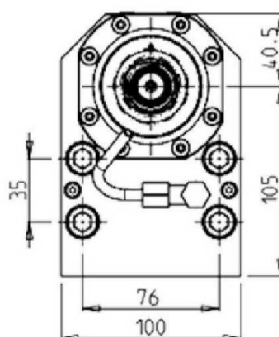
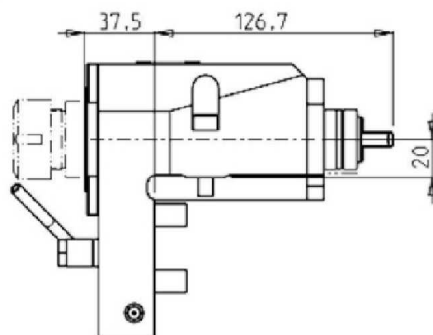
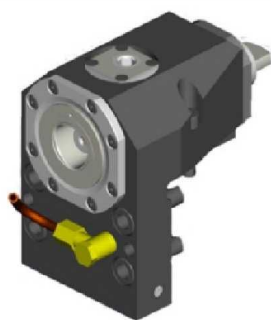


PartNumber	Description	# of Tools	D	L
MSL0280100L	Tailstock for Subspindle 2"	1	2"	109.4
MSL0280100	Tailstock for Subspindle 38mm	1	38	103

SL-DL-ZL CAPTO DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

RADIAL DRIVEN TOOL COROMANT CAPTO



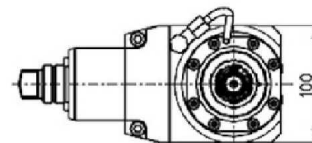
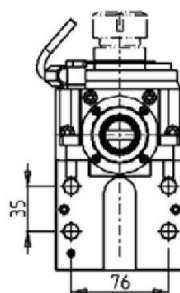
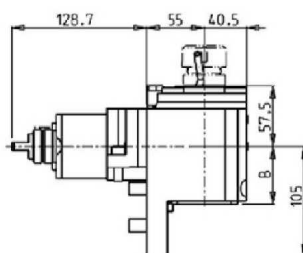
PartNumber	Description	Capto Size	I	RPM	Cool Thru	Ext Cool
MSL0060140	C4 Radial Coromant Capto	C4	1:1	6000		X
MSL0060240	C4 Radial Coromant Capto Cool Thru*	C4	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL-DL-ZL CAPTO DRIVEN

SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

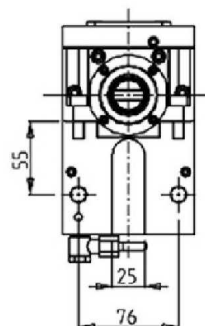
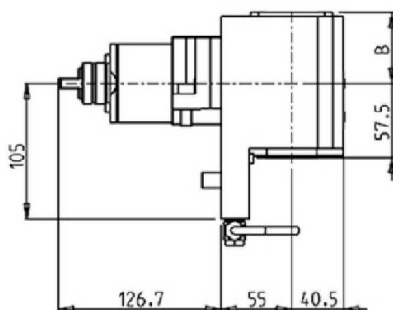
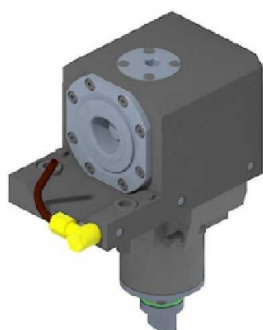
AXIAL DRIVEN TOOL COROMANT CAPTO



PartNumber	Description	Size	I	RPM	Cool Thru	Ext Cool	B
MSL0050140	Axial C4 Capto	C4	1:1	6000		X	55
MSL0050240	Axial C4 Capto Cool Thru*	C4	1:1	6000	X	X	67.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL DRIVEN TOOL COROMANT CAPTO FOR SUBSPINDLE



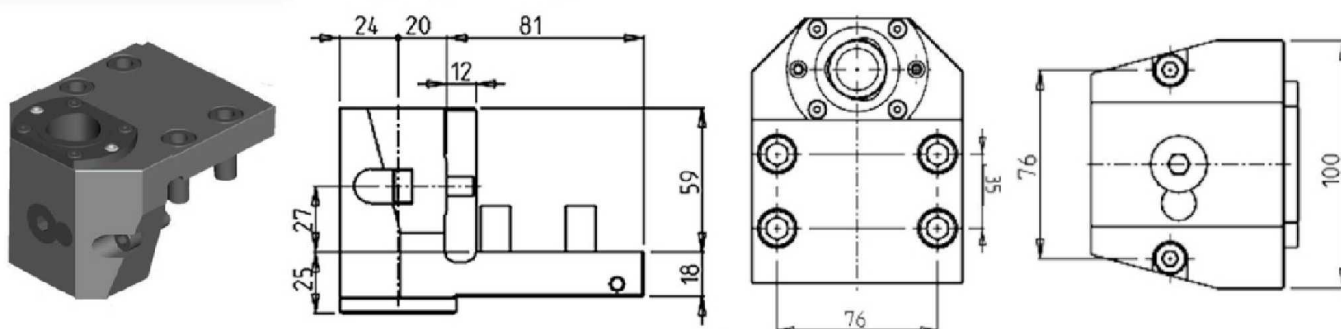
PartNumber	Description	Size	I	RPM	Cool Thru	Ext Cool	B
MSL0590140	Axial C4 Capto for Subspindle	C4	1:1	6000		X	55
MSL0590240	Axial C4 Capto for Subspindle Cool Thru*	C4	1:1	6000	X	X	67.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

SL-DL-ZL CAPTO STATIC

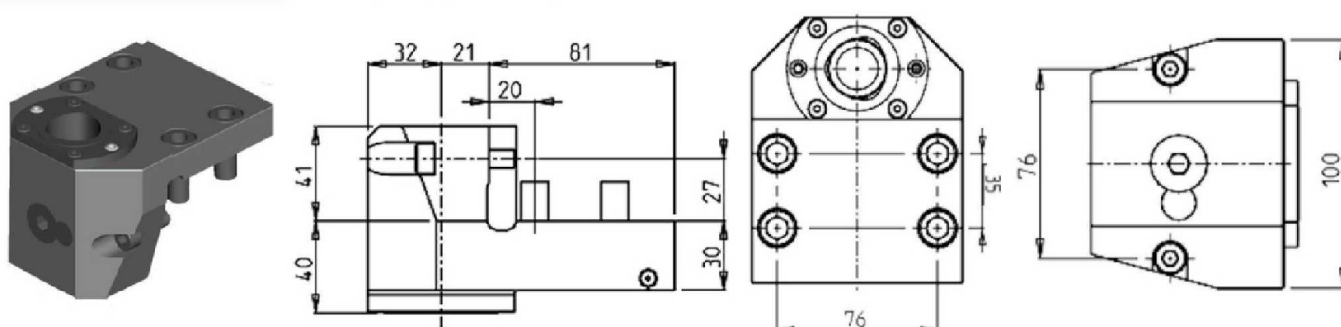
SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

RADIAL SINGLE REAR-SET STATIC TOOL CAPTO C4



PartNumber	Description	# of Tools	Cool Thru	Capto Size
MSL0044010	Radial Single Rear-Set Capto C4 Right Version	1	X	C4
MSL0044010LC	Radial Single Rear-Set Capto C4 Left Version	1	X	C4

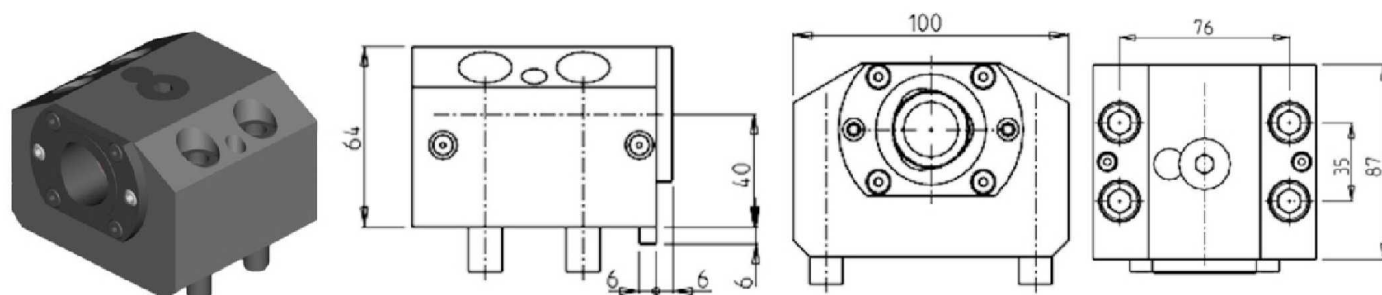
RADIAL SINGLE REAR-SET STATIC TOOL CAPTO C5



