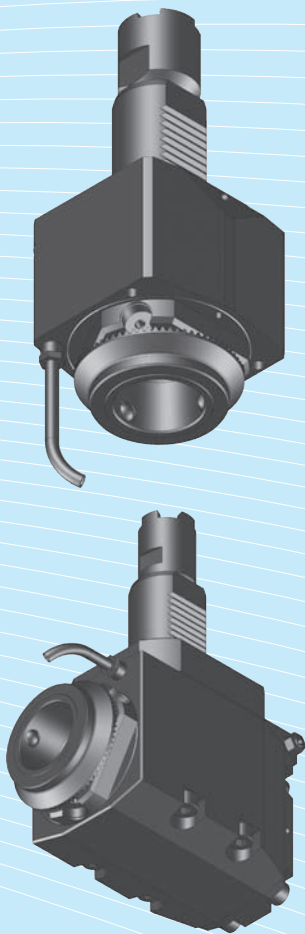




mimatic[®]
T o o l S y s t e m s

Driven Toolholders for HAAS Machines








Manufacturer of Precision Tools since 1974
INNOVATION · PRECISION · INDIVIDUALITY · QUALITY · SERVICE

BLUECOMPETENCE
Alliance Member

Partner of the Engineering Industry
Sustainability Initiative

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mimatic[®] Tool Systems for Sustainability and Efficiency

BLUECOMPETENCE


Alliance Member

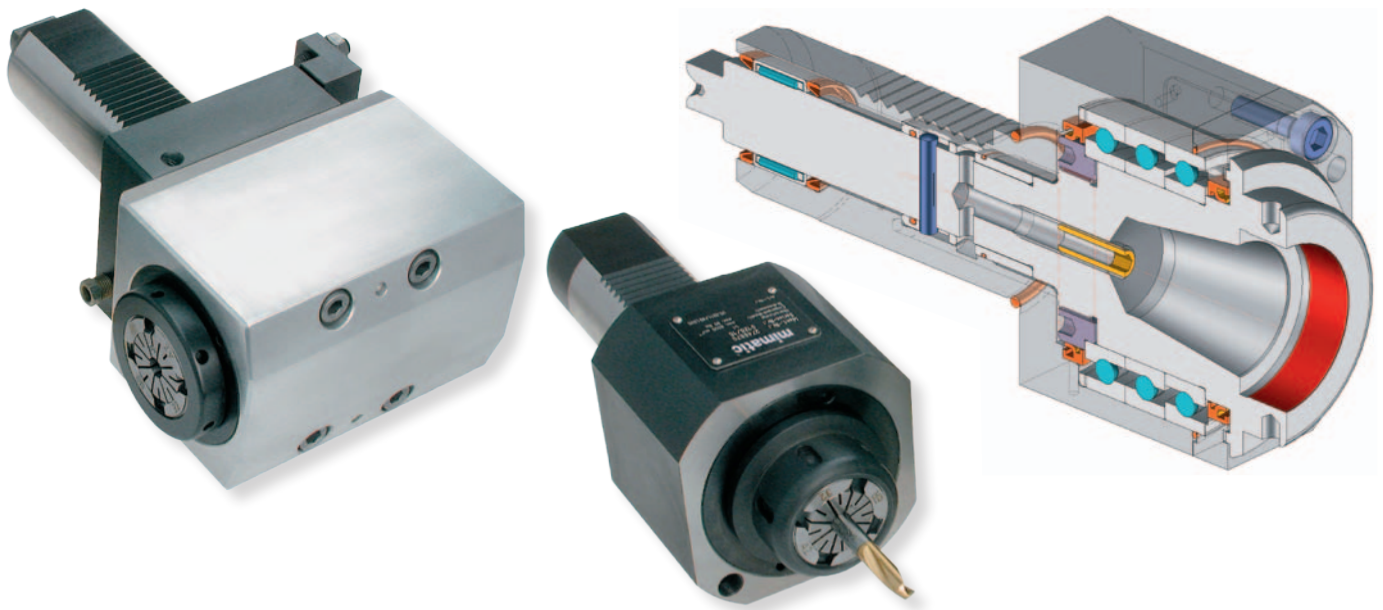
Partner of the Engineering Industry
Sustainability Initiative

Tools according to the policy of BLUECOMPETENCE are marked in this catalogue. More information on the program (Initiative) of the VDMA see pages 16-17 in the main catalogue.

Selection According to Tool Type

Connectable in accordance with
BLUECOMPETENCE » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

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Straight Unit		HAAS	10
Angle Unit		HAAS	11



As a medium-size company with global activities, we are developing and producing CNC precision standard and special tools for the automotive, mechanical engineering, aircraft and woodworking industries since 1974.

The mimatic® brand is acknowledged worldwide for its compliance with strict quality requirements in the context of integrated system solutions for the machining segment.

The philosophy of the Company is based upon synergy between highly motivated staff and excellent standards in the areas of technology and quality development. These attributes enable us to provide the perfect solution to every specific customer requirement.

Products from mimatic®

- Driven toolholders for CNC lathes and machining centers
- Cutting tools
- Clamping systems

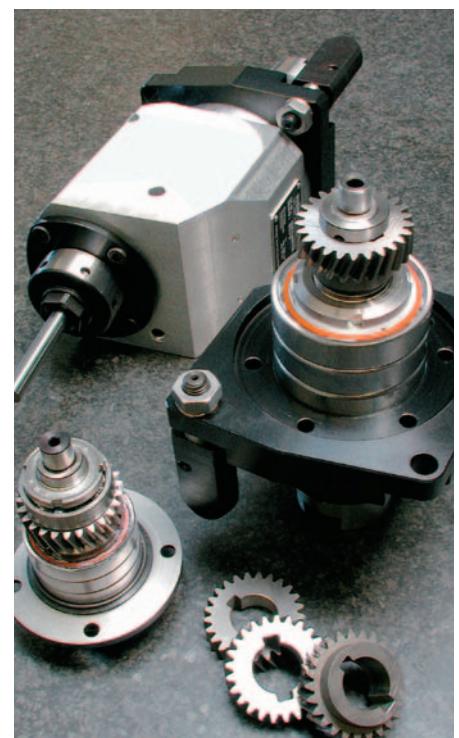
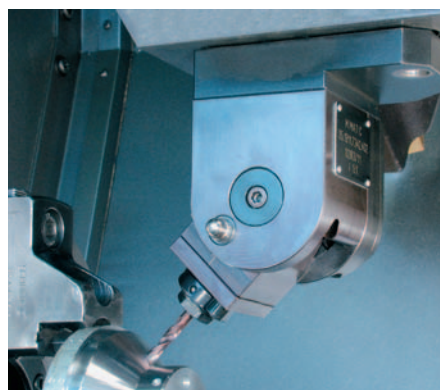
Our quality systems have been approved since 1998 and we are certified to DIN EN ISO 9001:2000.

The know-how of our 140 employees worldwide is available to you at any time on location.

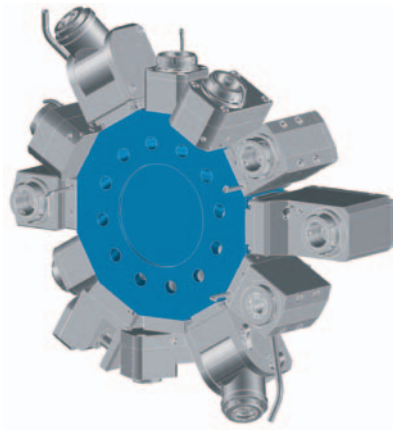
Many years ago we started to specialize in the production of driven toolholder units for metal processing. These are installed on CNC lathes.

Our products are used for large volume manufacturing and facilitate complete processing without multiple clamping of complex workpieces.

Our products contribute towards constant improvements in our customers production processes due to the use of the most modern technology allied to the highest levels of quality.



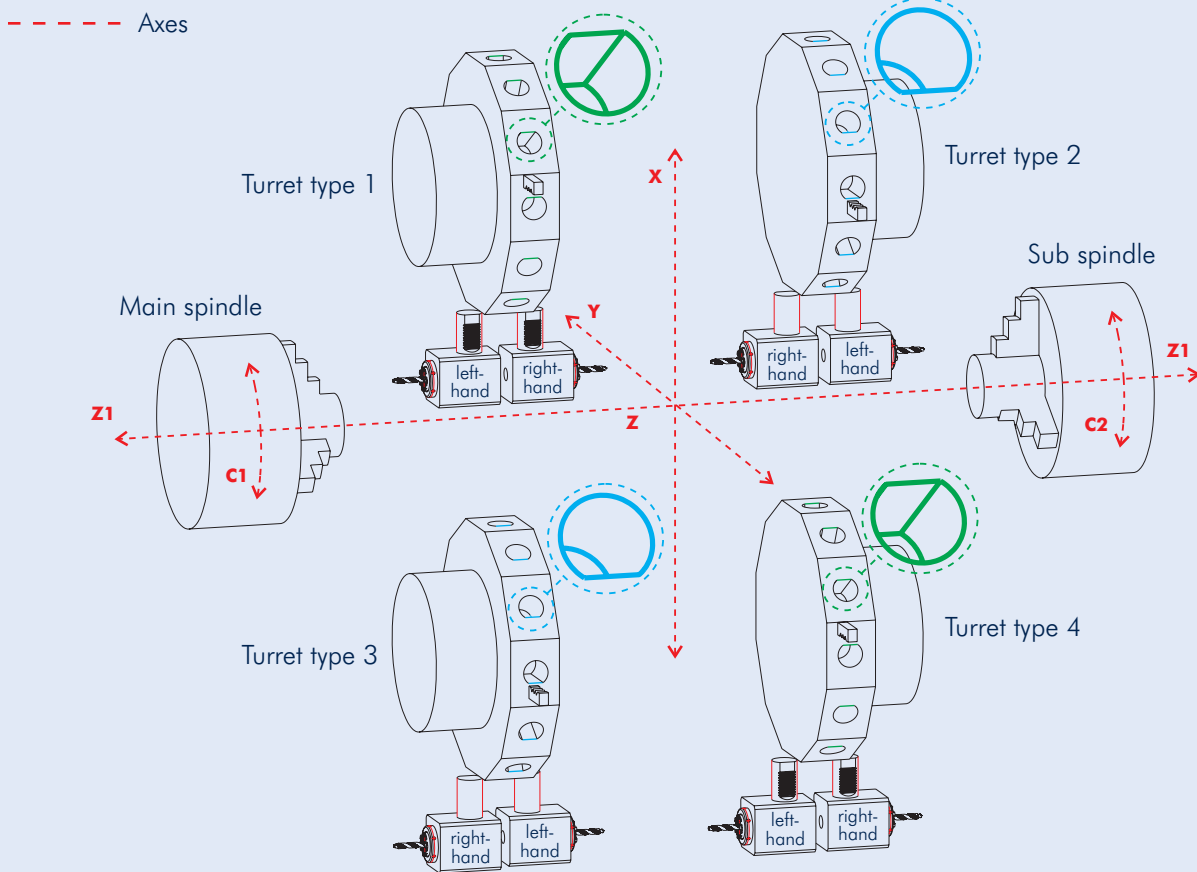
Operation with Star-type Turrets



Tools are fixed on the the revolver circuit!

