

DRIVEN and STATIC TOOLING

For

TAKISAWA



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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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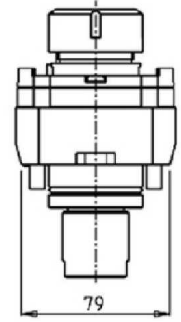
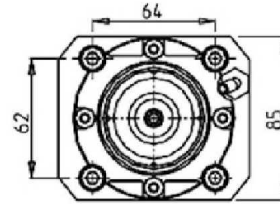
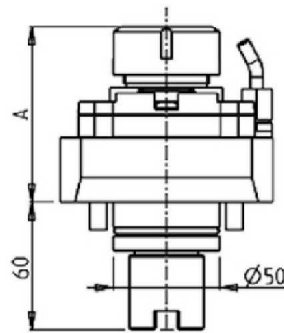
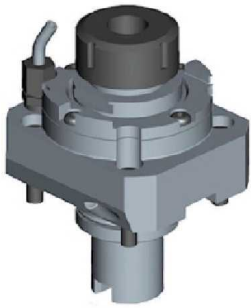
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DRIVEN

TCY160/200

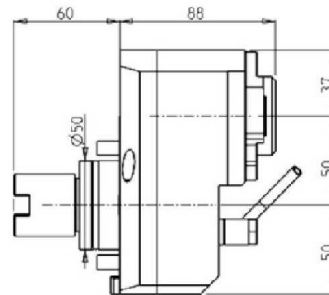
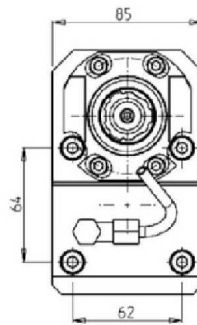
RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0020132	Radial Driven Tool ER32	ER32	1:1	6000		X	82.16
TKW0020432	Radial Driven Tool ERA32 Cool Thru*	ERA32	1:1	6000	X	X	86.9

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

RADIAL GEARED-UP 1:2 DRIVEN TOOL RE-DIRECTED IN Z BY 50mm



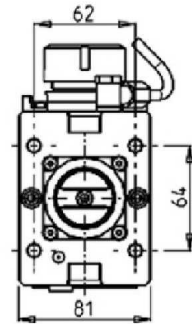
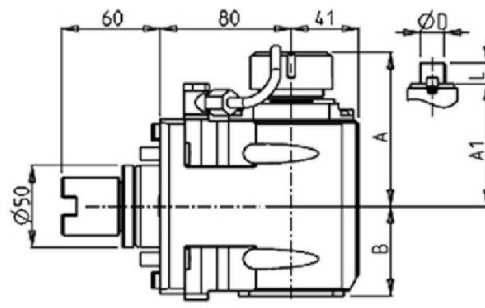
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool
TKW0222125	Radial Geared-up 1:2 Re-directed ERA25	ERA25	1:2	12000	X		X
TKW0222225	Radial Geared-up 1:2 Re-directed ERA25 Cool Thru*	ERA25	1:2	12000	X	X	X

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DRIVEN

TCY160/200

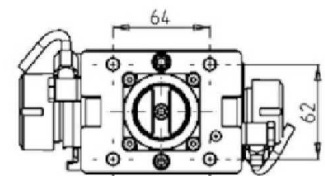
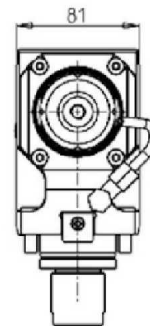
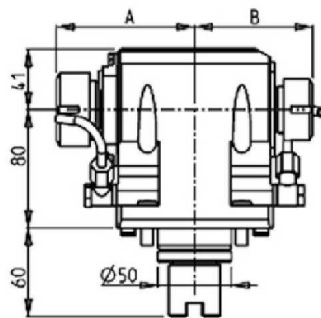
AXIAL DRIVEN TOOL



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
TKW0010125	Axial Driven ER25	ER25	X	1:1	6000		X	91.16		57		
TKW0010225	Axial Driven ER25 Cool Thru*	ER25	X	1:1	6000	X	X	91.16		67		
TKW0010325	Axial Driven ERA25	ERA25	X	1:1	6000		X	65		57		
TKW0010425	Axial Driven ERA25 Cool Thru*	ERA25	X	1:1	6000	X	X	65		67		
TKW0010132	Axial Driven ER32	ER32	X	1:1	6000		X	93.66		57		
TKW0010232	Axial Driven ER32 Cool Thru*	ER32	X	1:1	6000	X	X	93.66		67		
TKW0010140	Axial Driven ER40	ER40	X	1:1	6000		X	98.16		57		
TKW0010240	Axial Driven ER40 Cool Thru*	ER40	X	1:1	6000	X	X	98.16		67		
TKW0010516	Axial Mill Head 16x17	16X17	X	1:1	6000		X		67.5	16	17	
TKW0010522	Axial Mill Head 22x19	22X19	X	1:1	6000		X		67.5	22	19	
TKW0010527	Axial Mill Head 27x21	27X21	X	1:1	6000		X		70	27	21	

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

AXIAL OPPOSITE FACE DRIVEN TOOL

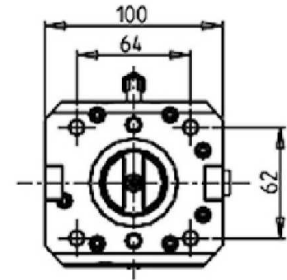
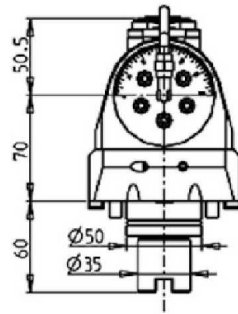
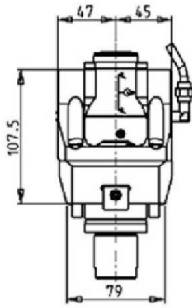


PartNumber	Description	Spindle	Reversible	I	RPM	Ext Cool	A	B
TKW0033225	Axial Opposite Face ER32+ER25	ER32+ER25	X	1:1	6000	X	93.66	80.16
TKW0032520	Axial Opposite Face ERA25+ERA20	ERA25+ERA20	X	1:1	6000	X	65	55.5

DRIVEN

TCY160/200

(0-180) ADJUSTABLE ANGLE DRIVEN TOOL H=70mm



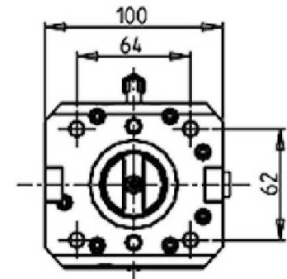
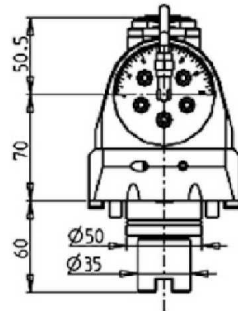
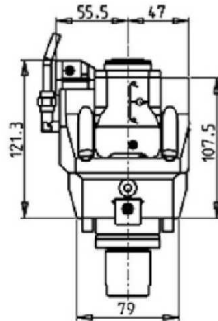
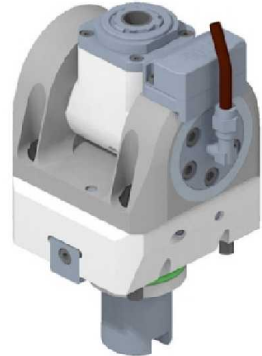
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0500120	(0-180) Adj. Angle ERA20	ERA20	1:1	6000		X
TKW0500220	(0-180) Adj. Angle ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* 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=70mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0505120	(0-180) Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
TKW0505220	(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.

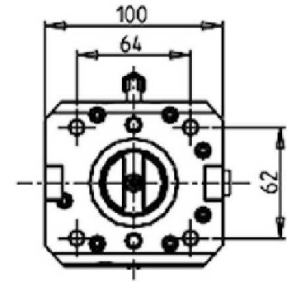
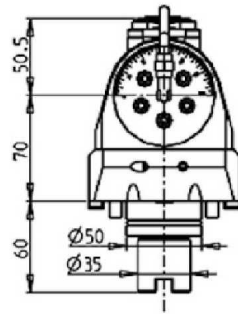
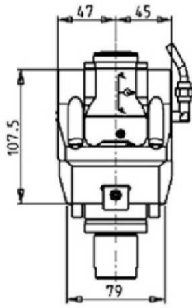
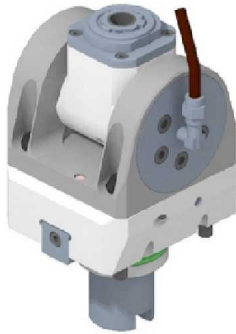
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TCY160/200

(0-180) ADJUSTABLE ANGLE DRIVEN TOOL GEARED-UP 1:2 H=70mm



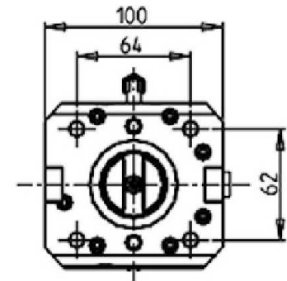
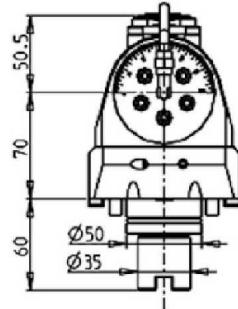
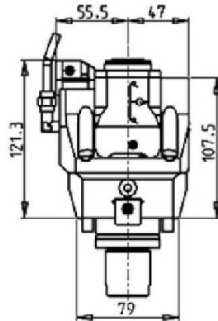
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0500316	(0-180) Adj. Angle Geared-Up 1:2 ERA16	ERA16	1:2	12000		X
TKW0500416	(0-180) Adj. Angle Geared-Up 1:2 ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* 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=70mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0505316	(0-180) Adj. Angle Geared-Up 1:2 ERA16 with Digital Display	ERA16	1:2	12000		X
TKW0505416	(0-180) Adj. Angle Geared-Up 1:2 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.

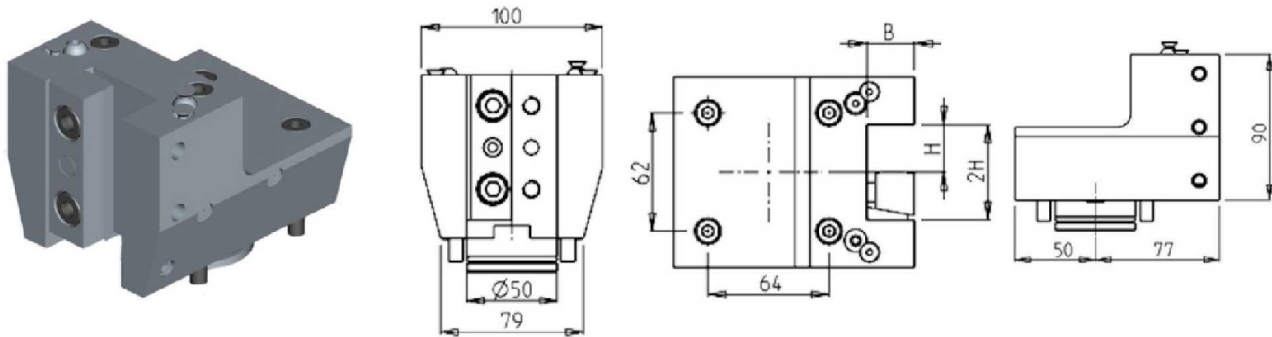
Note :

Wrenches are provided with the purchase of Specialty Toolholders

STATIC

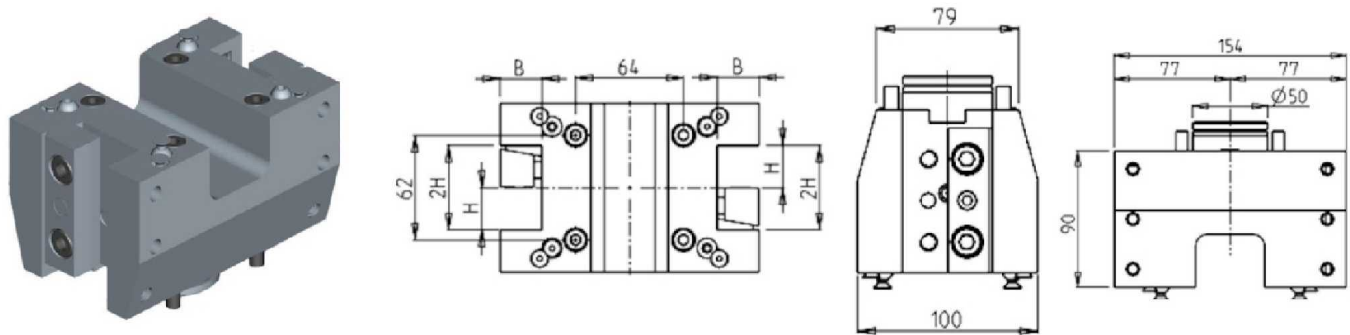
TCY160/200

RADIAL SINGLE STATIC TOOL



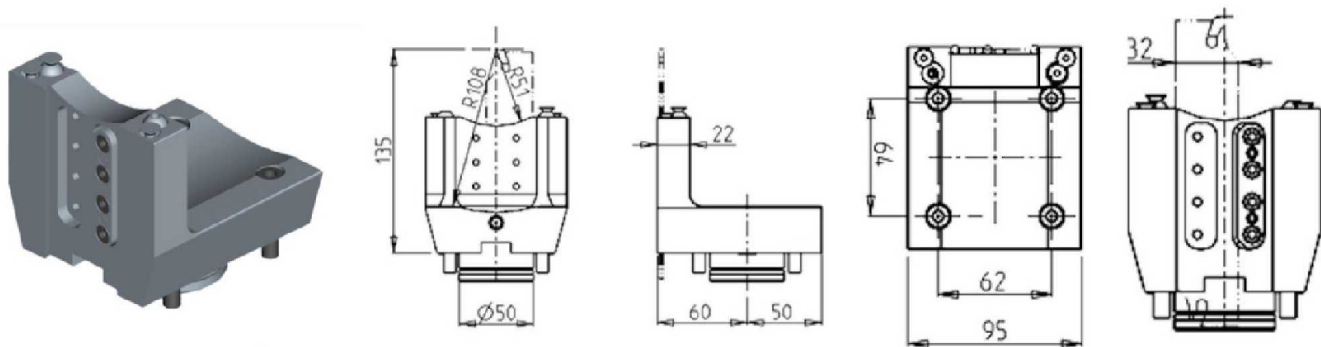
PartNumber	Description	Takisawa Code	# of Tools	Reversible	Dimensions	B	H
TKW0042500	Radial Single Static Tool 25mm	XL2207_001	1/2	X	mm	25	25

RADIAL DOUBLE STATIC TOOL



PartNumber	Description	Takisawa Code	# of Tools	Reversible	Dimensions	B	H
TKW0082500	Radial Double Static Tool 25mm	XL22030_001	2/4	X	mm	25	25

RADIAL BLADE HOLDER WITH BLADE KIT

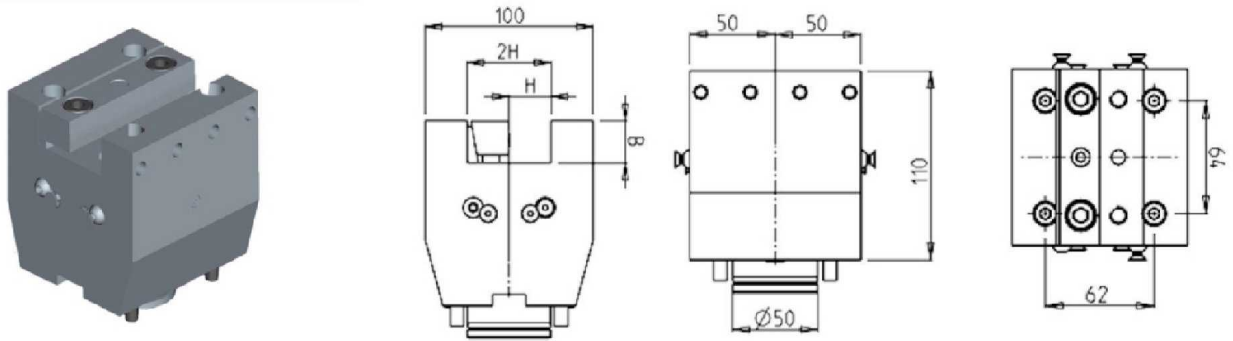


PartNumber	Description	Takisawa Code	# of Tools	Reversible	Ext Cool
TKW0070232	Radial Blade Holder with Blade Kit	XL22037_001	1	X	X
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts				

STATIC

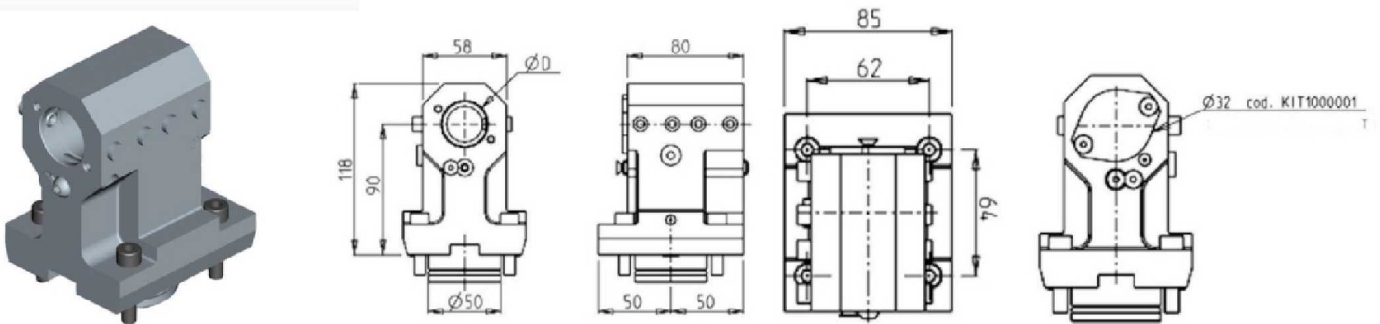
TCY160/200

AXIAL SINGLE STATIC TOOL



PartNumber	Description	Takisawa Code	# of Tools	Reversible	Dimensions	B	H
TKW0052500	Axial Single Static Tool 25mm	XL22029_001	1/2	X	mm	25	25

AXIAL SINGLE BORING BAR HOLDER H=90mm

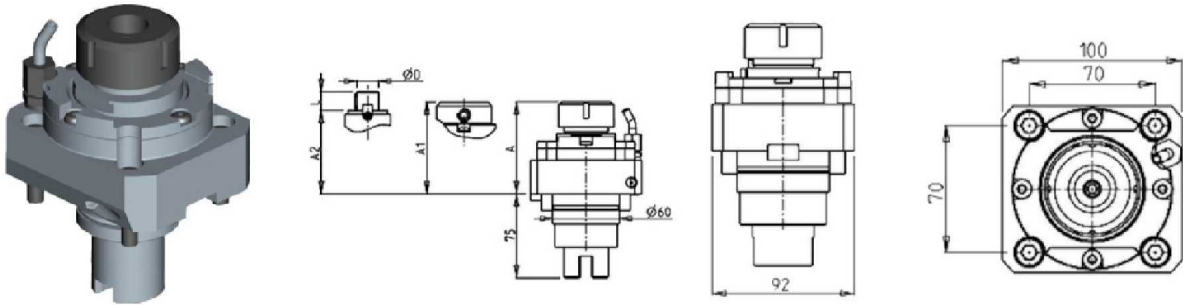


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D
TKW0063200	Axial Single BBH 32mm	1	X	X	mm	32
KIT1000001	Plug for 32mm BBH to Make Cool Thru					

DRIVEN

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - MX-800 - VTL450M - EX2000M/Y - LX2500M

RADIAL DRIVEN TOOL

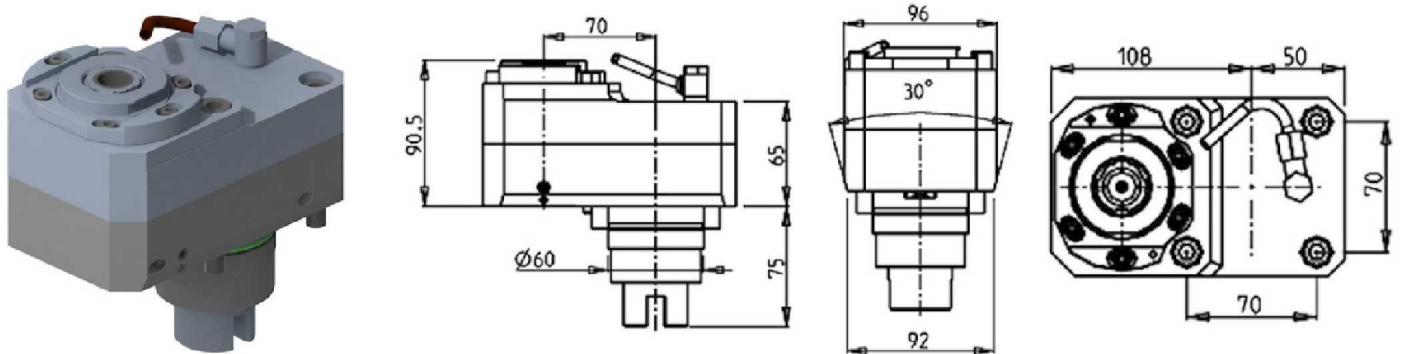


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
TKW0120132	Radial Driven Tool ER32	ER32	1:1	6000		X	82.16				
TKW0120232	Radial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	92.66				
TKW0120825	Radial Driven Tool Weldon 25 Cool Thru*	Weldon 25	1:1	6000	X	X		86			
TKW0120522	Radial Mill Head $\varnothing 22 \times 19$	$\varnothing 22 \times 19$	1:1	6000		X				57.5	22 19

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

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - VTL450M - EX2000M/Y - LX2500M

RADIAL GEARED-UP 1:2 DRIVEN TOOL REDIRECTED IN Z BY 70mm



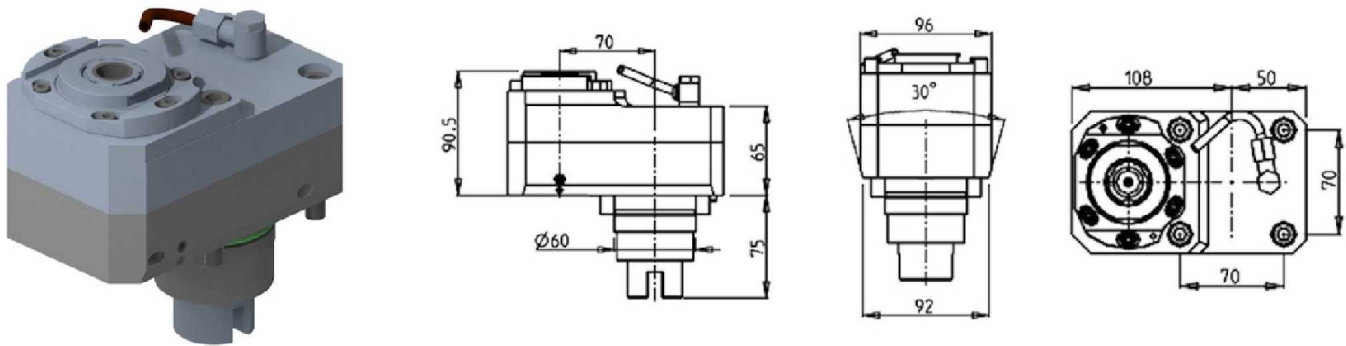
PartNumber	Description	Spindle	I	MAX RPM	Cool Thru	Ext Cool
TKW0430325	Radial Geared-Up 1:2 Redirected ERA25	ERA25	1:2	12000		X
TKW0430425	Radial Geared-Up 1:2 Redirected ERA25 Cool Thru*	ERA25	1:2	12000	X	X

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

DRIVEN

EX308/310/508/510/708/710/910 - TT350MC - NEX908/910 - LA250YS 15ST. - FX-800 - MX-800 - EX2000M/Y

RADIAL GEARED-UP 1:2 DRIVEN TOOL FOR SUBSPINDLE REDIRECTED IN Z BY 70mm

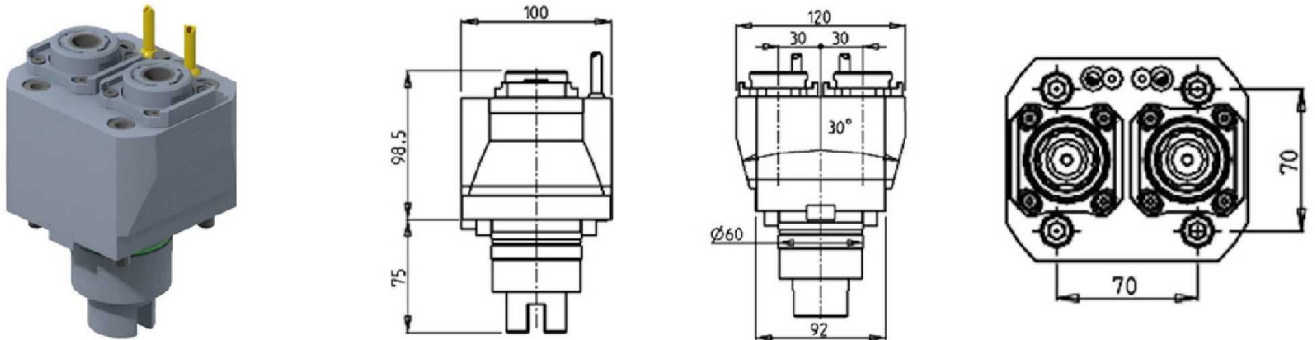


PartNumber	Description	Spindle	I	MAX RPM	Cool Thru	Ext Cool
TKW0430525	Radial Geared-Up 1:2 Redirected ERA25 for Subspindle	ERA25	1:2	12000		X
TKW0430625	Radial Geared-Up 1:2 Redirected ERA25 for Subspindle Cool Thru*	ERA25	1:2	12000	X	X

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

EX708/710/910 - NEX108/110/908/910 - LA200/250Y - LA250YS 15ST. - FX-800 - MX-800 - EX2000Y

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

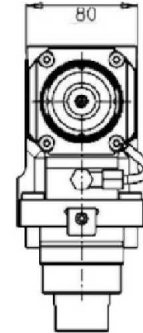
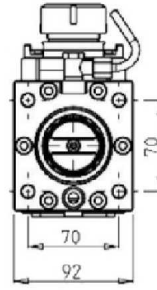
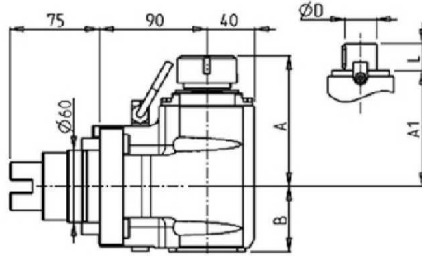


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0730325	Radial Single Side Twin ERA25	ERA25	1:1	6000	X

DRIVEN

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - VTL450M - EX2000M/Y - LX2500M

AXIAL DRIVEN TOOL FOR MAIN SPINDLE

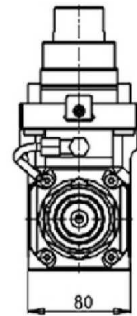
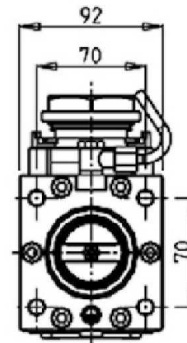
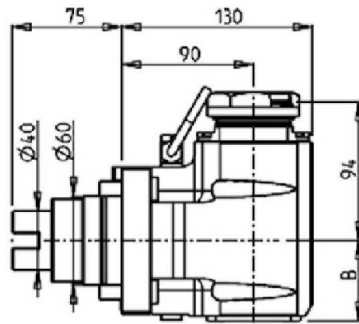


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	D	L	B
TKW0110132	Axial Driven Tool ER32	ER32	1:1	6000		X	108.7				54.5
TKW0110232	Axial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	108.7				67
TKW0110527	Axial Mill Head $\phi 27 \times 21$	$\phi 27 \times 21$	1:1	6000		X		85	27	21	54.5

* 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 MAIN SPINDLE

Please see Accessories for MTSK Clamping Units



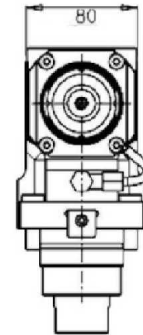
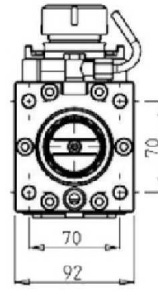
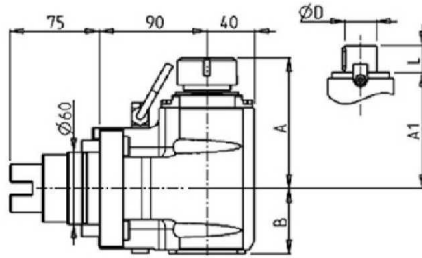
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0420150	Axial MTSK-50 Driven Tool	MTSK-50	1:1	6000		X	54.5
TKW0420250	Axial MTSK-50 Driven Tool Cool Thru*	MTSK-50	1:1	6000	X	X	67

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

DRIVEN

EX308/310/508/510/708/710/910 - TT350MC - NEX908/910 - LA250YS 15ST. - FX-800 - MX-800 - EX2000M/Y

AXIAL DRIVEN TOOL FOR SUBSPINDLE

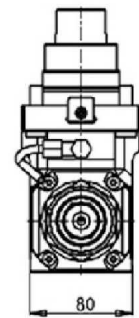
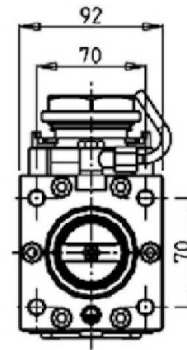
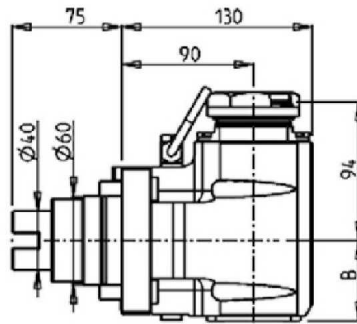


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	D	L	B
TKW0110332	Axial Driven Tool ER32	ER32	1:1	6000		X	108.7				54.5
TKW0110432	Axial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	108.7				67
TKW0111527	Axial Mill Head $\phi 27 \times 21$	$\phi 27 \times 21$	1:1	6000		X		85	27	21	54.5

* 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 SUBSPINDLE

Please see Accessories for MTSK Clamping Units



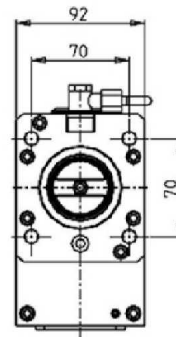
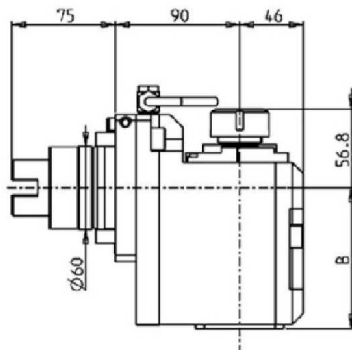
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0420350	Axial MTSK-50 Driven Tool	MTSK-50	1:1	6000		X	54.5
TKW0420450	Axial MTSK-50 Driven Tool Cool Thru*	MTSK-50	1:1	6000	X	X	67

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

DRIVEN

EX308/310/508/510/708/710/910 - TC350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - EX2000M/Y

AXIAL REAR-SET DRIVEN TOOL FOR MAIN SPINDLE

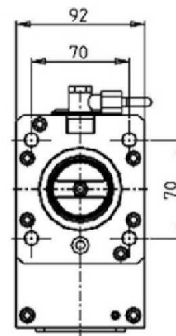
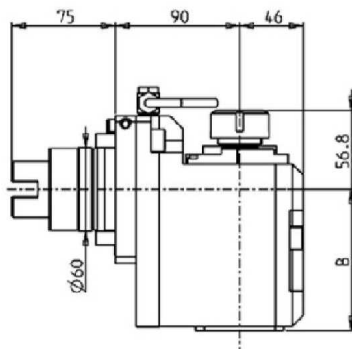
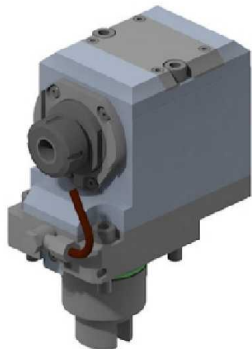


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0740125	Axial Rear-Set ER25	ER25	1:1	6000		X	101.4
TKW0740225	Axial Rear-Set ER25 Cool Thru*	ER25	1:1	6000	X	X	113.9

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

EX308/310/508/510/708/710/910 - TT350MC - NEX908/910 - LA250YS 15ST. - FX-800 - MX-800 - EX2000M/Y

AXIAL REAR-SET DRIVEN TOOL FOR SUPSPINDLE



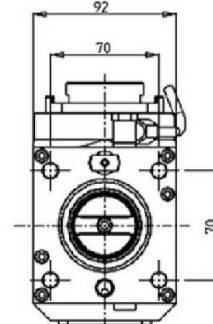
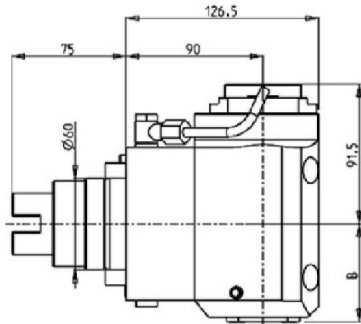
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0741125	Axial Rear-Set ER25	ER25	1:1	6000		X	101.4
TKW0741225	Axial Rear-Set ER25 Cool Thru*	ER25	1:1	6000	X	X	113.9