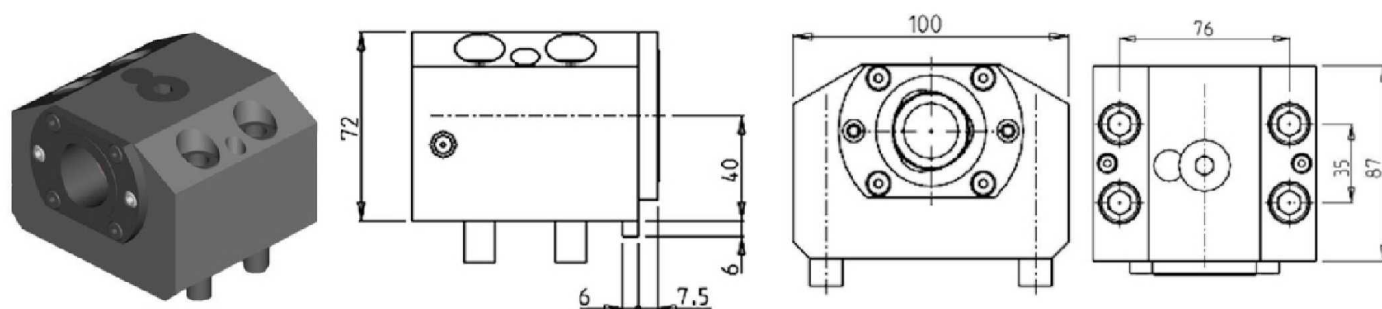
PartNumber	Description	# of Tools	Cool Thru	Capto Size
MSL0045010	Radial Single Rear-Set Capto C5 Right Version	1	X	C5
MSL0045010LC	Radial Single Rear-Set Capto C5 Left Version	1	X	C5

SL-DL-ZL CAPTO STATIC

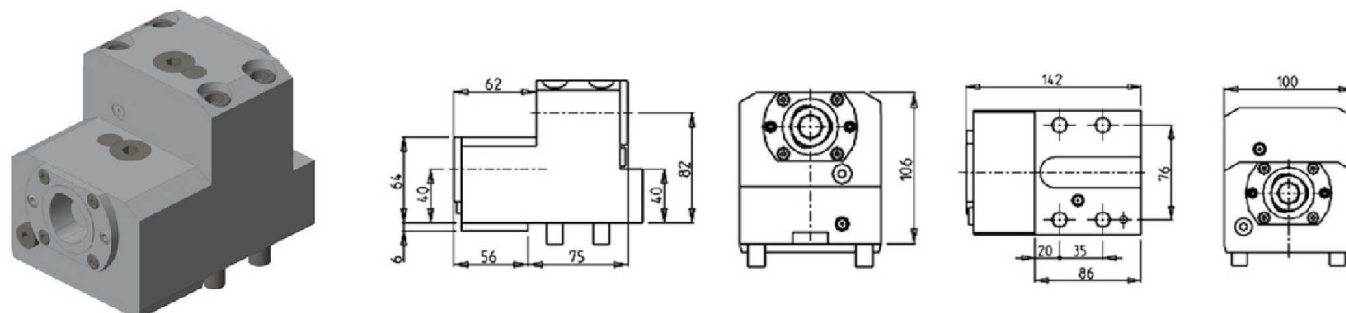
SL-ZL200/203/204/250/253/254 (MC-SMC) - SL2500Y - DL-ZL200/250 (MC)

AXIAL SINGLE STATIC TOOL CAPTO C4

PartNumber	Description	# of Tools	Cool Thru	Capto Size
MSL0034010	Axial Single Static Capto C4 Right Version	1	X	C4
MSL0034010LC	Axial Single Static Capto C4 Left Version	1	X	C4

AXIAL SINGLE STATIC TOOL CAPTO C5

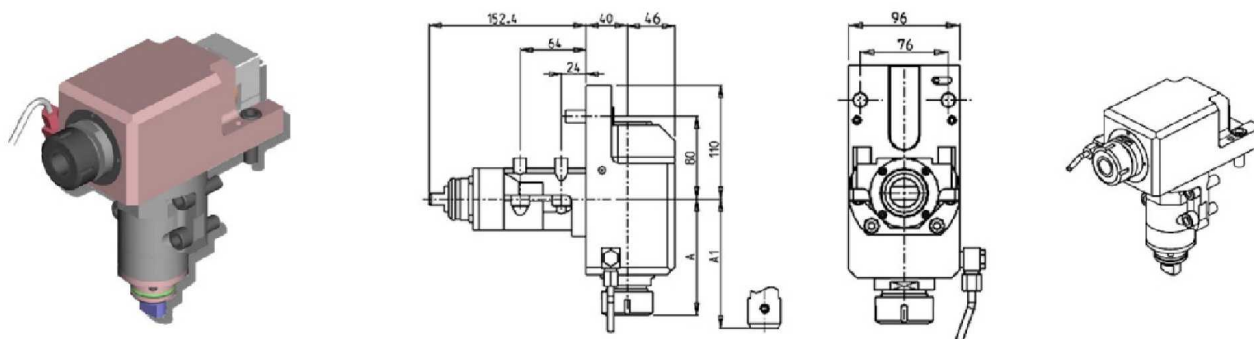
PartNumber	Description	# of Tools	Cool Thru	Capto Size
MSL0035010	Axial Single Static Capto C5 Right Version	1	X	C5
MSL0035010LC	Axial Single Static Capto C5 Left Version	1	X	C5

AXIAL OPPOSITE FACE TWIN STATIC TOOL CAPTO C4

PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Capto Size
MSL0564020	Axial Opposite Face Twin Static Tool C4 Right Version	1+1	X	X	C4
MSL0564020LC	Axial Opposite Face Twin Static Tool C4 Left Version	1+1	X	X	C4

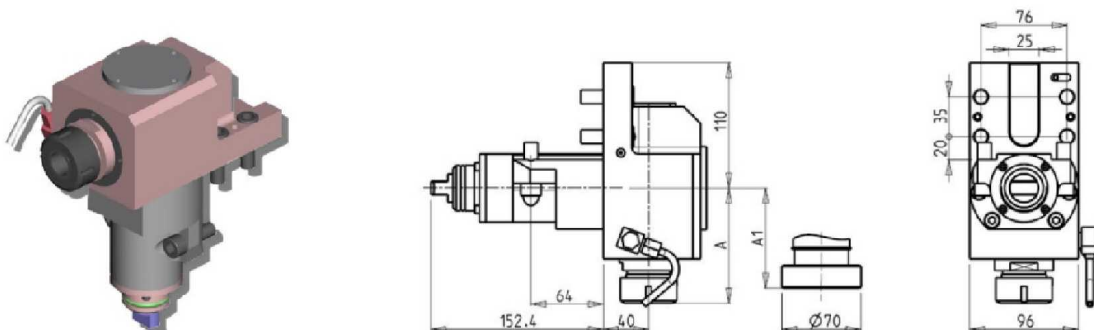
SL-DL-ZL DRIVEN

SL300/303

AXIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1
M0290232	Axial ER32	ER32	1:1	6000		X	112.16	
M0290132	Axial ER32 Cool Thru*	ER32	1:1	6000	X	X	112.16	
M0290140	Axial ER40 Cool Thru*	ER40	1:1	6000	X	X	115.16	
M0290332	Axial Weldon 32 Cool Thru*	Weldon 32	1:1	6000	X	X		131.5

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

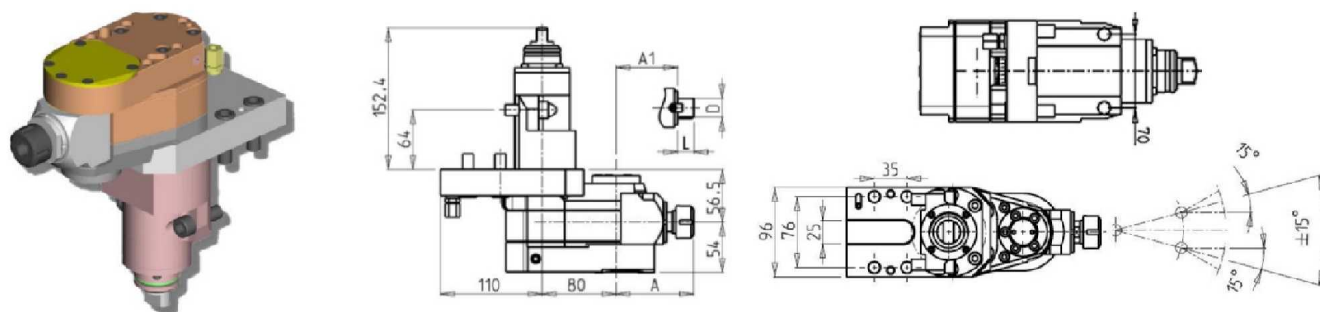
GEARED-DOWN AXIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1
M0100832	Axial ER32 Geared-Down	ER32	2:1	3000	X	101.16	
M0100470	Axial Geared-Down 70mm Mill Head	Ø70	2:1	3000	X		98.5

SL-DL-ZL DRIVEN

SL300/303

ADJUSTABLE ANGLE +/- 15° Y AXIS DRIVEN TOOL

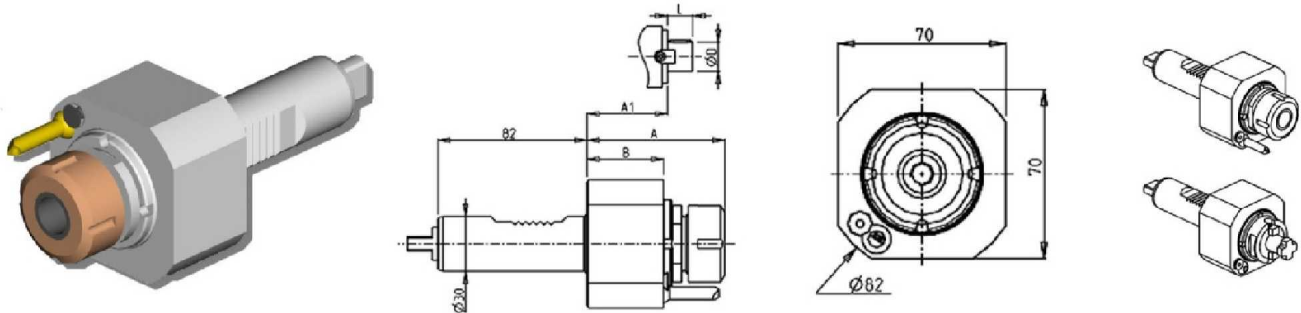


PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1	D	L
M0110020	Axial Y-Axis Adj. Angle +/- 15° ER20	ER20	1:1	6000	X	84.16			
M0110025	Axial Y-Axis Adj. Angle +/- 15° ER25	ER25	1:1	6000	X	85.66			
M0111617	Axial Y-Axis Adj. Angle +/- 15° Mill Arbor 16x17mm	16x17	1:1	6000	X		65	16	17