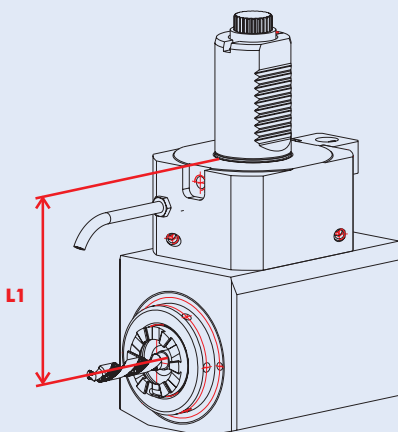
The orientation of the revolver to the spindle is important. Machines with Star-type Turrets often come with a sub spindle.

Right- and Left-hand Versions on Star-type Turrets with Main- and Sub-Spindle



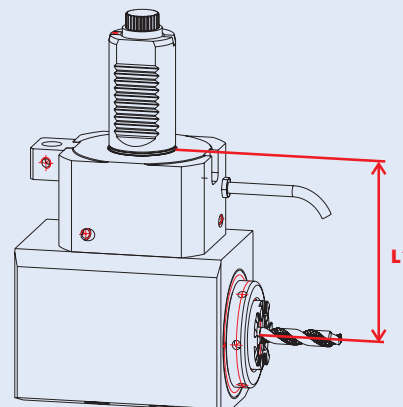
Left-hand Version

Please note dimension L1



Right-hand Version

Please note dimension L1



Please check interference circles with fixed tools!

Versions

Our boring and milling units are suitable for most of the popular turning machines and lathe equipment manufacturers. We produce the following types:

- Straight and offset units
- Internal and/or external coolant supply
- Gear multiplication or reduction
- Single or multi-spindle versions
- Angle heads for the production of angled holes, by means of adjustable and fixed angles
- Sawblade holders for sawing or slotting of workpieces
- Every popular type of tool system can be supplied

Technology and quality is at the forefront of our business:

- Highly precise bearing technology (high quality spindle and taper roller bearings)
- Specially optimized gears guarantee an excellently smooth run
- High torque transmission, rigidity and RPM`s
- Highest concentricity and facing accuracy < 3 µm
- Internal coolant supply up to 70 bar
- Use of high pressure seals und friction optimized special seals
- Additional labyrinth seals protect the bearings from the penetration of dirt and coolant

- Internal clamping nut guarantees a compact tool length and optimum bearing positioning ensures maximum axial and radial support at the spindle and high stability
- Alignment pins/blocks on angle units for minimum setup time and fine centreline adjustment
- Limited dry usage of driven toolholders with internal coolant through the spindle (i.C.). Running in dry condition should be avoided. Tools should frequently run with coolant. Easily changeable from internal or external coolant supply.
- The coolant filtering capabilities of the machine should be 40 µm or less.

Modular Quick Change System „mimatic mi“

Advantages

- Universal tool clamping system for all production areas
- Presetting of the tools off-line by length adjustment screw
- Tool change within seconds
- Concentricity of the interface < 0,002 mm
- Secure holding force by form-locking
- Very short design
- Toolholders in different sizes
- All toolholders with internal coolant

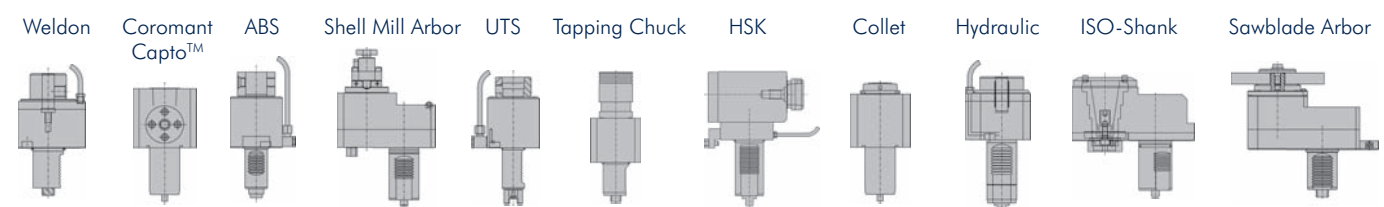
Modular Toolholders in different Sizes for all Production Areas

- Tapping toolholders
- Collet toolholders (internal and external nut)
- Hydro-Flex hydraulic toolholders
- Thread tightening toolholder cutters
- Morse taper shank toolholders
- Weldon and Whistle Notch toolholders
- Shell mill toolholders

All toolholders are available for use with your presetter.

Find more information of „mimatic mi“ on pages 12-23.

Tool System Examples



Performance Values

The torques M_{max} specified in the tables below refer to shock-free processing (e.g. threaded cutting). For processes involving major shock loads (e.g. milling or multi-edge knocking), a value reduction of up to 50 % and more needs to be taken into account. The values n_{max} and P_{max} rendered are guideline values for short-time operation.

The permissible relative operating duration depends

- on the version of the spindle unit (with or without gear)
- on the presence of a cooling system and the type of cooling (external or internal through the tool spindle)
- on the processing torque

At a charge of about 60 % of the maximum values the working life calculated amounts to approx. 2.000 hours. Spindle units with gears produce more noise at higher speeds!

Operating Instructions

Initial Start-up: To ensure long tool life it is important to properly “run-in” the tools. This procedure serves to reduce the internal friction in the driven unit and to evenly distribute the grease in the precision bearings.

- **Max. RPM in the first operation hour should not exceed 70 % of the maximum permissible RPM.**
- **Never run the tool above the maximum permissible torque rate and/or maximum permissible RPM (see also the drawing of the unit).**

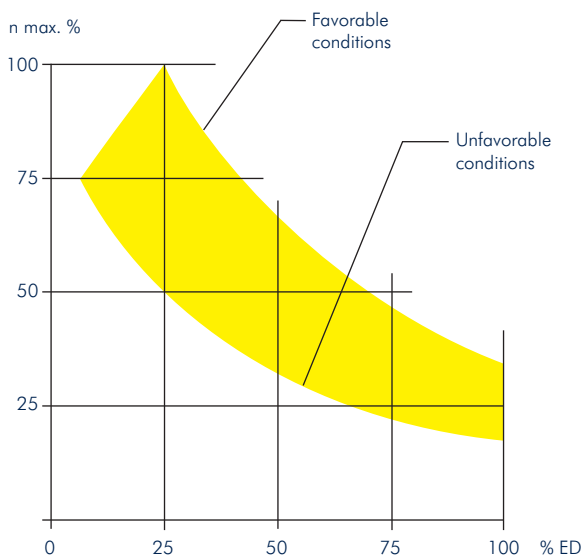
Tools with internal coolant through the spindle (i.C.): To avoid premature wear and damage to the seal system we recommend to filter the coolant to 40 μm minimum.

Filter grades of 40 μm worked in operation with very good results. The maximum permissible coolant pressure can be taken from the technical data of the driven toolholder.

Driven Toolholders with internal coolant through the spindle (i.C.) should **never run without coolant**. The coolant should flow through the tool, before the tool drive is switched on. Running in dry condition damages the internal seals.

Service interval: The tool life of the driven toolholder depends strongly on the application. Wear parts such as bearings and seals should be exchanged. We recommend to send the tools at least once annually to our service center for cleaning and regreasing. Tools with internal coolant through the spindle should be serviced every 6 months.

Optimum Relative Cycle Times (Guideline Values)



Determination of the maximum permissible cycle times per minute ED_{max}

The maximum permissible cycle times per minute may not be under any circumstances exceeded.

CT max: maximum permissible cycle times in percent per minute (%/min.)