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

DRIVEN

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - VTL450M - EX2000M/Y - LX2500M

AXIAL GEARED-UP 1:2 DRIVEN TOOL FOR MAIN SPINDLE

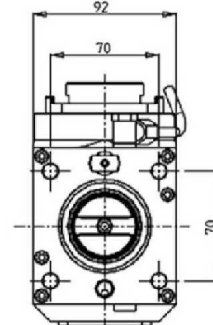
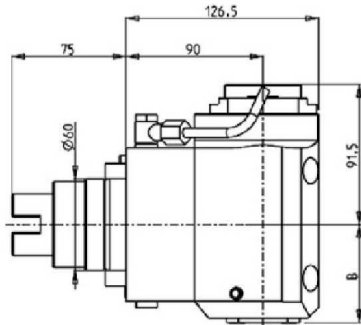


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0440325	Axial Geared-Up 1:2 ERA25	ERA25	1:2	12000		X	64
TKW0440425	Axial Geared-Up 1:2 ERA25 Cool Thru*	ERA25	1:2	12000	X	X	74

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

EX308/310/508/510/708/710/910 - TT350MC - NEX908/910 - LA250YS 15ST. - FX-800 - MX-800 - EX2000M/Y

AXIAL GEARED-UP 1:2 DRIVEN TOOL FOR SUBSPINDLE



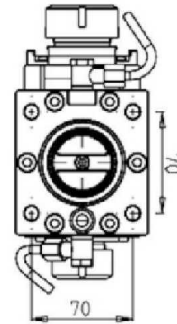
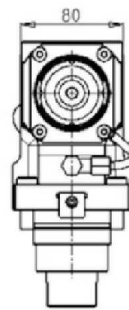
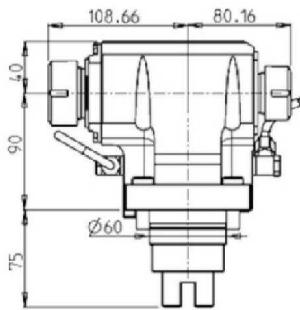
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0440525	Axial Geared-Up 1:2 ERA25	ERA25	1:2	12000		X	64
TKW0440625	Axial Geared-Up 1:2 ERA25 Cool Thru*	ERA25	1:2	12000	X	X	74

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

DRIVEN

EX308/310/508/510/708/710/910 - TT350MC - NEX908/910 - LA250YS 15ST. - FX-800 - MX-800 - EX2000M/Y

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL

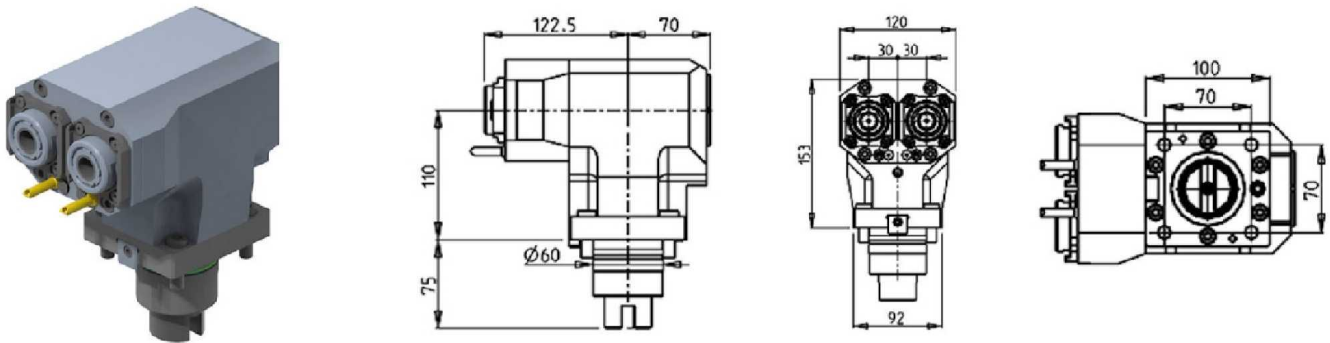


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0130132	Axial Opposite Face ER32+ER25	ER32+ER25	1:1	6000	X

DRIVEN

EX708/710/910 - NEX108/110/908/910 - LA200/250Y - LA250YS 15ST. - FX-800 - EX2000Y

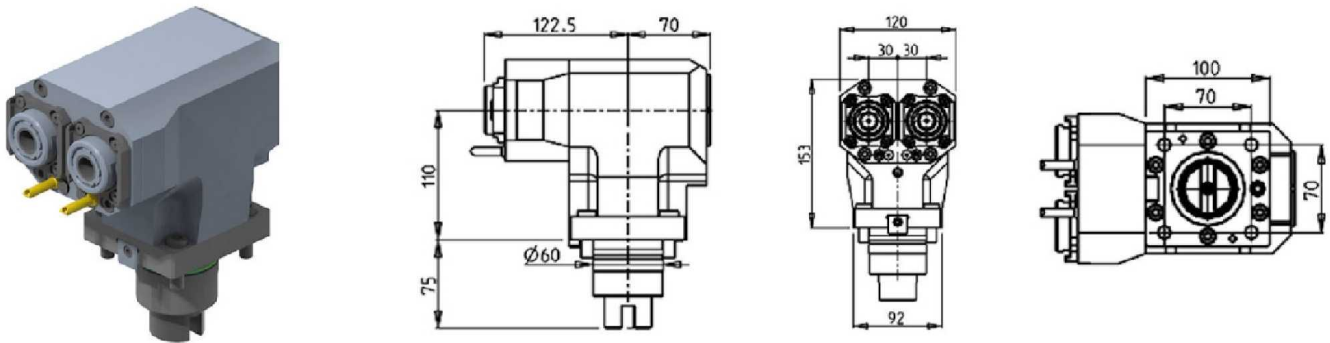
AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y FOR MAIN SPINDLE



PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0750325	Axial Single Side Twin ERA25	ERA25	1:1	6000	X

EX708/710/910 - NEX108/110/908/910 - LA200/250Y - LA250YS 15ST. - FX-800 - MX-800 - EX2000Y

AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y FOR SUBSPINDLE

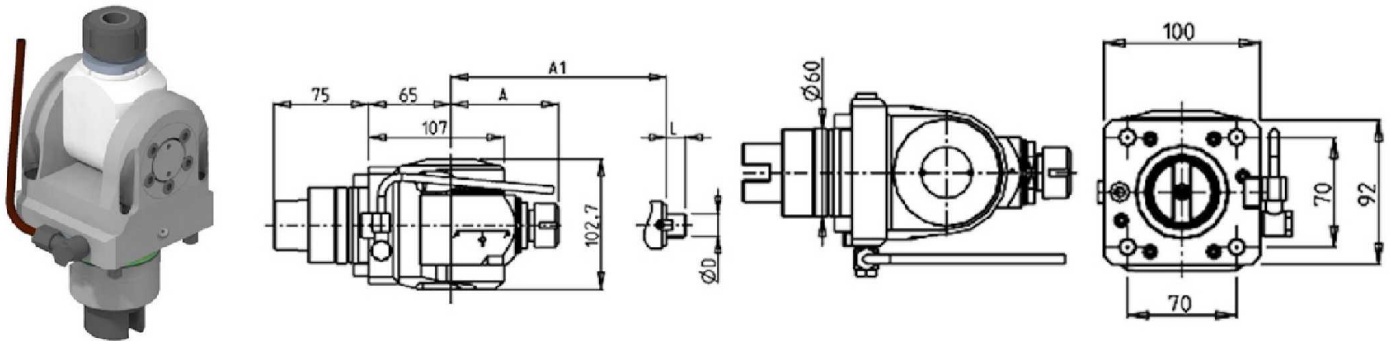


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0751325	Axial Single Side Twin ERA25	ERA25	1:1	6000	X

DRIVEN

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - MX-800 - VTL450M - EX2000M/Y - LX2500M

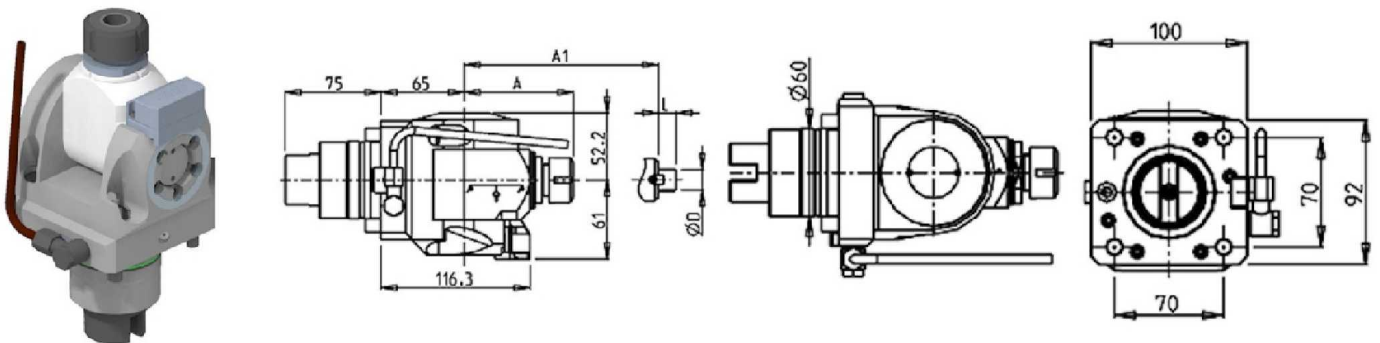
(0-180) ADJUSTABLE ANGLE DRIVEN TOOL H=65mm



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
TKW0710120	(0-180) Adj. Angle ER20	ER20	1:1	6000	X	X	85.16			
TKW0710125	(0-180) Adj. Angle ER25	ER25	1:1	6000	X	X	86.16			
TKW0710519	(0-180) Adj. Angle 3/4"x3/4"	3/4"x3/4"	1:1	6000	X	X	65	3/4"	3/4"	
TKW0710516	(0-180) Adj. Angle Ø16x17	Ø16x17	1:1	6000	X	X	65	16	17	
TKW0710522	(0-180) Adj. Angle Ø22x19	Ø22x19	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 H=65mm



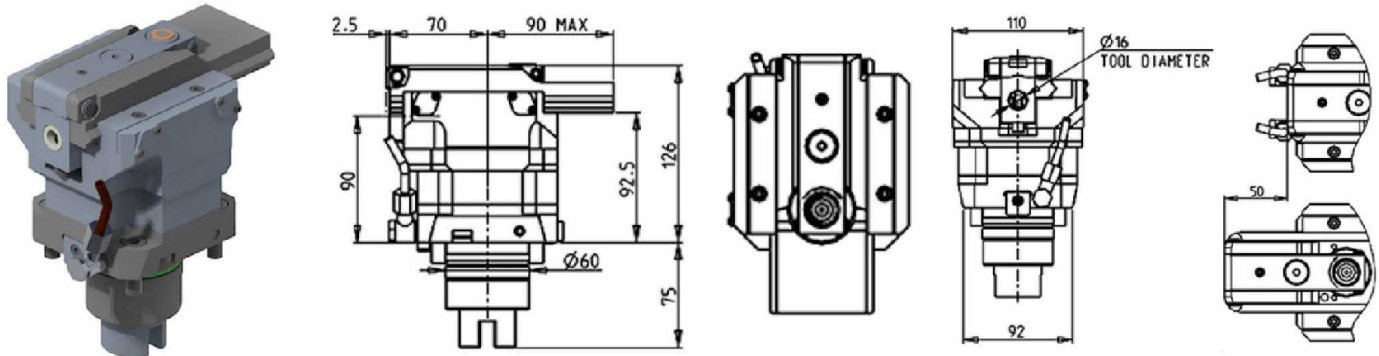
PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
TKW0720120	(0-180) Adj. Angle ER20 with Digital Display	ER20	1:1	6000	X	X	85.16			
TKW0720125	(0-180) Adj. Angle ER25 with Digital Display	ER25	1:1	6000	X	X	86.16			
TKW0720519	(0-180) Adj. Angle 3/4"x3/4" with Digital Display	3/4"x3/4"	1:1	6000	X	X	65	3/4"	3/4"	
TKW0720516	(0-180) Adj. Angle Ø16x17 with Digital Display	Ø16x17	1:1	6000	X	X	65	16	17	
TKW0720522	(0-180) Adj. Angle Ø22x19 with Digital Display	Ø22x19	1:1	6000	X	X	66	22	19	

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

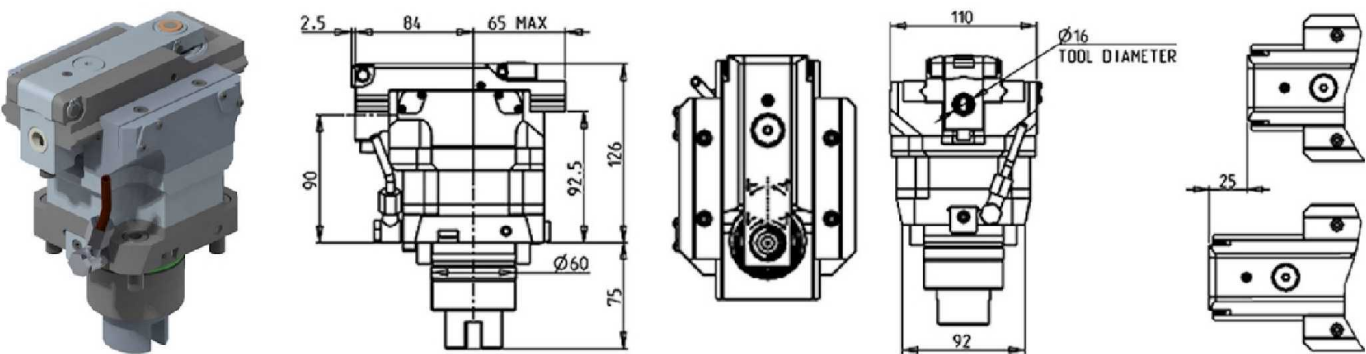
EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - VTL450M - EX2000M/Y - LX2500M

BROACHING/SLOTING DRIVEN TOOL 50mm STROKE H=90mm



PartNumber	Description	I	MAX RPM	Reversible	Ext Cool
TKW0590100	Broaching/Slotting Driven Tool 50mm Stroke	4:1	2000	X	X

BROACHING/SLOTING DRIVEN TOOL 25mm STROKE H=90mm

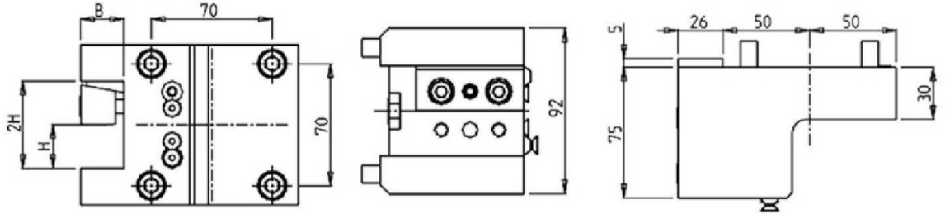
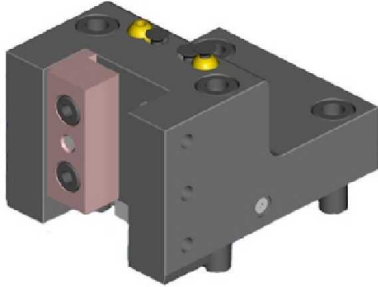


PartNumber	Description	I	MAX RPM	Reversible	Ext Cool
TKW0590200	Broaching/Slotting Driven Tool 25mm Stroke	4:1	2400	X	X

STATIC

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - MX-800 - VTL450M - EX2000M/Y - LX2500M

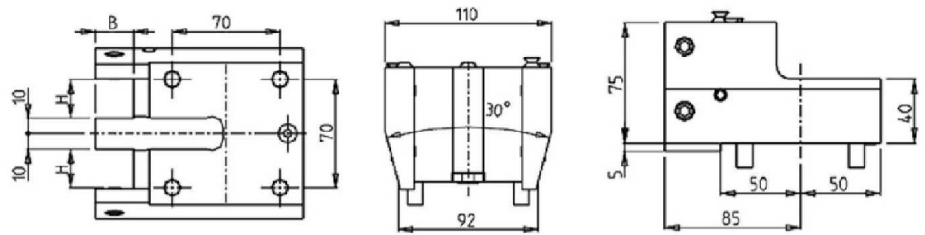
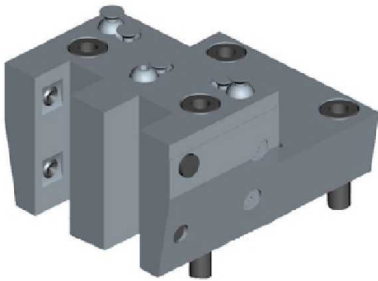
RADIAL SINGLE STATIC TOOL H=75mm



PartNumber	Description	# of Tools	Dimensions	B	H
TKW0882500	Radial Single Static Tool 25mm	1	mm	25	25

EX708/710/910 - NEX108/110/908/910 - LA200/250Y - LA250YS 15ST. - FX-800 - EX2000Y

RADIAL SINGLE SIDE TWIN STATIC TOOL

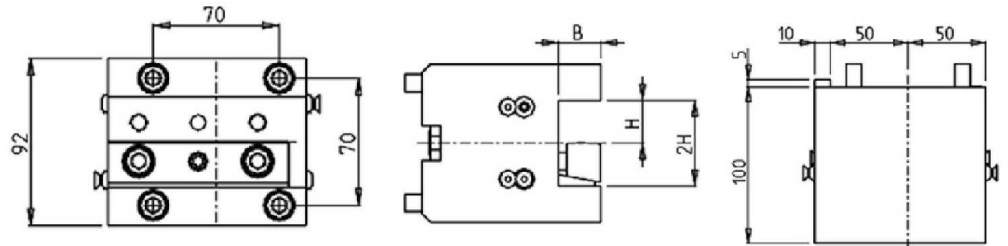
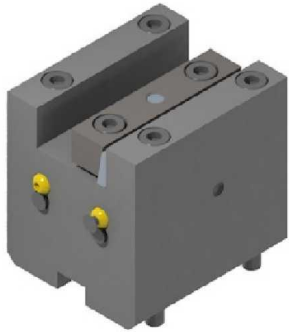


PartNumber	Description	Dimensions	H	B
TKW0902500	Radial Single Side Twin Static Tool 25mm	mm	25	25

STATIC

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - MX-800 - VTL450M - EX2000M/Y - LX2500M

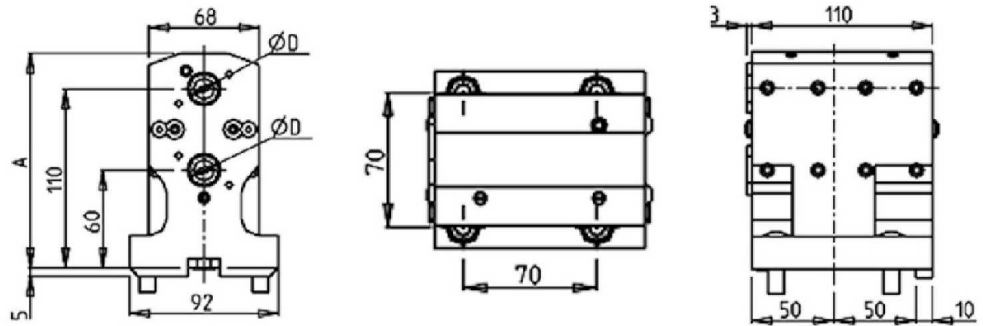
AXIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Dimensions	B	H
TKW0892500	Axial Single Static Tool 25mm	1	mm	25	25

EX308/310 - NEX108/110 - LA200/250 M/Y - LA250YS 15ST.

AXIAL DOUBLE BORING BAR HOLDER

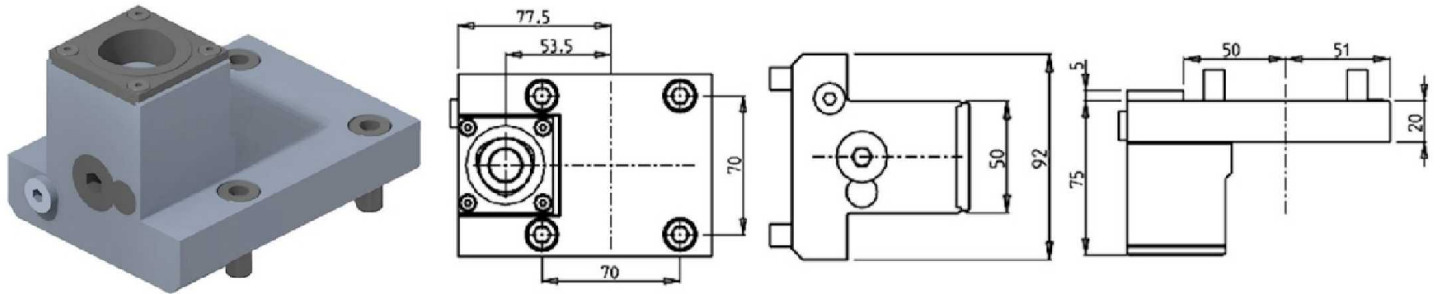


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	A	D
TKW0872000	Axial Double BBH 20mm	2	X	X	mm	132	20
TKW0872500	Axial Double BBH 25mm	2	X	X	mm	134	25
TKW0873200	Axial Double BBH 32mm	2	X	X	mm	134	32
KIT1000015	20mm Plug to Make BBH Cool Thru*						
KIT1000006	25mm or 1" Plug to Make BBH Cool Thru*						
KIT1000001	32mm or 1-1/4" Plug to Make BBH Cool Thru*						

STATIC

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - MX-800 - VTL450M - EX2000M/Y - LX2500M

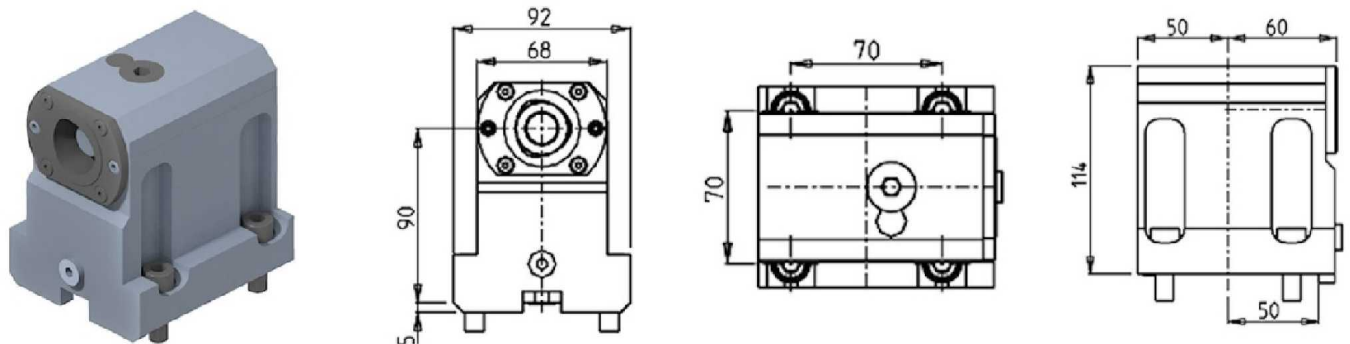
RADIAL SINGLE STATIC TOOL CAPTO C4



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Size
TKW0844010	Radial Single Static Tool Capto C4 Right Version	1	X	X	C4
TKW0844010LC	Radial Single Static Tool Capto C4 Left Version	1	X	X	C4

EX308/310/508/510/708/710/910 - TC350MC - TT350MC - NEX108/110/908/910 - LA200/250 M/Y - LA250YS 15ST. - FX-800 - VTL450M - EX2000M/Y - LX2500M

AXIAL SINGLE STATIC TOOL CAPTO C4

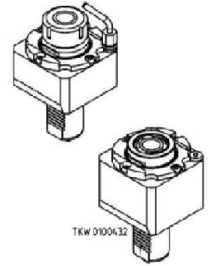
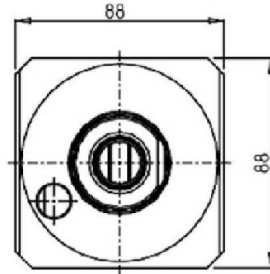
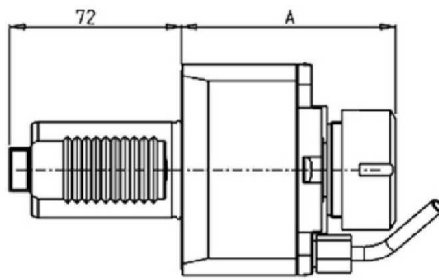
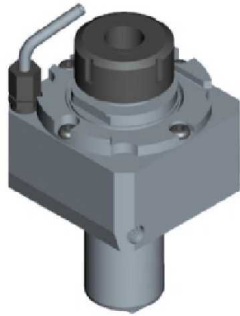


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Size
TKW0854010	Axial Single Static Tool Capto C4 Right Version	1	X	X	C4
TKW0854010LC	Axial Single Static Tool Capto C4 Left Version	1	X	X	C4

DRIVEN

TMM200/250 - TNR200

RADIAL DRIVEN TOOL VDI40



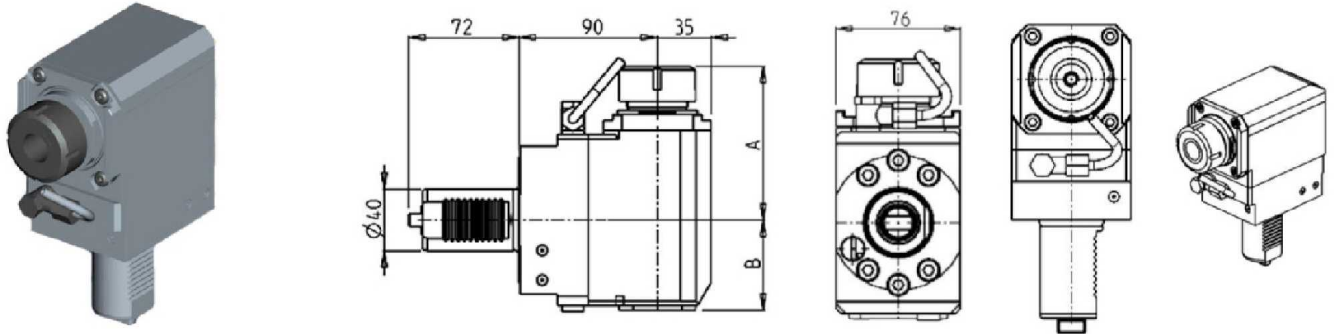
PartNumber	Description	Takisawa Code	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0100132	Radial Driven VDI40 ER32	GM81998-640A	ER32	1:1	6000		X	89.66
TKW0100432	Radial Driven VDI40 ERA32 Cool Thru*		ERA32	1:1	6000	X	X	84

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

DRIVEN

TMM200/250 - TNR200

AXIAL DRIVEN TOOL FOR MAIN SPINDLE VDI40

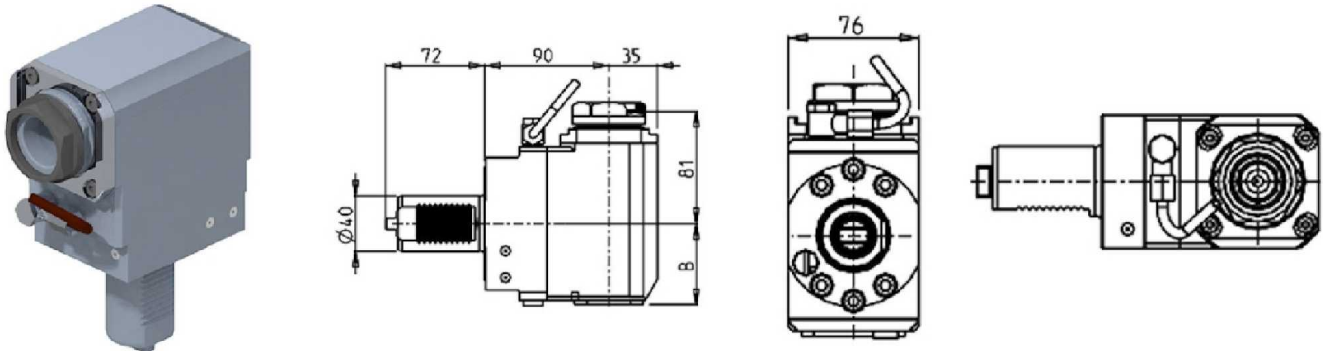


PartNumber	Description	Takisawa Code	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
TKW0090132	Axial VDI40 Driven Tool ER32	GM81998-642A	ER32	1:1	6000		X	99.7	58.5
TKW0090232	Axial VDI40 Driven Tool ER32 Cool Thru*		ER32	1:1	6000	X	X	99.7	69.5
TKW0090140	Axial VDI40 Driven Tool ER40		ER40	1:1	6000		X	103.7	58.5
TKW0090240	Axial VDI40 Driven Tool ER40 Cool Thru*		ER40	1:1	6000	X	X	103.7	69.5

* 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 MAIN SPINDLE VDI40

Please see Accessories for MTSK Clamping Units



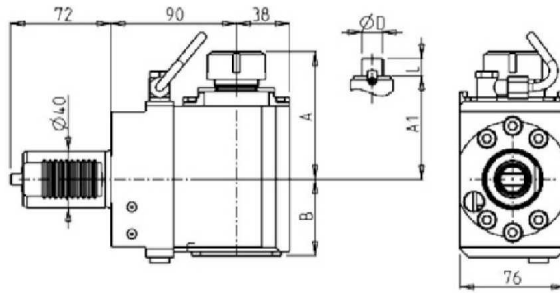
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0510140	Axial VDI40 MTSK-40 Driven Tool	MTSK-40	1:1	6000		X	58.5
TKW0510240	Axial VDI40 MTSK-40 Driven Tool Cool Thru*	MTSK-40	1:1	6000	X	X	69.5

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

DRIVEN

TMM200/250 - TNR200

AXIAL DRIVEN TOOL FOR MAIN SPINDLE VDI40



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
TKW0140125	Axial VDI40 ER25	ER25	1:1	6000		X	91.16		54.5		
TKW0140225	Axial VDI40 ER25 Cool Thru*	ER25	1:1	6000	X	X	91.16		67		
TKW0140325	Axial VDI40 ERA25	ERA25	1:1	6000		X	65		54.5		
TKW0140425	Axial VDI40 ERA25 Cool Thru*	ERA25	1:1	6000	X	X	65		67		
TKW0140132	Axial VDI40 ER32	ER32	1:1	6000		X	93.66		54.5		
TKW0140232	Axial VDI40 ER32 Cool Thru*	ER32	1:1	6000	X	X	93.66		67		
TKW0140140	Axial VDI40 ER40	ER40	1:1	6000		X	98.16		54.5		
TKW0140240	Axial VDI40 ER40 Cool Thru*	ER40	1:1	6000	X	X	98.16		67		
TKW0140516	Axial VDI40 Mill Head 16X17	16x17	1:1	6000		X		67.5	54.5	16	17
TKW0140522	Axial VDI40 Mill Head 22X19	22x19	1:1	6000		X		67.5	54.5	22	19
TKW0140527	Axial VDI40 Mill Head 27X21	27x21	1:1	6000		X		70	54.5	27	21

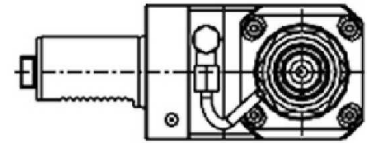
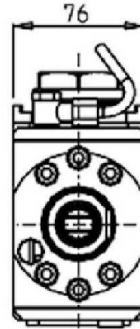
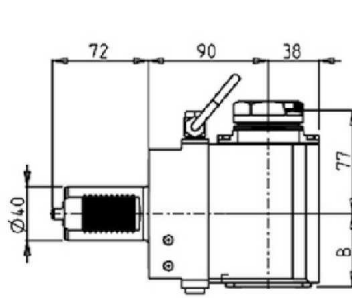
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TMM200/250 - TNR200

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR MAIN SPINDLE VDI40

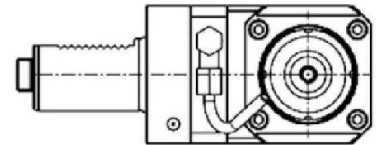
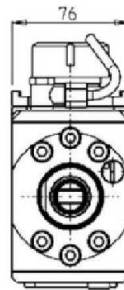
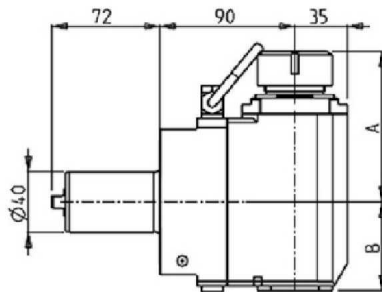
Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0520140	Axial VDI40 MTSK-40 Driven Tool	MTSK-40	1:1	6000		X	54.5
TKW0520240	Axial VDI40 MTSK-40 Driven Tool Cool Thru*	MTSK-40	1:1	6000	X	X	67

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

AXIAL DRIVEN TOOL FOR SUBSPINDLE VDI40



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
TKW0091132	Axial VDI40 Driven Tool ER32	ER32	1:1	6000		X	99.7	58.5
TKW0091232	Axial VDI40 Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	99.7	69.5
TKW0091140	Axial VDI40 Driven Tool ER40	ER40	1:1	6000		X	103.7	58.5
TKW0091240	Axial VDI40 Driven Tool ER40 Cool Thru*	ER40	1:1	6000	X	X	103.7	69.5