Note : Wrenches are provided with the purchase of Specialty Toolholders

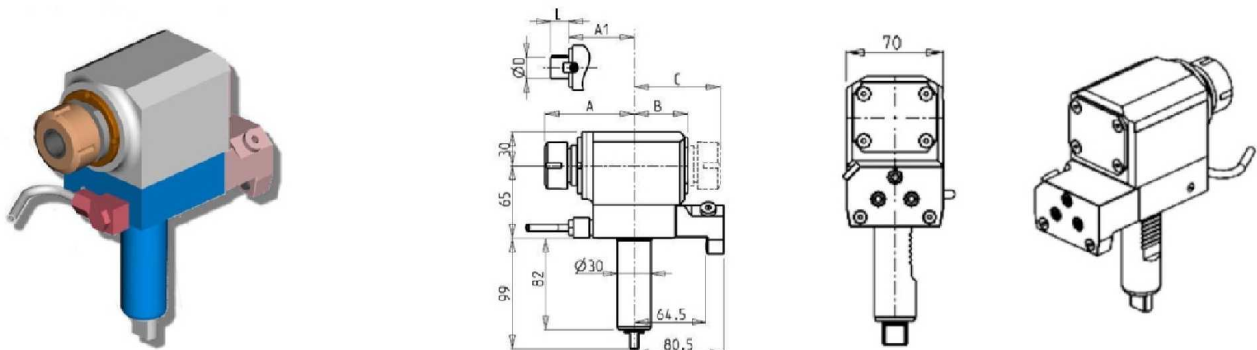
ZT DRIVEN

ZT1000/1500 12/16 STATION

RADIAL DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
M0150120	Radial ER20	ER20	1:1	6000		X	76.66		42		
M0150125	Radial ER25	ER25	1:1	6000		X	76.16		42		
M0151125	Radial ER25 Cool Thru*	ER25	1:1	6000	X	X	95.66		62		
M0151617	Radial Mill Head 16x17mm	16x17	1:1	6000		X		61	42	16	17
M0152219	Radial Mill Head 22x19mm	22x19	1:1	6000		X		59	42	22	19

*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

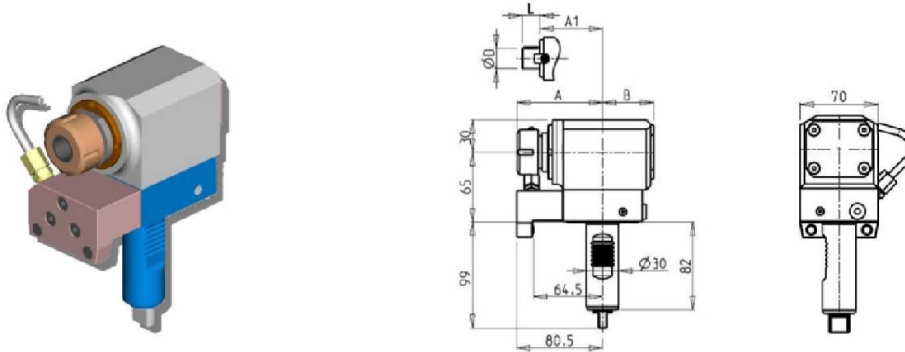
AXIAL DRIVEN TOOL

PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	C	D	L
M0121425	Axial ER25	T32406	ER25	1:1	6000		X	80.16		48			
M0121525	Axial ER25 Cool Thru*	T32415	ER25	1:1	6000	X	X	80.16		59			
M0132525	Axial Double Outlet ER25+ER25	T32408	ER25+ER25	1:1	6000		X	80.16			73.66		
M0121617	Axial Mill Head 16x17mm		16x17	1:1	6000		X		63	48		16	17
M0122219	Axial Mill Head 22x19mm		22x19	1:1	6000		X		63	48		22	19
M0122721	Axial Mill Head 27x21mm		27x21	1:1	6000		X		65.5	48		27	21

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

ZT DRIVEN

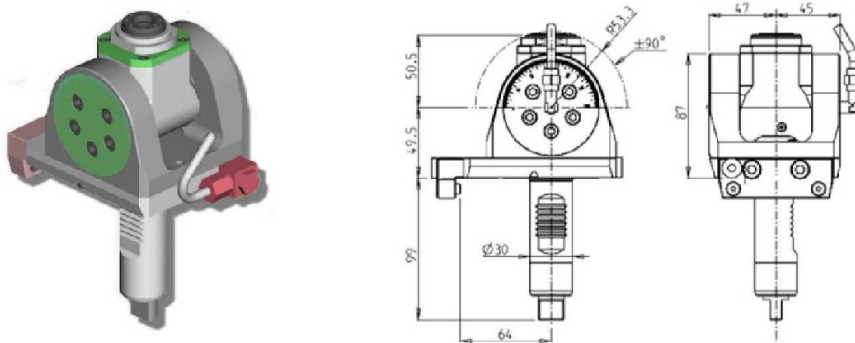
ZT1000/1500 12/16 STATION

AXIAL DRIVEN TOOL SUB SPINDLE SIDE

PartNumber	Description	Mori Ref	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
M0141425	Axial Driven Tool for Sub-Spindle ER25	T32407	ER25	1:1	6000		X	80.16		48		
M0141525	Axial Sub Spindle Mill Head ER25 Cool Thru*		ER25	1:1	6000	X	X	80.16		59		
M0141617	Axial Sub Spindle Mill Head 16x17mm		16x17	1:1	6000		X		63	48	16	17
M0142219	Axial Sub Spindle Mill Head 22x19mm		22x19	1:1	6000		X		63	48	22	19
M0142721	Axial Sub Spindle Mill Head 27x21mm		27x21	1:1	6000		X		65.5	48	27	21

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

ZT1000/1500 12 STATION

0-180 ADJUSTABLE ANGLE DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MZT0050120	Adj. Angle (0-180) ERA20	ERA20	1:1	6000		X
MZT0050220	Adj. Angle (0-180) ERA20 Cool Thru*	ERA20	1:1	6000	X	X

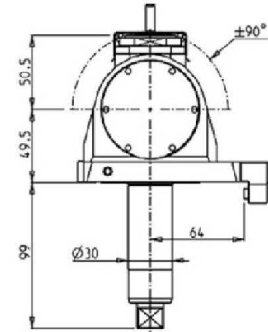
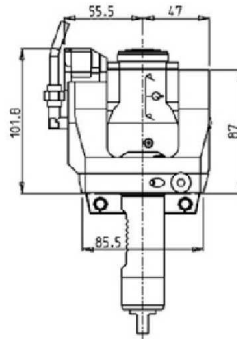
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

ZT DRIVEN

ZT1000/1500 12 STATION

0-180 ADJUSTABLE ANGLE DRIVEN TOOL WITH DIGITAL DISPLAY

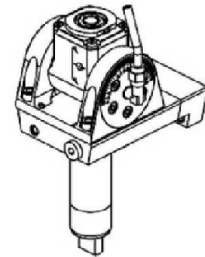
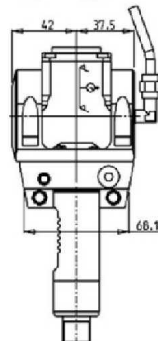
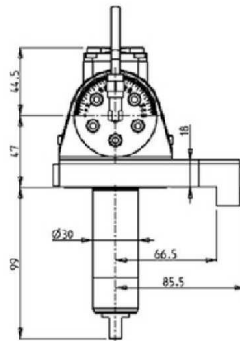
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MZT0055120	0-180 Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
MZT0055220	0-180 Adj. Angle ERA20 with Digital Display Cool Thru*	ERA20	1:1	6000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

ZT1000/1500 12/16 STATION

0-180 ADJUSTABLE ANGLE DRIVEN TOOL

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MZT0040116	Adj. Angle (0-180) ERA16	ERA16	1:1	6000		X
MZT0040216	Adj. Angle (0-180) ERA16 Cool Thru*	ERA16	1:1	6000	X	X

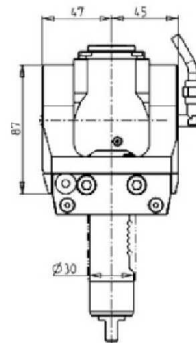
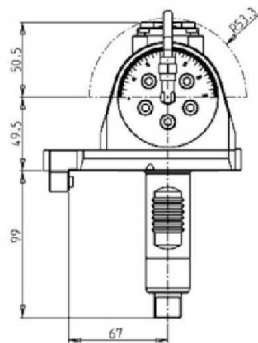
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