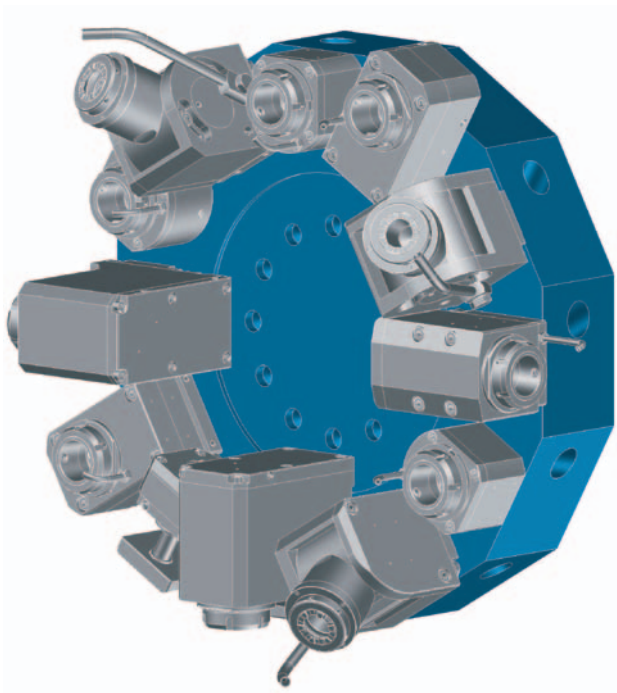
SL 20 / 30 / 40

Data

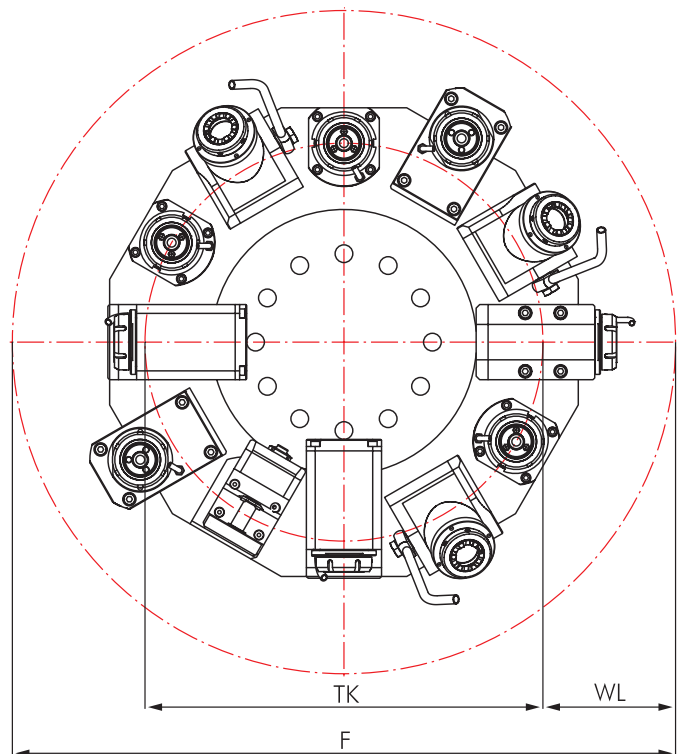
Machin type series		Turret Stations
SL	20	12
SL	30	12
SL	40	12



Star-type Turret VDI 40


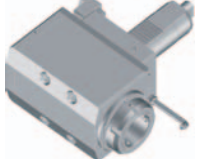


Interference Circles



Machine type Series	F	SW	WL
SL 20			
SL 30			
SL 40			

Driven Toolholders

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Angle Unit			11

Options and Accessories

mi Toolholders		mi System Description Toolholders Accessories	13 15-19 20-21
Standard VDI Toolholders		VDI Toolholders Accessories	26-32 33-35
Accessories		Collets DIN 6499 Threading Collets Wrenches Clamping Nuts Sleeves and Bushings	33 33 33 33 35





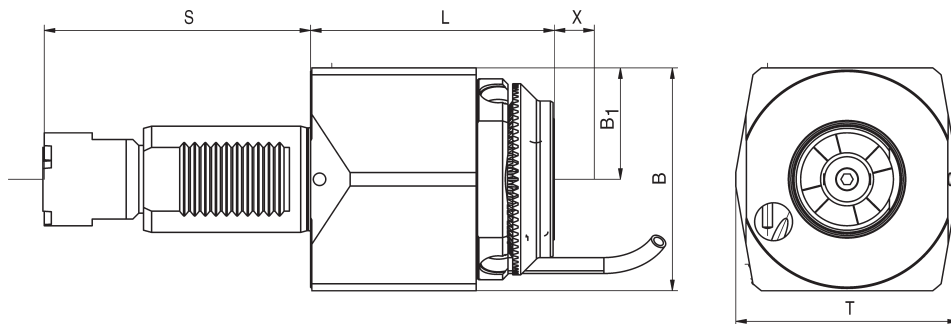
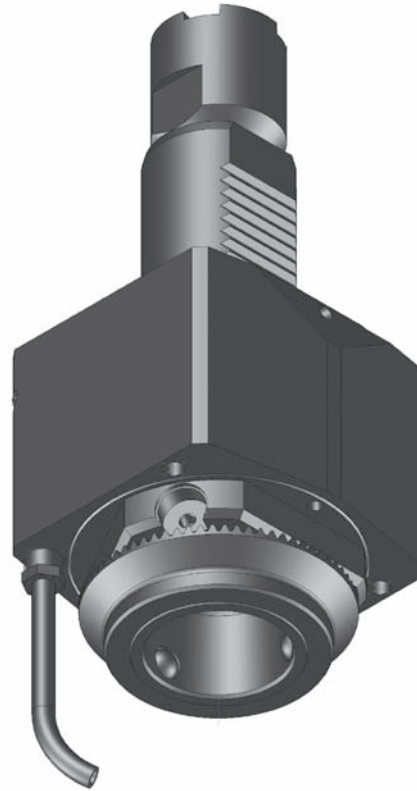
Delivery information







Driven toolholders with mi quick-change interface are supplied with operating wrench (see spare parts on page 21).
Driven toolholders with other interfaces are supplied without clamping wrench (see accessories on page 33).

Straight Unit

Connectable in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM



for Manufacturer	
	
for Machine type	
SL 20/30	S = 104,85
SL 40	S = 117,55
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Contrate Toothing
Modular Interfaces	
	

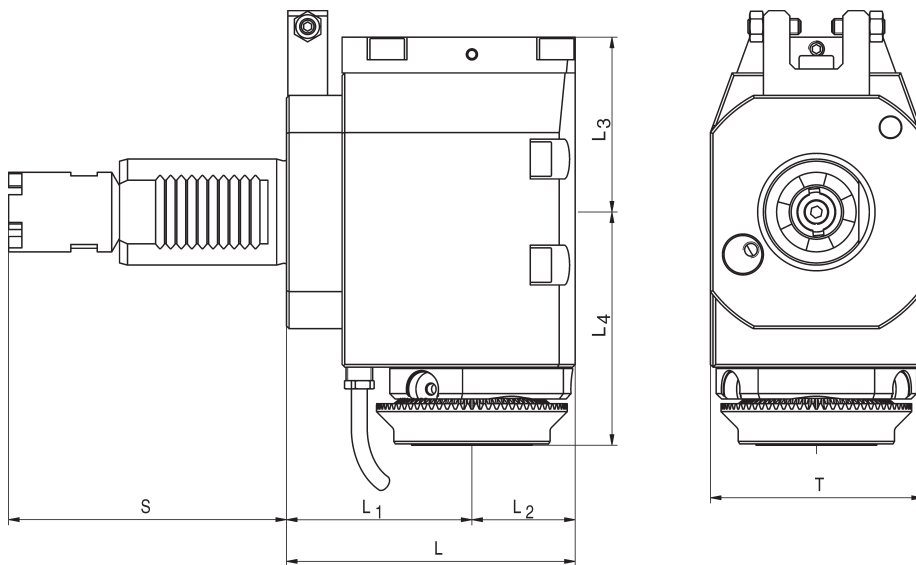
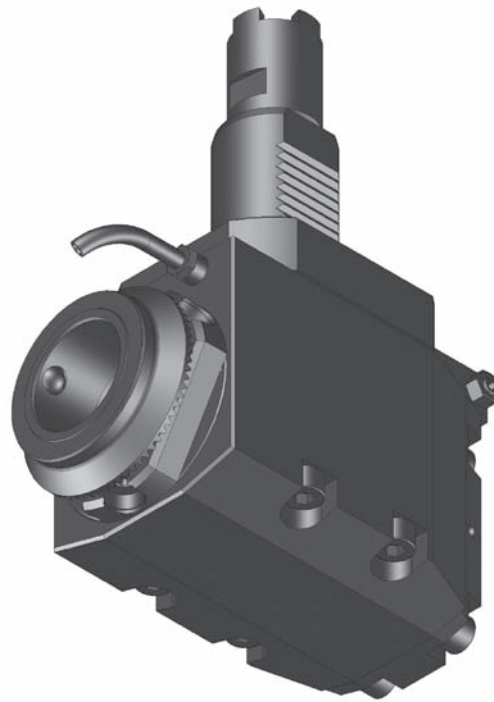


Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	B mm	B1 mm	T mm	S mm	Rotating direction
100434	ER 32	1-20	80 Nm	-	i = 1:1	external	75,5	85	42	84	104,85	
169129	ER 32	1-20	80 Nm	-	i = 1:1	external	75,5	85	42	84	117,55	
124231	ER 32*	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	85	42	84	104,85	
124232	ER 32*	1-20	80 Nm	6.500 / 6.500	i = 1:1	internal	75,5	85	42	84	117,55	
100833	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92,0	85	42	84	104,85	
169595	mi 50	-	80 Nm	6.500 / 6.500	i = 1:1	internal	92,0	85	42	84	117,55	

Angle Unit

Connectible in accordance with **BLUECOMPETENCE** » mimatic mi » PolyMILL » TriMILL » TrioCut » PolyREAM

for Manufacturer	
	
for Machine type	
SL 20/30	S = 104,85
SL 40	S = 117,55
Dimensions	
Turret type	Star-type Turret
Shank	VDI 40
Drive	Contrate Toothing
no reversion of Rotating	
Modular Interfaces	
	



Order No.	Tool holder	Clamping range mm	Torque max.	n1/n2 (max.) (r.p.m.)	Gear Ratio	Coolant	L mm	L1 mm	L2 mm	L3 mm	L4 mm	T mm	S mm	Rotating direction
101174	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	80	104,85	↻ ↻
169141	ER 32	1-20	50 Nm	6.500 / 6.500	i = 1:1	external	109	70	39	66	70	80	117,55	↻ ↻
124836	ER 32*	1-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	80	104,85	↻ ↻
166691	ER 32*	1-20	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	70	80	117,55	↻ ↻
101477	mi 50	-	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	80	104,85	↻ ↻
169593	mi 50	.	50 Nm	6.500 / 6.500	i = 1:1	internal	109	70	39	66	88	80	117,55	↻ ↻