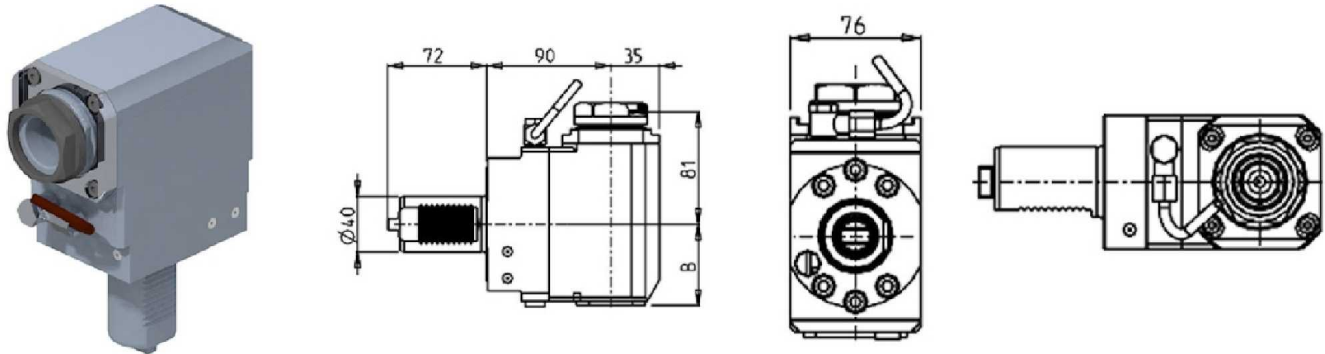
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TMM200/250 - TNR200

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR SUBSPINDLE VDI40

Please see Accessories for MTSK Clamping Units



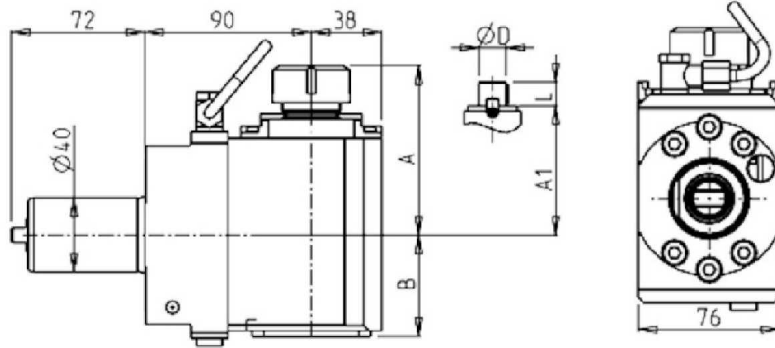
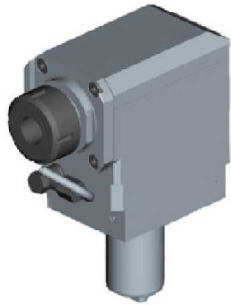
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0511140	Axial VDI40 MTSK-40 Driven Tool	MTSK-40	1:1	6000		X	58.5
TKW0511240	Axial VDI40 MTSK-40 Driven Tool Cool Thru*	MTSK-40	1:1	6000	X	X	69.5

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

DRIVEN

TMM200/250 - TNR200

AXIAL DRIVEN TOOL FOR SUBSPINDLE VDI40



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	B	D	L
TKW0141125	Axial VDI40 Sub-Spindle ER25	ER25	1:1	6000		X	91.16		54.5		
TKW0141225	Axial VDI40 Sub-Spindle ER25	ER25	1:1	6000	X	X	91.16		67		
TKW0141325	Axial VDI40 Sub-Spindle ERA25	ERA25	1:1	6000		X	65		54.5		
TKW0141425	Axial VDI40 Sub-Spindle ERA25	ERA25	1:1	6000	X	X	65		67		
TKW0141132	Axial VDI40 Sub-Spindle ER32	ER32	1:1	6000		X	93.66		54.5		
TKW0141232	Axial VDI40 Sub-Spindle ER32	ER32	1:1	6000	X	X	93.66		67		
TKW0141140	Axial VDI40 Sub-Spindle ER40	ER40	1:1	6000		X	98.16		54.5		
TKW0141240	Axial VDI40 Sub-Spindle ER40	ER40	1:1	6000	X	X	98.16		67		
TKW0141516	Axial VDI40 Sub-Spindle 16x17	16x17	1:1	6000		X		67.5	54.5	16	17
TKW0141522	Axial VDI40 Sub-Spindle 22x19	22x19	1:1	6000		X		67.5	54.5	22	19
TKW0141527	Axial VDI40 Sub-Spindle 27x21	27x21	1:1	6000		X		70	54.5	27	21

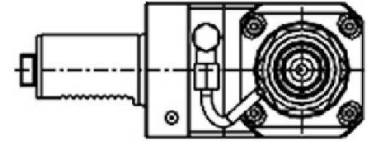
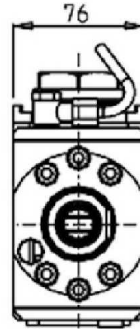
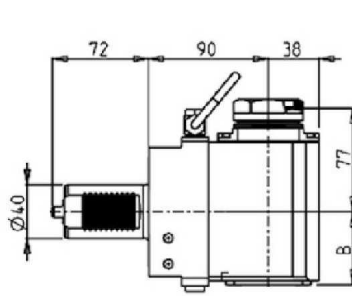
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TMM200/250 - TNR200

QUICK CHANGE AXIAL MTSK DRIVEN TOOL FOR SUBSPINDLE VDI40

Please see Accessories for MTSK Clamping Units



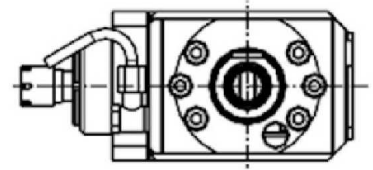
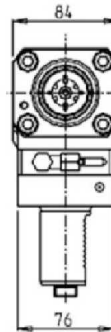
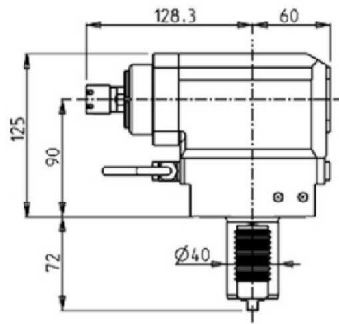
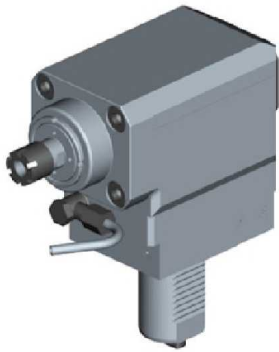
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0521140	Axial VDI40 MTSK-40 Driven Tool	MTSK-40	1:1	6000		X	54.5
TKW0521240	Axial VDI40 MTSK-40 Driven Tool Cool Thru*	MTSK-40	1:1	6000	X	X	67

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

DRIVEN

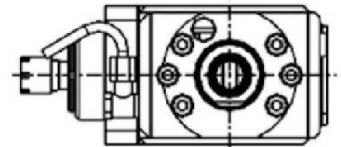
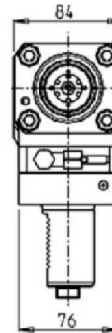
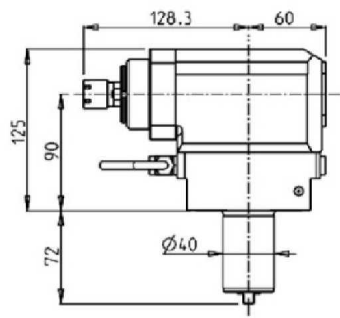
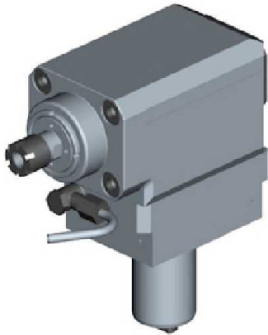
TMM200/250 - TNR200

AXIAL GEARED-UP 1:3 DRIVEN TOOL FOR MAIN SPINDLE VDI40 H=90mm



PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0260016	Axial Geared-Up 1:3 Driven Tool VDI40	ER16	1:3	18000	X

AXIAL GEARED-UP 1:3 DRIVEN TOOL FOR SUBSPINDLE VDI40 H=90mm

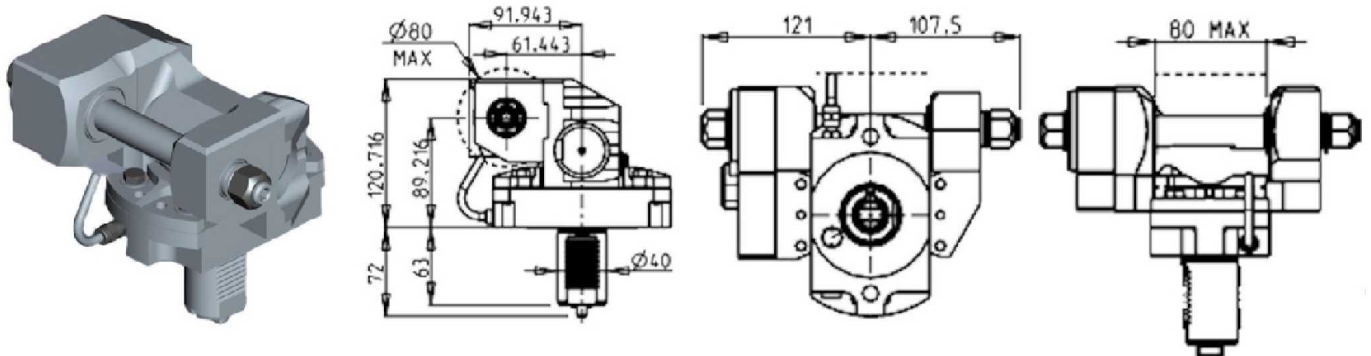


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0261016	Axial Geared-Up 1:3 Driven Tool VDI40	ER16	1:3	18000	X

DRIVEN

TMM200/250 - TNR200

DRIVEN GEAR HOBBER VDI40



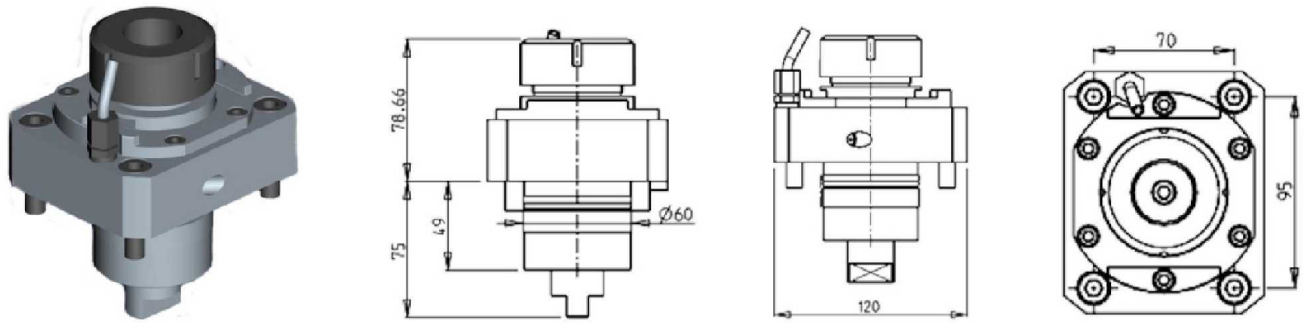
PartNumber	Description	I	MAX RPM	Ext Cool	D (mm)	D (inch)	VDI
TKW0151100	Driven Gear Hobber VDI40 1:1	1:1	4000	X	16-22-27-32	3/4"-1"-1 1/4"	Right
TKW0151110	Driven Gear Hobber VDI40 1:1	1:1	4000	X	16-22-27-32	3/4"-1"-1 1/4"	Left
TKW0152100	Driven Gear Hobber VDI40 Geared-Down 2:1	2:1	2000	X	16-22-27-32	3/4"-1"-1 1/4"	Right
TKW0152110	Driven Gear Hobber VDI40 Geared-Down 2:1	2:1	2000	X	16-22-27-32	3/4"-1"-1 1/4"	Left

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

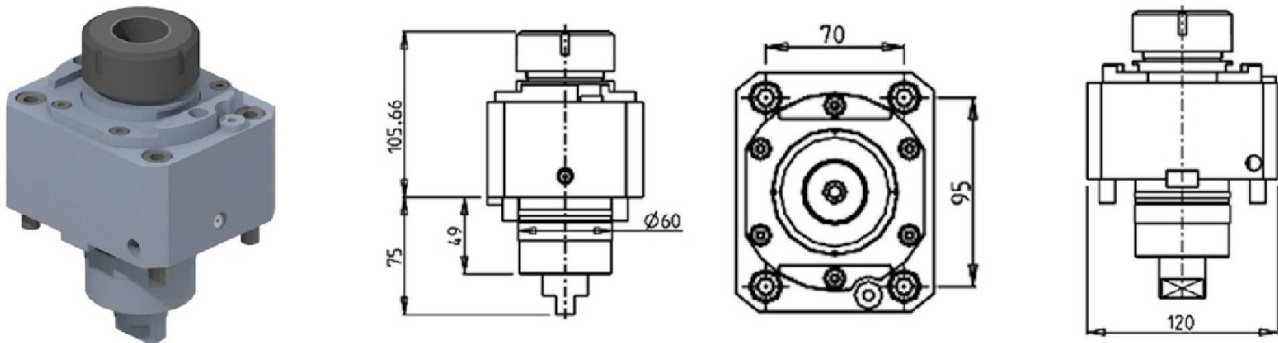
NEX315/715 - LS800M - VTL750M - LA350M - LA250YS 12ST.

RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0170140	Radial Driven Tool ER40	ER40	1:1	3500	X

RADIAL DRIVEN TOOL HIGH PRESSURE



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0660140	Radial Driven Tool ER40 Cool Thru*	ER40	1:1	3500	X	X

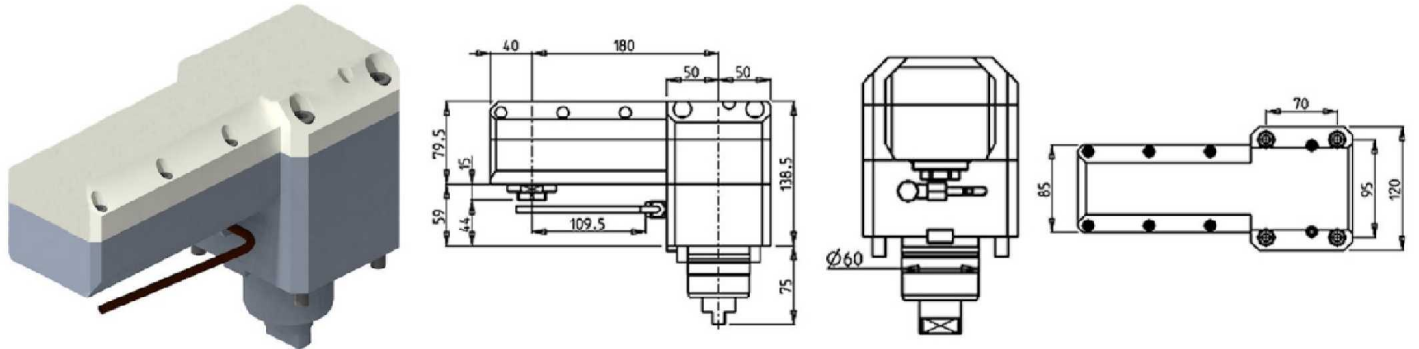
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

NEX315/715 - LS800M - VTL750M - LA350M - LA250YS 12ST.

RADIAL INVERTED DRIVEN TOOL REDIRECTED IN Z BY 180mm

For machining internal holes with Ø120 min. hole

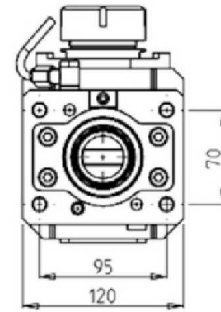
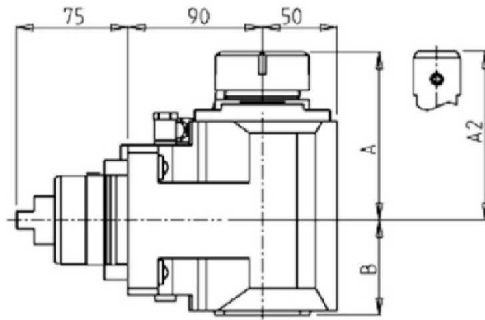


PartNumber	Description	Spindle	I	MAX RPM	Ext Cool
TKW0790325	Radial Inverted Driven Tool Redirected ERA25	ERA25	1:1	3500	X

DRIVEN

NEX315/715 - LS800M - VTL750M - LA350M - LA250YS 12ST.

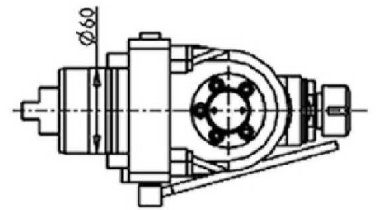
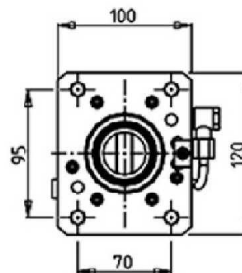
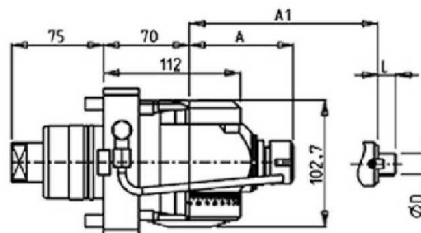
AXIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A	A2	B
TKW0160140	Axial Driven Tool ER40	ER40	1:1	3500	X		X	112.16	63.5	
TKW0160240	Axial Driven Tool ER40 Cool Thru*	ER40	1:1	3500	X	X	X	112.16		76
TKW0160532	Axial Driven Tool Weldon 32	Weldon 32	1:1	3500	X		X		107	63.5
TKW0160632	Axial Driven Tool Weldon 32 Cool Thru*	Weldon 32	1:1	3500	X	X	X		107	76

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

(0-180) ADJUSTABLE ANGLE DRIVEN TOOL H=70mm



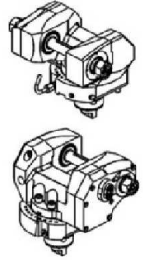
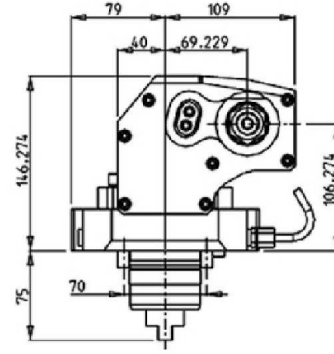
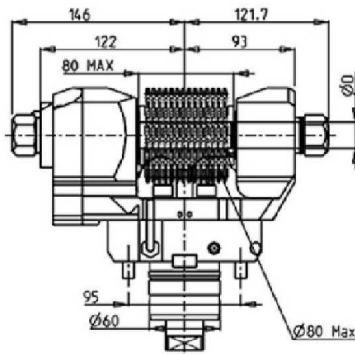
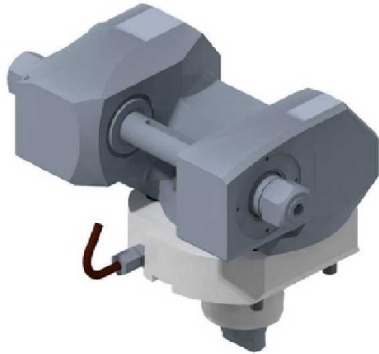
PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
TKW0760120	(0-180) Adj. Angle ER20	ER20	1:1	3500	X	X	85.16			
TKW0760125	(0-180) Adj. Angle ER25	ER25	1:1	3500	X	X	86.16			
TKW0760519	(0-180) Adj. Angle 3/4"x3/4"	3/4"x3/4"	1:1	3500	X	X		65	3/4"	3/4"
TKW0760516	(0-180) Adj. Angle 16x17	16x17	1:1	3500	X	X		65	16	17
TKW0760522	(0-180) Adj. Angle 22x19	22x19	1:1	3500	X	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

NEX315/715 - LS800M - VTL750M - LA350M - LA250YS 12ST.

REINFORCED DRIVEN GEAR HOBBER



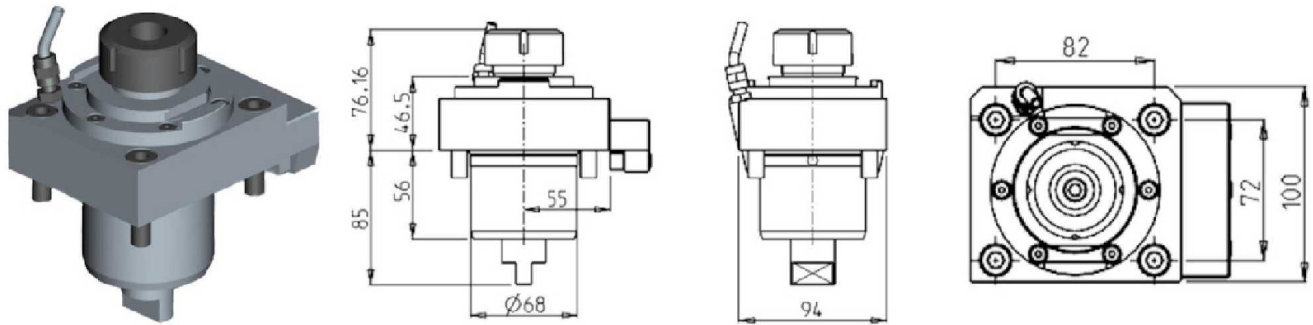
PartNumber	Description	I	MAX RPM	Ext Cool	D (mm)	D (Inch)
TKW0451100	Reinforced Driven Gear Hobb 1:1	1:1	3500	X	16-22-27-32	3/4"-1"-1 1/4"
TKW0452100	Reinforced Driven Gear Hobb Geared-Down 2:1	2:1	1750	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

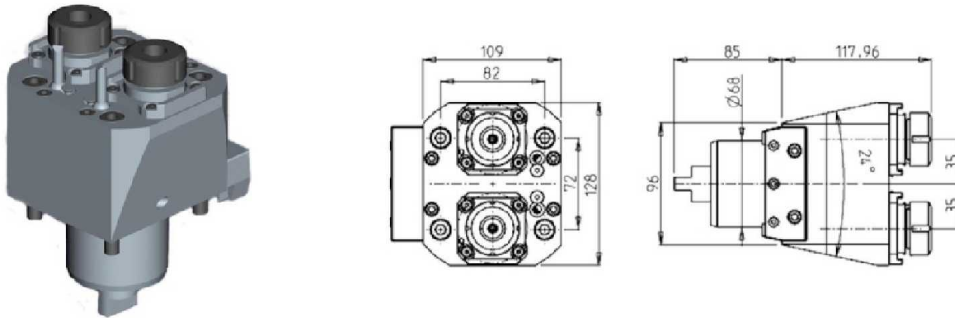
TY2000Y/YS/CS

RADIAL DRIVEN TOOL



PartNumber	Description	Takisawa Code	Spindle	I	RPM	Ext Cool
TKW0190132	Radial Driven Tool ER32	GM81999-440	ER32	1:1	6000	X

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y



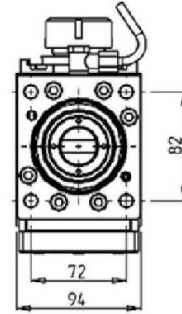
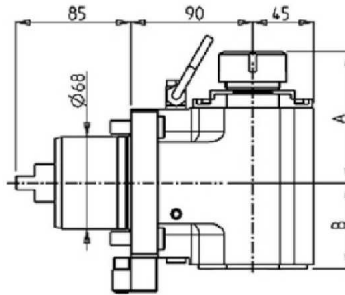
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0210125	Radial Single Side Twin ER25	ER25	1:1	6000		X
TKW0210225	Radial Single Side Twin ER25 Cool Thru*	ER25	1:1	6000	X	X

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

DRIVEN

TY2000Y/YS/CS

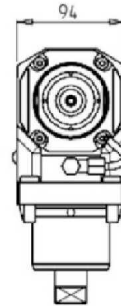
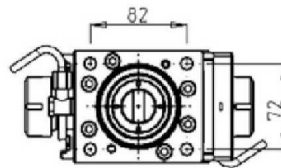
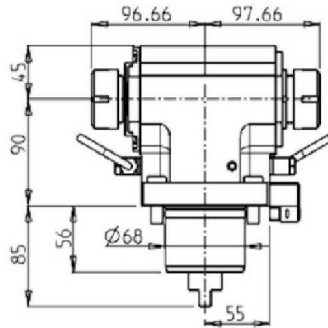
AXIAL DRIVEN TOOL



PartNumber	Description	Takisawa Code	Spindle	I	RPM	Cool Thru	Ext Cool	A	B
TKW0180132	Axial Driven Tool ER32	GM81999-441	ER32	1:1	6000		X	96.7	63
TKW0180232	Axial Driven Tool ER32 Cool Thru*		ER32	1:1	6000	X	X	96.7	79.5
TKW0180140	Axial Driven Tool ER40		ER40	1:1	6000		X	99.7	63
TKW0180240	Axial Driven Tool ER40 Cool Thru*		ER40	1:1	6000	X	X	99.7	79.5

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

AXIAL OPPOSITE FACE DRIVEN TOOL

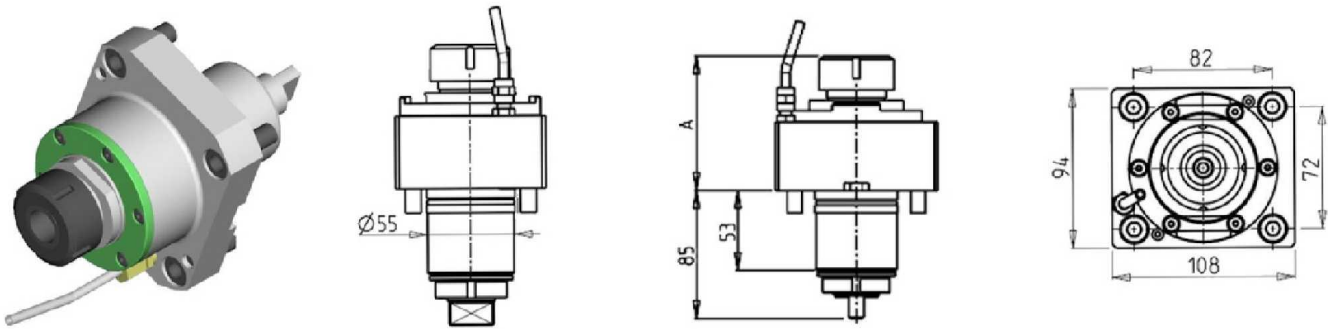


PartNumber	Description	Spindle	Reversible	I	RPM	Ext Cool
TKW0200132	Axial Opposite Face Driven ER32+ER32	ER32+ER32	X	1:1	6000	X

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

RADIAL DRIVEN TOOL

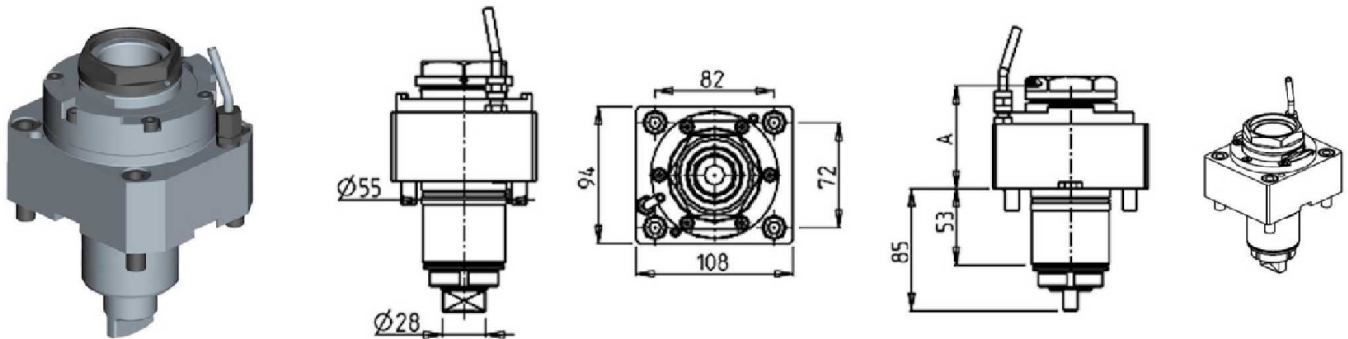


PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0300132	Radial Driven Tool ER32	ER32	1:1	6000		X	89.16
TKW0800132	Radial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	70 BAR	X	96.41
TKW0300240	Radial Driven Tool ER40 Cool Thru*	ER40	1:1	6000	30 BAR	X	98.16

* 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

QUICK CHANGE RADIAL MTSK DRIVEN TOOL

Please see Accessories for MTSK Clamping Units



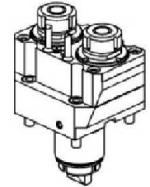
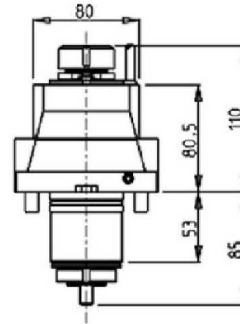
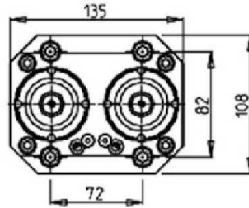
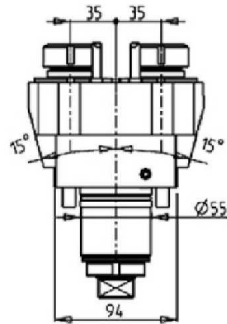
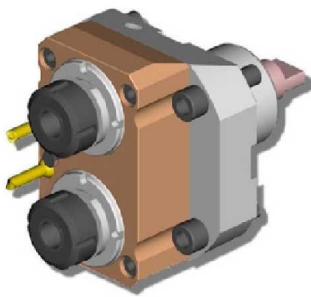
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0460150	Radial MTSK-50 Driven Tool	MTSK-50	1:1	6000		X	71.5
TKW0460250	Radial MTSK-50 Driven Tool Cool Thru*	MTSK-50	1:1	6000	X	X	78.5

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

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

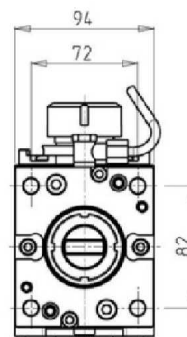
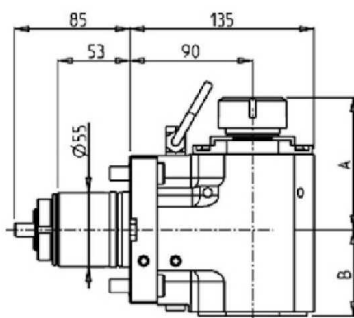


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0540225	Radial Single Side Twin ER25	ER25	1:1	6000	X

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

AXIAL DRIVEN TOOL

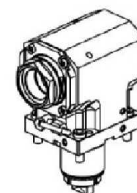
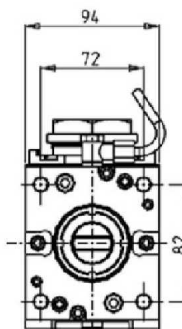
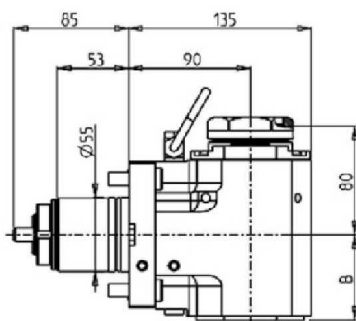
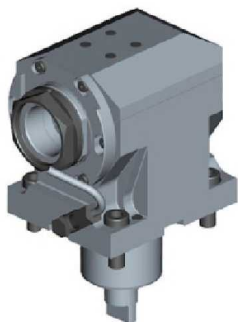


PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A	B
TKW0310132	Axial Driven Tool ER32	ER32	1:1	6000	X		X	96.7	63
TKW0310232	Axial Driven Tool ER32 Cool Thru*	ER32	1:1	6000	X	X	X	96.7	79.5
TKW0310140	Axial Driven Tool ER40	ER40	1:1	6000	X		X	99.7	63
TKW0310240	Axial Driven Tool ER40 Cool Thru*	ER40	1:1	6000	X	X	X	99.7	79.5

* 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



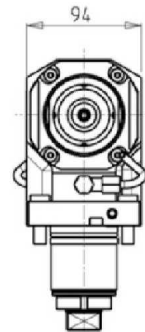
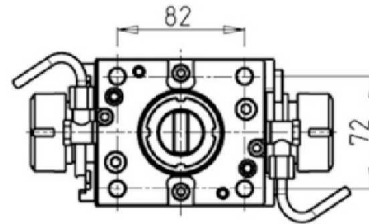
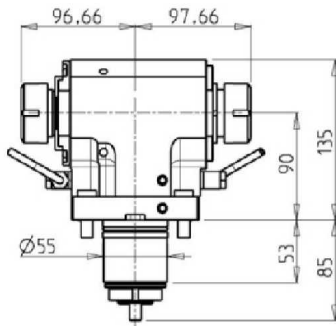
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
TKW0470150	Axial MTSK-50 Driven Tool	MTSK-50	1:1	6000	X		X	63
TKW0470250	Axial MTSK-50 Driven Tool Cool Thru*	MTSK-50	1:1	6000	X	X	X	79.5

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

DRIVEN

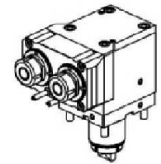
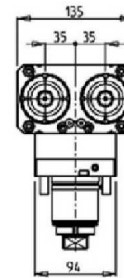
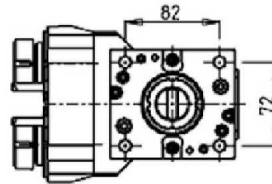
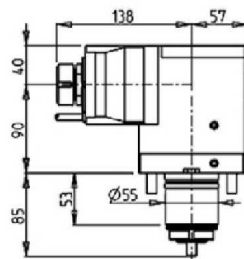
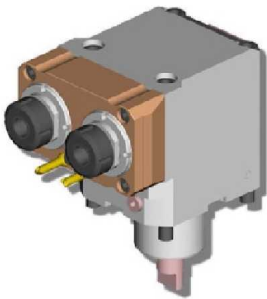
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

AXIAL OPPOSITE FACE DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
TKW0320132	Axial Opposite Face Driven Tool ER32+ER32	ER32+ER32	1:1	6000	X	X

AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y

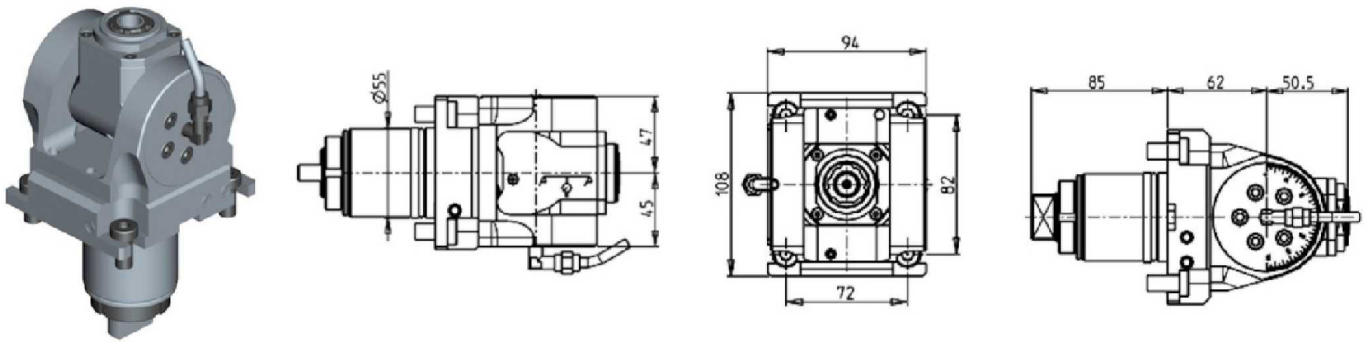


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
TKW0530225	Axial Single Side Twin ER25	ER25	1:1	6000	X	X

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

(0-180) ADJUSTABLE ANGLE DRIVEN TOOL



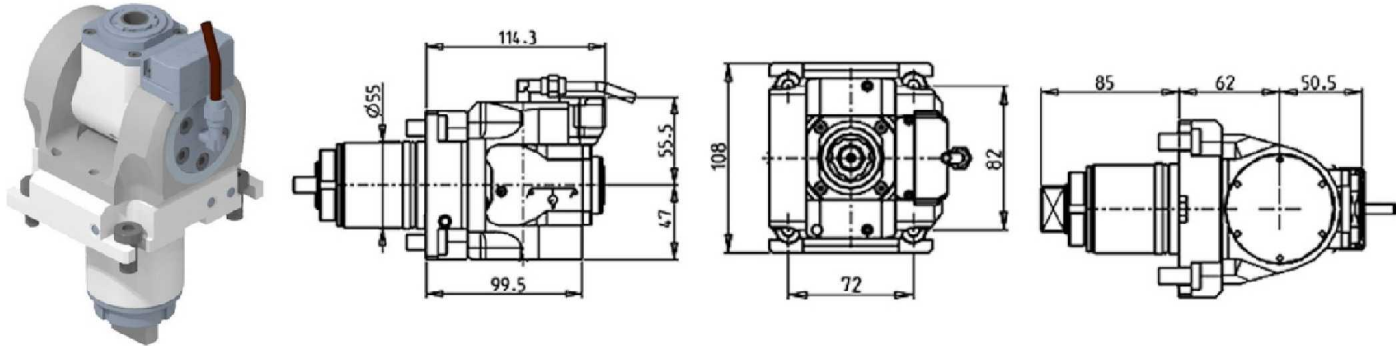
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0330120	(0-180) Adj. Angle ERA20	ERA20	1:1	6000		X
TKW0330220	(0-180) Adj. Angle ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* 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
TKW0335120	(0-180) Adj. Angle ERA20 with Digital Display	ERA20	1:1	6000		X
TKW0335220	(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.