ZT DRIVEN

ZT1000/1500 12 STATION

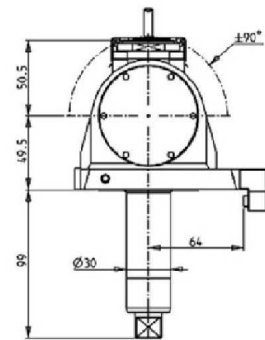
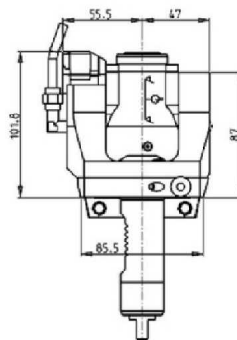
0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MZT0050316	Adj. Angle (0-180) ERA16	ERA16	1:2	12000		X
MZT0050416	Adj. Angle (0-180) ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

Note :

Wrenches are provided with the purchase of Specialty Toolholders

0-180 ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 WITH DIGITAL DISPLAY

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MZT0055316	0-180 Adj. Angle ERA16 Geared-Up with Digital Display	ERA16	1:2	12000		X
MZT0055416	0-180 Adj. Angle ERA16 Geared-Up with Digital Display Cool Thru*	ERA16	1:2	12000	X	X

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

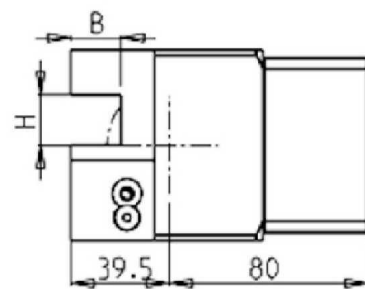
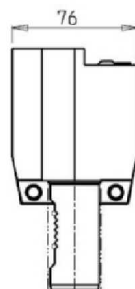
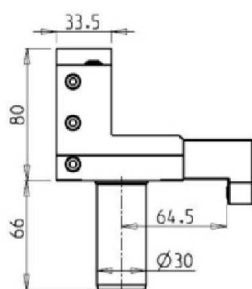
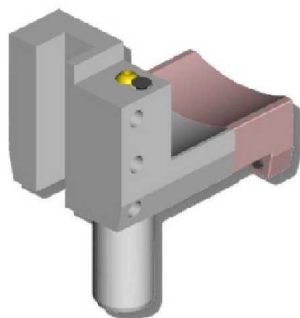
Note :

Wrenches are provided with the purchase of Specialty Toolholders

ZT STATIC

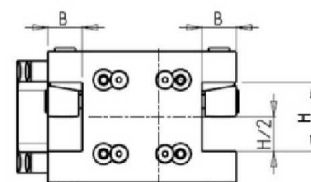
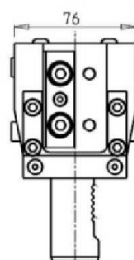
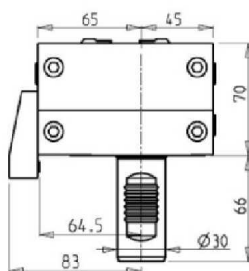
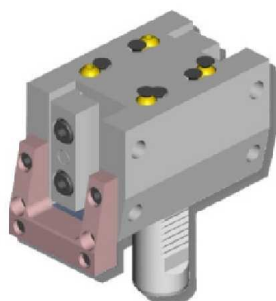
ZT1000/1500 12/16 STATION

RADIAL SINGLE STATIC TOOL



PartNumber	Description	Mori Ref	# of Tools	Dimension	B	H
M0191905	Radial Static Tool 3/4"		1	Inch	3/4"	3/4"
M0192000	Radial Static Tool 20mm	T00336	1	mm	20	20

RADIAL DOUBLE STATIC TOOL

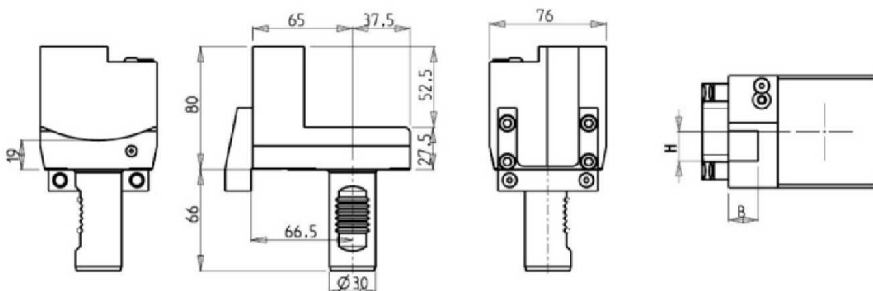
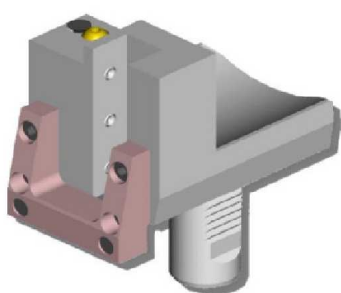


PartNumber	Description	Mori Ref	# of Tools	Dimension	B	H
M0171905	Radial Double Static Tool 3/4"		2/4	Inch	3/4"	3/4"
M0172000	Radial Double Static Tool 20mm	T00331	2/4	mm	20	20

ZT STATIC

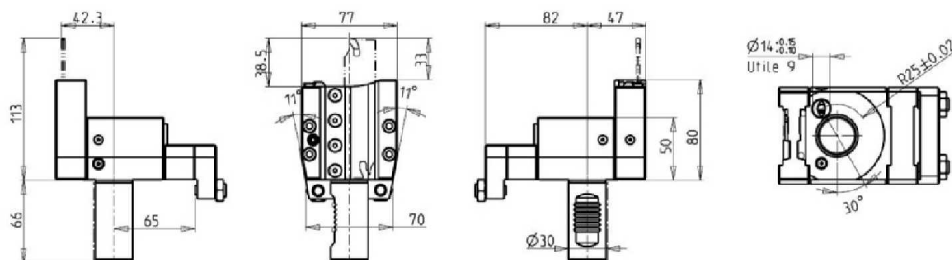
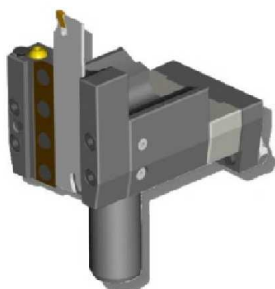
ZT1000/1500 12/16 STATION

RADIAL SINGLE STATIC TOOL SUB SPINDLE SIDE



PartNumber	Description	# of Tools	Dimension	B	H
M0190119	Radial Static Tool SubSpindle 3/4"	1	Inch	3/4"	3/4"
M0190120	Radial Static Tool SubSpindle 20mm	1	mm	20	20

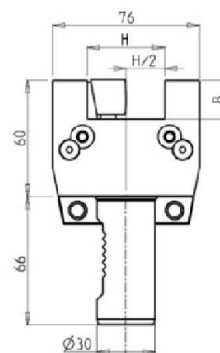
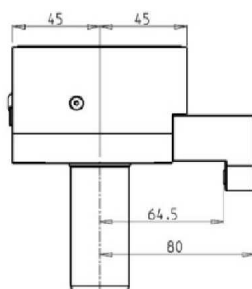
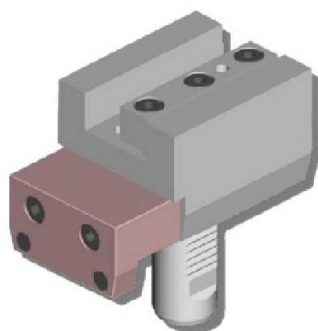
RADIAL DOUBLE BLADE HOLDER WITH BLADE KIT



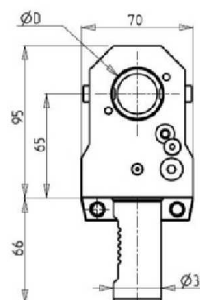
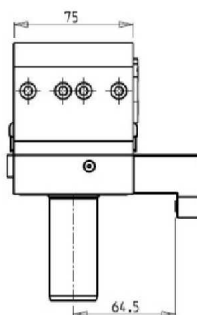
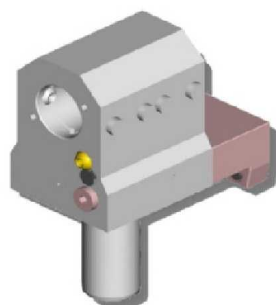
PartNumber	Description	# of Tools
MZT0030126	Double Blade Holder with Blade Kit	1
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts	

ZT STATIC

ZT1000/1500 12/16 STATION

AXIAL SINGLE STATIC TOOL

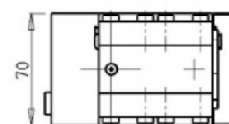
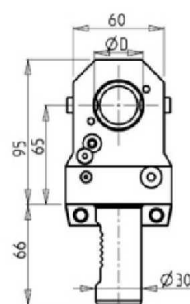
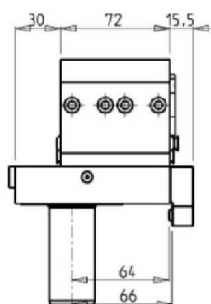
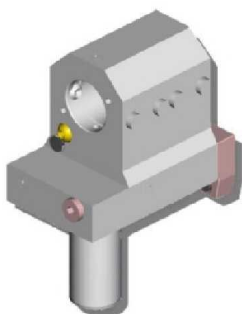
PartNumber	Description	Mori Ref	# of Tools	Dimension	B	H
M0201905	Axial Static Tool 3/4"		1	Inch	3/4"	3/4"
M0202000	Axial Static Tool 20mm	T03113	1	mm	20	20