* With clamping nuts with sealing, seals see page 34

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	BT 40/50	MAS-BT	14
	HSK 63	DIN 69893	15
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Combination Shell End Mill Arbors 	Ø 16-27 mm		15
Weldon Toolholders Whistle-Notch Toolholders 	Ø 6-25 mm Ø 1/4"-1/0"	DIN 1835 B DIN 1835 B	16 16
Synax® Tapping Quick Change Holders 	Ø 3,5-16 mm		17
Softsynchro Chucks (Licence Emuge) 	M4-M12		17
Hydraulic Chucks 	Ø 12 + 20 mm		17
	Accessories		18
Shrink fit Chucks 	Ø 8-20 mm		19
	Accessories		19
Accessories 	Blank		19
	Test Mandrel		19
	Tool-presetting unit		20
	Wrench		21
	Assembling jig		21
	Protection plug		21

Advantages

- Universal tool clamping system for all production areas
- Presetting of the tools off-line by length adjustment screw
- Tool change within seconds
- Concentricity of the interface < 0,002 mm
- Secure holding force by form-locking
- Very short design
- Toolholders in different sizes
- All toolholders with internal coolant

Use on CNC-Turning Machines and Machining Centers

Driven toolholders for all turning machines, machining centers, milling machines, turn/mill centers as well as transfer and special machines. Driven toolholders / basic holders are available in many different versions:

- Shafts such as VDI, SK, BT, CAT, HSK, Capto, ...
- Straight and angle units
- Single or multi-spindle versions
- Gear multiplication or reduction
- Internal and/or external coolant supply
- Central or offset

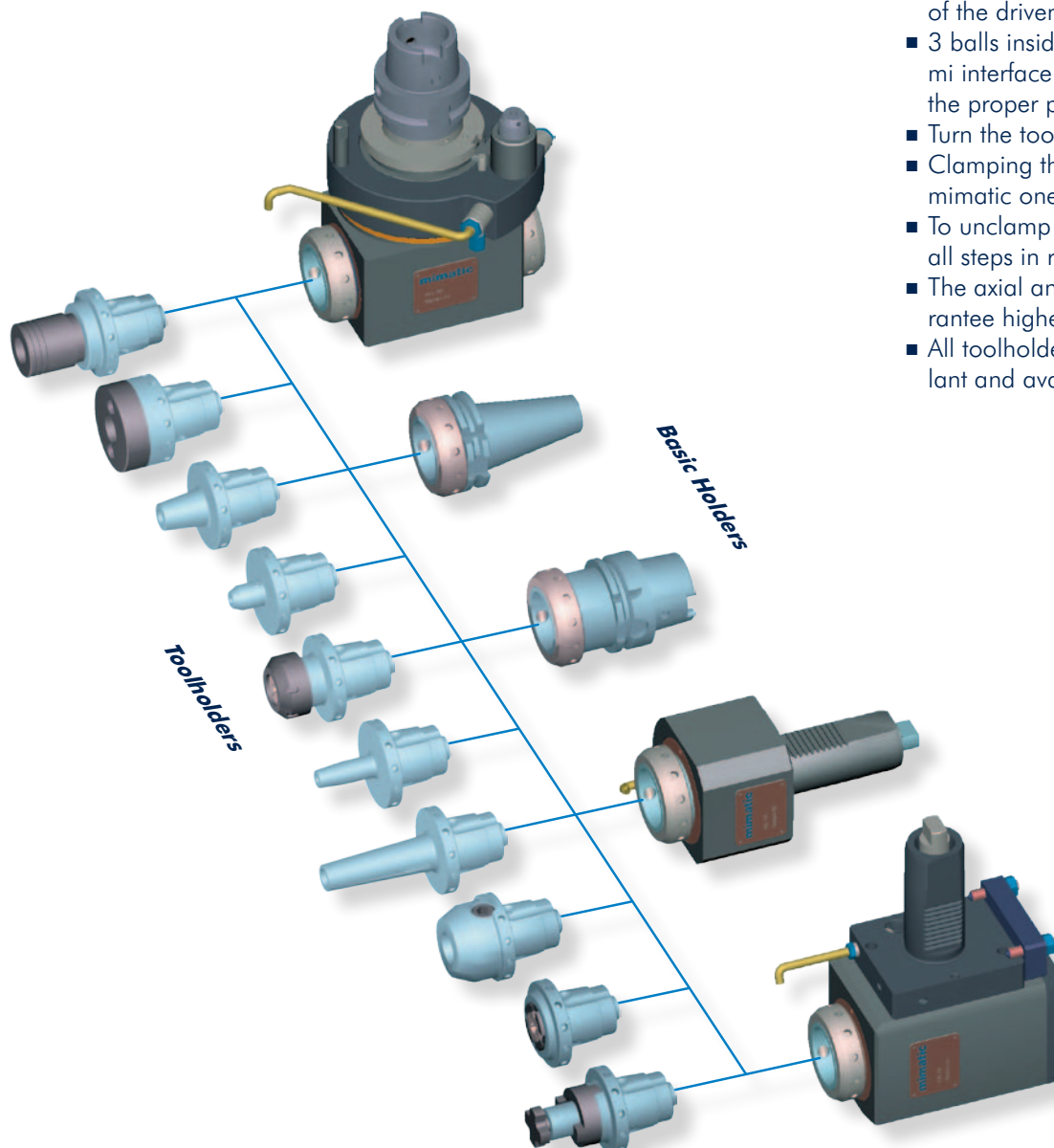
Modular Toolholders in Different Sizes for All Production Areas

- Tapping toolholders
- Collet toolholders (internal and external nut)
- Hydro-Flex hydraulic toolholders
- Thread tightening toolholder cutters
- Morse taper shank toolholders
- Weldon and Whistle Notch toolholders
- Shell mill toolholders

All toolholders are available for use with your presetter.

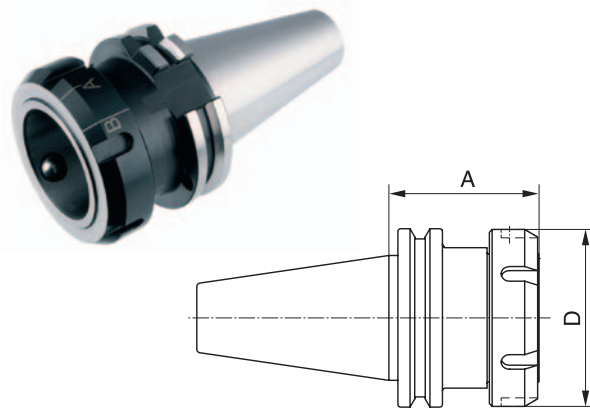
mi Operation

- Insert the toolholder into the spindle of the driven toolholder
- 3 balls inside the modular mimatic mi interface guide the toolholder into the proper position
- Turn the toolholder until it is locked
- Clamping the sleeve nut by using the mimatic one hand key
- To unclamp the toolholder just follow all steps in reverse order
- The axial and conical surface guarantee highest concentricity
- All toolholders are with internal coolant and available in different sizes



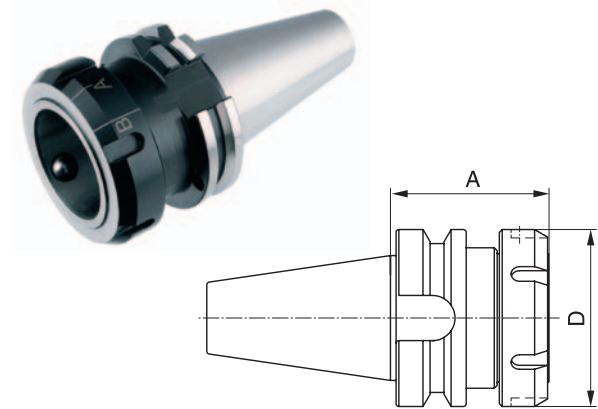
Basic Holders

DIN 69871 AD/B



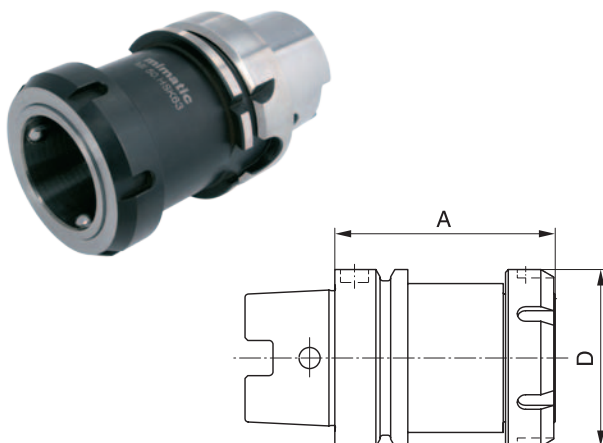
Order No.	Size	SK	A mm	D mm
121454	mi 32	SK 30	53,5	45
155404	mi 40	SK 40	53,5	54
155502	mi 50	SK 40	53,5	63
155481	mi 50	SK 50	53,5	63
155477	mi 63	SK 50	58,5	77

MAS-BT JIS 6339



Order No.	Size	BT	A mm	D mm
121481	mi 32	BT 30	45,0	45
121512	mi 40	BT 40	48,5	54
155469	mi 50	BT 40	56,5	63
155457	mi 50	BT 50	61,5	63
121552	mi 63	BT 50	70,0	77

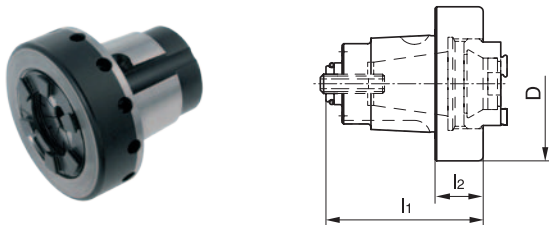
DIN 69893 A



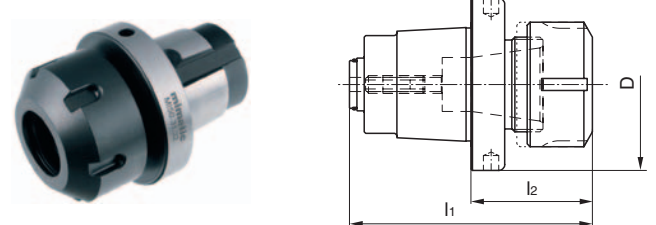
Order No.	Size	HSK	A mm	D mm
155410	mi 40	HSK 50	60,0	54
155458	mi 50	HSK 63	78,5	63
121562	mi 50	HSK 100	85,0	63
121577	mi 63	HSK 100	100,0	77