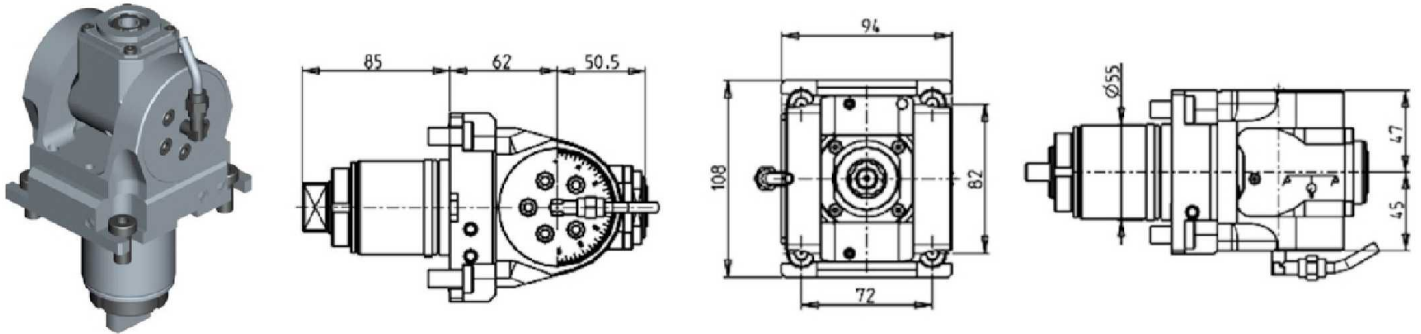
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

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



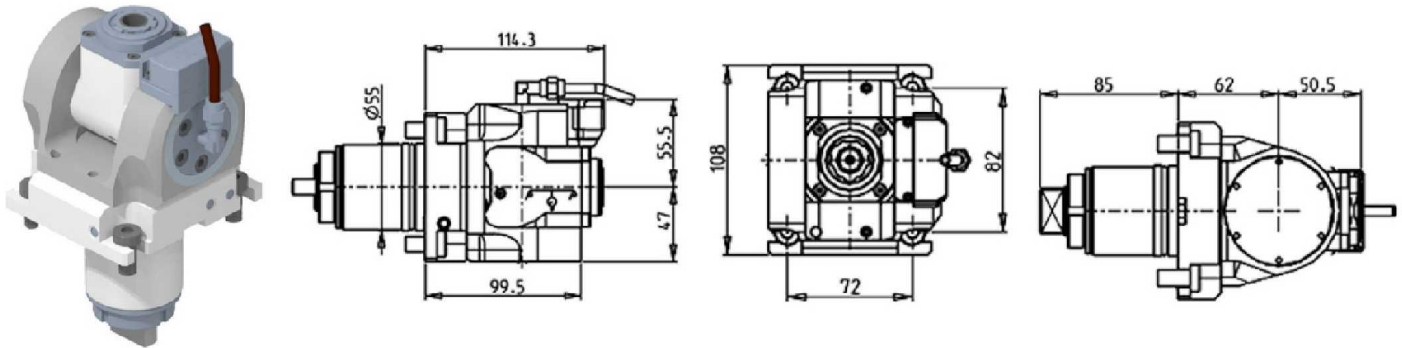
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0330316	(0-180) Adj. Angle Geared-Up 1:2 ERA16	ERA16	1:2	12000		X
TKW0330416	(0-180) Adj. Angle Geared-Up 1:2 ERA16 Cool Thru*	ERA16	1:2	12000	X	X

* 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 GEARED-UP 1:2 DRIVEN TOOL WITH DIGITAL DISPLAY



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
TKW0335316	(0-180) Adj. Angle ERA16 Geared-Up 1:2 with Digital Display	ERA16	1:2	12000		X
TKW0335416	(0-180) Adj. Angle ERA16 Geared-Up 1:2 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.

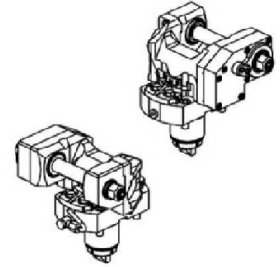
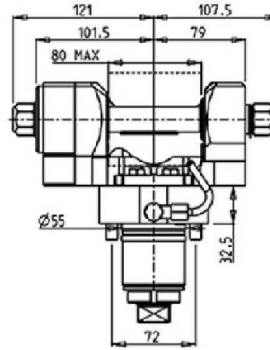
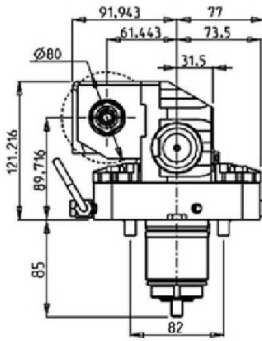
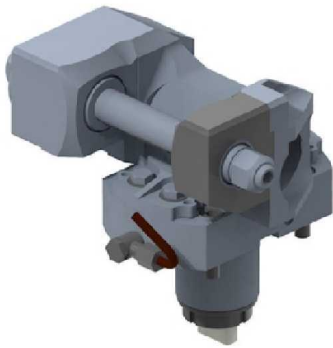
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

DRIVEN GEAR HOBBER



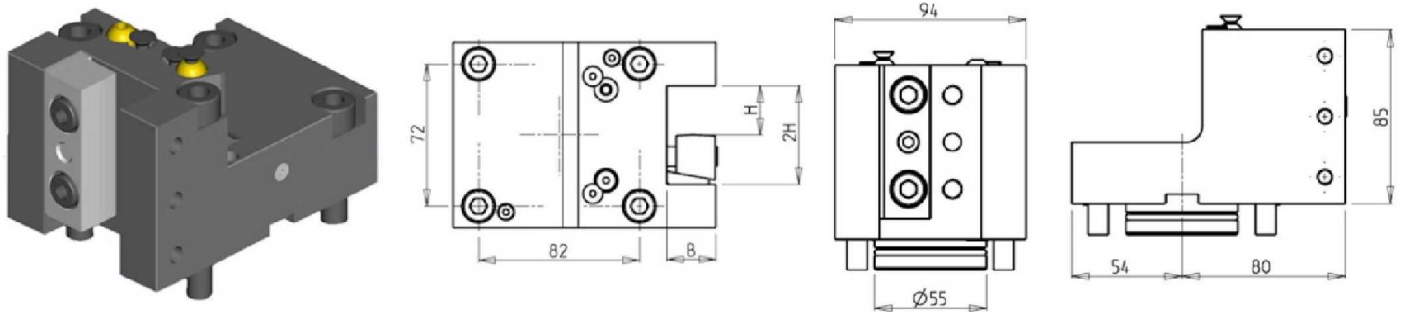
PartNumber	Description	I	MAX RPM	Reversible	Ext Cool	D (mm)	D (Inch)
TKW0861100	Driven Gear Hobb 1:1	1:1	6000	X	X	16-22-27-32	3/4"-1"-1 1/4"
TKW0862100	Driven Gear Hobb Geared-Down 2:1	2:1	3000	X	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

STATIC

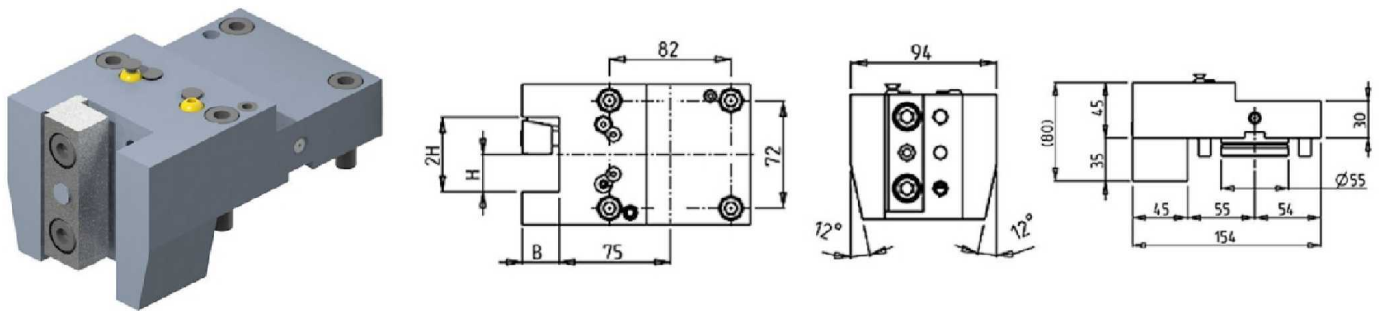
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

RADIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
TKW0342500	Radial Single Static Tool 25mm	1/2	X	mm	25	25

RADIAL REAR-SET SINGLE STATIC TOOL

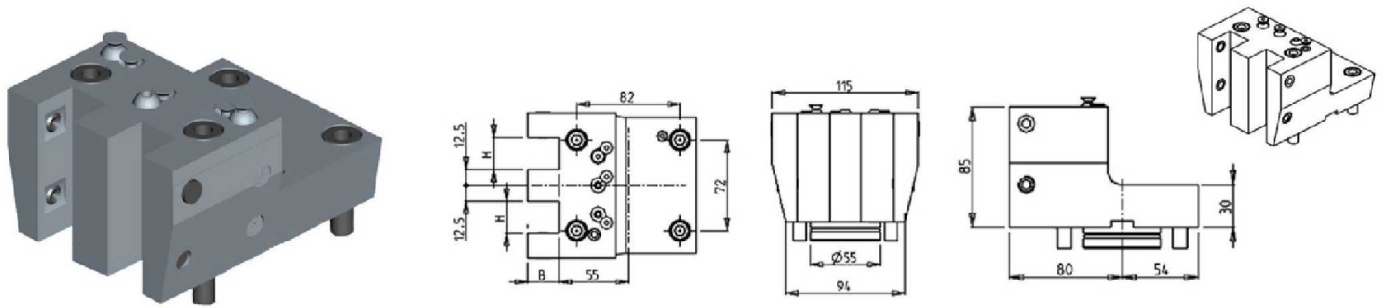


PartNumber	Description	# of Tools	Dimensions	B	H
TKW0582500	Radial Rear-Set Single Static Tool 25mm	1/2	mm	25	25

STATIC

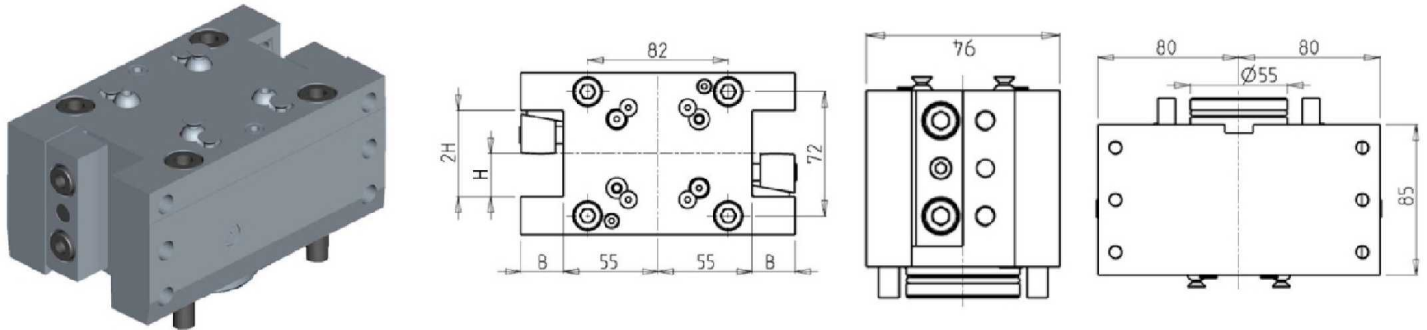
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

RADIAL SINGLE SIDE TWIN STATIC TOOL



PartNumber	Description	Reversible	Dimensions	H	B
TKW0552500	Radial Single Side Twin Static Tool 25mm	X	mm	25	25

RADIAL DOUBLE STATIC TOOL

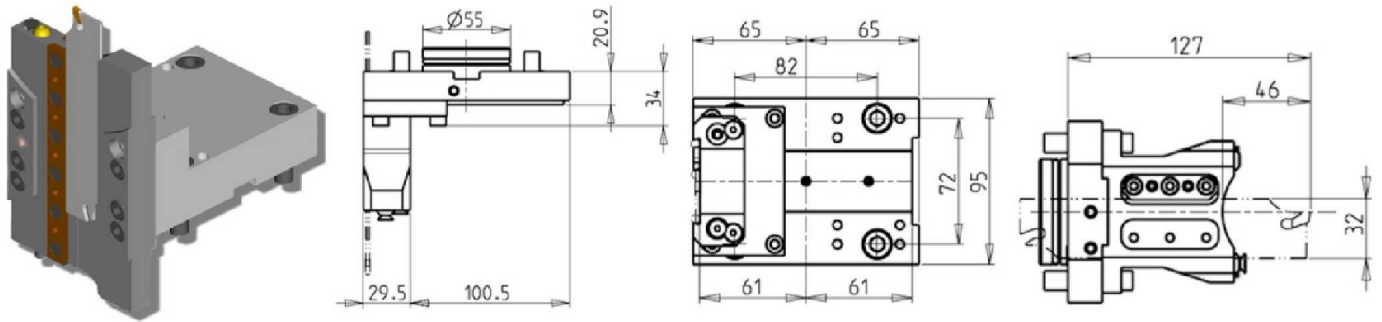


PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
TKW0352500	Radial Double Static Tool 25mm	2/4	X	mm	25	25

STATIC

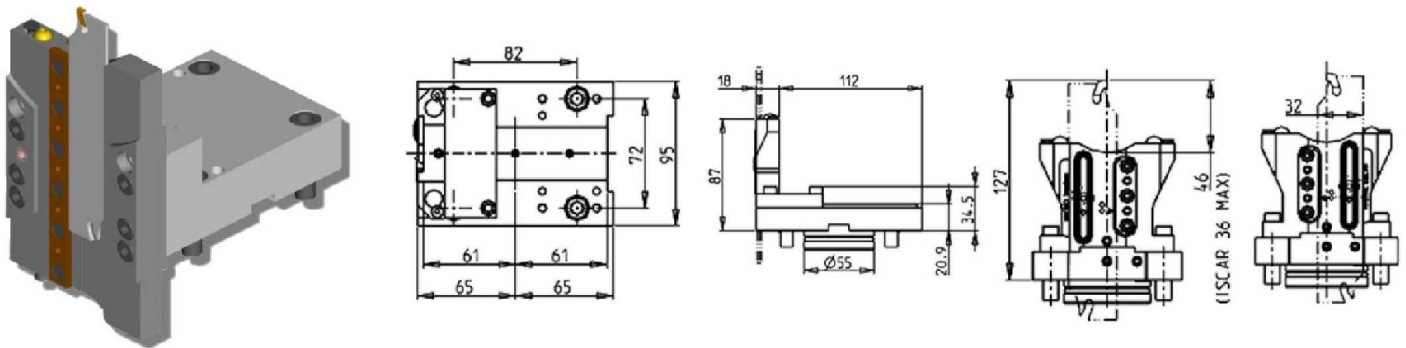
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

RADIAL BLADE HOLDER WITH BLADE KIT



PartNumber	Description	# of Tools	Reversible	Ext Cool
TKW0360132	Radial Blade Holder with Blade Kit	1	X	X
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts			

RADIAL BLADE HOLDER WITH INTERNAL COOLANT-BLADE KIT NOT INCLUDED

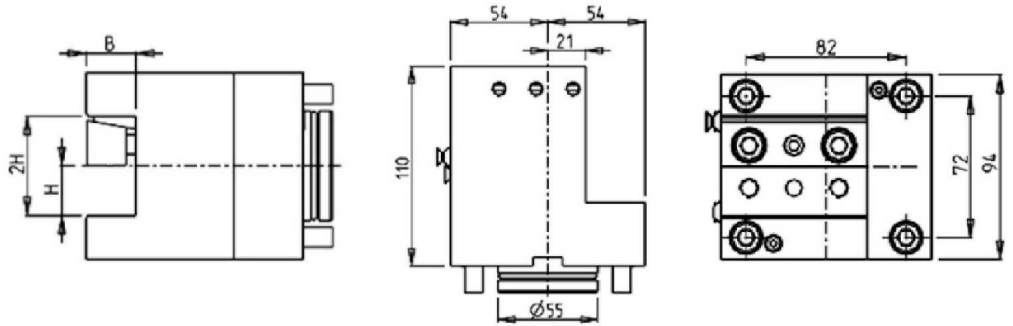
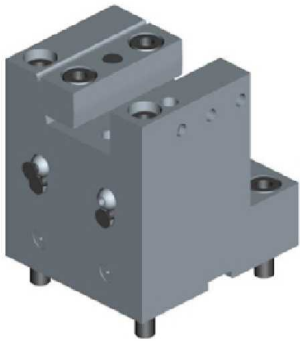


PartNumber	Description	# of Tools	Reversible	Ext Cool	Cool Thru
TKW0370132R	Radial Blade Holder with Cool Thru Right Hand	1	X	X	X
TKW0370132L	Radial Blade Holder with Cool Thru Left Hand	1	X	X	X
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts				

STATIC

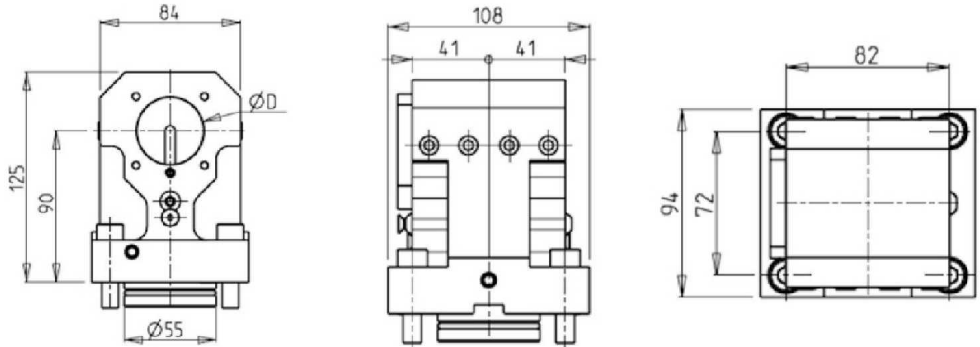
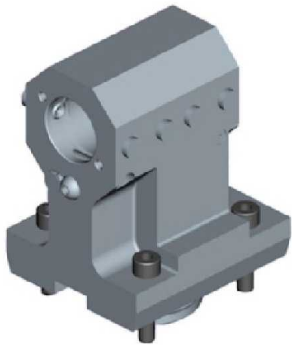
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

AXIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
TKW0382500	Axial Single Static Tool 25mm	1/2	X	mm	25	25

AXIAL SINGLE BORING BAR HOLDER H=90mm

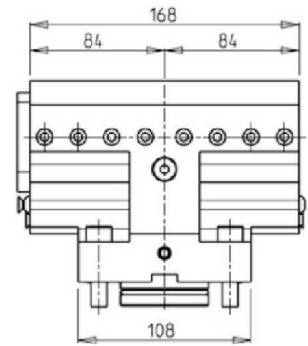
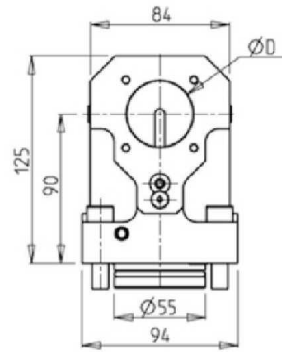


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D
TKW0394000	Axial Single Boring Bar Holder 40mm	1	X	X	mm	40
KIT1000031	Plug for 40mm BBH to Make Cool Thru*					

STATIC

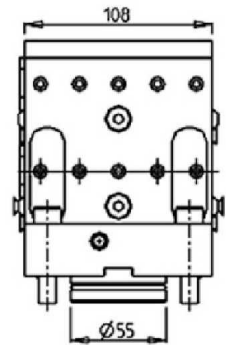
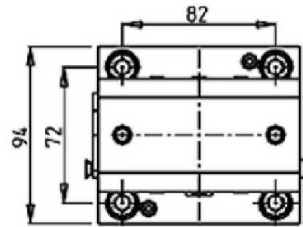
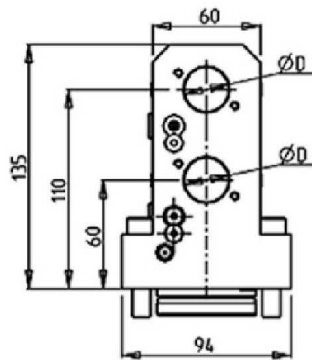
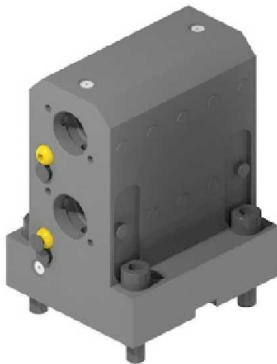
TS3000/4000/5000 Y/YS 15 ST. - TM4000 12ST.

AXIAL OPPOSITE FACE BORING BAR HOLDER H=90mm



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D
TKW0414000	Axial Opposite Face Boring Bar Holder 40mm	1	X	X	mm	40
KIT1000031	Plug for 40mm BBH to Make Cool Thru*					

AXIAL DOUBLE BORING BAR HOLDER

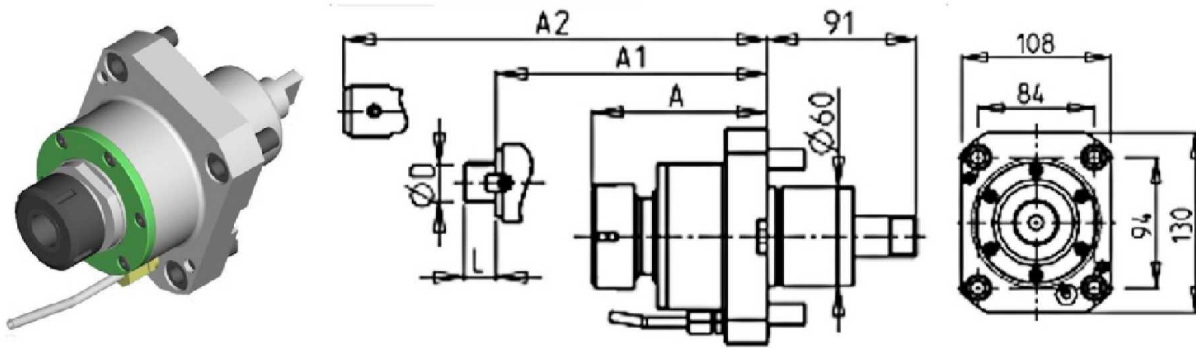


PartNumber	Description	Reversible	Cool Thru	Ext Cool	Dimensions	D
TKW0562500	Axial Double Boring Bar Holder 25mm	X	X	X	mm	25
KIT1000006	25mm or 1" Plug to Make BBH Cool Thru*					

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL DRIVEN TOOL



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A	A1	A2	D	L
MNL0020532	Radial ER32 Standard	ER32	1:1	6000		X	104.16				
MNL0021532	Radial ER32 Cool Thru*	ER32	1:1	6000	X	X	104.16				
MNL0020732	Radial ER32 Cool Thru*	ER32	1:1	6000	X		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				
MNL0021632	Radial ER32 Ext. Reach Cool Thru*	ER32	1:1	6000	X	X	144.16				
MNL0020140	Radial ER40 Standard	ER40	1:1	6000		X	106.66				
MNL0021140	Radial ER40 Cool Thru*	ER40	1:1	6000	X	X	106.66				
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	X	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	X	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	X	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	X	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	X	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	X	X				125.5	

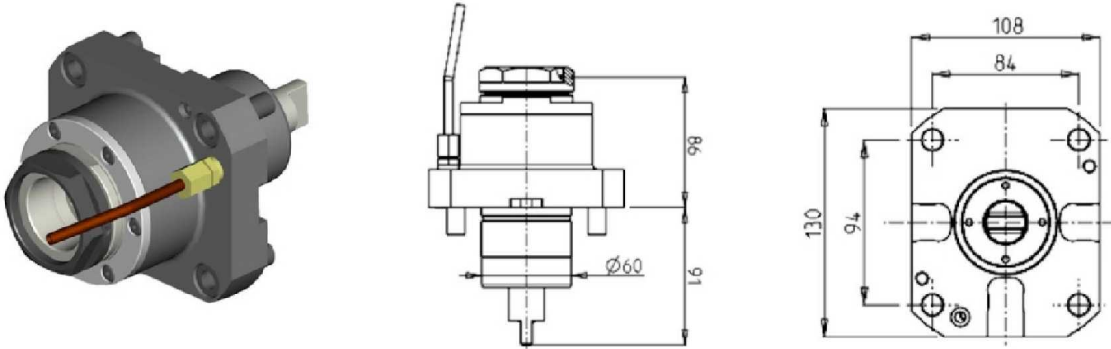
*Coolant Thru tools are designed for 400 psi MAX.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

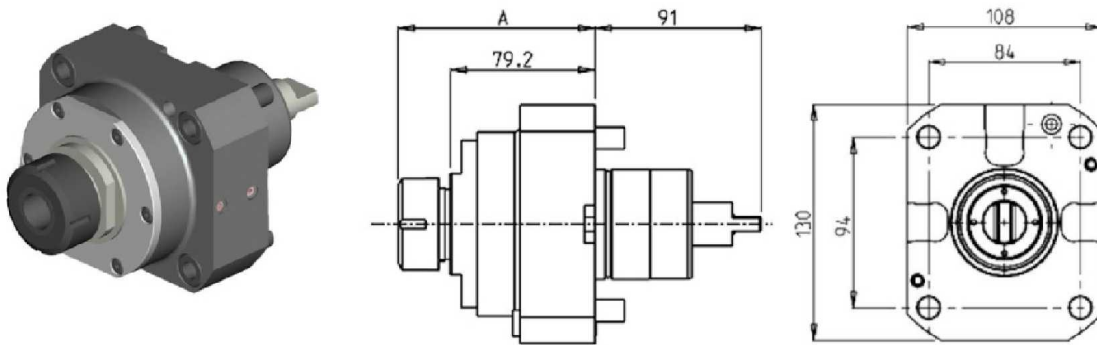
QUICK CHANGE RADIAL MTSK DRIVEN TOOL

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 HIGH PRESSURE



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0570125	Radial ER25 Cool Thru*	ER25	1:1	6000	X	X	104.8
MNL0570132	Radial ER32 Cool Thru*	ER32	1:1	6000	X	X	107.8

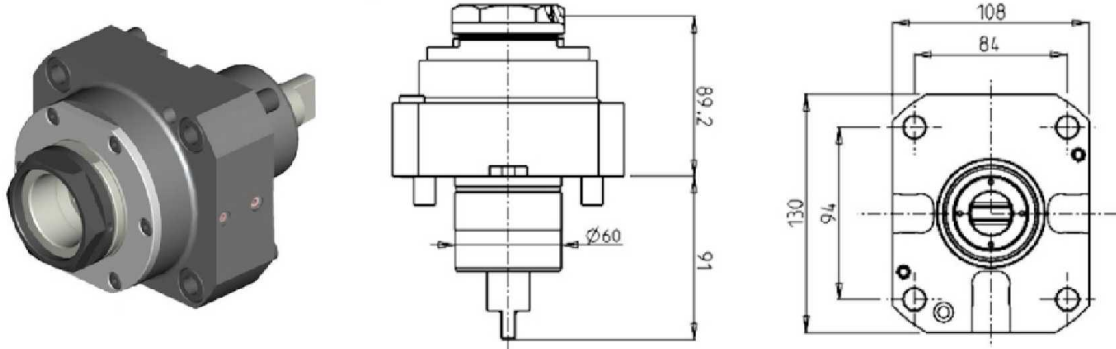
* Coolant Thru tools are designed for 1100 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

QUICK CHANGE RADIAL MTSK DRIVEN TOOL HIGH PRESSURE

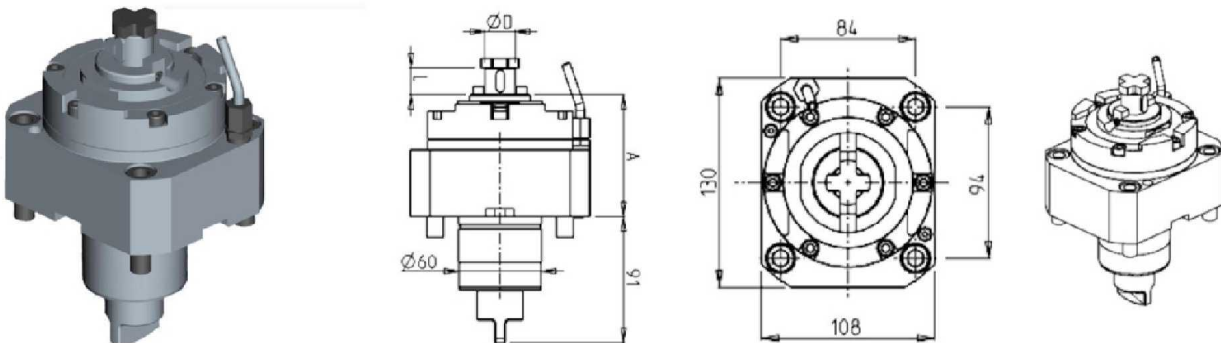
Please see Accessories for MTSK Clamping Units