AXIAL SINGLE BORING BAR HOLDER H=65mm

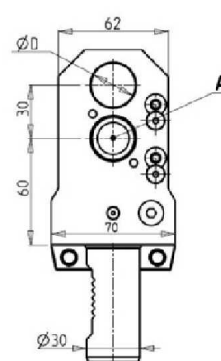
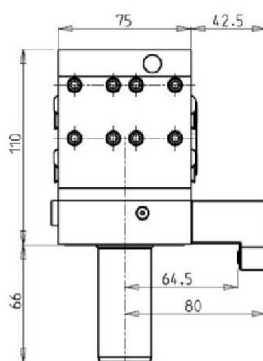
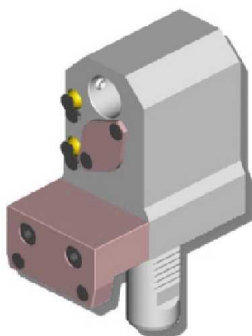
PartNumber	Description	Mori Ref	# of Tools	Cool Thru	Ext Cool	Dimension	D
M0163175	Axial Boring Bar Holder 1-1/4"		1	X	X	Inch	1 1/4"
M0163200	Axial Boring Bar Holder 32mm	T15003	1	X	X	mm	32
M0164000	Axial Boring Bar Holder 40mm		1	X	X	mm	40
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*						
KIT1000003	40mm Plug & Seal to make BBH Cool Thru*						

ZT STATIC

ZT1000/1500 12/16 STATION

REAR SET BORING BAR HOLDER ON MAIN SPINDLE SIDE, EXTENDED ON SUBSPINDLE SIDE

PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimension	D
MZT0023175	Boring Bar Holder Rear-Set: 1 1/4"	1	X	X	Inch	1 1/4"
MZT0023200	Boring Bar Holder Rear-Set: 32mm	1	X	X	mm	32
KIT1000001	32mm or 1-1/4" Plug to make BBH Cool Thru*					

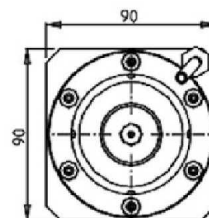
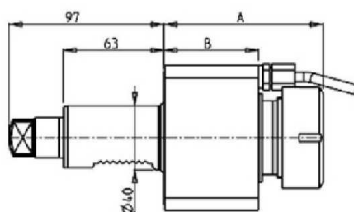
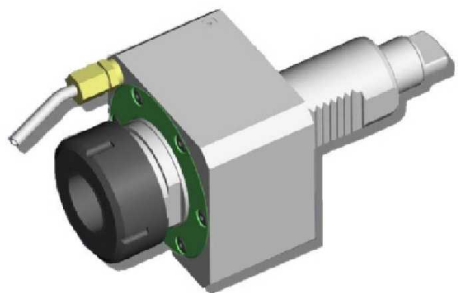
AXIAL DOUBLE BORING BAR HOLDER

PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimension	D
M0212540	Double Boring Bar Holder 1"	2	Option A Only	X	Inch	1"
M0212500	Axial Double Boring Bar Holder 25mm	2	Option A Only	X	mm	25
KIT1000006	25mm or 1" Plug to make BBH Cool Thru*					

ZT DRIVEN

MT2000/2500 - ZT2500

RADIAL DRIVEN TOOL

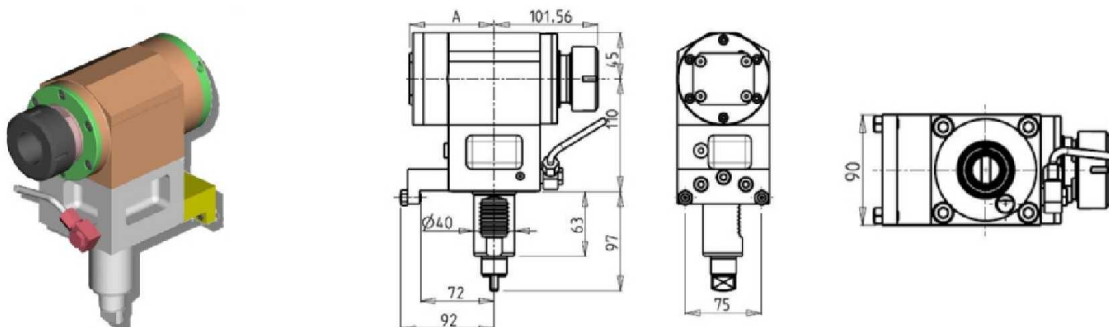


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
MMT0020140	Radial ER40	ER40	1:1	6000		X	99.66	59
MMT0020240	Radial ER40 Cool Thru*	ER40	1:1	6000	X	X	112.66	72

*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

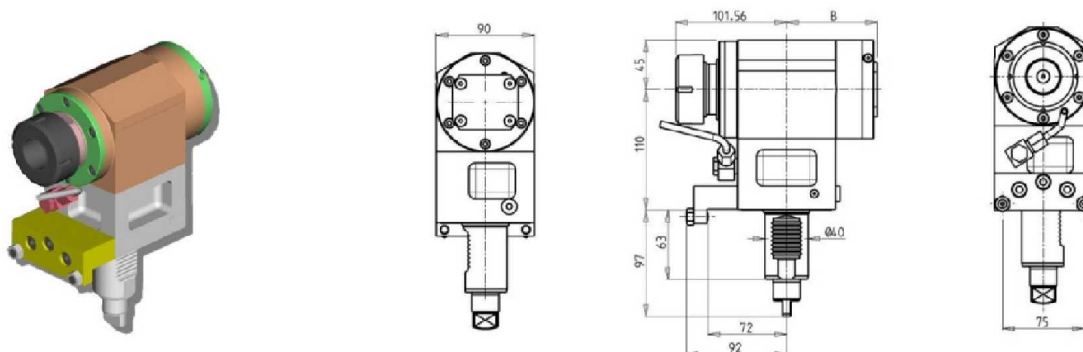
ZT DRIVEN

MT2000/2500 - ZT2500

AXIAL DRIVEN TOOL - MAIN SPINDLE

PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MMT0010140	Axial ER40 Main Spindle	ER40	1:1	6000		X	82.95
MMT0010340	Axial ER40 Main Spindle Cool Thru*	ER40	1:1	6000	X	X	93.95

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

AXIAL DRIVEN TOOL - SUB SPINDLE SIDE

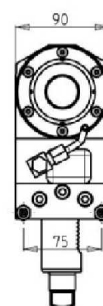
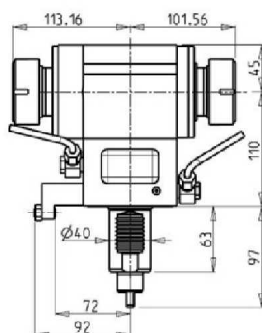
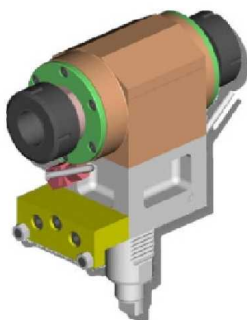
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MMT0011040	Axial ER40 Sub Spindle	ER40	1:1	6000		X	82.95
MMT0011140	Axial ER40 Sub Spindle Cool Thru*	ER40	1:1	6000	X	X	93.95

* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

ZT DRIVEN

MT2000/2500 - ZT2500

OPPOSITE FACE AXIAL DRIVEN TOOL

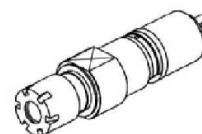
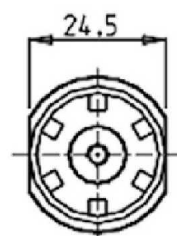
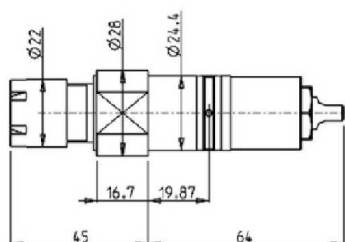
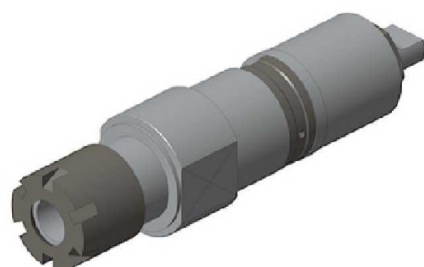


PartNumber	Description	Spindle	I	RPM	Ext Cool
MMT0010240	Axial ER40+ER40 Main/Sub Spindle	ER40+ER40	1:1	6000	X

SPRINT DRIVEN

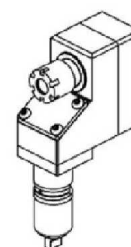
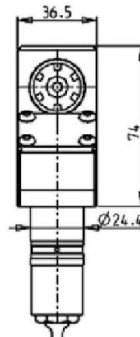
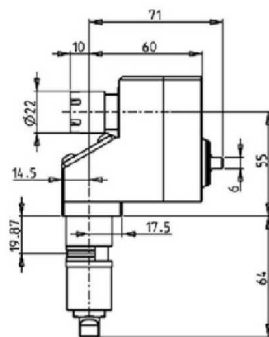
SPRINT 20/5 - SPRINT 20/8

RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
SPC1621000	Radial Driven Tool ER16	ER16	1:1	6000	X

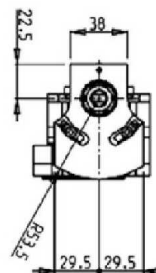
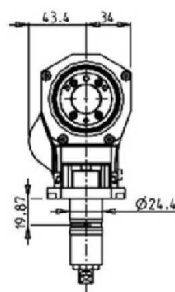
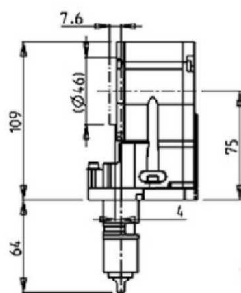
AXIAL REAR-SET DRIVEN TOOL - ONLY FOR MAIN SPINDLE



PartNumber	Description	Spindle	I	RPM	Ext Cool
SPC0891000	Axial Rear-Set Driven Tool ER16	ER16	1:1	6000	X

SPRINT 20/8

DRIVEN WHIRLING TOOL GEARED-DOWN 2:1

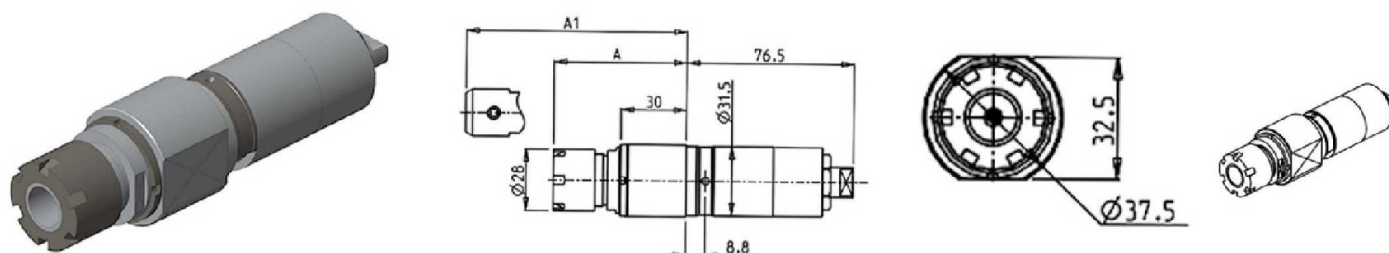


PartNumber	Description	I	RPM	Ext Cool
SPC1921000	Driven Whirling Tool Geared-Down 2:1	2:1	3000	X

SPRINT DRIVEN

SPRINT 32/42 LINEAR - SPRINT 42/10 LINEAR

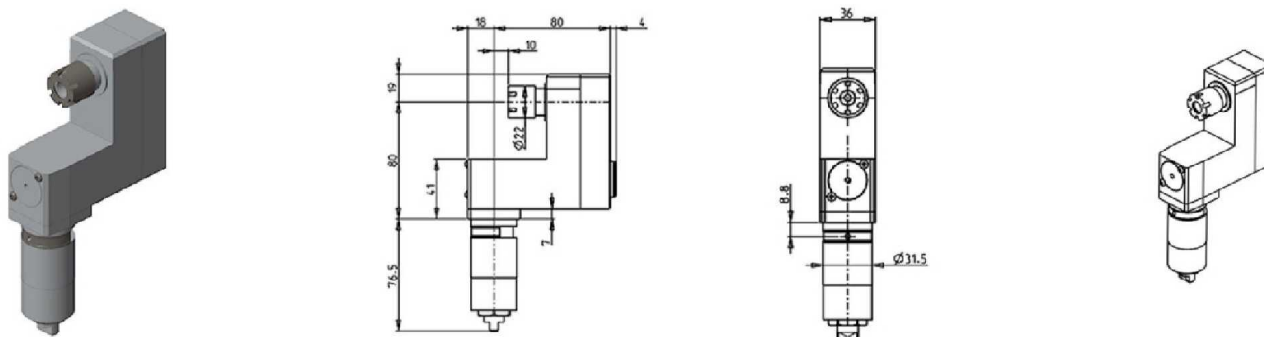
RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool	A	A1
GDM0010120	Radial Driven Tool ER20	ER20	1:1	6000	X	60.7	
GDM0010716	Radial Driven Tool Weldon 16	Weldon 16	1:1	6000	X		55

SPRINT 42/10 LINEAR

AXIAL REAR-SET DRIVEN TOOL

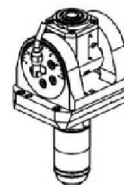
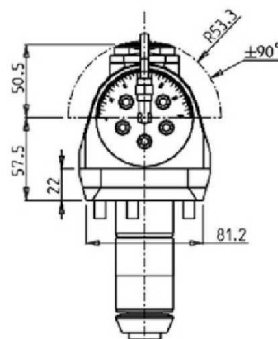
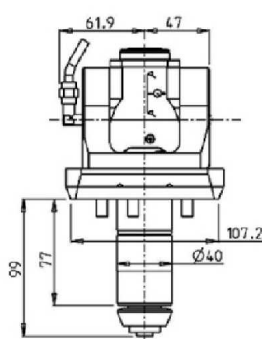


PartNumber	Description	Spindle	I	RPM	Ext Cool
SPC2111000	Axial Rear-Set Driven Tool ER16	ER16	1:1	6000	X

SPRINT DRIVEN

SPRINT 42/10 LINEAR (8/16 ST TURRET)

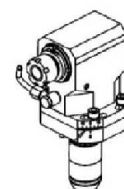
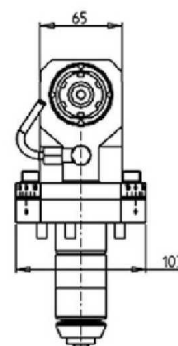
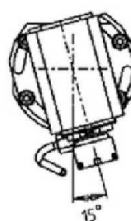
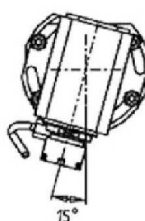
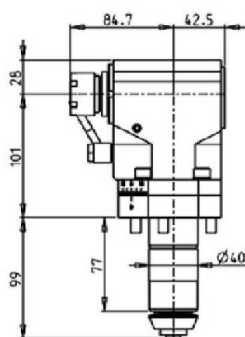
(0-180) ADJUSTABLE ANGLE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
GDM0020120	(0-180) Adjustable Angle ERA20	ERA20	1:1	5000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

AXIAL ADJUSTABLE ANGLE $\pm 15^\circ$ DRIVEN TOOL

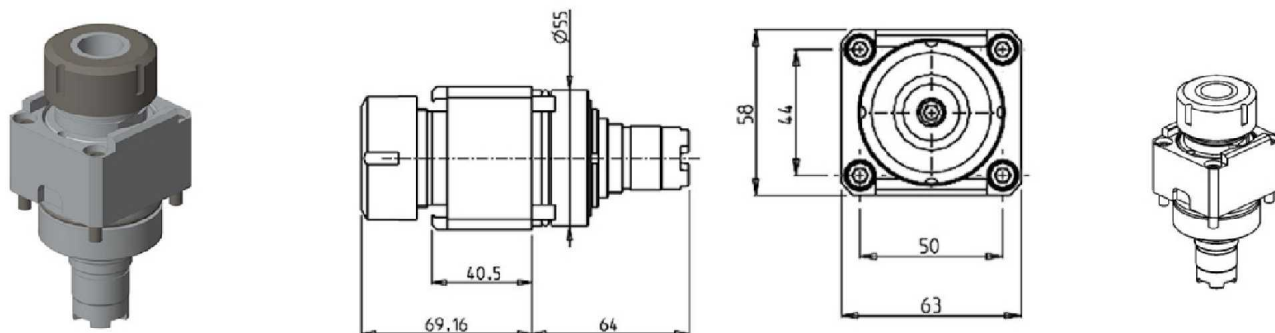


PartNumber	Description	Spindle	I	RPM	Ext Cool
SPC2091000	Axial Adj. Angle $\pm 15^\circ$ ER25	ER25	1:1	5000	X

WASINO DRIVEN

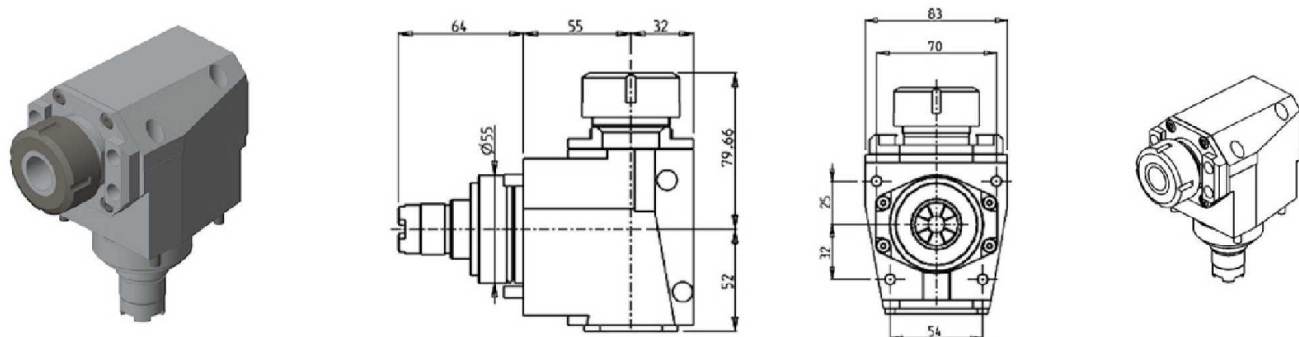
A 150Y/SY

RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
WAS0020132	Radial Driven Tool	ER32	1:1	10000	X