Collet Chucks DIN 6499 – Type ER

- short type
- clamping nut inside
- with internal coolant



- long type
- clamping nut outside
- with internal coolant

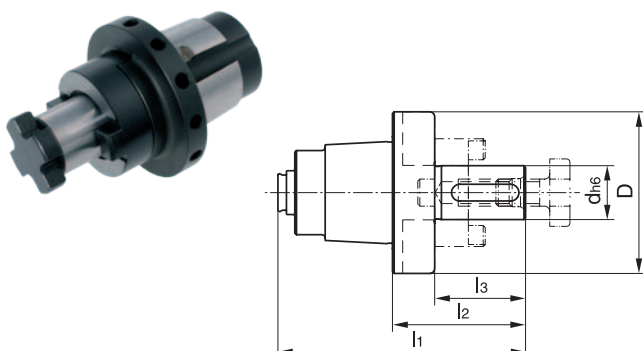


Order No.	Size	Collet	l1 mm	l2 mm	D mm
121479	mi 32	ER 11	41,5	15	42
155357	mi 32	ER 16	41,5	15	42
171839	mi 32	ER 20	59,0	32	36
155388	mi 40	ER 16	45,0	11	48
155335	mi 40	ER 20	49,0	15	48
155367	mi 40	ER 25	55,0	21	48
155418	mi 50	ER 25	55,0	14	58
155460	mi 50	ER 32	59,0	18	58
155471	mi 63	ER 32	63,0	14	75
155496	mi 63	ER 40	69,0	20	75

Order No.	Size	Collet	l1 mm	l2 mm	D mm
155358	mi 32	ER 11	72,5	46,0	42
155319	mi 32	ER 16	64,5	38,0	42
121460	mi 40	ER 16	73,0	39,0	48
121502	mi 40	ER 20	80,0	46,6	48
155448	mi 50	ER 25	82,0	41,0	58
155445	mi 50	ER 32	88,0	47,0	58
155475	mi 63	ER 32	96,0	47,0	75
155451	mi 63	ER 40	94,5	45,5	75

Combination Shell End Mill Arbor

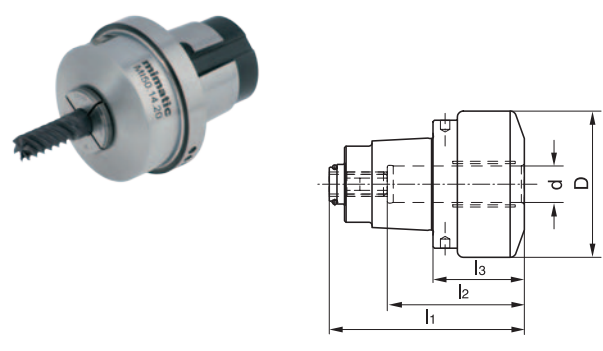
without internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
121486	mi 32	66,0	39,5	27	16	42
155365	mi 40	73,5	39,5	25	16	48
155447	mi 50	82,0	41,0	27	16	58
155413	mi 50	88,0	47,0	31	22	58
155512	mi 63	96,0	47,0	31	22	75
155465	mi 63	98,0	49,0	33	27	75

Hydraulic Chuck

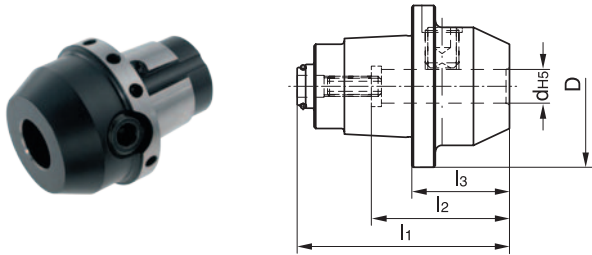
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
155391	mi 40	64	45	30	12	48
155417	mi 50	71	52	30	20	58

Weldon Toolholder DIN 1835 B

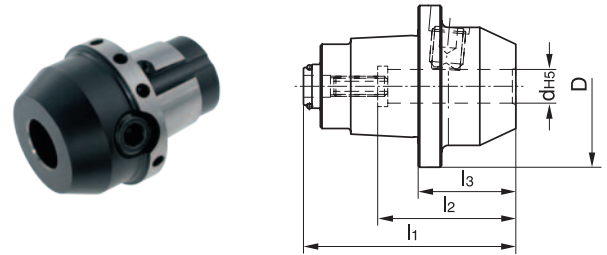
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d H5 mm / "	D mm
121436	mi 32	52,5	37	26,0	6	42
121478	mi 32	52,5	37	26,0	8	42
121469	mi 32	55,5	41	29,0	10	42
121439	mi 32	57,5	46	31,0	12	42
121449	mi 32	52,5	37	26,0	1/4"	42
121472	mi 32	55,5	41	29,0	3/8"	42
121448	mi 32	57,5	46	31,0	1/2"	42
155330	mi 40	60,0	37	26,0	6	48
155346	mi 40	60,0	37	26,0	8	48
155321	mi 40	63,0	41	29,0	10	48
155331	mi 40	65,0	46	31,0	12	48
155326	mi 40	65,0	46	31,0	14	48
155379	mi 40	68,0	49	34,0	16	48
121497	mi 40	60,0	37	26,0	1/4"	48
121475	mi 40	63,0	41	29,0	3/8"	48
121474	mi 40	65,0	46	31,0	1/2"	48
121499	mi 40	68,0	49	34,0	5/8"	48
155419	mi 50	65,0	37	24,0	6	58
155411	mi 50	66,0	37	25,0	8	58
155400	mi 50	70,0	41	29,0	10	58
155406	mi 50	73,0	46	32,0	12	58
155412	mi 50	73,0	46	32,0	14	58
155407	mi 50	74,0	49	33,0	16	58
155427	mi 50	78,0	51	37,0	20	58
121489	mi 50	65,0	37	24,0	1/4"	58
121529	mi 50	40,0	41	29,0	3/8"	58
121525	mi 50	73,0	46	32,0	1/2"	58
121520	mi 50	75,0	49	34,0	5/8"	58
121526	mi 50	78,0	51	37,0	3/4"	58
155470	mi 63	81,0	37	32,0	6	75
155459	mi 63	82,0	37	33,0	8	75
155490	mi 63	85,0	41	36,0	10	75
155509	mi 63	88,5	46	39,5	12	75
155463	mi 63	88,5	46	39,5	14	75
155482	mi 63	91,0	49	42,0	16	75
155474	mi 63	93,0	51	44,0	20	75
155464	mi 63	110	59	61,0	25	75
166815	mi 63	81,0	37	32,0	1/4"	75
166805	mi 63	85,0	41	36,0	3/8"	75
166813	mi 63	88,5	46	39,5	1/2"	75
166807	mi 63	91,0	49	42,0	5/8"	75
166804	mi 63	93,0	51	44,0	3/4"	75
166812	mi 63	110	59	61,0	1/0"	75

Whistle Notch Toolholder DIN 1835 E

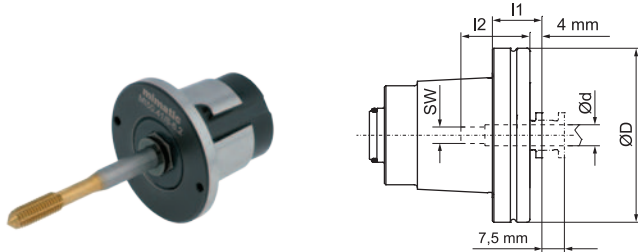
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d H5 mm / "	D mm
121463	mi 32	52,5	36	26,0	6	42
121464	mi 32	52,5	36	26,0	8	42
121443	mi 32	55,5	40	29,0	10	42
121453	mi 32	57,5	45	31,0	12	42
121442	mi 32	52,5	36	26,0	1/4"	42
121485	mi 32	55,5	40	29,0	3/8"	42
121480	mi 32	57,5	45	31,0	1/2"	42
155369	mi 40	60,0	36	26,0	6	48
155363	mi 40	60,0	36	26,0	8	48
155370	mi 40	63,0	40	29,0	10	48
155364	mi 40	65,0	45	31,0	12	48
155333	mi 40	65,0	45	31,0	14	48
155382	mi 40	68,0	48	34,0	16	48
121492	mi 40	60,0	36	26,0	1/4"	48
121493	mi 40	63,0	40	29,0	3/8"	48
121455	mi 40	65,0	45	31,0	1/2"	48
121494	mi 40	68,0	48	34,0	5/8"	48
169197	mi 40	89,0	50	55,0	20	52
155416	mi 50	65,0	36	24,0	6	58
155401	mi 50	66,0	36	25,0	8	58
155383	mi 50	70,0	40	29,0	10	58
155408	mi 50	73,0	45	32,0	12	58
155435	mi 50	73,0	45	32,0	14	58
155436	mi 50	75,5	48	34,5	16	58
155384	mi 50	78,0	50	37,0	20	58
166816	mi 50	65,0	36	24,0	1/4"	58
155440	mi 50	70,0	40	29,0	3/8"	58
155434	mi 50	73,0	45	32,0	1/2"	58
155428	mi 50	75,0	48	34,0	5/8"	58
155385	mi 50	78,0	50	37,0	3/4"	58
166104	mi 63	81,0	36	32,0	6	75
166105	mi 63	82,0	36	33,0	8	75
166110	mi 63	85,0	40	36,0	10	75
166112	mi 63	88,5	45	39,5	12	75
166113	mi 63	88,5	45	39,5	14	75
166114	mi 63	91,0	48	42,0	16	75
166115	mi 63	93,0	50	44,0	20	75
166116	mi 63	110	56	61,0	25	75
166797	mi 63	81,0	36	32,0	1/4"	75
166799	mi 63	85,0	40	36,0	3/8"	75
166796	mi 63	88,5	45	39,5	1/2"	75
166803	mi 63	91,0	48	42,0	5/8"	75
166798	mi 63	93,0	50	44,0	3/4"	75
166795	mi 63	110	56	61,0	1/0"	75