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

* Coolant Thru tools are designed for 1100 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

RADIAL REINFORCED MILLING TOOL



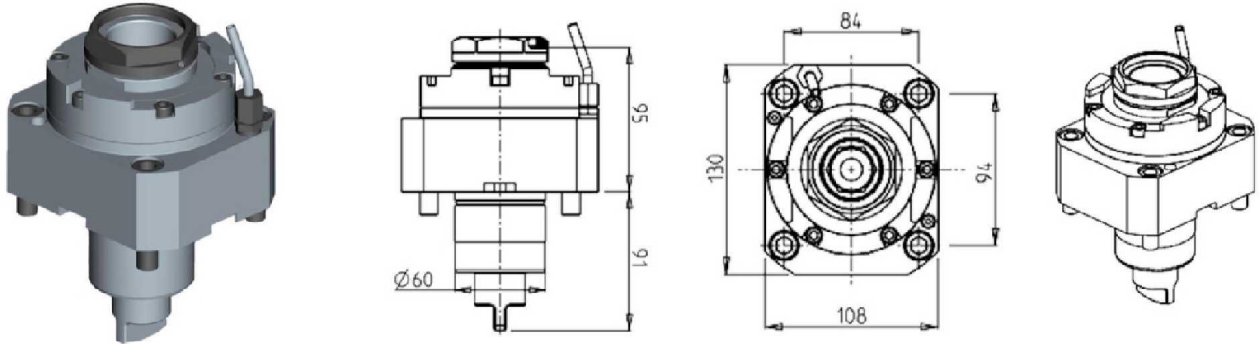
PartNumber	Description	Spindle	I	RPM	Ext Cool	A	D	L
MNL0732519	Radial Reinforced Driven Tool 1"x19mm	1"x19	1:1	4000	X	89	1"	19
MNL0732219	Radial Reinforced Driven Tool 22x19mm	22x19	1:1	4000	X	88	22	19
MNL0732721	Radial Reinforced Driven Tool 27x21mm	27x21	1:1	4000	X	89	27	21
MNL0733224	Radial Reinforced Driven Tool 32x24mm	32x24	1:1	4000	X	91	32	24

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

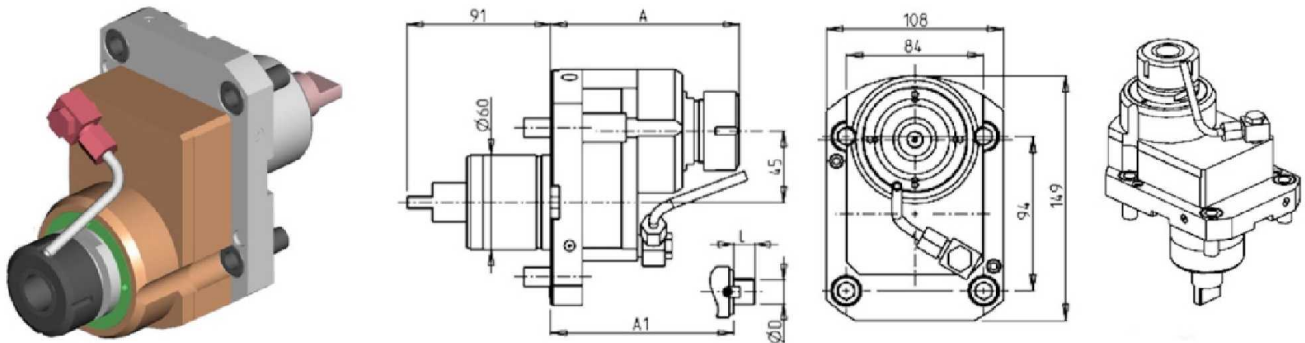
QUICK CHANGE RADIAL MTSK REINFORCED DRIVEN TOOL

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

RADIAL DRIVEN TOOL REDIRECTED IN Z BY 45mm



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A	A1	D	L
MNL0340120	Radial Redirected ER20	ER20	1:1	6000	X		X	115.66			
MNL0340220	Radial Redirected ER20 Cool Thru*	ER20	1:1	6000	X	X	X	126.66			
MNL0340032	Radial Redirected ER32	ER32	1:1	6000	X		X	119.66			
MNL0340132	Radial Redirected ER32 Cool Thru*	ER32	1:1	6000	X	X	X	131.16			
MNL0341119	Radial Redirected Mill Head 3/4"x3/4"	3/4"x3/4"	1:1	6000	X		X		98	3/4"	3/4"
MNL0342225	Radial Redirected Mill Head 1"x19mm	1"x19	1:1	6000	X		X		98	1"	19
MNL0341116	Radial Redirected Mill Head 16x17mm	16x17	1:1	6000	X		X		98	16	17
MNL0341122	Radial Redirected Mill Head 22x19mm	22x19	1:1	6000	X		X		98	22	19
MNL0341127	Radial Redirected Mill Head 27x21mm	27x21	1:1	6000	X		X		98	27	21

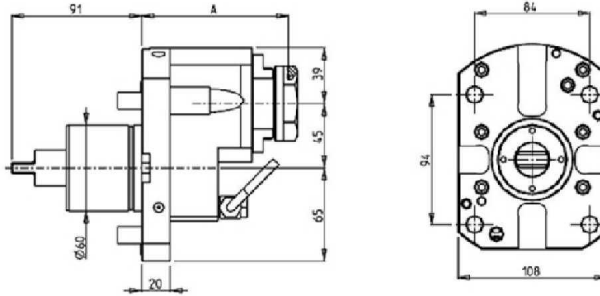
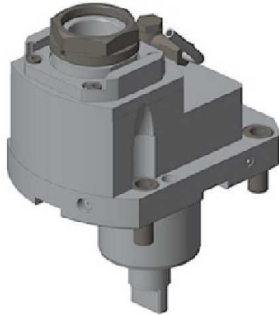
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

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

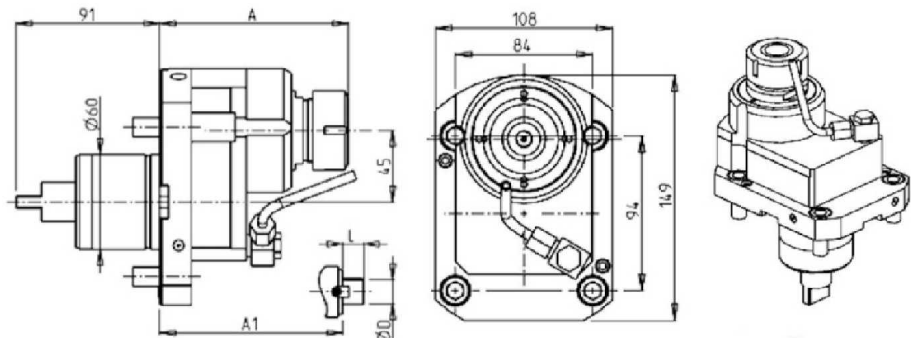
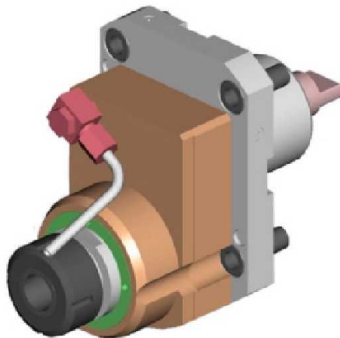
Please see Accessories for MTSK Clamping Units



PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	A
MNL1210140	Radial Redirected MTSK-40	MTSK-40	1:1	6000	X		X	103
MNL1210240	Radial Redirected MTSK-40 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 GEARED-DOWN 2:1 DRIVEN TOOL REDIRECTED IN Z BY 45mm



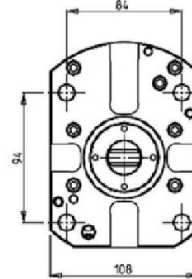
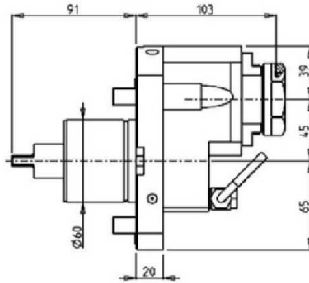
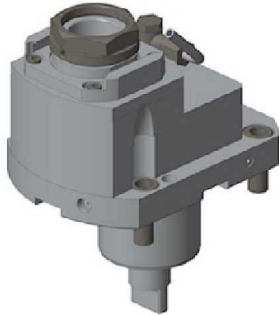
PartNumber	Description	Spindle	Reversible	I	RPM	Ext Cool	A	A1	D	L
MNL0342132	Radial Geared-Down 2:1 ER32	ER32	X	2:1	3000	X	119.66			
MNL0342119	Radial Geared-Down 2:1 Mill Head 3/4"x3/4"	3/4"x3/4"	X	2:1	3000	X	98	3/4"	3/4"	
MNL0342125	Radial Geared-Down 2:1 Mill Head 1"x19mm	1"x19	X	2:1	3000	X	98	1"	19	
MNL0342122	Radial Geared-Down 2:1 Mill Head 22x19mm	22x19	X	2:1	3000	X	98	22	19	
MNL0342127	Radial Geared-Down 2:1 Mill Head 27x21mm	27x21	X	2:1	3000	X	98	27	21	

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

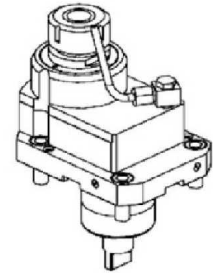
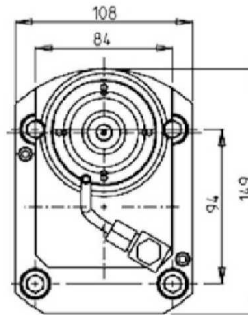
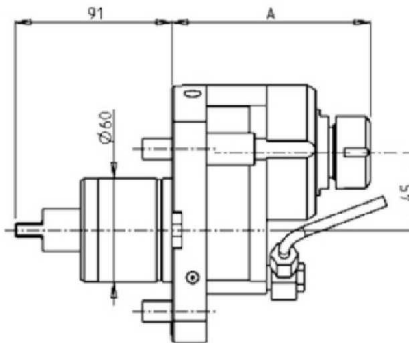
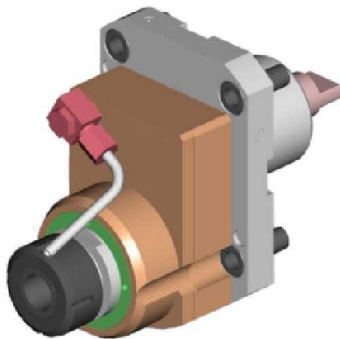
QUICK CHANGE RADIAL MTSK GEARED-DOWN 2:1 DRIVEN TOOL REDIRECTED IN Z BY 45mm

Please see Accessories for MTSK Clamping Units



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

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



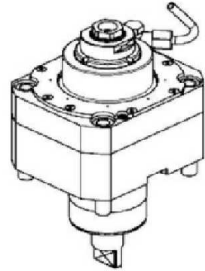
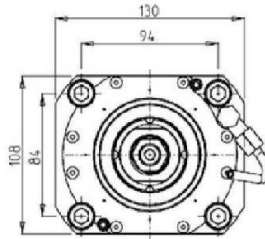
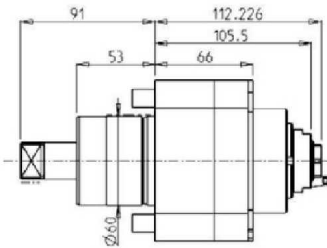
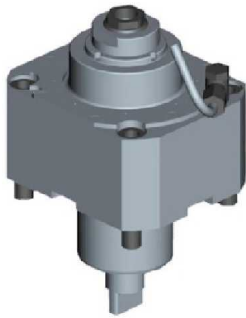
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A
MNL0341225	Radial Redirected ER25 Geared-Up 1:2	ER25	X	1:2	12000		X	115.16
MNL0342425	Radial Redirected ER25 Geared-Up 1:2 Cool Thru*	ER25	X	1:2	12000	X	X	126.16

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

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL GEARED-UP 1:5 DRIVEN TOOL



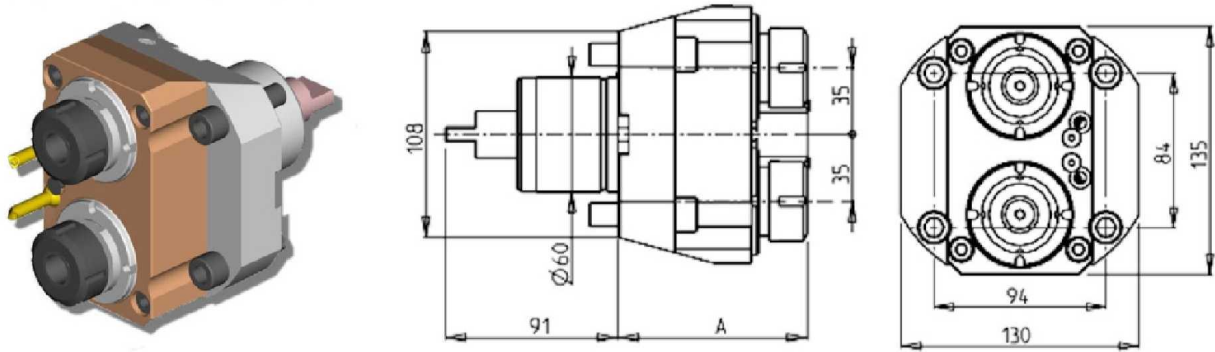
PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0690120	Radial Geared-Up 1:5 Driven Tool ERA20	ERA20	1:5	30000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

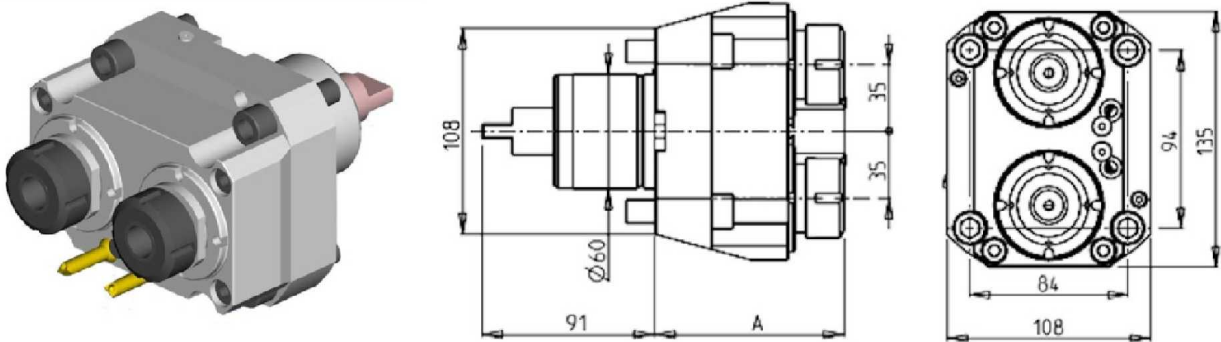
RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL FOR Y-AXIS



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0200225	Radial Single Side Twin Driven Tool ER25	ER25	1:1	6000		X	99.96
MNL0201225	Radial Single Side Twin Driven Tool ER25 Cool Thru*	ER25	1:1	6000	X	X	115.2
MNL0201325	Radial Single Side Twin Driven Tool ERA25 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.

RADIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL FOR Z-AXIS



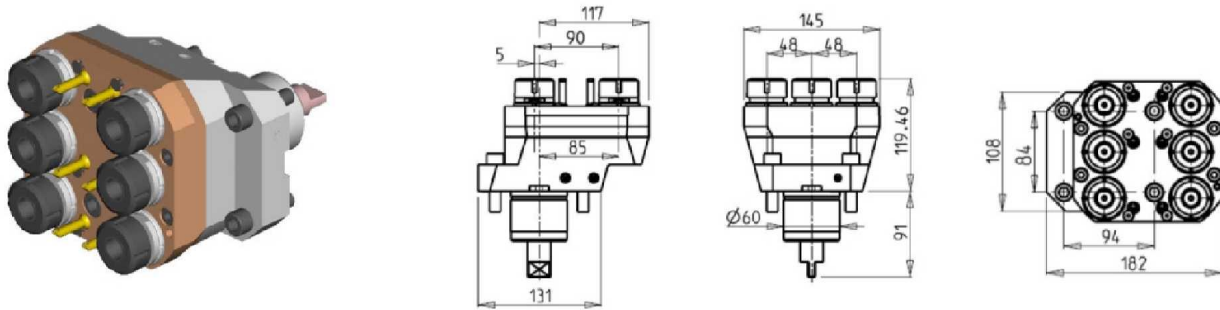
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0420225	Radial ER25 Double Outlet Tool for Z-Axis	ER25	1:1	6000		X	99.96
MNL0421225	Radial ER25 Double Outlet Tool for Z-Axis Cool Thru*	ER25	1:1	6000	X	X	115.2
MNL0421325	Radial ERA25 Double Outlet Tool for Z-Axis Cool Thru*	ERA25	1:1	6000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

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

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

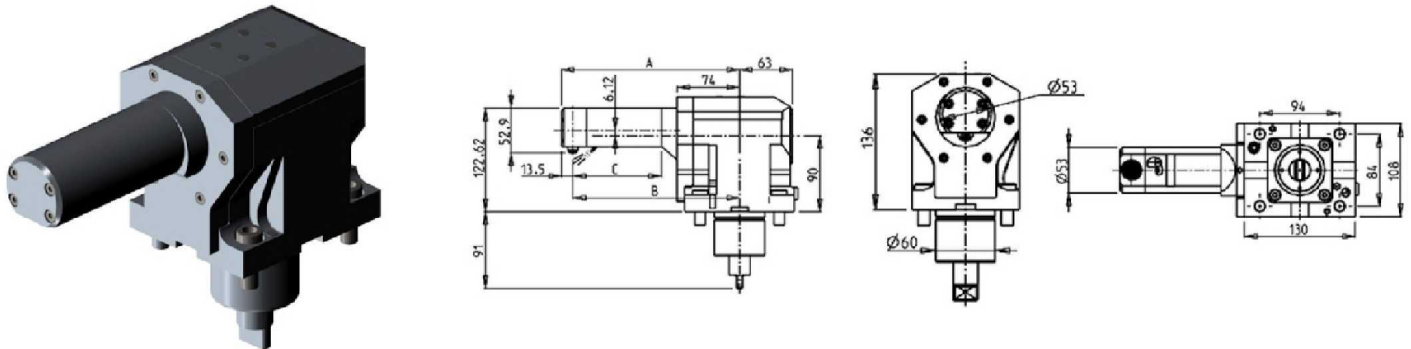
RADIAL 6 HEAD DRIVEN TOOL



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

Note : Wrenches are provided with the purchase of Specialty Toolholders

RADIAL INVERTED DRIVEN TOOL REDIRECTED IN Z



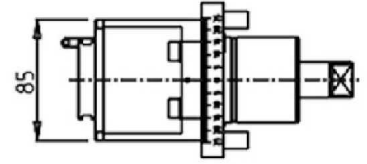
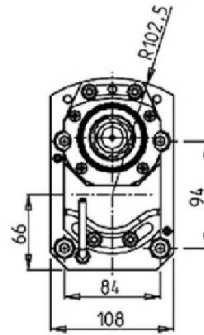
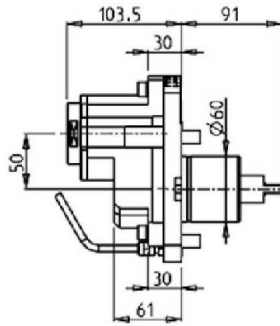
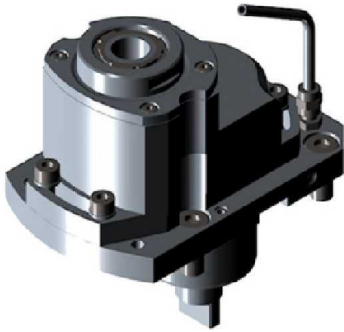
PartNumber	Description	Spindle	I	RPM	Ext Cool	A	B	C
MNL0961055	Radial Inverted Driven Tool	CHG	1:1	6000	X	161.5	148	55
MNL0961105	Radial Inverted Driven Tool	CHG	1:1	6000	X	211.5	198	105
MNL0961155	Radial Inverted Driven Tool	CHG	1:1	6000	X	261.5	248	155

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL ±25° ADJUSTABLE ANGLE DRIVEN TOOL REDIRECTED BY 50mm

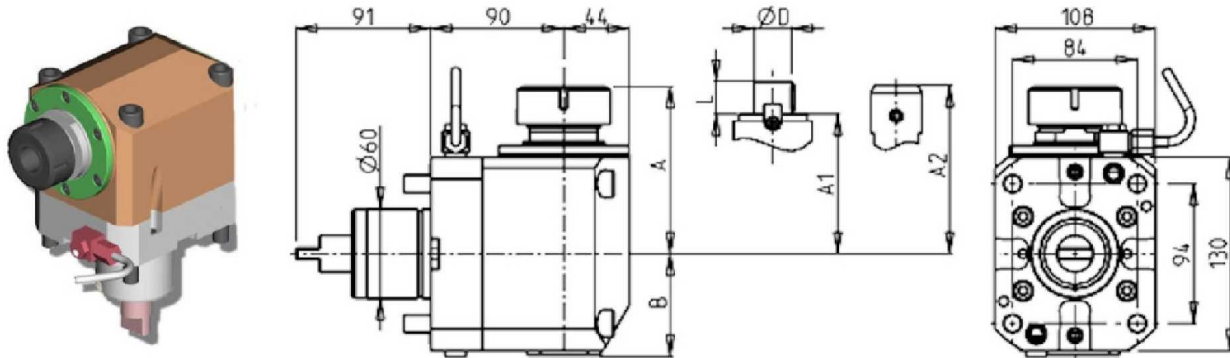


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0950332	Radial ±25° Adjustable Angle ERA32	ERA32	1:1	6000	X	X

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL DRIVEN TOOL



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	A2	B	D	L
MNL0010525	Axial ER25	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	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	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	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 16x17mm	16x17	X	1:1	6000		X		87.5		69	16	17
MNL0012219	Axial Mill Head 22x19mm	22x19	X	1:1	6000		X		87.5		69	22	19
MNL0012721	Axial Mill Head 27x21mm	27x21	X	1:1	6000		X		87.5		69	27	21
MNL0012519	Axial Mill Head 1"x19mm	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		

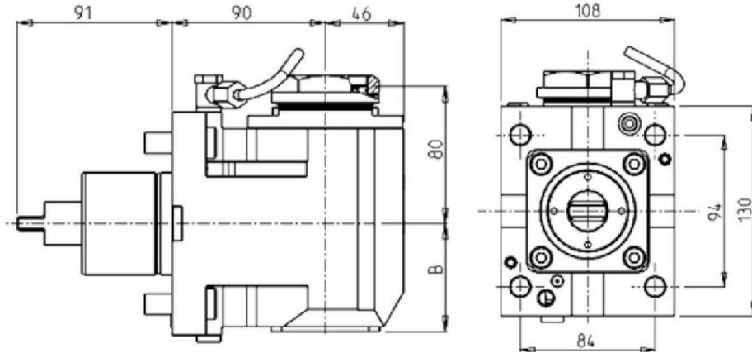
* Coolant Thru tools are designed for 1000 psi.
They require 5 Micron Filtration and **CANNOT** be run dry.

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

QUICK CHANGE AXIAL MTSK DRIVEN TOOL

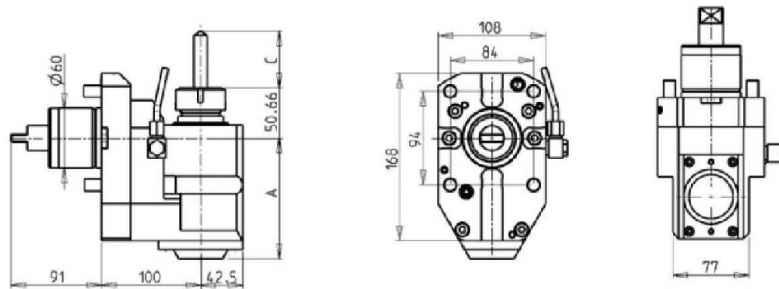
Please see Accessories for MTSK Clamping Units



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



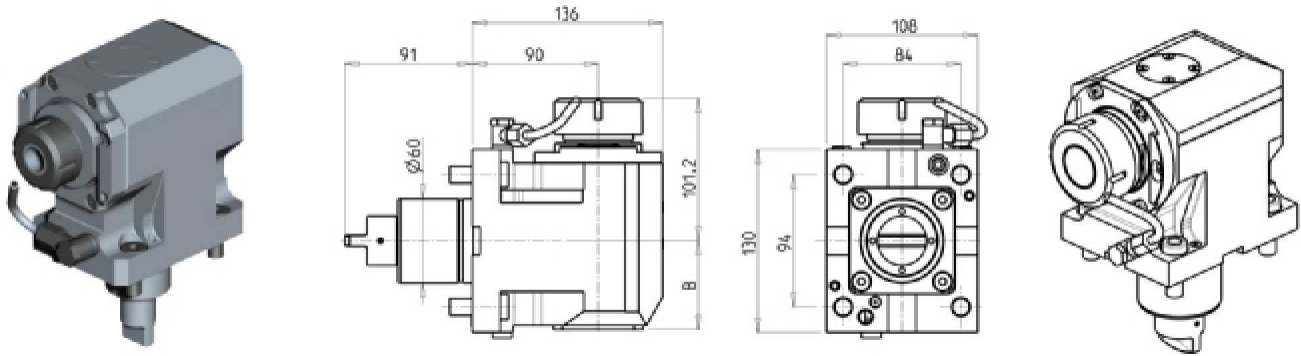
PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	CMax
MNL0290632	Axial ER32 Rear-Set Driven Tool	ER32	X	1:1	6000		X	121	118
MNL0291632	Axial ER32 Rear-Set Driven Tool Cool Thru*	ER32	X	1:1	6000	X	X	135	118

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

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

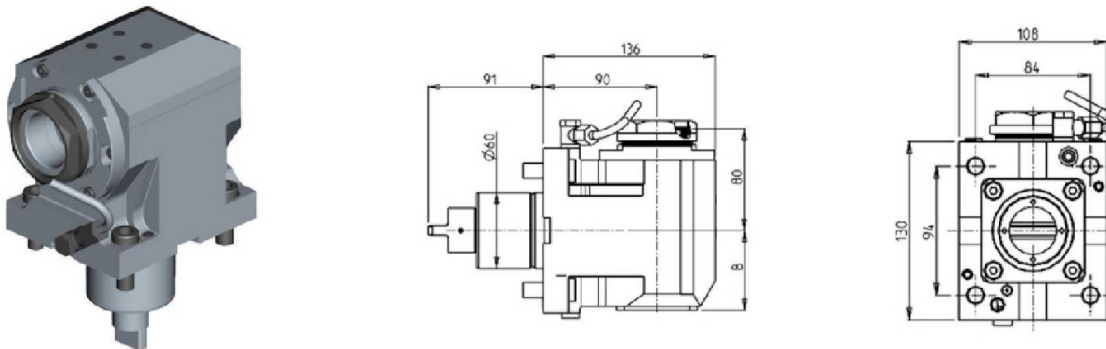
AXIAL DRIVEN TOOL



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



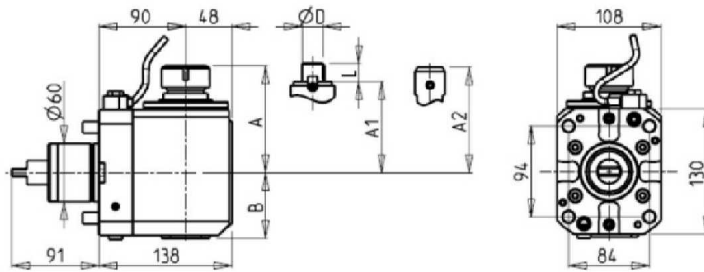
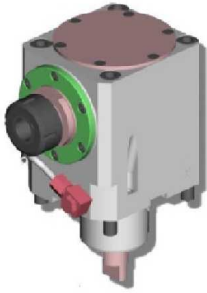
PartNumber	Description	Spindle	I	RPM	Reversible	Cool Thru	Ext Cool	B
MNL0850140	Axial MTSK-40	MTSK-40	1:1	4000	X		X	63
MNL0850240	Axial MTSK-40 Cool Thru*	MTSK-40	1:1	4000	X	X	X	75.5
MNL0850150	Axial MTSK-50	MTSK-50	1:1	4000	X		X	63
MNL0850250	Axial MTSK-50 Cool Thru*	MTSK-50	1:1	4000	X	X	X	75.5

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

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

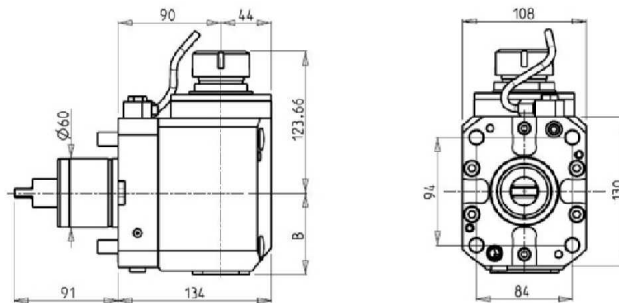
AXIAL GEARED-DOWN 2:1 DRIVEN TOOL



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	A1	A2	B	D	L
MNL0330525	Axial Geared-Down 2:1 ER25	ER25	X	2:1	3000		X	107.5			68		
MNL0331525	Axial Geared-Down 2:1 ER25 Cool Thru*	ER25	X	2:1	3000	X	X	107.5			79		
MNL0330532	Axial Geared-Down 2:1 ER32	ER32	X	2:1	3000		X	110.56			68		
MNL0331532	Axial Geared-Down 2:1 ER32 Cool Thru*	ER32	X	2:1	3000	X	X	110.56			79		
MNL0330140	Axial Geared-Down 2:1 ER40	ER40	X	2:1	3000		X	113.16			68		
MNL0331140	Axial Geared-Down 2:1 ER40 Cool Thru*	ER40	X	2:1	3000	X	X	113.16			79		
MNL0331617	Axial Geared-Down 2:1 Mill Head 16x17mm	16x17	X	2:1	3000		X	87.5			68	16	17
MNL0332219	Axial Geared-Down 2:1 Mill Head 22x19mm	22x19	X	2:1	3000		X	87.5			68	22	19
MNL0332721	Axial Geared-Down 2:1 Mill Head 27x21mm	27x21	X	2:1	3000		X	87.5			68	27	21
MNL0332519	Axial Geared-Down 2:1 Mill Head 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.