AXIAL DRIVEN TOOL H=55mm



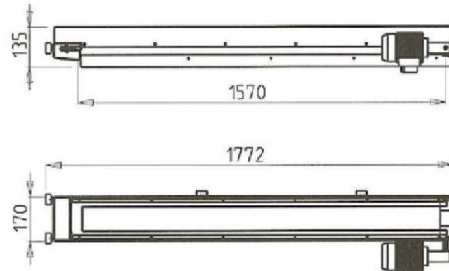
PartNumber	Description	Spindle	I	RPM	Ext Cool
WAS0010132	Axial Driven Tool ER32	ER32	1:1	10000	X

ACCESSORIES

MACHINE ACCESSORIES

PART UNLOADER CONVEYOR BELT

*In inox steel plate supplied with cable, remote control switch and thermic switch. Ready for connection.
Ratio 1:100*



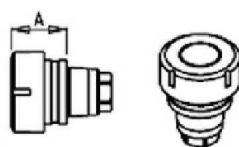
Cod. MT	Macchina Machine
MNLO321772	MORI SEIKI NL2500
MNLO321773	MORI SEIKI NLX2500 SY
MNLO321774	MORI SEIKI NLX2500 MC
MNLO321775	MORI SEIKI NLX2000 SY
MNLO321776	MORI SEIKI NLX2500 SY / 700 CELOS
MNLO321777	MORI SEIKI NLX1500/2000Y CELOS
MNLO321778	MORI SEIKI NLX2500 / 1250 SY

PartNumber	Description	Machine Model
MNLO321772	Parts Conveyor with Electrical Kit	NL2500
MNLO321773	Parts Conveyor with Electrical Kit	NLX2500 SY
MNLO321774	Parts Conveyor with Electrical Kit	NLX2500 MC
MNLO321775	Parts Conveyor with Electrical Kit	NLX2000 SY
MNLO321776	Parts Conveyor with Electrical Kit	NLX2500 SY / 700 CELOS
MNLO321777	Parts Conveyor with Electrical Kit	NLX1500 / 2000Y CELOS
MNLO321778	Parts Conveyor with Electrical Kit	NLX2500 / 1250 SY

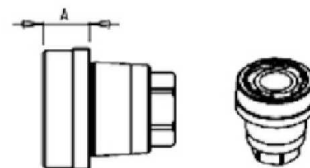
ACCESSORIES

MTSK-40 Clamping Units

MTSK-40 ER ADAPTORS



Cod. MT	Mandrino Spindle	A
MTSK40A02	ER32	35.6
MTSK40A03	ER25	32.6
MTSK40A05	ER16	30.26
MTSK40A06	ER16	47.5
MTSK40A07	ER16	59
MTSK40A08	ER11	40
MTSK40A09	ER11	70



Cod. MT	Mandrino Spindle	A
MTSK40B02	ERA25	16
MTSK40B03	ERA20	14

PartNumber	Description	Spindle	A
MTSK40A08	MTSK-40 Adaptor ER11	ER11	40
MTSK40A09	MTSK-40 Adaptor ER11	ER11	70
MTSK40A05	MTSK-40 Adaptor ER16	ER16	30.26
MTSK40A06	MTSK-40 Adaptor ER16	ER16	47.5
MTSK40A07	MTSK-40 Adaptor ER16	ER16	59
MTSK40B03	MTSK-40 Adaptor ERA20	ERA20	14
MTSK40A03	MTSK-40 Adaptor ER25	ER25	32.6
MTSK40B02	MTSK-40 Adaptor ERA25	ERA25	16
MTSK40A02	MTSK-40 Adaptor ER32	ER32	35.6

ACCESSORIES

MTSK-40 Clamping Units

MTSK-40 MILL ADAPTORS



Cod. MT	Handrillino Spindle	A
MTSK40D01	WELDON 6	8
MTSK40D21	WELDON 6	27.5
MTSK40D02	WELDON 8	8
MTSK40D03	WELDON 10	9
MTSK40D04	WELDON 12	14
MTSK40D05	WELDON 16	39.5
MTSK40D07	WELDON 20	39.5
MTSK40D24	WELDON 10	33
MTSK40D25	WELDON 12	35.5

Cod. MT	Handrillino Spindle	A
MTSK40G03	MR25	33.6

Cod. MT	Handrillino Spindle	Mount Dimensions	A	D	L
MTSK40D02	WELDON 8	inch	15	16	17
MTSK40D03	WELDON 10	inch	15.5	16.5	17.5
MTSK40D04	WELDON 12	inch	17	22	19
MTSK40D05	WELDON 16	inch	22	27	21

Cod. MT	Handrillino Spindle	A
MTSK40D11	WELDON 1/4"	8
MTSK40D12	WELDON 5/16"	8
MTSK40D13	WELDON 3/8"	9
MTSK40D14	WELDON 1/2"	14

Cod. MT	Handrillino Spindle	A
MTSK40H01	MORSE-1	29
MTSK40H02	MORSE-2	42

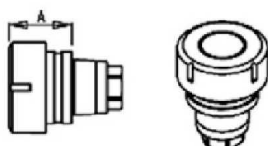
Cod. MT	Handrillino Spindle	A	D	L
MTSK40T00	COVER PLUG			

PartNumber	Description	Spindle	Dimension	A	D	L
MTSK40C03	MTSK-40 Adaptor Mill 3/4"	3/4"x3/4"	Inch	15.5	3/4"	3/4"
MTSK40C02	MTSK-40 Adaptor Mill 16x17	16x17	mm	15	16	17
MTSK40C04	MTSK-40 Adaptor Mill 22x19	22x19	mm	17	22	19
MTSK40C05	MTSK-40 Adaptor Mill 27x21	27x21	mm	22	27	21
MTSK40F01	MTSK-40 Adaptor Mill 1/2"	1/2" Arbor	Inch	32	1/2"	6.5
MTSK40D11	MTSK-40 Adaptor Weldon 1/4"	Weldon 1/4"		8		
MTSK40D12	MTSK-40 Adaptor Weldon 5/16"	Weldon 5/16"		8		
MTSK40D13	MTSK-40 Adaptor Weldon 3/8"	Weldon 3/8"		9		
MTSK40D14	MTSK-40 Adaptor Weldon 1/2"	Weldon 1/2"		14		
MTSK40D01	MTSK-40 Adaptor Weldon 6	Weldon 6		8		
MTSK40D21	MTSK-40 Adaptor Weldon 6	Weldon 6		27.5		
MTSK40D02	MTSK-40 Adaptor Weldon 8	Weldon 8		8		
MTSK40D03	MTSK-40 Adaptor Weldon 10	Weldon 10		9		
MTSK40D24	MTSK-40 Adaptor Weldon 10	Weldon 10		33		
MTSK40D04	MTSK-40 Adaptor Weldon 12	Weldon 12		14		
MTSK40D25	MTSK-40 Adaptor Weldon 12	Weldon 12		35.5		
MTSK40D06	MTSK-40 Adaptor Weldon 16	Weldon 16		39.5		
MTSK40D07	MTSK-40 Adaptor Weldon 20	Weldon 20		39.5		
MTSK40H01	MTSK-40 Adaptor Morse 1	MORSE-1		29		
MTSK40H02	MTSK-40 Adaptor Morse 2	MORSE-2		42		
MTSK40G03	MTSK-40 Adaptor MR25	MR25		33.6		
MTSK40T00	MTSK-40 Cover Plug					

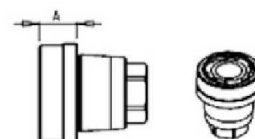
ACCESSORIES

MTSK-50 Clamping Units

MTSK-50 ER ADAPTORS



Cod. MT	Mandrin Spindel	A
MTSK50A01	ER40	46.6
MTSK50A02	ER32	35.6
MTSK50A03	ER25	32.6
MTSK50A05	ER16	30.3



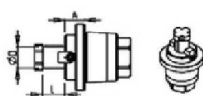
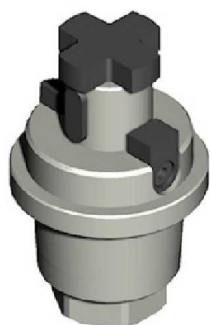
Cod. MT	Mandrin Spindel	A
MTSK50B01	ERA32	19
MTSK50B02	ERA25	14
MTSK50B03	ERA20	9

PartNumber	Description	Spindle	A
MTSK50A05	MTSK-50 Adaptors ER16	ER16	30.3
MTSK50B03	MTSK-50 Adaptors ERA20	ERA20	9
MTSK50A03	MTSK-50 Adaptors ER25	ER25	32.6
MTSK50B02	MTSK-50 Adaptors ERA25	ERA25	14
MTSK50A02	MTSK-50 Adaptors ER32	ER32	35.6
MTSK50B01	MTSK-50 Adaptors ERA32	ERA32	19
MTSK50A01	MTSK-50 Adaptors ER40	ER40	46.6