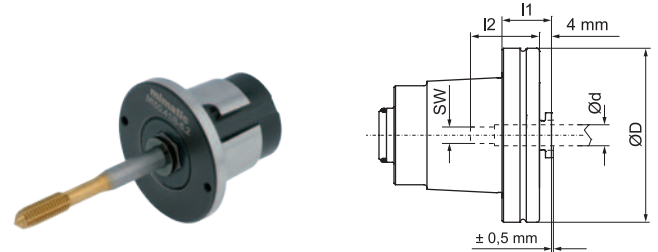
SYNAX® Tapping Quick Change Holder

without internal coolant,
with synchronisation and length compensation



Order No.	Size	l1 mm	l2 mm	d mm	D mm	SW
121510	mi 40	17,0	25	3,5	48	2,7
155397	mi 40	17,0	25	4,5	48	3,4
155377	mi 40	17,0	27	6,0	48	4,9
155378	mi 40	17,0	27	8,0	48	6,2
155403	mi 40	38,0	28	9,0	48	7,0
121451	mi 40	38,0	29	10,0	48	8,0
121498	mi 40	38,0	30	12,0	48	9,0
155450	mi 50	16,5	25	3,5	58	2,7
155487	mi 50	16,5	25	4,5	58	3,4
155422	mi 50	16,5	27	6,0	58	4,9
155497	mi 50	16,5	27	7,0	58	5,5
155455	mi 50	16,5	27	8,0	58	6,2
155423	mi 50	16,5	28	9,0	58	7,0
155466	mi 50	16,5	29	10,0	58	8,0
155472	mi 50	44,0	36	11,0	58	9,0
155449	mi 50	16,5	30	12,0	58	9,0
155479	mi 50	44,0	33	16,0	58	12,0

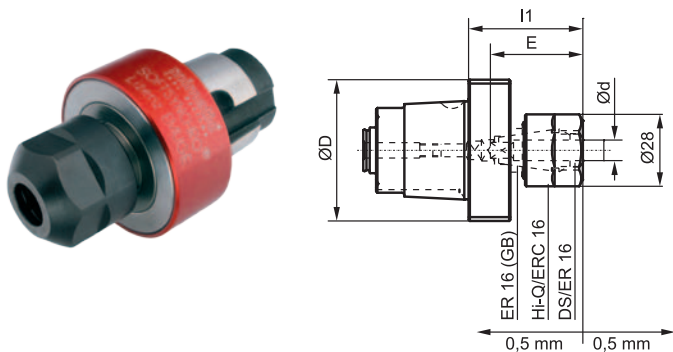
with internal coolant (70 bar),
only synchronisation



Order No.	Size	l1 mm	l2 mm	d mm	D mm	SW
155389	mi 40	17,0	27	6	48	4,9
121522	mi 40	17,0	27	8	48	6,2
121515	mi 40	38,0	28	9	48	7,0
121504	mi 40	38,0	29	10	48	8,0
121517	mi 40	38,0	30	12	48	9,0
155432	mi 50	16,5	27	6	58	4,9
172720	mi 50	16,5	27	7	58	5,5
155498	mi 50	16,5	27	8	58	6,2
155473	mi 50	16,5	28	9	58	7,0
155467	mi 50	16,5	29	10	58	8,0
155446	mi 50	16,5	30	12	58	9,0
121534	mi 50	44,0	33	16	58	12,0

Softsynchro Chuck (Licence Emuge)

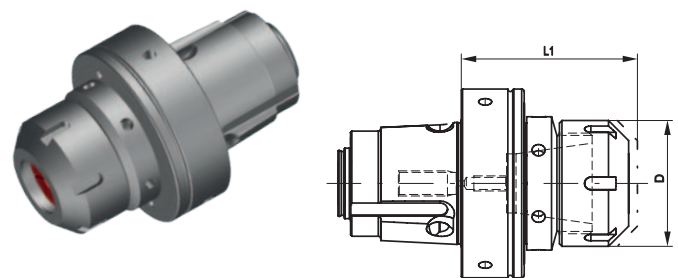
with internal coolant,
with push and pull length
compensation 0,5 mm



Order No.	Size	Collet	Thread	l1 mm	d mm	D mm
121503	mi 40	ER-GB 16	M4-M12	47,5	4,5-10	45
121530	mi 50	ER-GB 16	M4-M12	44,5	4,5-10	50

Chuck for GB Collets

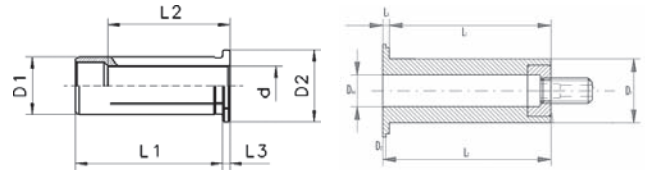
with internal coolant,
with push and pull length
compensation ±0,5 mm



Order No.	Size	Collet	L1 mm	D mm
121518	mi 40	ER 20 GB(1-13)	60	28
155488	mi 50	ER 25 GB(1-16)	60	42
155491	mi 63	ER 32 GB(2-20)	70	50

Accessory for Hydraulic Chucks

Sleeve



without horizontal adjustment

with horizontal adjustment

Order No.	D1 mm	d h6 mm / "	L1 mm	L2 mm	L3 mm	D2 mm
119790	12	3	40	29	4	16
119793	12	1/8"	40	29	4	16
119797	12	4	40	29	4	16
119798	12	3/16"	40	29	4	16
119819	12	5	40	29	4	16
119812	12	6	40	36	4	16
119813	12	1/4"	40	36	4	16
119791	12	7	40	37	4	16
119799	12	5/16"	40	37	4	16
119810	12	8	40	37	4	16
119792	12	9	40	37	4	16
119815	12	3/8"	40	40	4	16
119814	12	10	40	40	4	16
119816	20	3	50	28	4	25
119823	20	1/8"	50	28	4	25
119817	20	4	50	28	4	25
119837	20	3/16"	50	28	4	25
119800	20	5	50	28	4	25
119801	20	6	50	36	4	25
119822	20	1/4"	50	36	4	25
119818	20	7	50	38	4	25
119839	20	5/16"	50	37	4	25
119820	20	8	50	37	4	25
119802	20	9	50	38	4	25
119838	20	3/8"	50	38	4	25
119824	20	10	50	40	4	25
119825	20	11	50	40	4	25
119830	20	7/16"	50	45	4	25
119826	20	12	50	45	4	25
119821	20	1/2"	50	45	4	25
119827	20	14	50	45	4	25
119846	20	9/16"	50	45	4	25
119829	20	5/8"	50	48	4	25
119828	20	16	50	48	4	25
119847	25	3	56	29	4	30
119848	25	4	56	29	4	30
119831	25	5	56	29	4	30
119849	25	6	56	37	4	30
119832	25	7	56	37	4	30
119833	25	8	56	37	4	30
119834	25	9	56	38	4	30
119850	25	10	56	40	4	30
119835	25	12	56	46	4	30
119851	25	14	56	47	4	30
119836	25	16	56	48	4	30
119841	25	18	56	48	4	30
119842	25	20	56	50	4	30
119844	32	6	60	36	4	36

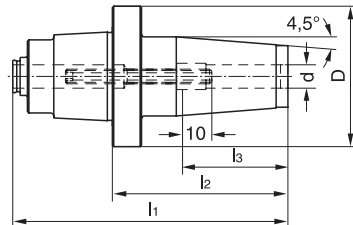
Order No.	D1 mm	d h6 mm / "	L1 mm	L2 mm	L3 mm	D2 mm
119857	32	1/4"	60	36	4	36
119845	32	7	60	37	4	36
119879	32	5/16"	60	36	4	36
119852	32	8	60	36	4	36
119855	32	9	60	37	4	36
119884	32	3/8"	60	37	4	36
119864	32	10	60	40	4	36
119853	32	11	60	40	4	36
119858	32	12	60	45	4	36
119856	32	1/2"	60	45	4	36
119859	32	13/16"	60	45	4	36
119865	32	14	60	46	4	36
119854	32	15/16"	60	46	4	36
119861	32	5/8"	60	46	4	36
119866	32	16	60	48	4	36
119870	32	18	60	49	4	36
119878	32	3/4"	60	50	4	36
119877	32	20	60	50	4	36
119867	32	25	60	56	4	36

with horizontal adjustment

119909	20	6	50	52	-	28
119889	20	8	50	52	-	28
152696	20	10	50	52	-	28
119910	20	12	50	52	-	28
119901	20	14	50	52	-	28
119911	20	16	50	52	-	28
119892	20	18	50	52	-	28
119893	25	10	56	59	-	32
119912	25	12	56	59	-	32
119894	25	14	56	59	-	32
119895	25	16	56	59	-	32
167144	25	18	56	59	-	32
167045	25	20	56	59	-	32

Shrink fit Chuck

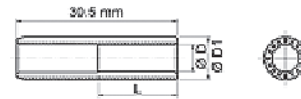
with internal coolant



Order No.	Size	l1 mm	l2 mm	l3 mm	d h6 mm	D mm
155381	mi 40	94	60	36	8	48
121482	mi 40	94	60	42	10	48
155334	mi 40	99	65	47	12	48
121501	mi 40	104	70	50	16	48
155421	mi 50	101	60	36	8	58
155409	mi 50	101	60	42	10	58
155444	mi 50	106	65	47	12	58
155438	mi 50	106	65	47	14	58
155430	mi 50	111	70	50	16	58
155431	mi 50	116	75	50	18	58
155454	mi 50	116	75	52	20	58

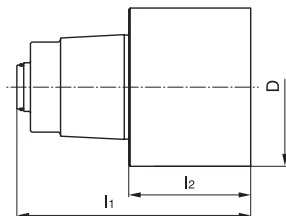
Accessory for Shrink fit Chucks

Sleeve



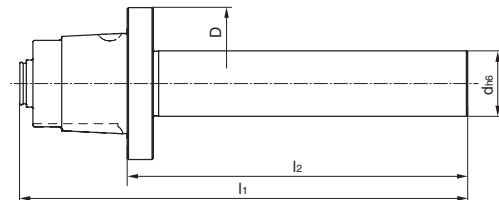
Order No.	L mm	L1 mm	d h6 mm	D mm
119807	30,5	7,5	2,5	8
119787	30,5	9,0	3,0	8
119808	30,5	10,5	3,5	8
119809	30,5	12,0	4,0	8
119788	30,5	13,5	4,5	8
119789	30,5	15,0	5,0	8
119796	30,5	16,5	5,5	8