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

DRIVEN

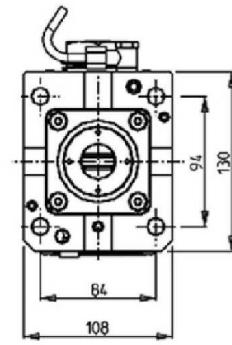
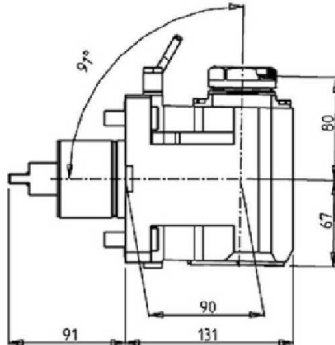
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL GEARED-UP 1:2 DRIVEN TOOL

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

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

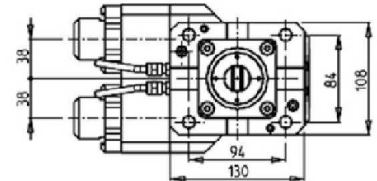
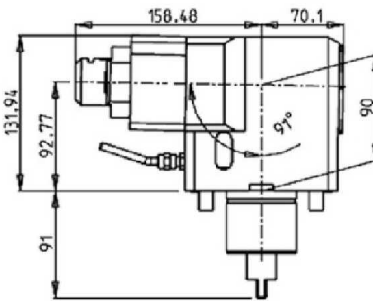
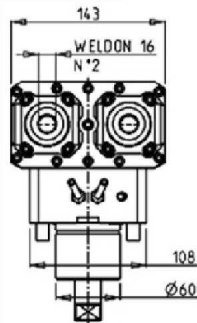
Please see Accessories for MTSK Clamping Units



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

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

See Accessories for Polygon Making Mill Heads



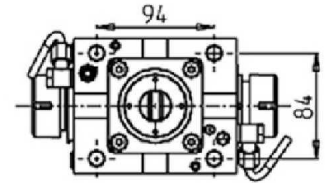
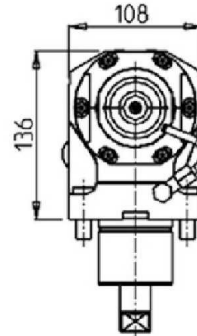
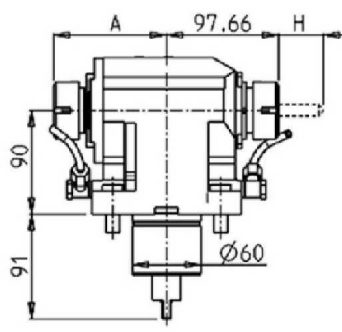
PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0940616	Axial Single Side Twin Head Weldon 16	Weldon 16	1:1	6000	X	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

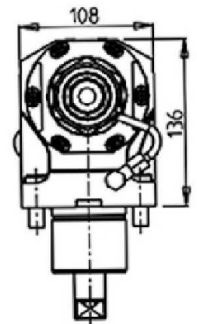
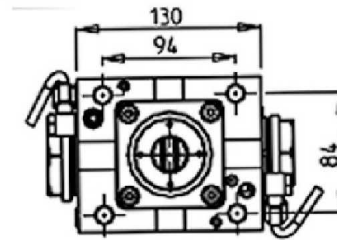
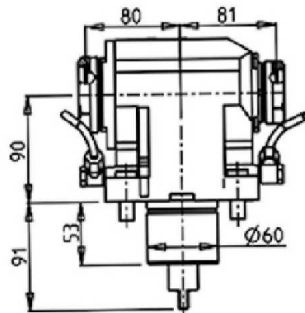
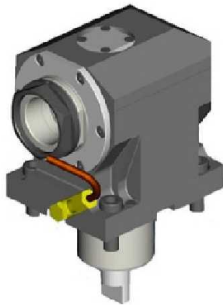
AXIAL OPPOSITE FACE TWIN DRIVEN TOOL



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

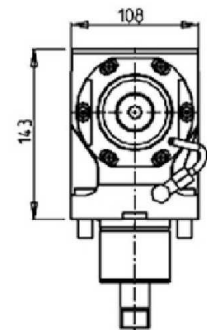
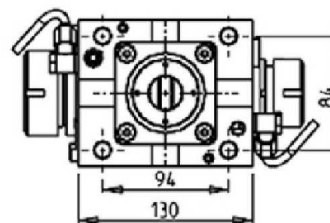
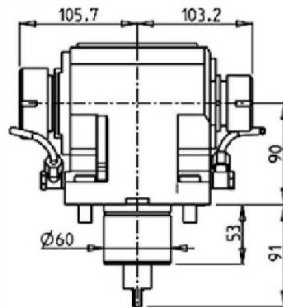
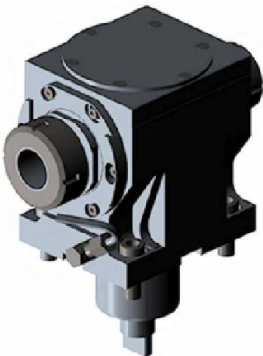
QUICK CHANGE AXIAL MTSK OPPOSITE FACE TWIN DRIVEN TOOL

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

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

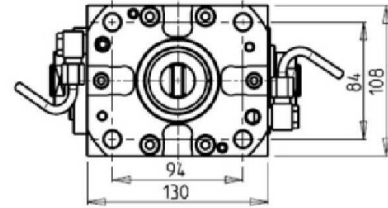
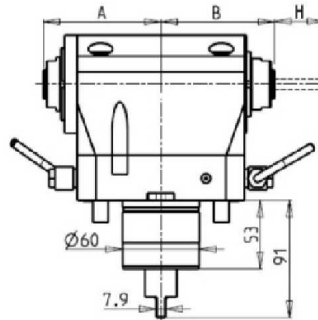
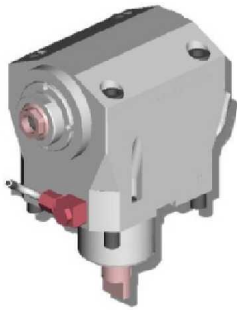


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool
MNL0914032	Axial Geared-Down 2:1 Opposite Face ER40+ER32	ER40+ER32	2:1	3000	X	X

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

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

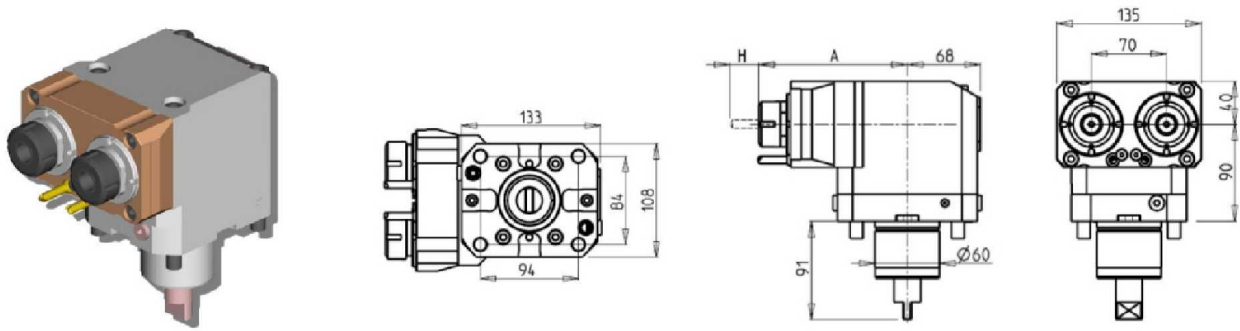


PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	B	H Max
MNL0450116	Axial Geared-Up 1:2 Opposite Face ERA16+ERA16	ERA16+ERA16	1:2	12000	X	X	97.63	94.13	77.6
MNL0450120	Axial Geared-Up 1:2 Opposite Face ERA20+ERA20	ERA20+ERA20	1:2	12000	X	X	95.73	93.73	78

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

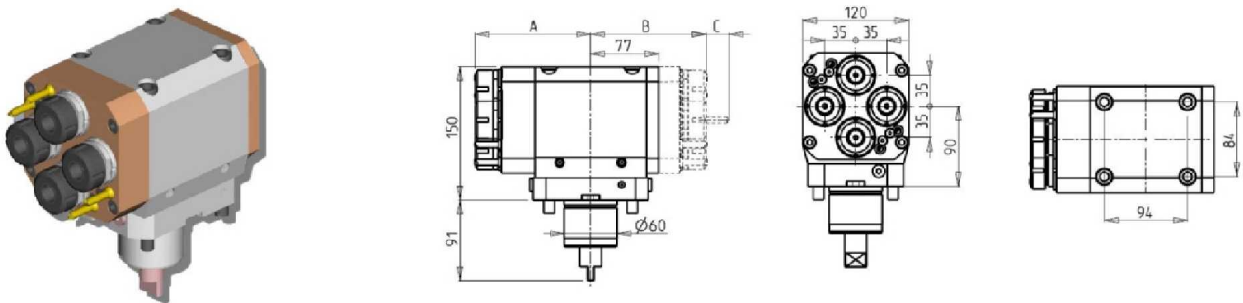
AXIAL SINGLE SIDE TWIN HEAD DRIVEN TOOL IN Y



PartNumber	Description	Spindle	Reversible	I	RPM	Cool Thru	Ext Cool	A	H Max
MNL0220225	Axial Double Outlet ER25	ER25	X	1:1	6000		X	137.96	28.5
MNL0221225	Axial Double Outlet ER25 Cool Thru*	ER25	X	1:1	6000	X	X	162.66	6.95
MNL0221325	Axial Double Outlet ERA25 Cool Thru*	ERA25	X	1:1	6000	X	X	156.03	14.5

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

AXIAL MULTIPLE 4/8 OUTLET HEAD DRIVEN TOOL



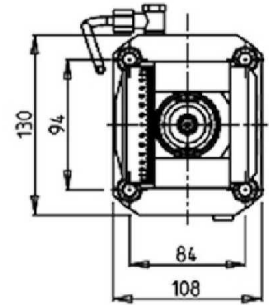
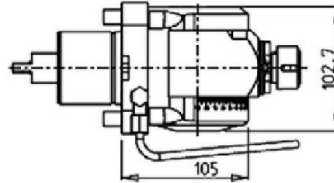
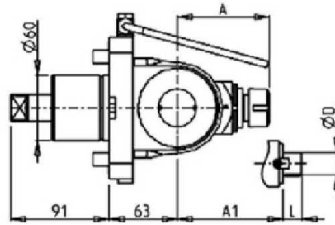
PartNumber	Description	# of Tools	Reversible	Spindle	I	RPM	Ext Cool	A	B	CMax
MNL0230425	Axial Four Outlet ER25 Tool	4	X	ER25	1:1	6000	X	130.46		
MNL0234425	Axial 4+4 Outlet ER25 Tool	4+4		ER25+ER25	1:1	6000	X	130.46	130.46	36

Note : Also available in 2+2 version : Call for price and availability. Wrenches are provided with the purchase of Specialty Toolholders.

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

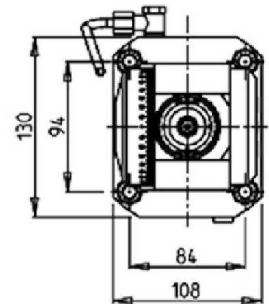
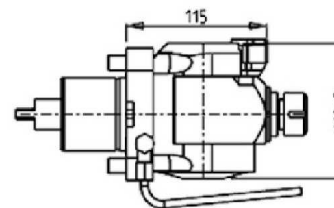
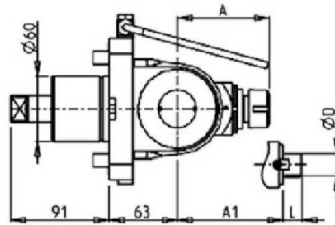
0-180° ADJUSTABLE ANGLE DRIVEN TOOL



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 Ø16x17mm	Ø16x17	1:1	6000	X	X		65	16	17
MNL0930522	0-180° Adjustable Angle Ø22x19mm	Ø22x19	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



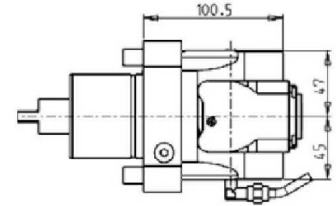
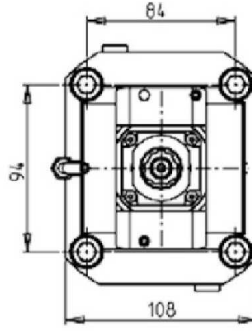
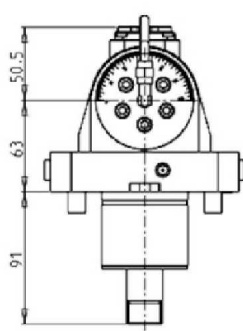
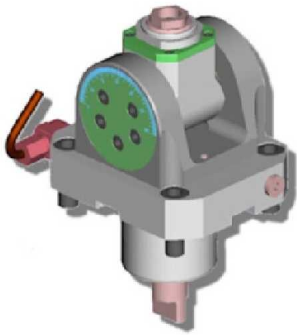
PartNumber	Description	Spindle	I	RPM	Reversible	Ext Cool	A	A1	D	L
MNL0890120	0-180° Adj. Angle with Digital Display ER20	ER20	1:1	6000	X	X	85.16			
MNL0890125	0-180° Adj. Angle with Digital Display ER25	ER25	1:1	6000	X	X	86.16			
MNL0890519	0-180° Adj. Angle with Digital Display 3/4"x3/4"	3/4"x3/4"	1:1	6000	X	X		65	3/4"	3/4"
MNL0890516	0-180° Adj. Angle with Digital Display Ø16x17mm	Ø16x17	1:1	6000	X	X		65	16	17
MNL0890522	0-180° Adj. Angle with Digital Display Ø22x19mm	Ø22x19	1:1	6000	X	X		66	22	19

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

0-180° ADJUSTABLE ANGLE DRIVEN TOOL



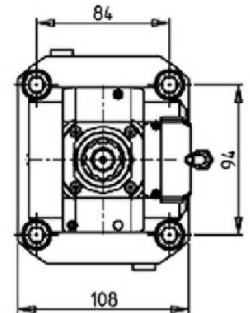
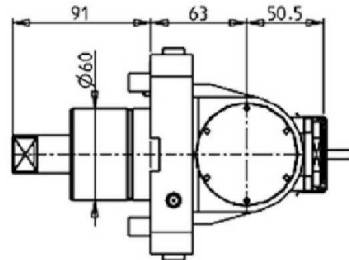
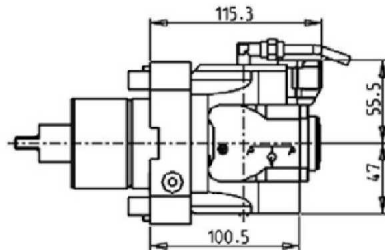
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool
MNL0640120	0-180° Adjustable Angle ERA20	ERA20	1:1	6000		X
MNL0640220	0-180° Adjustable Angle ERA20 Cool Thru*	ERA20	1:1	6000	X	X

* 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
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.

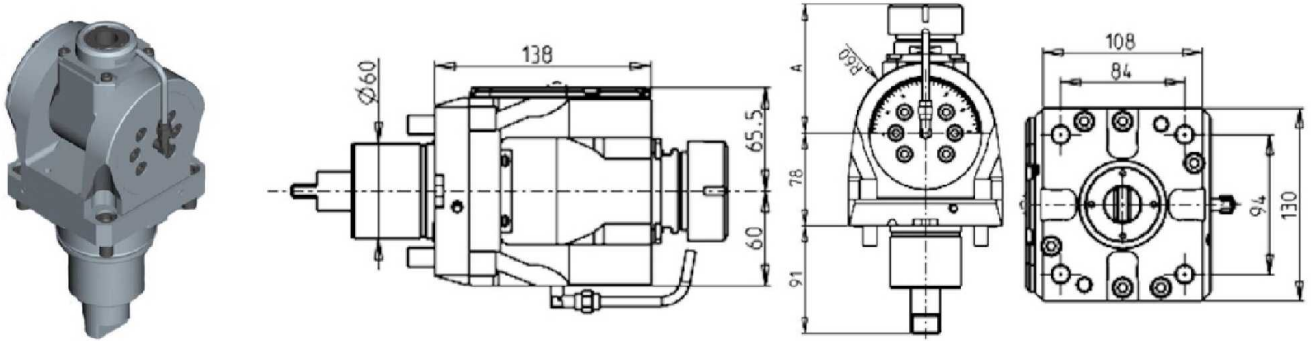
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

0-180° ADJUSTABLE ANGLE DRIVEN TOOL



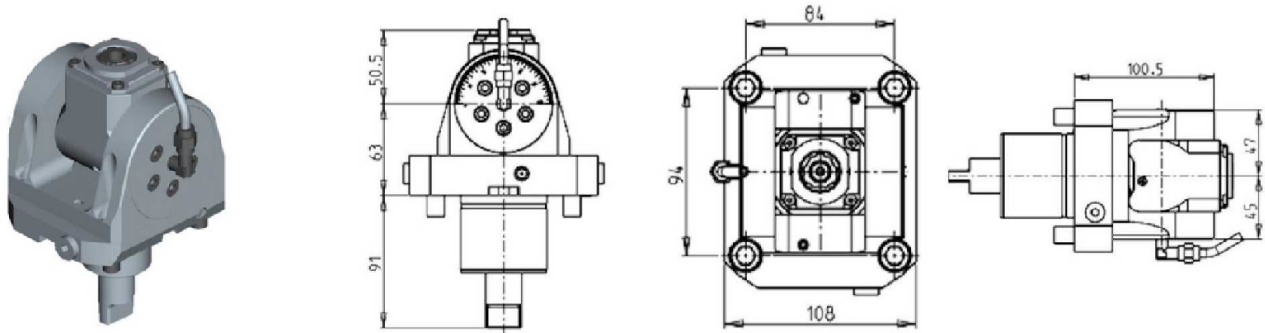
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
MNL0660332	0-180° Adjustable Angle ERA32	ERA32	1:1	6000		X	81
MNL0660432	0-180° Adjustable Angle ERA32 Cool Thru*	ERA32	1:1	6000	X	X	81
MNL0660140	0-180° Adjustable Angle ERA40	ER40	1:1	6000		X	108.66
MNL0660240	0-180° Adjustable Angle ERA40 Cool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

Note :

Wrenches are provided with the purchase of Specialty Toolholders

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



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

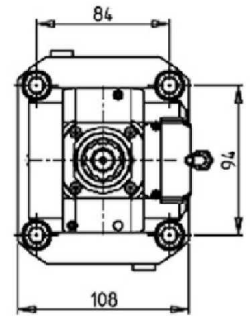
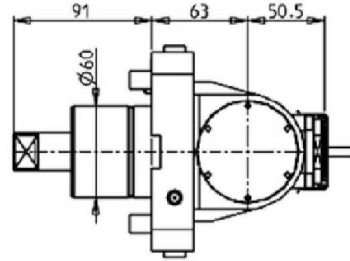
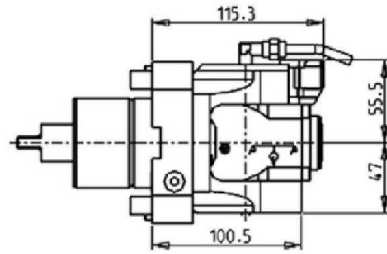
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

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



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

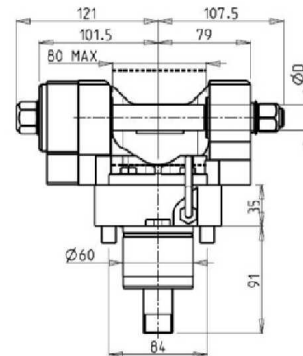
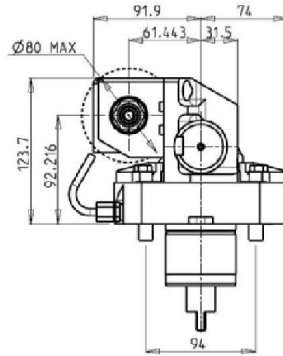
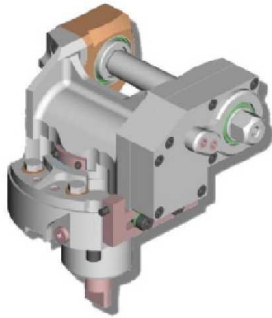
Note :

Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

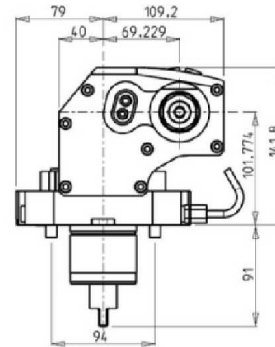
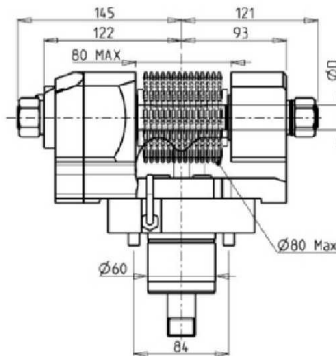
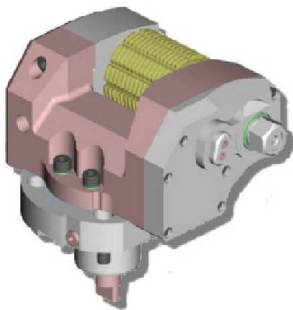
DRIVEN GEAR HOBBER



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

GEAR HOBBER - HEAVY DUTY TOOL



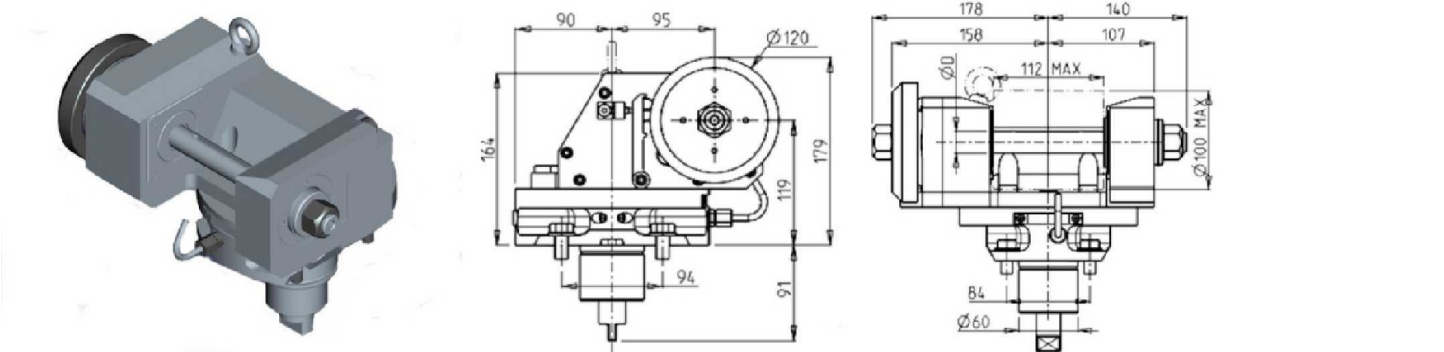
PartNumber	Description	Reversible	I	RPM	Ext Cool	D mm	D Inch
MNL0411100	Heavy Duty Gear Hobbing Tool 1:1	X	1:1	6000	X	16-22-27-32	3/4"-1"-1 1/4"
MNL0412100	Heavy Duty Gear Hobbing Tool 2:1 Geared Down	X	2:1	3000	X	16-22-27-32	3/4"-1"-1 1/4"

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

LARGE DRIVEN GEAR HOBBER

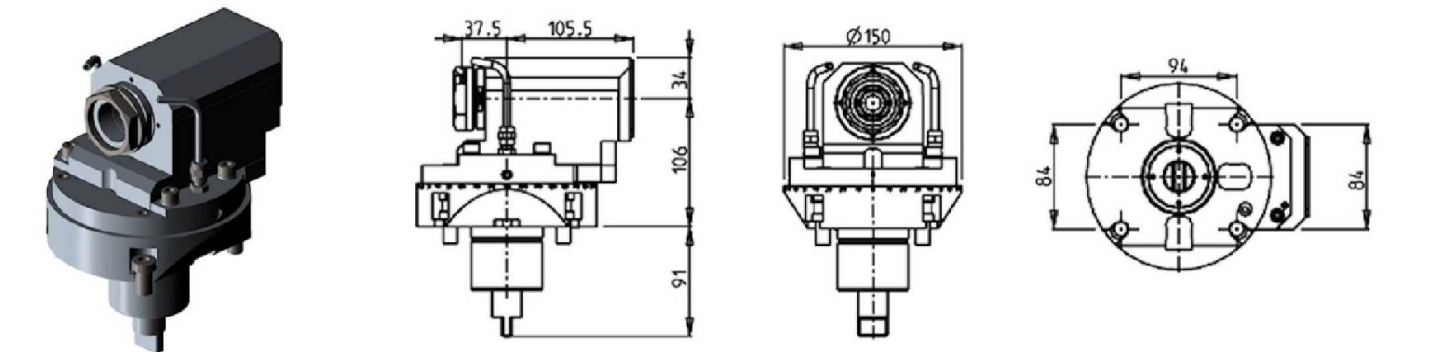


PartNumber	Description	I	RPM	Ext Cool	D (mm)
MNL0671100	Large Gear Hobber 1:1	1:1	6000	X	22-27-32
MNL0672100	Large Gear Hobber 2:1 Geared Down	2:1	3000	X	22-27-32

Note : Wrenches are provided with the purchase of Specialty Toolholders

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

Please see Accessories for MTSK Clamping Units



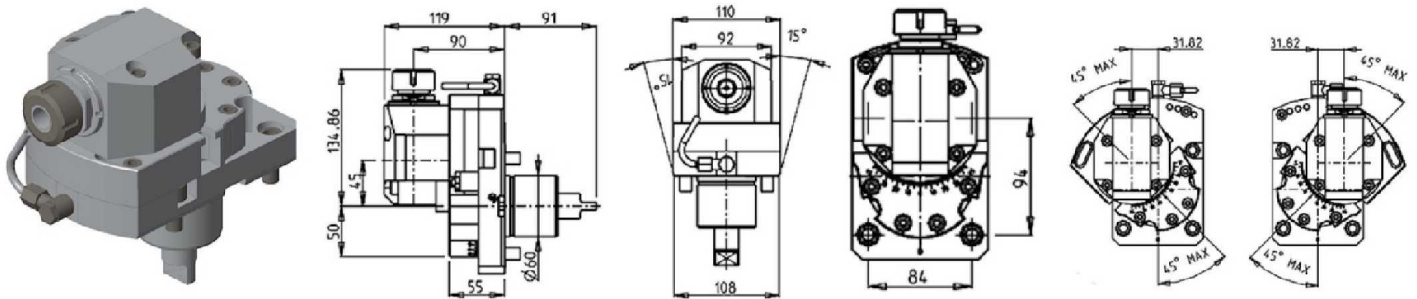
PartNumber	Description	Spindle	I	RPM	Ext Cool
MNL0870100	Axial MTSK-40 for Power Skiving	MTSK-40	1:1	6000	X

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

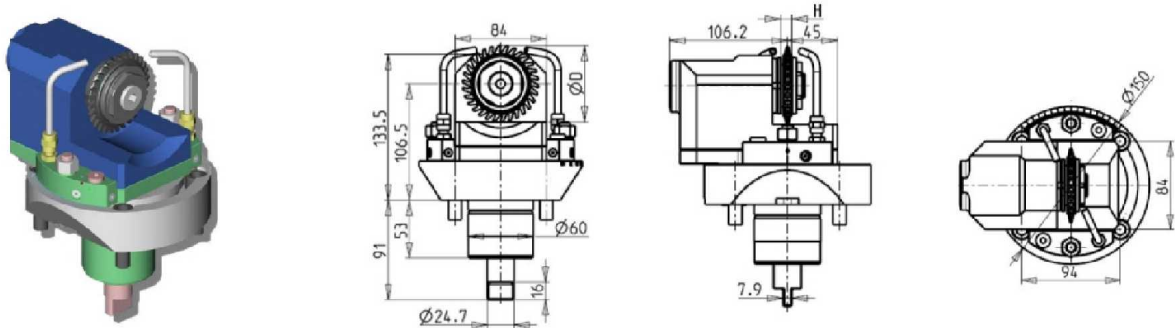
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

±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



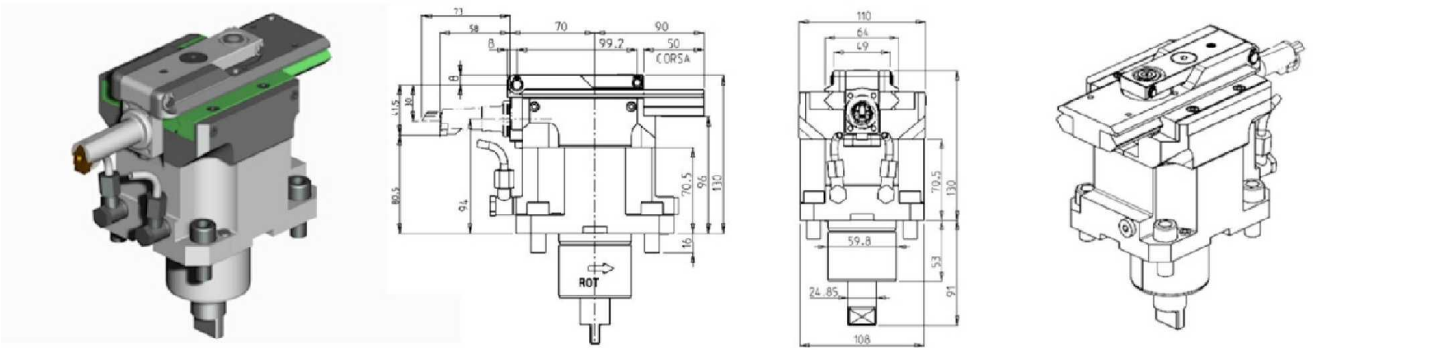
PartNumber	Description	Spindle	I	RPM	Ext Cool	D	H
MNL0378125	Driven Worm Gear Tool 1"x12mm	1"x12	1:1	6000	X	63-70-80	Max 12
MNL0378022	Driven Worm Gear Tool 22mmx17mm	22x12	1:1	6000	X	63-70-80	Max 12

Note : Wrenches are provided with the purchase of Specialty Toolholders

DRIVEN

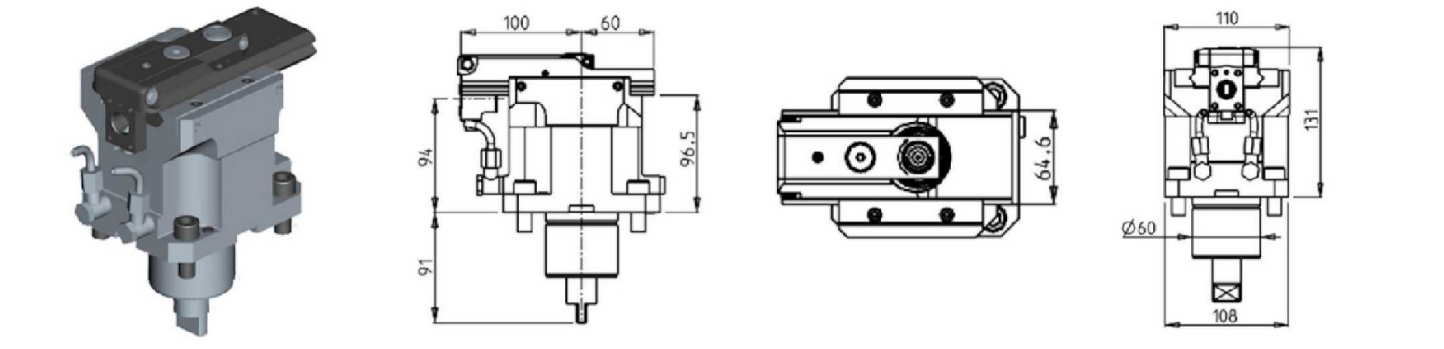
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

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



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

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

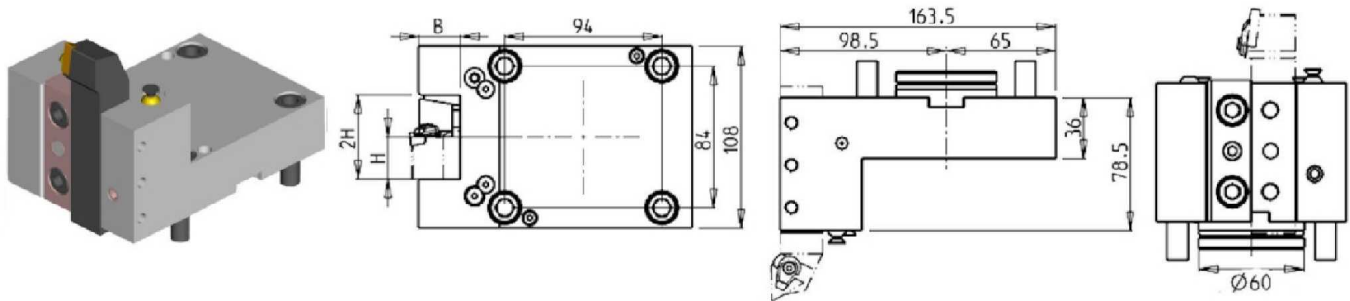


PartNumber	Description	Reversible	I	RPM Max	Ext Cool
MNL0650200	Broaching / Slotting Tool	X	4:1	2400	X

STATIC

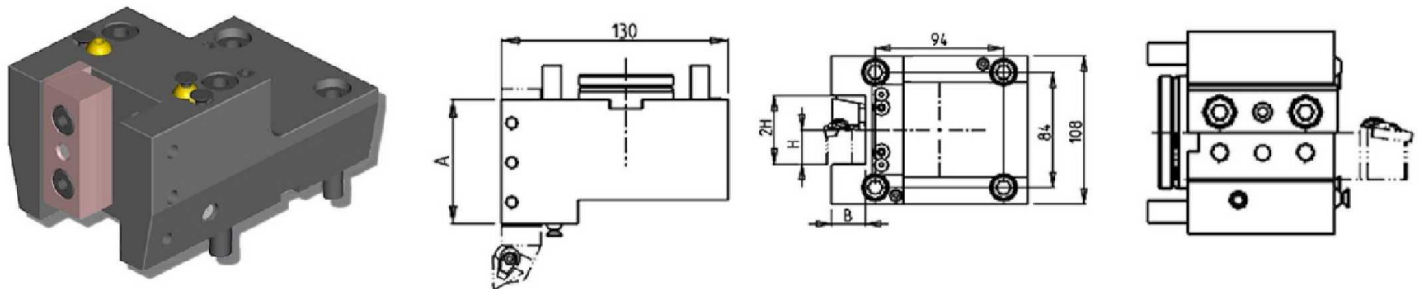
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL SINGLE STATIC TOOL



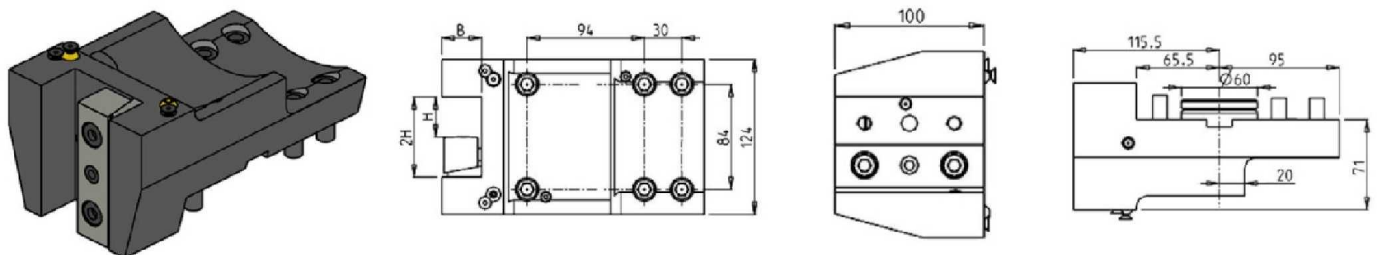
PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	B	H
MNL0041905	Radial Single Static 3/4"	1	X		X	Inch	3/4"	3/4"
MNL0042540	Radial Single Static 1"	1	X		X	Inch	1"	1"
MNL0042000	Radial Single Static 20mm	1	X		X	mm	20	20
MNL0042500	Radial Single Static 25mm	1	X		X	mm	25	25
MNL0042510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