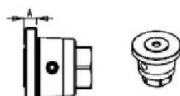
ACCESSORIES

MTSK-50 Clamping Units

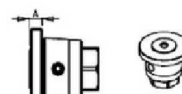
MTSK-50 MILL ADAPTORS



Cod. MT	Handline Spindle Sandel	Measure Dimensions Parts	A	D	L
MTSK50C02	Ø16x17	mm	15	16	17
MTSK50C03	Ø 3/4" x3/4"	Inch	15.5	3/4"	3/4"
MTSK50C04	Ø 22x19	mm	17	22	19
MTSK50C05	Ø 1" x3/4"	Inch	19	1"	3/4"
MTSK50C06	Ø 27x21	mm	19	27	21
MTSK50C07	Ø 32x24	mm	24	32	24



Cod. MT	Handline Spindle Sandel	A
MTSK50D11	WELDON 1/4"	8
MTSK50D12	WELDON 5/16"	8
MTSK50D13	WELDON 3/8"	8
MTSK50D14	WELDON 1/2"	9
MTSK50D15	WELDON 5/8"	12
MTSK50D16	WELDON 6"	8
MTSK50D17	WELDON 8"	8
MTSK50D18	WELDON 10"	8
MTSK50D19	WELDON 12"	9
MTSK50D20	WELDON 16"	12
MTSK50D21	WELDON 20"	40
MTSK50D22	WELDON 25"	44



Cod. MT	Handline Spindle Sandel	A
MTSK50D01	WELDON 6	8
MTSK50D02	WELDON 8	8
MTSK50D03	WELDON 10	8
MTSK50D04	WELDON 12	9
MTSK50D05	WELDON 16	12
MTSK50D06	WELDON 20	40
MTSK50D07	WELDON 25	44



Cod. MT	Handline Spindle Sandel	A
MTSK50E01	POWRGRIP PG25	40

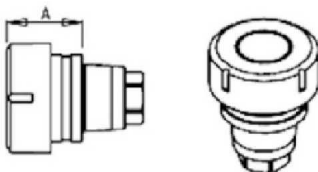
Cod. MT	Tappe di protezione Cover Plug Abbrivestoplet
MTSK50T00	

PartNumber	Description	Spindle	Dimensions	A	D	L
MTSK50C03	MTSK-50 Adaptors Mill	3/4"x3/4"	Inch	15.5	3/4"	3/4"
MTSK50C05	MTSK-50 Adaptors Mill	1"x3/4"	Inch	19	1"	3/4"
MTSK50C02	MTSK-50 Adaptors Mill	16 x17	mm	15	16	17
MTSK50C04	MTSK-50 Adaptors Mill	22x19	mm	17	22	19
MTSK50C06	MTSK-50 Adaptors Mill	27x21	mm	19	27	21
MTSK50C07	MTSK-50 Adaptors Mill	32x24	mm	24	32	24
MTSK50D11	MTSK-50 Adaptor Weldon 1/4"	Weldon 1/4"		8		
MTSK50D12	MTSK-50 Adaptor Weldon 5/16"	Weldon 5/16"		8		
MTSK50D13	MTSK-50 Adaptor Weldon 3/8"	Weldon 3/8"		8		
MTSK50D14	MTSK-50 Adaptor Weldon 1/2"	Weldon 1/2"		9		
MTSK50D15	MTSK-50 Adaptor Weldon 5/8"	Weldon 5/8"		12		
MTSK50D01	MTSK-50 Adaptor Weldon 6	Weldon 6		8		
MTSK50D02	MTSK-50 Adaptor Weldon 8	Weldon 8		8		
MTSK50D03	MTSK-50 Adaptor Weldon 10	Weldon 10		8		
MTSK50D04	MTSK-50 Adaptor Weldon 12	Weldon 12		9		
MTSK50D05	MTSK-50 Adaptor Weldon 16	Weldon 16		12		
MTSK50D07	MTSK-50 Adaptor Weldon 20	Weldon 20		40		
MTSK50D08	MTSK-50 Adaptor Weldon 25	Weldon 25		44		
MTSK50E01	MTSK-50 Adaptor POWRGRIP PG25	POWRGRIP PG25		40		
MTSK50T00	MTSK-50 Cover Plug					

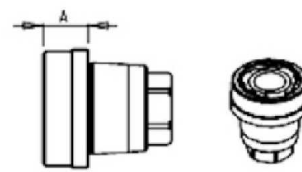
ACCESSORIES

MTSK-63 Clamping Units

MTSK-63 ER ADAPTORS



Cod. MT	Mandrino Spindle Spindel	A
MTSK63A01	ER50	53.9
MTSK63A02	ER40	39.6
MTSK63A03	ER32	36.6
MTSK63A04	ER25	33.6



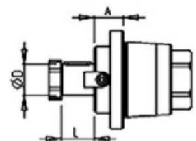
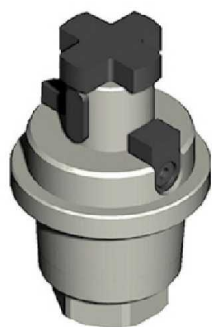
Cod. MT	Mandrino Spindle Spindel	A
MTSK63B01	ERA40	20
MTSK63B02	ERA32	18
MTSK63B03	ERA25	10

PartNumber	Description	Spindle	A
MTSK63A04	MTSK-63 Adaptor ER25	ER25	33.6
MTSK63B03	MTSK-63 Adaptor ERA25	ERA25	10
MTSK63A03	MTSK-63 Adaptor ER32	ER32	36.6
MTSK63B02	MTSK-63 Adaptor ERA32	ERA32	18
MTSK63A02	MTSK-63 Adaptor ER40	ER40	39.6
MTSK63B01	MTSK-63 Adaptor ERA40	ERA40	20
MTSK63A01	MTSK-63 Adaptor ER50	ER50	53.9

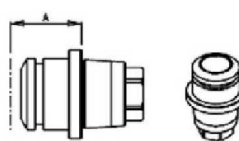
ACCESSORIES

MTSK-63 Clamping Units

MTSK-63 MILL ADAPTORS

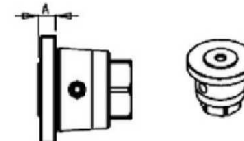


Cod. MT	Mandrino Spindle Spindel	Misure Dimensions Maasse	A	D	L
MTSK63C02	Ø16x17	mm	16	16	17
MTSK63C03	Ø3/4"x3/4"	Inch	16.5	3/4"	3/4"
MTSK63C04	Ø22x19	mm	18	22	19
MTSK63C05	Ø1"x3/4"	Inch	20	1"	3/4"
MTSK63C06	Ø27x21	mm	20	27	21
MTSK63C07	Ø27x21	mm	40	27	21



Cod. MT	Mandrino Spindle Spindel	A
MTSK63E01	POWRGRIP® PG32	53

Cod. MT	Tappo di protezione Cover Plug Abdeckstopfen
MTSK63T00	



Cod. MT	Mandrino Spindle Spindel	A
MTSK63D01	WELDON 6	9
MTSK63D02	WELDON 8	9
MTSK63D03	WELDON 10	9
MTSK63D04	WELDON 12	10
MTSK63D05	WELDON 16	12
MTSK63D06	WELDON 20	14
MTSK63D17	WELDON 1"	14

PartNumber	Description	Spindle	Dimensions	A	D	L
MTSK63C03	MTSK-63 Adaptor Mill 3/4"x3/4"	3/4"x3/4"	Inch	16.5	3/4"	3/4"
MTSK63C05	MTSK-63 Adaptor Mill 1"x3/4"	1"x3/4"	Inch	20	1"	3/4"
MTSK63C02	MTSK-63 Adaptor Mill 16x17	16x17	mm	16	16	17
MTSK63C04	MTSK-63 Adaptor Mill 22x19	22x19	mm	18	22	19
MTSK63C06	MTSK-63 Adaptor Mill 27x21	27x21	mm	20	27	21
MTSK63C07	MTSK-63 Adaptor Mill 27x21	27x21	mm	40	27	21
MTSK63D17	MTSK-63 Adaptor Weldon 1"	Weldon 1"		14		
MTSK63D01	MTSK-63 Adaptor Weldon 6	Weldon 6		9		
MTSK63D02	MTSK-63 Adaptor Weldon 8	Weldon 8		9		
MTSK63D03	MTSK-63 Adaptor Weldon 10	Weldon 10		9		
MTSK63D04	MTSK-63 Adaptor Weldon 12	Weldon 12		10		
MTSK63D05	MTSK-63 Adaptor Weldon 16	Weldon 16		12		
MTSK63D06	MTSK-63 Adaptor Weldon 20	Weldon 20		14		
MTSK63E01	MTSK-63 POWRGRIP PG32	POWRGRIP PG32		53		
MTSK63T00	MTSK-63 Cover Plug					

ER COLLETS

ER COLLET NUMBER	DESCRIPTION	MD LIST PRICE
ER20 SET	ER20 Collet Set (15 Collets)	\$ 330.00
ERX20 SET	ER20 Sealed Collet Set (13 Collets)	\$ 395.00
ER25 SET	ER25 Collet Set (19 Collets)	\$ 375.00
ERX25 SET	ER25 Sealed Collet Set (17 Collets)	\$ 475.00
ER32 SET	ER32 Collet Set (21 Collets)	\$ 425.00
ERX32 SET	ER32 Sealed Collet Set (21 Collets)	\$ 595.00
ER40 SET	ER40 Collet Set (29 Collets)	\$ 695.00
ERX40 SET	ER40 Sealed Collet Set (27 Collets)	\$ 850.00



Phone: (810) 632-4446 / Fax: (810) 632-4467

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