Blank



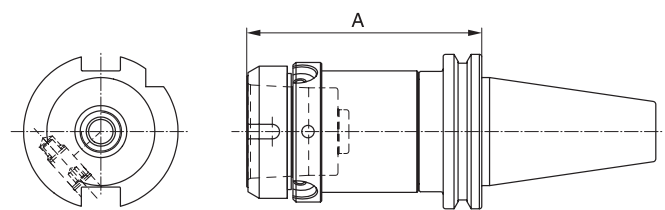
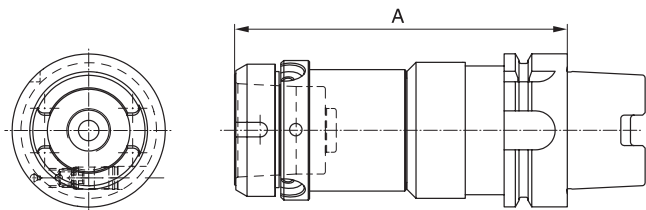
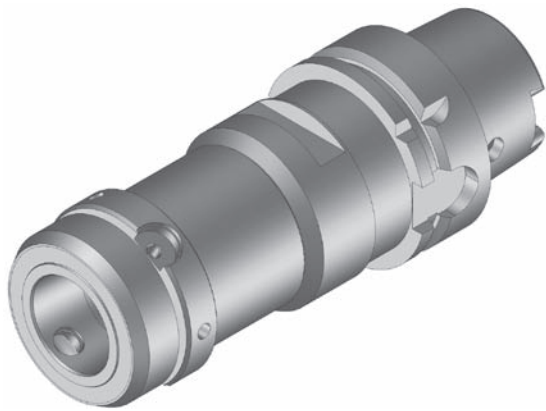
Order No.	Size	l1 mm	l2 mm	D mm
121457	mi 32	76,5	50	42
166791	mi 40	94,0	60	48
166789	mi 50	111,0	70	58
121557	mi 63	129,0	80	75

Test Mandrel



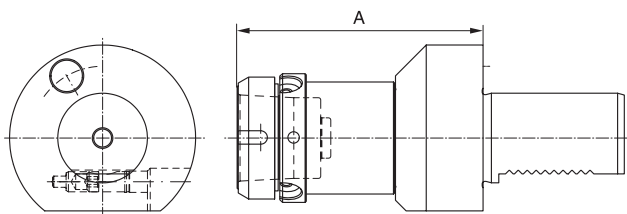
Order No.	Size	l1 mm	l2 mm	d h6 mm	D mm
170569	mi 25		110		14
172991	mi 32		110		18
156208	mi 40		130		20
156082	mi 50		130		25
172992	mi 63		150		32

Tool Presetting Unit



Order No.	Size	HSK	A mm
171098	mi 25	63	130
155352	mi 32	63	130
155380	mi 40	63	134,5
173224	mi 40	100	143
155429	mi 50	63	136,9
168301	mi 50	100	143
166990	mi 63	63	147
169267	mi 63	100	155

Order No.	Size	SK	A mm
121471	mi 40	40	95
121491	mi 40	50	128
155405	mi 50	40	97
121527	mi 50	50	140
155504	mi 63	50	140



Order No.	Size	VDI	A mm
155368	mi 40	40	108
155356	mi 50	40	110
155372	mi 40	50	108
121524	mi 50	50	110

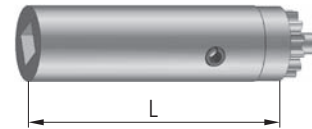
Accessories for mi-system

Complete Wrench for One-hand Operation



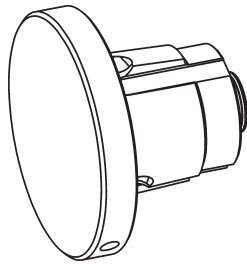
Order No.	Size
170734	mi 25, mi 32, mi 40
170419	mi 50, mi 63

Socket Wrench for Torque Wrench



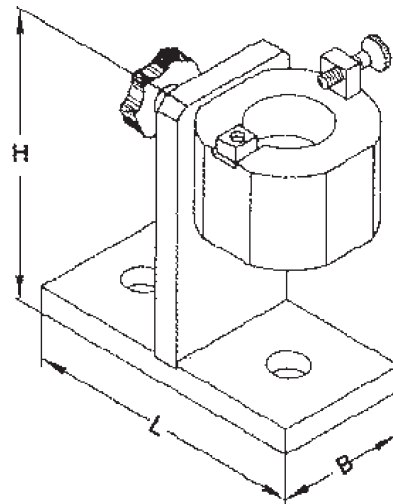
Order No.	Size	L mm	Wrench size
173988	mi 25, mi 32, mi 40	50	1/4"
173985	mi 50, mi 63	50	1/4"

Protection Plug



Order No.	Size
174460	mi 32
174458	mi 40
174457	mi 50
174459	mi 63

Assembling Jig



Order No.	Size	L mm	B mm	H mm
166774	SK 40	130	64	136
166775	HSK 63	130	64	136
121571	VDI 40	130	64	136

mimatic mi – An Epitome of BlueCompetence

BLUECOMPETENCE

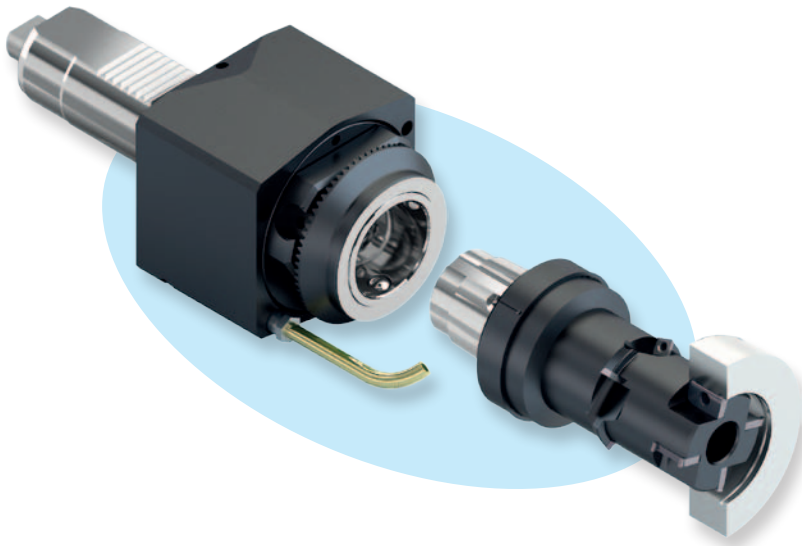
Alliance Member

Partner of the Engineering Industry Sustainability Initiative

mimatic® Tool Systems for Sustainability and Efficiency

Tools according to the policy of BLUECOMPETENCE are marked in this catalogue. More information on the program (Initiative) of the VDMA see pages 16-17.

mi – The Integrated Tool Solution = Driven Tool Holder + mi Interface + mi Tool



Advantages

mi – Interface, Driven Tool Sided

- short taper + planar arrangement
- shorter construction
- convenient single-hand operation
- symmetrical 3-point intake

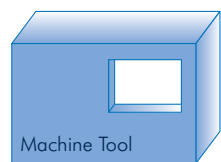
mi – Fast Change

- in the machine
- minimal tool changing time
- no pre-adjustment necessary

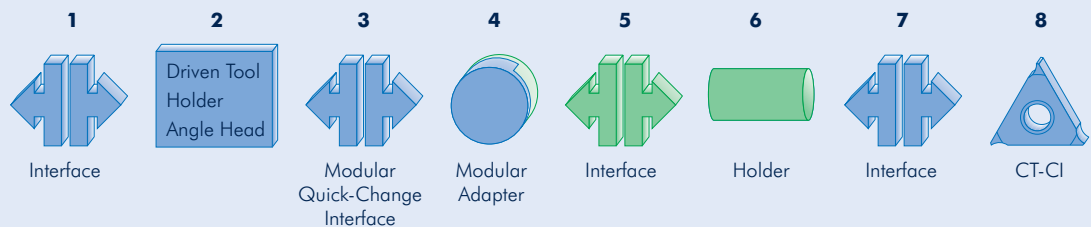
mi – Chipping Tool

- compact – one-piece design
- milling, counterboring, planing, chamfering
- shells, shaft, ...

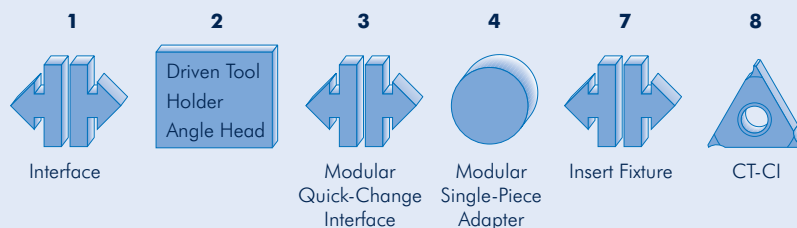
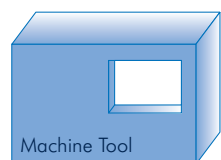
BlueCompetence – Implemented with mimatic mi



Old = Industrial Standard



New = mimatic Innovation



mi System Solutions for Special Production Assignments

Driven tool holders with mi quick-change interface must be adapted to the machining task in your dimensioning, and/or take this task into account:

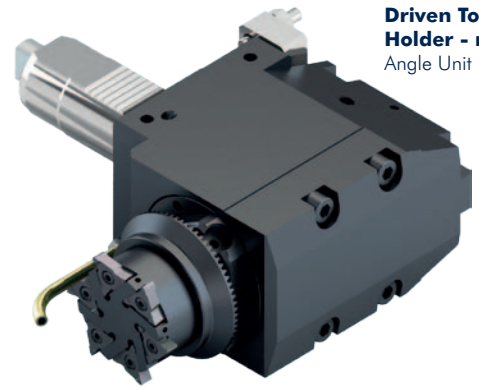
- as regards the cutting forces and/or torque occurring and
- as regards the precision required » rigidity of the system

It is thus necessary to describe the planned machining processes as exactly as possible, so that the optimal technical and economic suggestion can be worked out. Because then it is ensured that the requirements for precision, efficiency and sustainability are fulfilled.