RADIAL SINGLE STATIC TOOL



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

RADIAL SINGLE STATIC TOOL

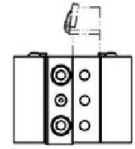
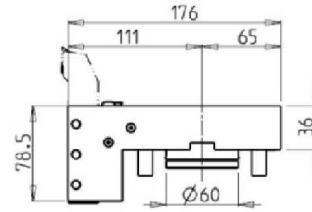
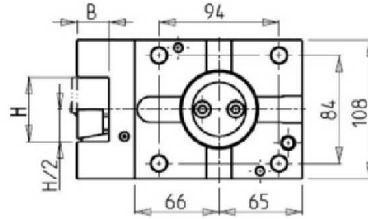
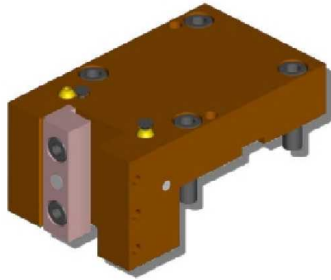


PartNumber	Description	# of Tools	Dimensions	B	H
MNL0043175	Radial Single Static 1-1/4"	1	Inch	1-1/4"	1-1/4"
MNL0043200	Radial Single Static 32mm	1	mm	32	32

STATIC

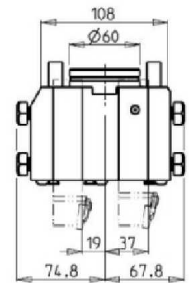
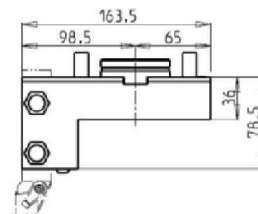
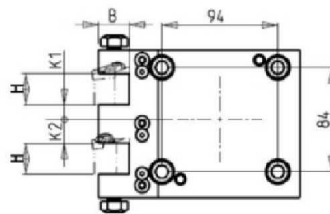
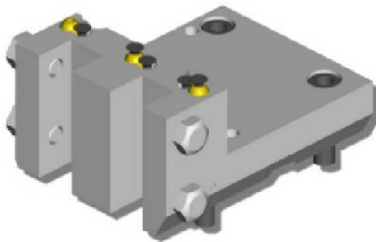
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL REAR-SET SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Dimensions	B	H
MNL0381905	Radial Rear-Set Single Tool 3/4"	1/2	Inch	3/4"	3/4"
MNL0382540	Radial Rear-Set Single Tool 1"	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

RADIAL SINGLE SIDE TWIN STATIC TOOL

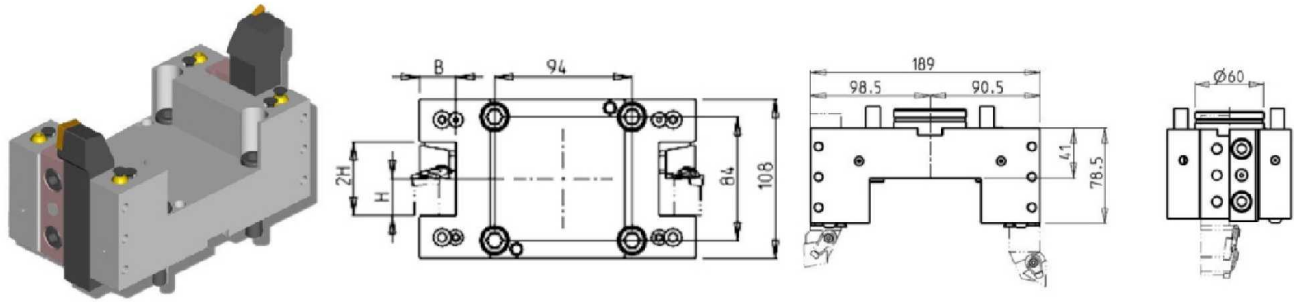


PartNumber	Description	# of Tools	Reversible	Dimensions	H	B	K1	K2
MNL0061905	Radial Single Side Double Tool 3/4"	2	X	Inch	3/4"	3/4"	1/2"	3/4"
MNL0062540	Radial Single Side Double Tool 1"	2	X	Inch	1"	1"	1/2"	3/4"
MNL0062000	Radial Single Side Double Tool 20mm	2	X	mm	20	20	12	19
MNL0062500	Radial Single Side Double Tool 25mm	2	X	mm	25	25	12	19

STATIC

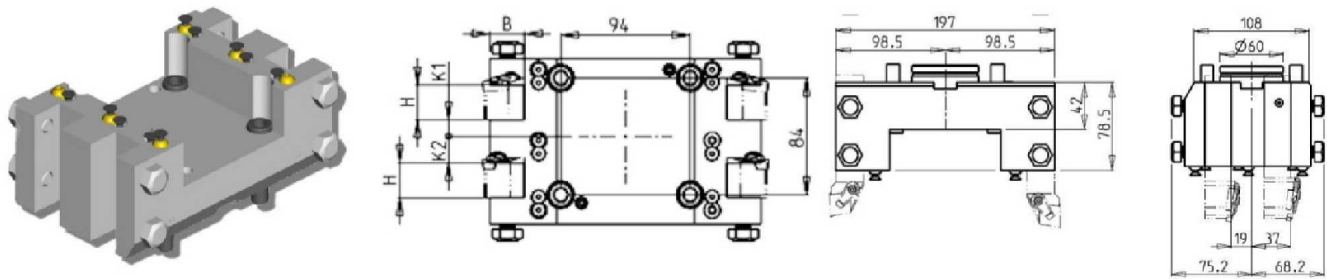
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL DOUBLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
MNL0051905	Radial Double Static Tool 3/4"	2/4	X	Inch	3/4"	3/4"
MNL0052540	Radial Double Static Tool 1"	2/4	X	Inch	1"	1"
MNL0052000	Radial Double Static Tool 20mm	2/4	X	mm	20	20
MNL0052500	Radial Double Static Tool 25mm	2/4	X	mm	25	25

RADIAL DOUBLE SIDE TWIN STATIC TOOL

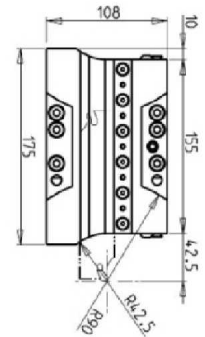
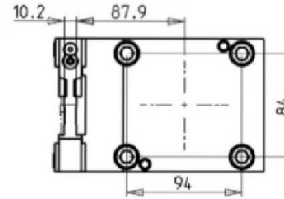
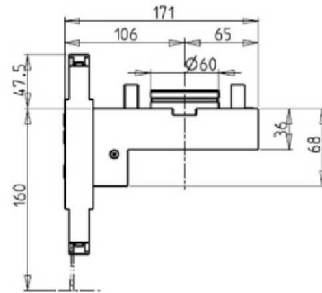
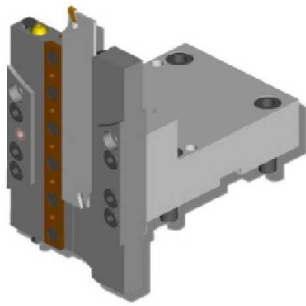


PartNumber	Description	# of Tools	Reversible	Dimensions	H	B	K1	K2
MNL0071905	Radial Double Side Twin Static Tool 3/4"	4	X	Inch	3/4"	3/4"	1/2"	3/4"
MNL0072540	Radial Double Side Twin Static Tool 1"	4	X	Inch	1"	1"	1/2"	3/4"
MNL0072000	Radial Double Side Twin Static Tool 20mm	4	X	mm	20	20	12	19
MNL0072500	Radial Double Side Twin Static Tool 25mm	4	X	mm	25	25	12	19

STATIC

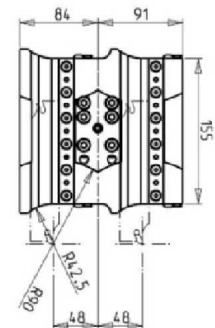
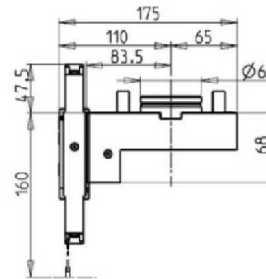
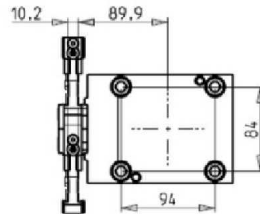
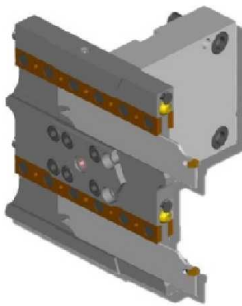
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL DOUBLE BLADE HOLDER WITH BLADE KIT



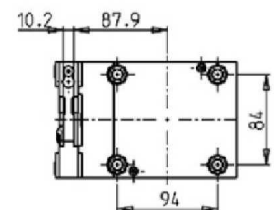
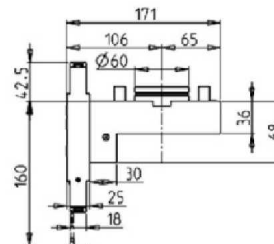
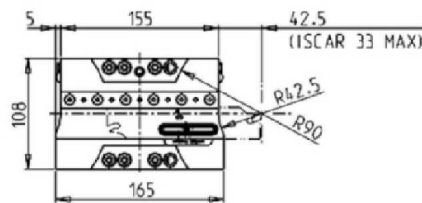
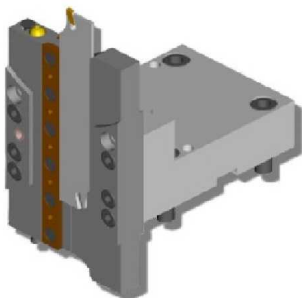
PartNumber	Description	# of Tools
MNL0140132	Radial Double Blade Holder wth Blade Kit	1
BLADEKIT	Blade Kit: 1 Blade, 10 Inserts	

RADIAL DOUBLE TWIN SIDE BLADE HOLDER WITH BLADE KIT



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

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

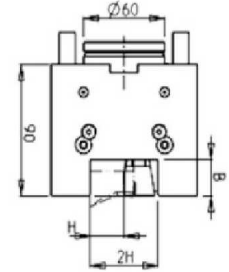
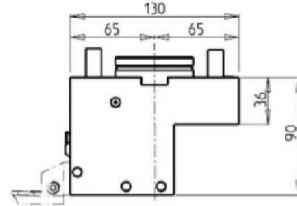
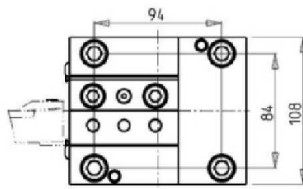
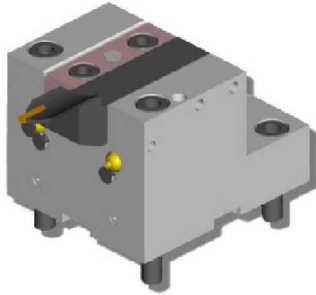


PartNumber	Description	# of Tools	Ext Cool	Cool Thru
MNL0860132	Radial Blade Holder Cool Thru	1	X	X
COOL THRU BLADEKIT	Blade Kit: 1 Blade, 10 Inserts			

STATIC

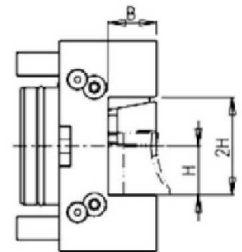
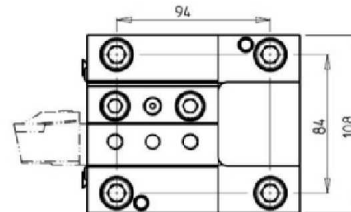
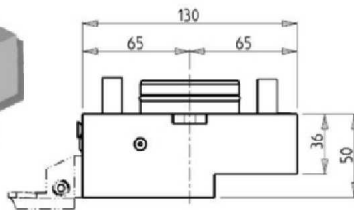
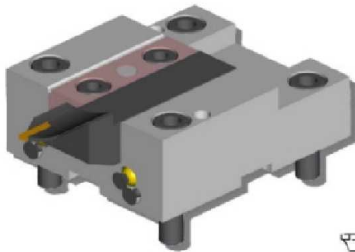
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
MNL0131905	Axial Single Position Tool 3/4"	1/2	X	Inch	3/4"	3/4"
MNL0132540	Axial Single Position Tool 1"	1/2	X	Inch	1"	1"
MNL0132000	Axial Single Position Tool 20mm	1/2	X	mm	20	20
MNL0132500	Axial Single Position Tool 25mm	1/2	X	mm	25	25

AXIAL SINGLE STATIC TOOL - LOWER HEIGHT

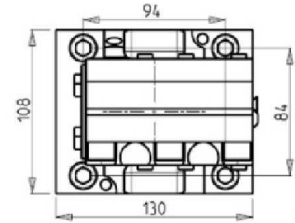
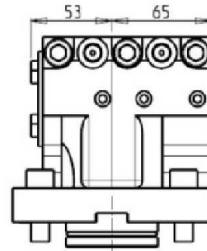
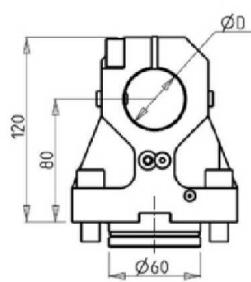
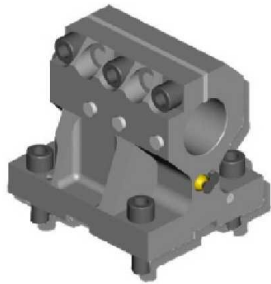


PartNumber	Description	# of Tools	Reversible	Dimensions	B	H
MNL0302000	Axial Single Static Tool - Lower Height 20mm	1	X	mm	20	20
MNL0302500	Axial Single Static Tool - Lower Height 25mm	1	X	mm	25	25

STATIC

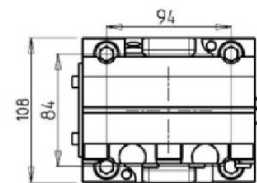
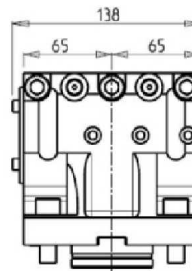
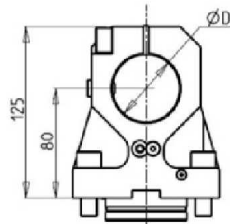
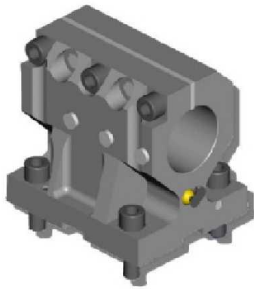
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL SINGLE BORING BAR HOLDER H=80mm



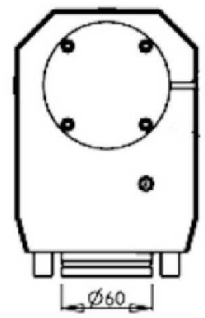
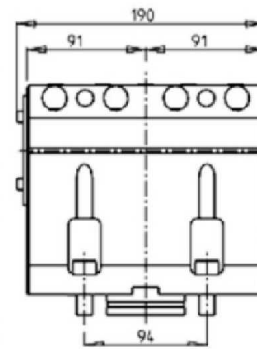
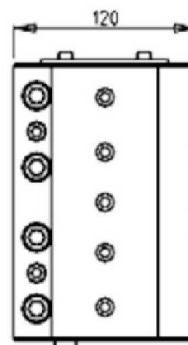
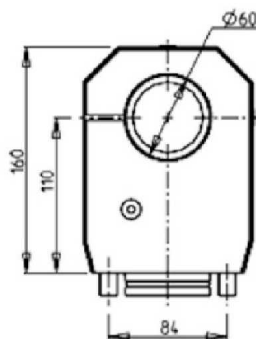
PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNL0113810	Axial Single Boring Bar Holder 1-1/2"	1	X	X	X	Inch	1-1/2"
MNL0114000	Axial Single Boring Bar Holder 40mm	1	X	X	X	mm	40
KIT1003004	1 1/2" Plug & Seal to Make BBH Cool Thru*						
KIT1003003	40mm Plug & Seal to Make BBH Cool Thru*						

AXIAL SINGLE BORING BAR HOLDER H=80mm



PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNL0115080	Axial Single Boring Bar Holder 2"	1	X	X	X	Inch	2"
MNL0115000	Axial Single Boring Bar Holder 50mm	1	X	X	X	mm	50
KIT1001002	50mm or 2" Plug & Seal to Make BBH Cool Thru*						

AXIAL SINGLE BORING BAR HOLDER 60mm H=110mm

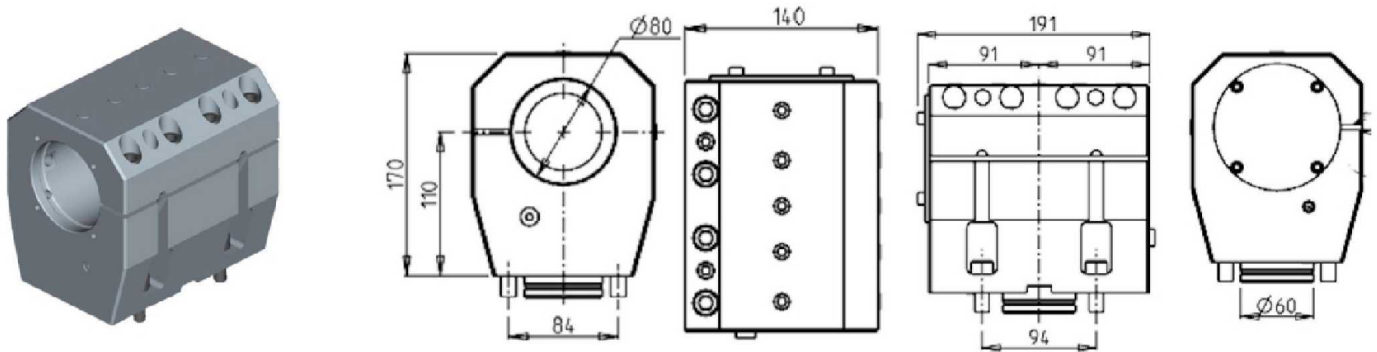


PartNumber	Description	# of Tools	Cool Thru	Ext Cool
MNL0616000	Single Boring Bar Holder 60mm	1	X	X
KIT1005025	60mm Plug & Seal to Make BBH Cool Thru*			

STATIC

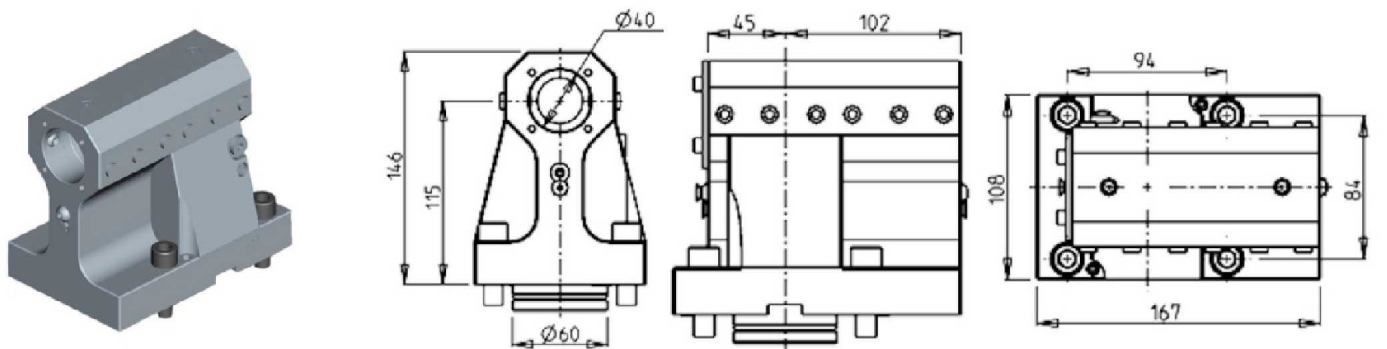
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL SINGLE BORING BAR HOLDER 80mm H=110mm



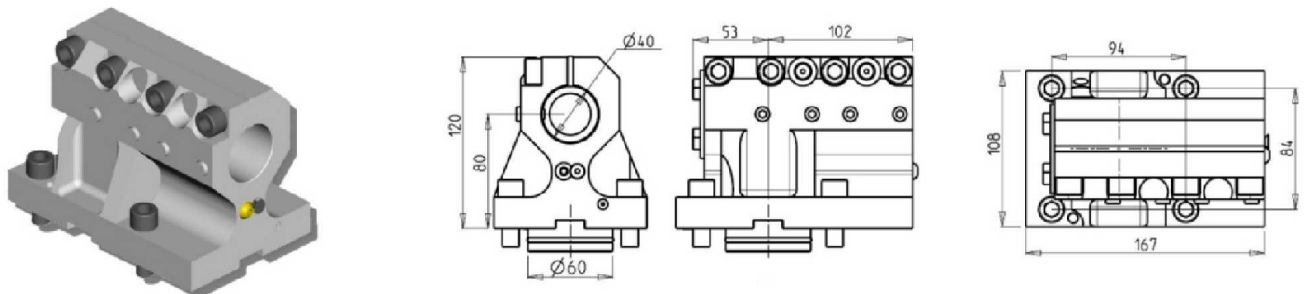
PartNumber	Description	# of Tools	Cool Thru	Ext Cool
MNL0628000	Single Boring Bar Holder 80mm	1	X	X
KIT1005013	80mm Plug & Seal to Make BBH Cool Thru*			

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



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

AXIAL SINGLE EXTENDED BORING BAR HOLDER H=80mm

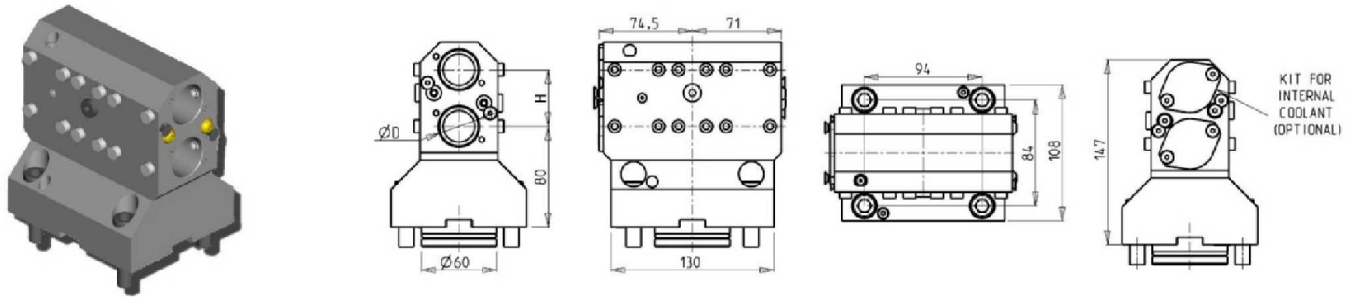


PartNumber	Description	# of Tools	Reversible	Cool Thru	Ext Cool	Dimensions	D
MNL0313810	Axial Single Extended BBH 1-1/2"	1	X	X	X	Inch	1-1/2"
MNL0314000	Axial Single Extended BBH 40mm	1	X	X	X	mm	40
KIT1002003	40mm Plug & Seal to Make BBH Cool Thru*						
KIT1002004	1-1/2" Plug & Seal to Make BBH Cool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

STATIC

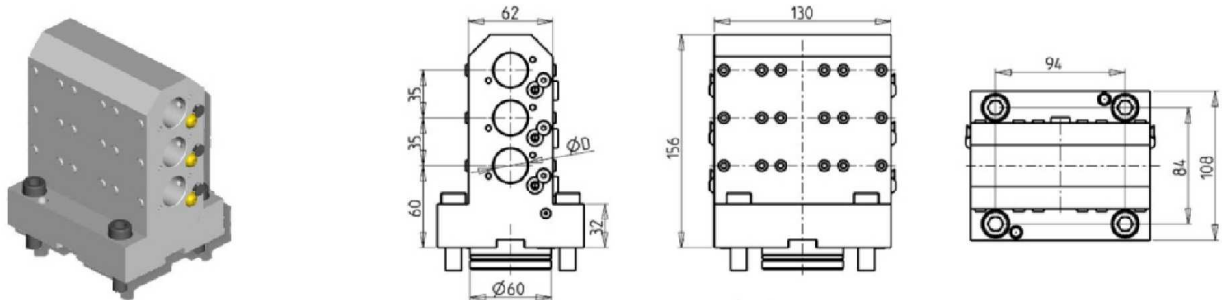
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL 2 + 2 POSITION BORING BAR HOLDER



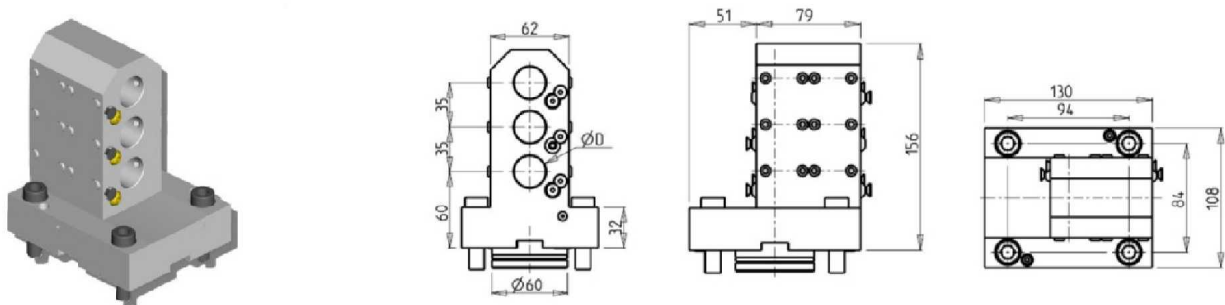
PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D	H
MNL0103175	Axial 2+2 Boring Bar Holder 1-1/4"	2+2	X	X	Inch	1-1/4"	1-3/4"
MNL0103200	Axial 2+2 Boring Bar Holder 32mm	2+2	X	X	mm	32	45
KIT1000001	32mm or 1-1/4" Plug to Make BBH Cool Thru*						

AXIAL 3 + 3 POSITION UPRIGHT BORING BAR HOLDER



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

AXIAL 3 POSITION UPRIGHT REAR SET BORING BAR HOLDER

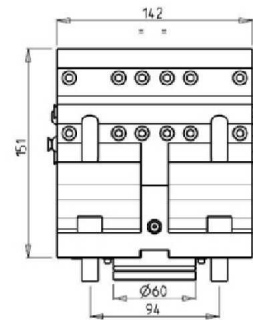
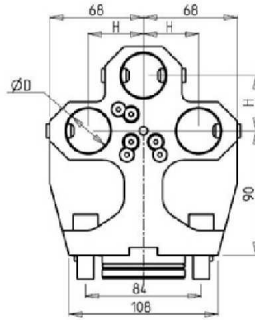
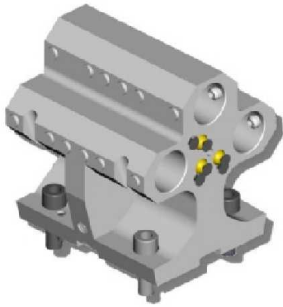


PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimension	D
MNL0192540	Axial Triple Rear-Set Boring Bar Holder 1"	3	X	X	Inch	1"
MNL0192500	Axial Triple Rear-Set Boring Bar Holder 25mm	3	X	X	mm	25

STATIC

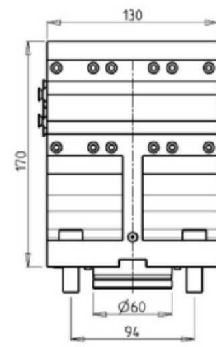
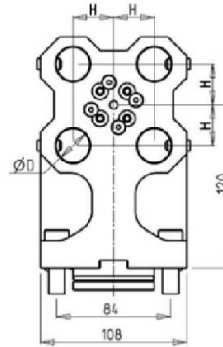
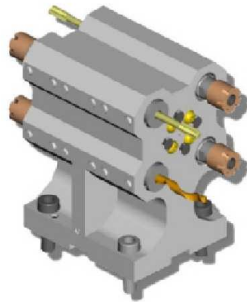
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL 3 + 3 POSITION BORING BAR HOLDER



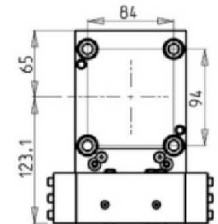
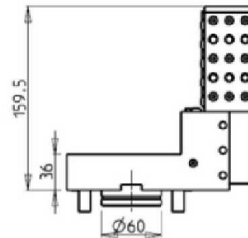
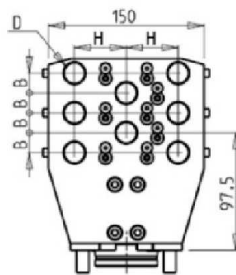
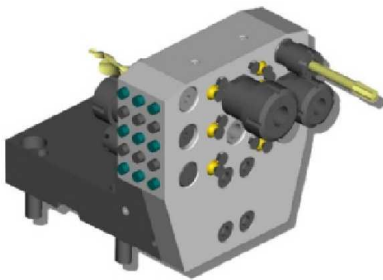
PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimension	D	H	
MNL0093175	Axial 3+3 Boring Bar Holder 1-1/4"	3+3	X	X	Inch	1-1/4"	1-1/2"	
MNL0093200	Axial 3+3 Boring Bar Holder 32mm	3+3	X	X	mm	32	40	
KIT1000001	32mm or 1-1/4" Plug to Make BBH Cool Thru*							

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

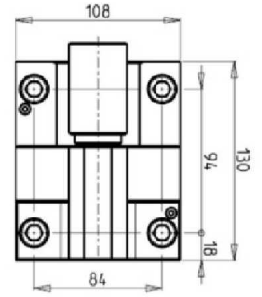
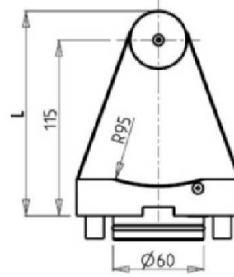
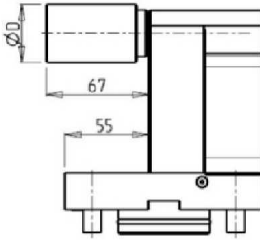
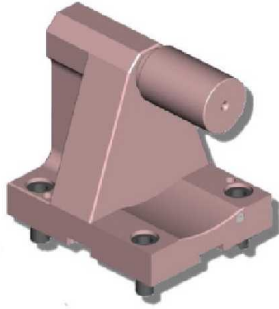


PartNumber	Description	# of Tools	Reversible	Ext Cool	Dimensions	D	B	H
MNL0121905	Axial 8-Position Boring Bar Holder 3/4"	8	X	X	Inch	3/4"	5/8"	2"
MNL0122000	Axial 8-Position Boring Bar Holder 20mm	8	X	X	mm	20	16	50

STATIC

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

TAILSTOCK FOR SUB-SPINDLE

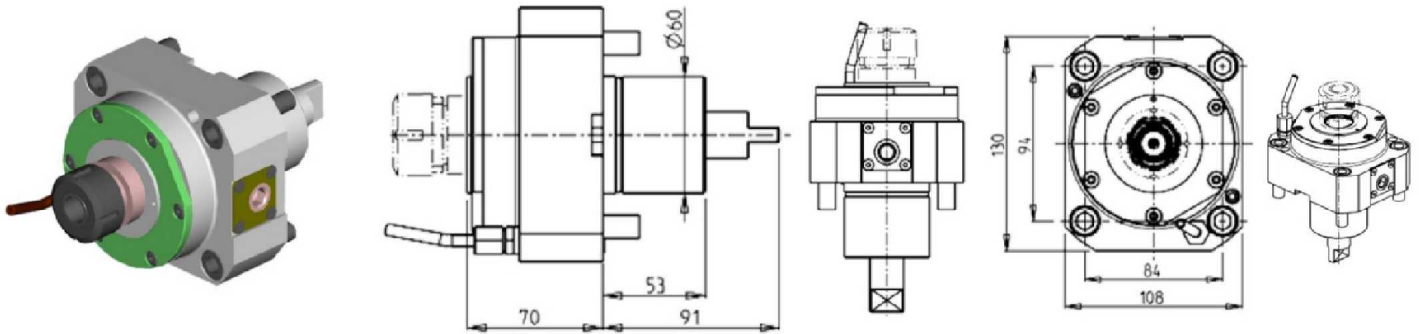


PartNumber	Description	# of Tools	D	L
MNL0360100L	Tailstock for Sub-Spindle 2"	1	2"	140.4
MNL0360100	Tailstock for Sub-Spindle 38mm	1	38mm	134

CAPTO DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL DRIVEN TOOL CAPTO

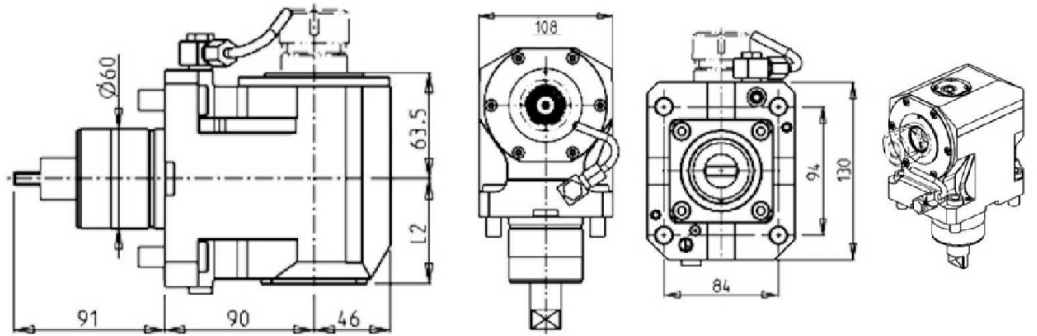
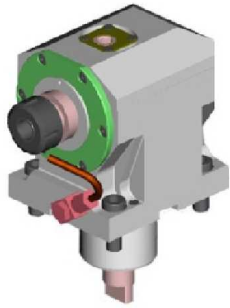


PartNumber	Description	Size	I	RPM	Ext Cool
MNL0530140	Radial Capto C4	C4	1:1	6000	X
MNL0530150	Radial Capto C5	C5	1:1	6000	X

CAPTO DRIVEN

TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

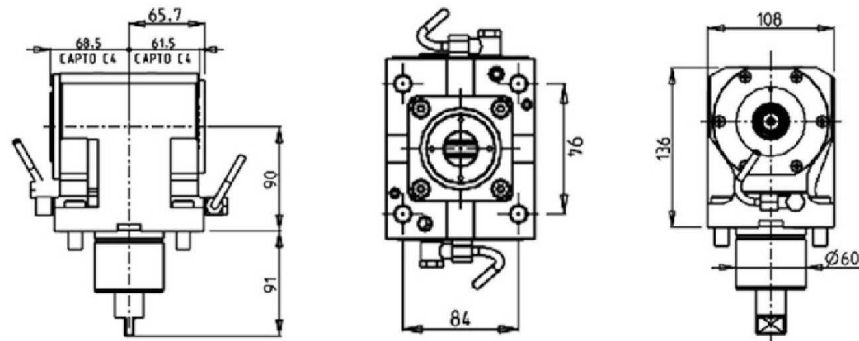
AXIAL DRIVEN TOOL CAPTO



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

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

AXIAL OPPOSITE FACE TWIN DRIVEN TOOL CAPTO

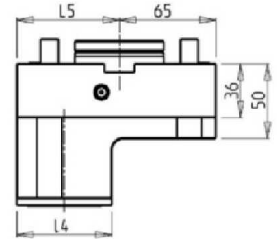
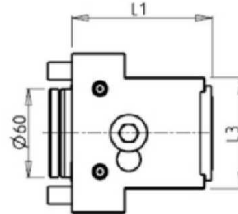
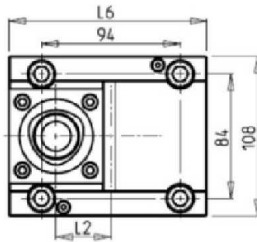
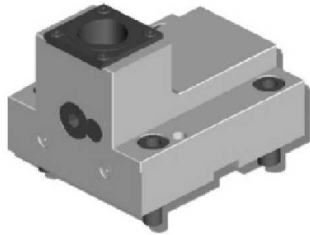


PartNumber	Description	Size	I	RPM	Reversible	Ext Cool
MNL1170240	Axial Opposite Face Capto C4+C4	C4+C4	1:1	6000	X	X

CAPTO STATIC

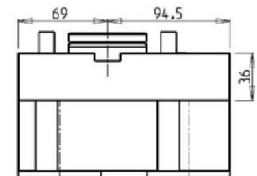
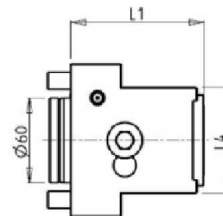
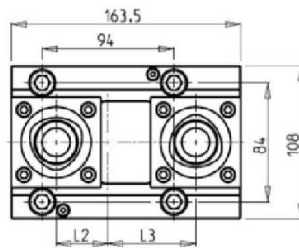
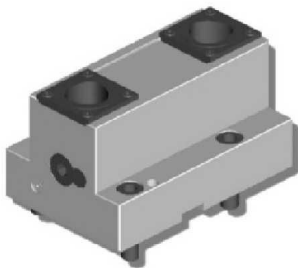
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL SINGLE STATIC TOOL - CAPTO



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

RADIAL DOUBLE STATIC TOOL - CAPTO

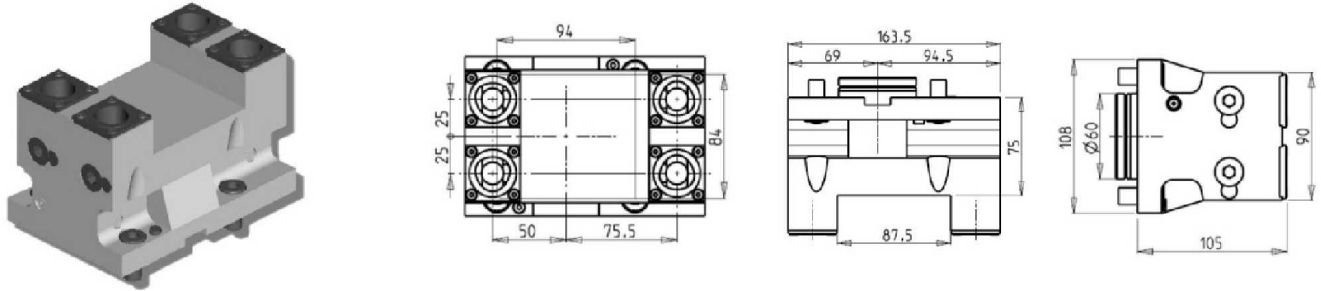


PartNumber	Description	# of Tools	Cool Thru	Size	L1	L2	L3	L4
MNL0474020	Radial Double Static Tool: Right C4 Capto	2	X	C4	90	45	70.5	63
MNL0474020LC	Radial Double Static Tool: Left C4 Capto	2	X	C4	90	45	70.5	63
MNL0475020	Radial Double Static Tool: Right C5 Capto	2	X	C5	95	37	62.5	75
MNL0475020LC	Radial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

CAPTO STATIC

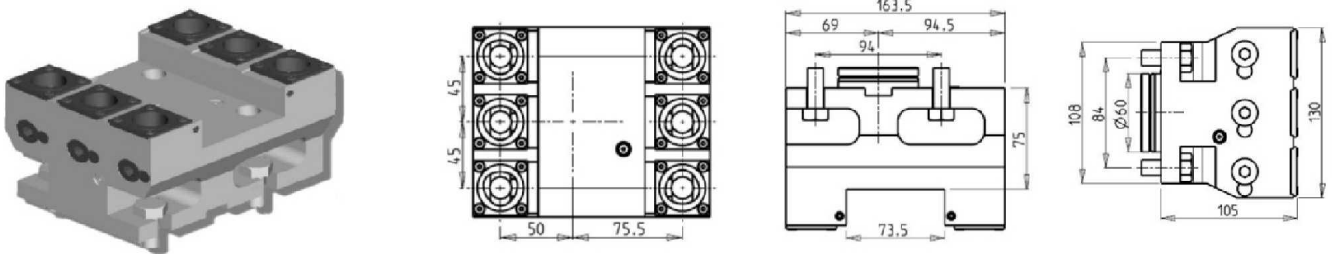
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

RADIAL DOUBLE 2+2 UPRIGHT POSITION STATIC TOOL - CAPTO



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

RADIAL DOUBLE 3+3 UPRIGHT POSITION STATIC TOOL - CAPTO

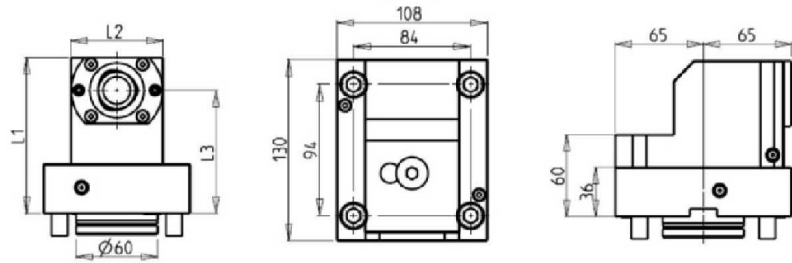
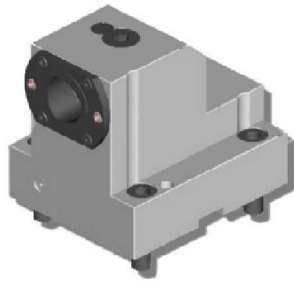


PartNumber	Description	# of Tools	Cool Thru	Size
MNL0483260	Radial Double 3+3 Static Tool: Right C3 Capto	6	X	C3
MNL0483260LC	Radial Double 3+3 Static Tool: Left C3 Capto	6	X	C3

CAPTO STATIC

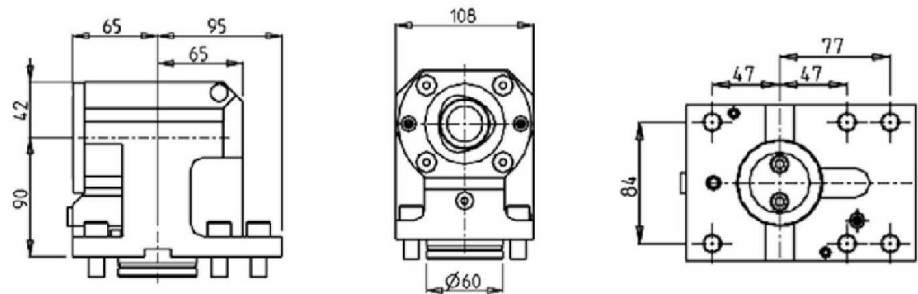
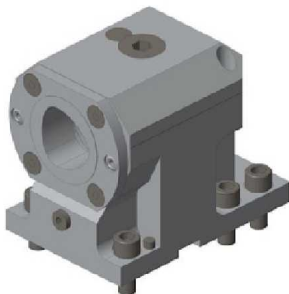
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL SINGLE STATIC TOOL - CAPTO



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

AXIAL SINGLE STATIC TOOL - CAPTO C6

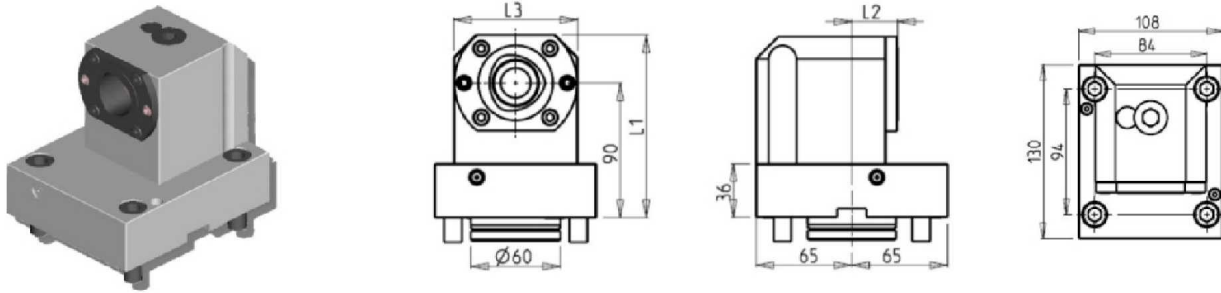


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Size
MNL1196010	Axial Single Static Tool: Right C6 Capto	1	X	X	C6
MNL1196010LC	Axial Single Static Tool: Left C6 Capto	1	X	X	C6

CAPTO STATIC

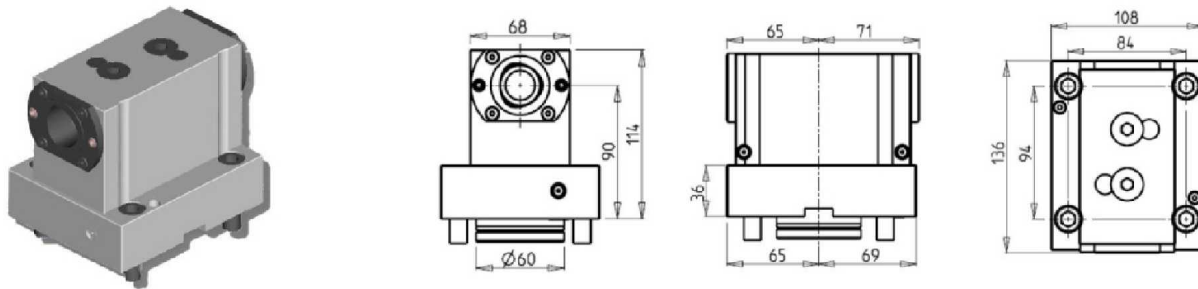
TS3000/4000/5000 Y/YS 12 ST. (3 KEYS TURRET)

AXIAL REAR-SET BORING SINGLE STATIC TOOL - CAPTO



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

AXIAL OPPOSITE FACE TWIN STATIC TOOL - CAPTO

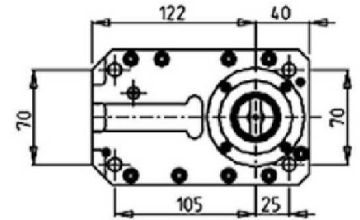
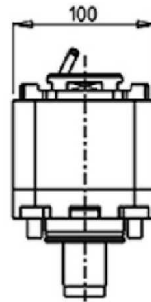
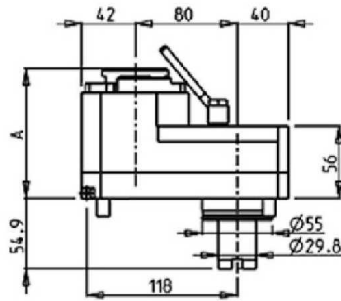


PartNumber	Description	# of Tools	Cool Thru	Reversible	Size
MNL0504020	Axial Opposite Face Twin Static Tool: Right C4 Capto	1+1	X	X	C4
MNL0504020LC	Axial Opposite Face Twin Static Tool: Left C4 Capto	1+1	X	X	C4

DRIVEN

TT-2600CM

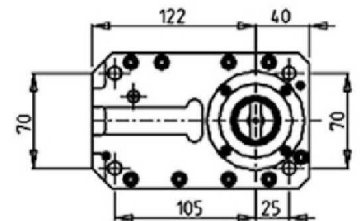
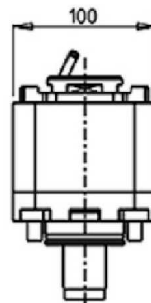
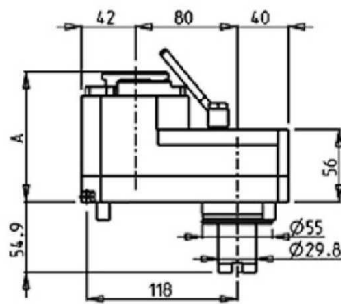
RADIAL DRIVEN TOOL REDIRECTED IN Z BY 80mm



PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0570332	Radial Redirected in Z by 80mm ERA32	ERA32	1:1	4000		X	101
TKW0570432	Radial Redirected in Z by 80mm ERA32 Cool Thru*	ERA32	1:1	4000	X	X	111

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

RADIAL GEARED-DOWN 2:1 DRIVEN TOOL REDIRECTED IN Z BY 80mm



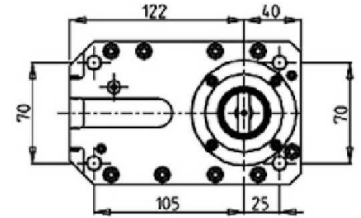
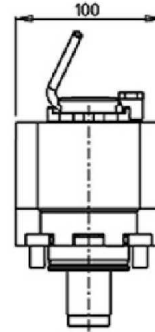
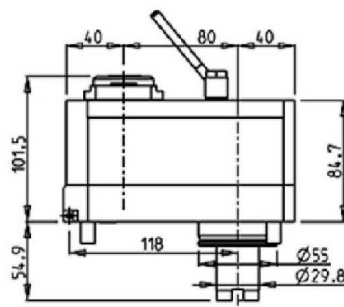
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	A
TKW0571332	Radial Geared-Down 2:1 Redirected ERA32	ERA32	2:1	2000		X	101
TKW0571432	Radial Geared-Down 2:1 Redirected ERA32 Cool Thru*	ERA32	2:1	2000	X	X	111

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

DRIVEN

TT-2600CM

RADIAL GEARED-UP 1:4 DRIVEN TOOL REDIRECTED IN Z BY 80mm

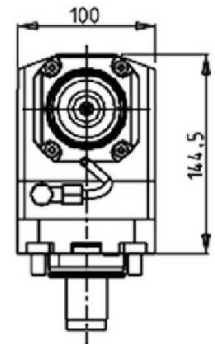
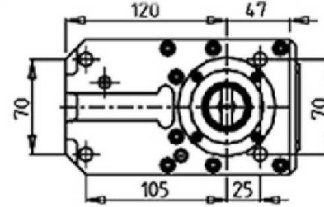
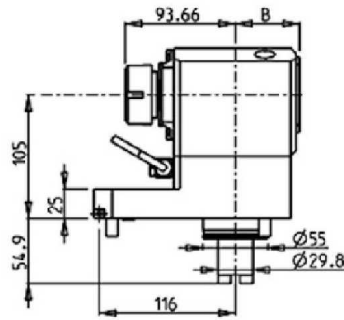


PartNumber	Description	Spindle	I	RPM	Ext Cool
TKW0610120	Radial Geared-Up 1:4 Redirected ER20	ER20	1:4	16000	X

DRIVEN

TT-2600CM

AXIAL DRIVEN TOOL H=105mm



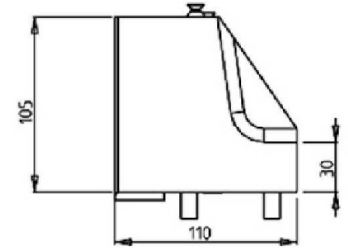
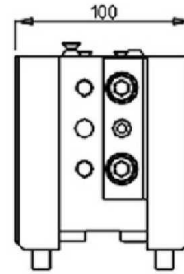
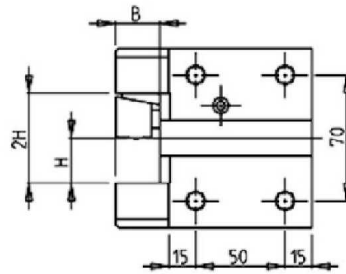
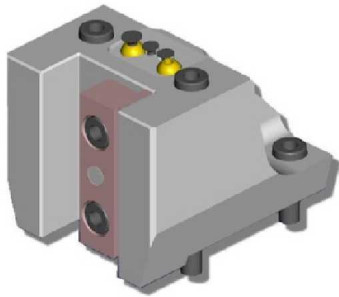
PartNumber	Description	Spindle	I	RPM	Cool Thru	Ext Cool	B
TKW0670132	Axial Driven Tool ER32	ER32	1:1	4000		X	54.5
TKW0670232	Axial Driven Tool ER32 Cool Thru*	ER32	1:1	4000	X	X	67

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

STATIC

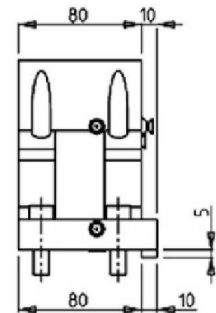
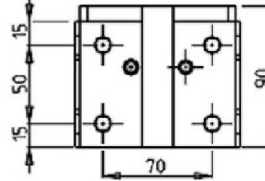
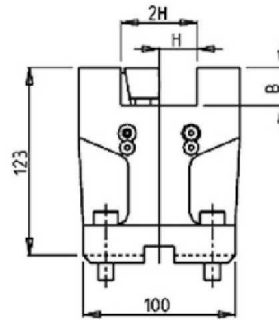
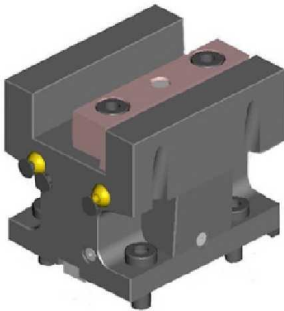
TT-2600CM

RADIAL SINGLE STATIC TOOL



PartNumber	Description	# of Tools	Dimensions	B	H
TKW0682500	Radial Single Static Tool 25mm	1	mm	25	25

AXIAL SINGLE STATIC TOOL

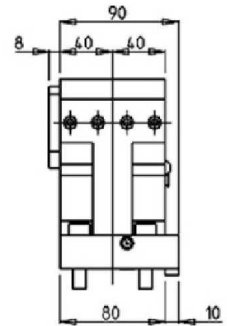
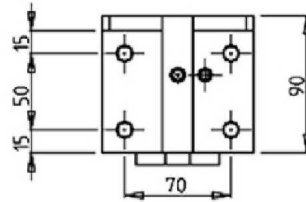
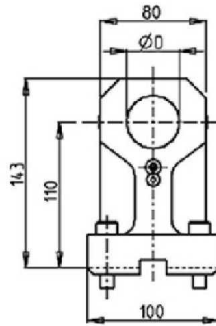
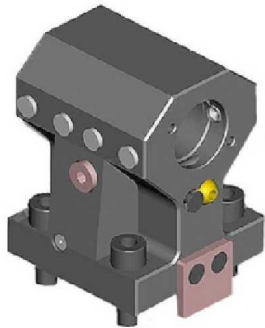


PartNumber	Description	# of Tools	Dimensions	B	H
TKW0692500	Axial Single Static Tool 25mm	1	mm	25	25

STATIC

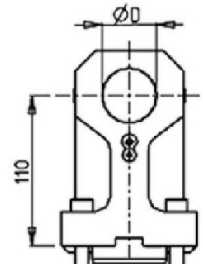
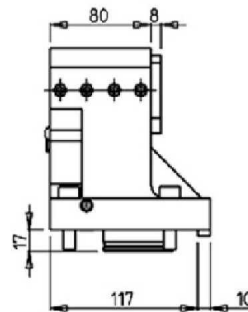
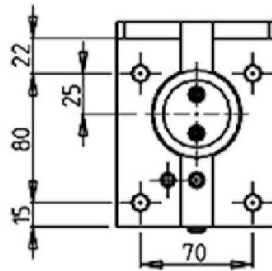
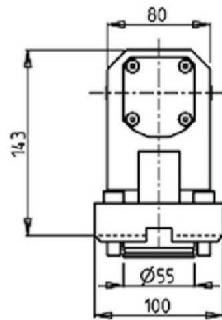
TT-2600CM

AXIAL SINGLE BORING BAR HOLDER H=110mm



PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D
TKW0704000	Axial Single Boring Bar Holder 40mm	1	X	X	mm	40
KIT1000031	Plug for 40mm BBH to Make Cool Thru*					

AXIAL REAR-SET BORING BAR HOLDER H=110mm

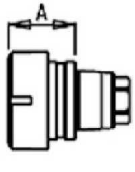


PartNumber	Description	# of Tools	Cool Thru	Ext Cool	Dimensions	D
TKW0784000	Axial Rear-Set Boring Bar Holder 40mm	1	X	X	mm	40
KIT1000031	Plug for 40mm BBH to Make Cool Thru*					

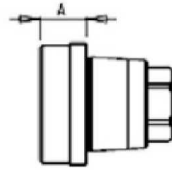
DRIVEN

ACCESSORIES

MTSK-40 ER ADAPTORS



Cod. MT	Mandrino Spindel	A
MTSK40A02	ER32	35.6
MTSK40A03	ER25	32.6
MTSK40A05	ER16	30.26



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

PartNumber	Description	Spindle	A
MTSK40A05	MTSK-40 Adaptor ER16	ER16	30.26
MTSK40B03	MTSK-40 Adaptor ERA20	ERA20	14
MTSK40A03	MTSK-40 Adaptor ER25	ER25	32.6
MTSK40B02	MTSK-40 Adaptor ERA25	ERA20	16
MTSK40A02	MTSK-40 Adaptor ER32	ER32	35.6

DRIVEN

ACCESSORIES

MTSK-40 MILL ADAPTORS



Cod. MT	Handline 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	Handline Spindle	A
MTSK40G03	MR25	33.6

Cod. MT	Handline Spindle	Handline Dimensions	A	D	L
MTSK40C03	Ø16x17	inch	15	16	17
MTSK40C02	Ø16x17	inch	15	16	17
MTSK40C04	Ø22x19	mm	17	22	19
MTSK40C05	Ø27x21	mm	22	27	21

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

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

Cod. MT	Handline Spindle	Handline Dimensions	A	D	L
MTSK40T00	Ø 1/2"	inch	32	1/2"	6.5

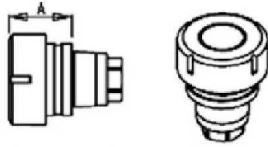
Cod. MT	Handline Spindle	A
MTSK40T00	Cover Plug	
	Abdeckstopfen	

PartNumber	Description	Spindle	Dimensions	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 Ø16x17	Ø16x17	mm	15	16	17
MTSK40C04	MTSK-40 Adaptor Mill Ø22x19	Ø22x19	mm	17	22	19
MTSK40C05	MTSK-40 Adaptor Mill Ø27x21	Ø27x21	mm	22	27	21
MTSK40F01	MTSK-40 Adaptor Mill 1/2"	1/2" Arbor	Inch	32	1/2"	6.5
MTSK40D11	MTSK-40 Adaptor Mill Weldon 1/4"	Weldon 1/4"		8		
MTSK40D12	MTSK-40 Adaptor Mill Weldon 5/16"	Weldon 5/16"		8		
MTSK40D13	MTSK-40 Adaptor Mill Weldon 3/8"	Weldon 3/8"		9		
MTSK40D14	MTSK-40 Adaptor Mill Weldon 1/2"	Weldon 1/2"		14		
MTSK40D01	MTSK-40 Adaptor Mill Weldon 6	Weldon 6		8		
MTSK40D21	MTSK-40 Adaptor Mill Weldon 6	Weldon 6		27.5		
MTSK40D02	MTSK-40 Adaptor Mill Weldon 8	Weldon 8		8		
MTSK40D03	MTSK-40 Adaptor Mill Weldon 10	Weldon 10		9		
MTSK40D24	MTSK-40 Adaptor Mill Weldon 10	Weldon 10		33		
MTSK40D04	MTSK-40 Adaptor Mill Weldon 12	Weldon 12		14		
MTSK40D25	MTSK-40 Adaptor Mill Weldon 12	Weldon 12		35.5		
MTSK40D06	MTSK-40 Adaptor Mill Weldon 16	Weldon 16		39.5		
MTSK40D07	MTSK-40 Adaptor Mill 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					

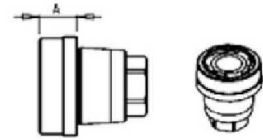
DRIVEN

ACCESSORIES

MTSK-50 ER ADAPTORS



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



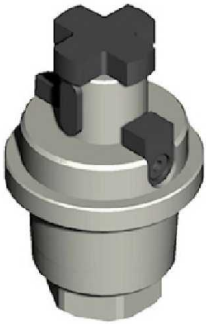
Cod. MT	Mandrina Spindel	A
MTSK50B01	ERA32	19
MTSK50B02	ERA25	14
MTSK50B03	ERA20	9

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

DRIVEN

ACCESSORIES

MTSK-50 MILL ADAPTORS



Cod. MT	Manifino Spindle	Manifino Spindle	A	D	L
MTSK50C02	Ø16x17	mm	15	16	17
MTSK50C03	Ø 3/4" x3/4"	Inch	15.5	3/4"	3/4"
MTSK50C04	Ø22x19	mm	17	22	19
MTSK50C05	Ø1" x3/4"	Inch	19	1"	3/4"
MTSK50C06	Ø27x21	mm	19	27	21
MTSK50C07	Ø32x24	mm	24	32	24

Cod. MT	Manifino Spindle	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

Cod. MT	Manifino Spindle	A
MTSK50D01	WELDON 6	8
MTSK50D02	WELDON 8	8
MTSK50D03	WELDON 10	8
MTSK50D04	WELDON 12	9
MTSK50D05	WELDON 16	12
MTSK50D07	WELDON 20	40
MTSK50D08	WELDON 25	44

Cod. MT	Manifino Spindle	A
MTSK50E01	POWERGRIP PG25	40

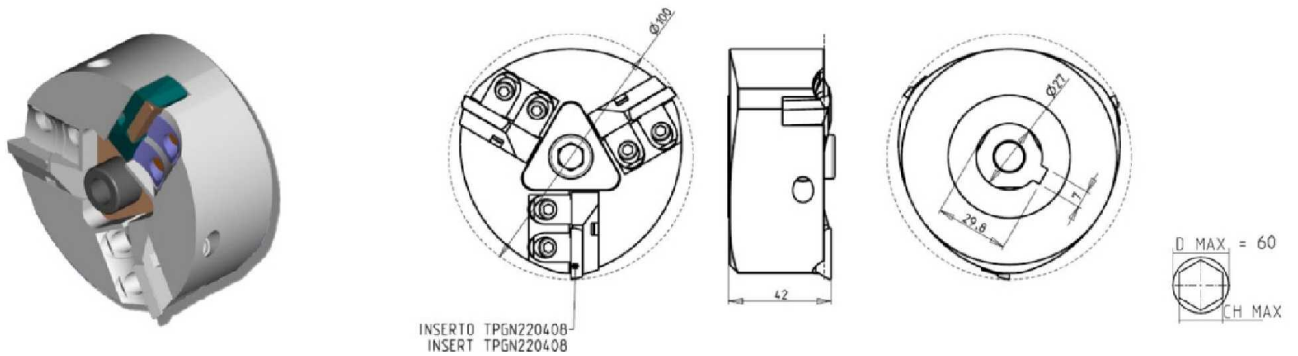
Cod. MT	Manifino Spindle	A
MTSK50T00	Toppe di protezione Cover Plug Abbrivestooler	

PartNumber	Description	Spindle	Dimensions	A	D	L
MTSK50C03	MTSK-50 Adaptor Mill 3/4"	3/4"x3/4"	Inch	15.5	3/4"	3/4"
MTSK50C05	MTSK-50 Adaptor Mill 1"x3/4"	1"x3/4"	Inch	19	1"	3/4"
MTSK50C02	MTSK-50 Adaptor Mill Ø16x17	Ø16x17	mm	15	16	17
MTSK50C04	MTSK-50 Adaptor Mill Ø22x19	Ø22x19	mm	17	22	19
MTSK50C06	MTSK-50 Adaptor Mill Ø27x21	Ø27x21	mm	19	27	21
MTSK50C07	MTSK-50 Adaptor Mill Ø32x24	Ø32x24	mm	24	32	24
MTSK50D11	MTSK-50 Adaptor Mill Weldon 1/4"	Weldon 1/4"		8		
MTSK50D12	MTSK-50 Adaptor Mill Weldon 5/16"	Weldon 5/16"		8		
MTSK50D13	MTSK-50 Adaptor Mill Weldon 3/8"	Weldon 3/8"		8		
MTSK50D14	MTSK-50 Adaptor Mill Weldon 1/2"	Weldon 1/2"		9		
MTSK50D15	MTSK-50 Adaptor Mill Weldon 5/8"	Weldon 5/8"		12		
MTSK50D01	MTSK-50 Adaptor Mill Weldon 6	Weldon 6		8		
MTSK50D02	MTSK-50 Adaptor Mill Weldon 8	Weldon 8		8		
MTSK50D03	MTSK-50 Adaptor Mill Weldon 10	Weldon 10		8		
MTSK50D04	MTSK-50 Adaptor Mill Weldon 12	Weldon 12		9		
MTSK50D05	MTSK-50 Adaptor Mill Weldon 16	Weldon 16		12		
MTSK50D07	MTSK-50 Adaptor Mill Weldon 20	Weldon 20		40		
MTSK50D08	MTSK-50 Adaptor Mill Weldon 25	Weldon 25		44		
MTSK50E01	MTSK-50 Adaptor POWERGRIP PG25	POWERGRIP PG25		40		
MTSK50T00	MTSK-50 Cover Plug					

DRIVEN

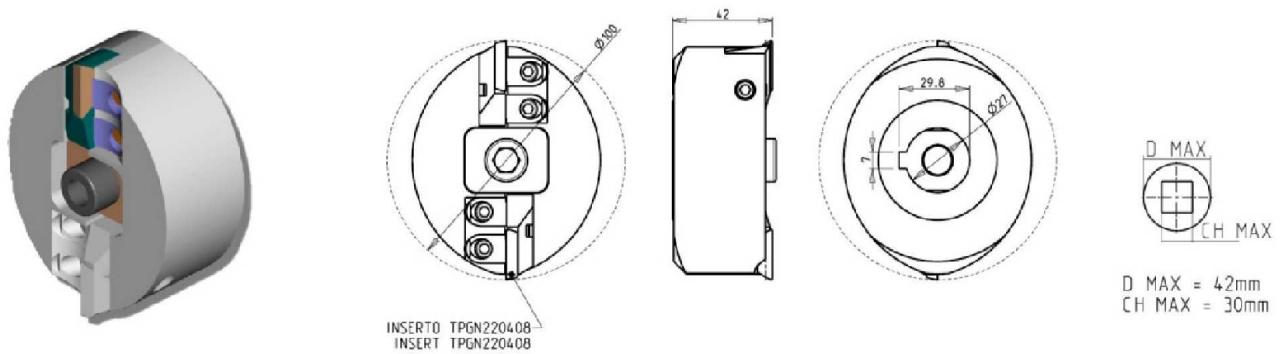
ACCESSORIES

POLYGON MAKING MILL HEAD (3 INSERTS)



PartNumber	Description
P01Z30A100	3 Insert Polygon Making Mill Head (with Inserts)
TPGN220408	10 Inserts for Polygon Making Mill Heads

POLYGON MAKING MILL HEAD (2 INSERTS)



PartNumber	Description
P01Z20A100	2 Insert Polygon Making Mill Head (with Inserts)
TPGN220408	10 Inserts for Polygon Making Mill Heads

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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