Driven Tool Holder - mi
Straight Unit

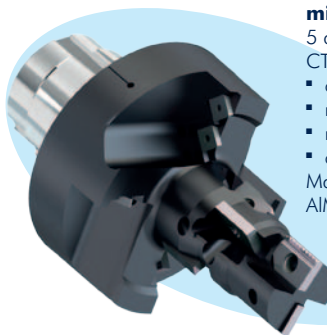


Driven Tool Holder - mi
Angle Unit



mi - Milling Tool

- 5 different CT plates
- chamfering
- milling threads
- milling planes
- counterboring
- Material: AlMgSi1 (DIN 3.2315)



mi - Cutting Tool

- jiggering
- chamfering
- Materials: 1. 20MnVS6 2. X15 CrNiSi20 (DIN 1.4828)



mi - Cutting Tool

- twist drill
- jiggering
- planing
- Material: Al-Si7Mg



mi - Cutting Tool

- drilling
- planing
- VHM twist drill
- chamfering



mi - Milling Tool

- groove milling
- Material: steel



mi - Milling Tool

- groove milling
- Material: steel



mi - Milling Tool

- contour milling
- Material: 16MnCrS5



mi - Counterboring Tool

- (jiggering)
- preturning
- finish-turning
- planing
- chamfering
- Material: Al-Si7Mg



mi - Milling Tool

- groove milling
- Material: steel



mi - Milling Tool

- groove milling
- Material: steel



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VDI Toolholders

Our toolholders for CNC lathes feature cylindrical shanks acc. to DIN 69880/VDI 3425. They are made from case hardened steel, the hardness of the wearing surfaces is 58 ± 2 HRC.

All functional surfaces are ground and browned. The tooling on the shank is ground.

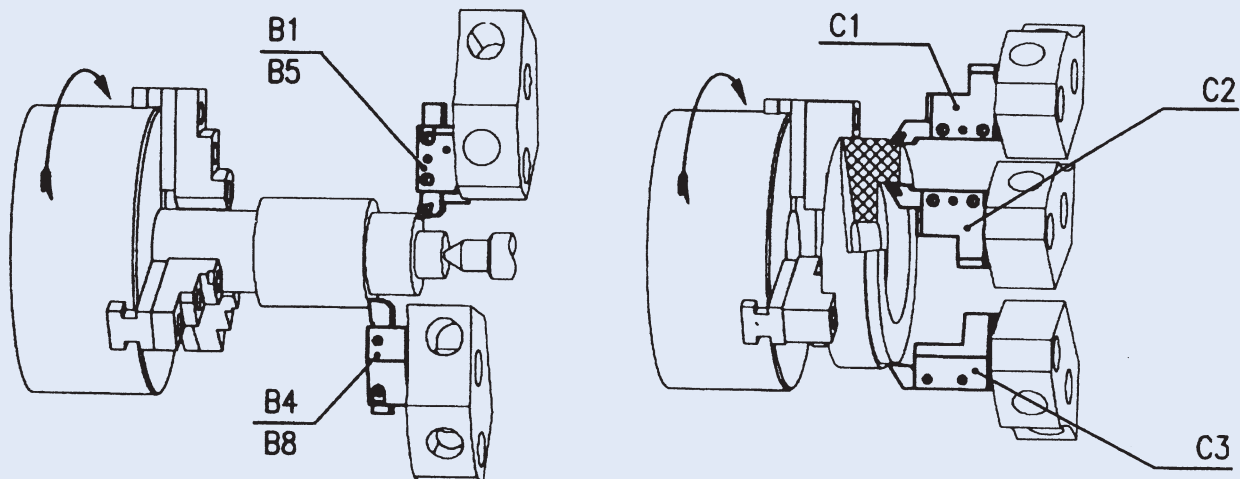
As far as technically possible, all tool holders are provided with internal coolant supply and adjustable ball-type nozzles.

They are fitted with a spring-loaded pressure plate.

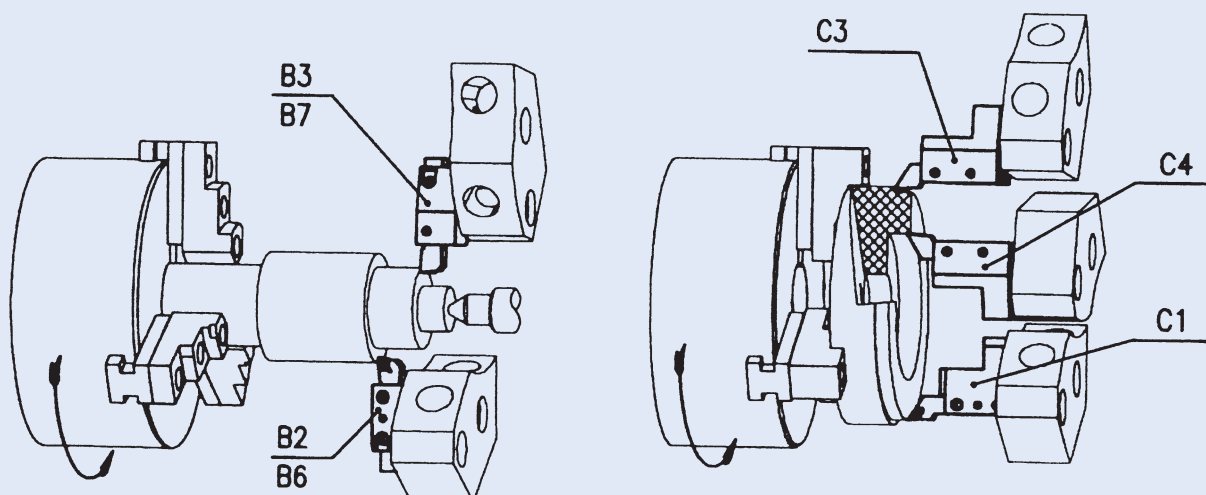
Further designs on request.



Operation with Toolholders in Anti-clockwise Rotation

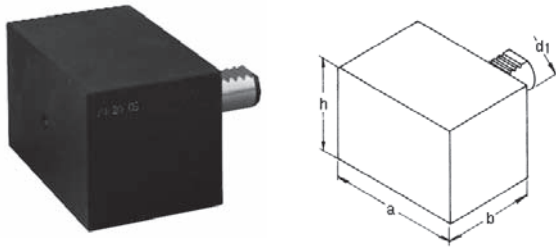


Operation with Toolholders in Clockwise Rotation



VDI Toolholders

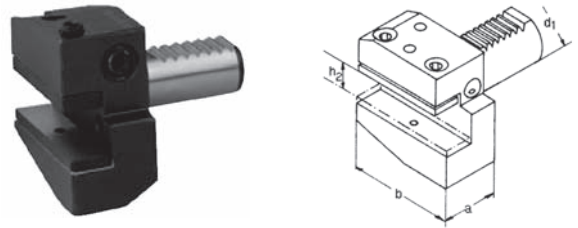
Blanks



A1 rectangular

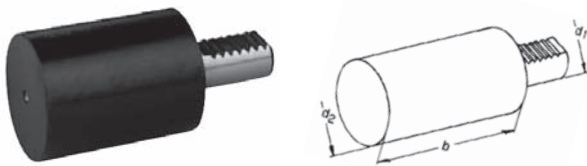
Order No.	d1 mm	a mm	h mm	b mm
105111	16	78	44	44
105163	20	100	60	65
105136	30	130	76	85
105154	40	151	96	100
105143	50	160	120	125
105171	60	165	125	160

Radial Toolholders



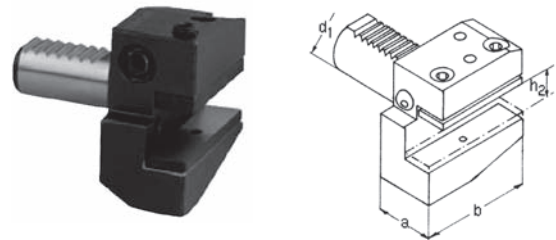
B1 right-hand, short

Order No.	d1 mm	h2 mm	a mm	b mm
104930	16	12/10	24	42
104900	20	16/12	30	55
104938	30	20/16	40	70
104939	40	25/20	44	85
104908	50	32/25	55	100
104909	60	32/25	60	125



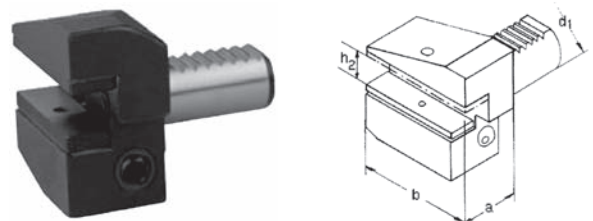
A2 round

Order No.	d1 mm	d2 mm	b mm
105161	16	40	60
105135	20	50	70
105092	30	68	100
105169	30	68	240
105137	40	83	120
105156	40	83	320
105157	50	98	135
105093	50	98	400
105170	60	123	150
105177	60	123	480



B2 left-hand, short

Order No.	d1 mm	h2 mm	a mm	b mm
104981	16	12/10	24	42
104958	20	16/12	30	55
104960	30	20/16	40	70
104988	40	25/20	44	85
104965	50	32/25	55	100
105025	60	32/25	60	125

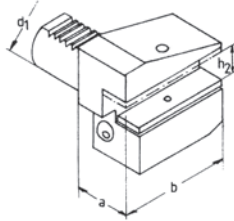


B3 overhead, right-hand, short

Order No.	d1 mm	h2 mm	a mm	b mm
104910	16	12/10	24	42
104904	20	16/12	30	55
104924	30	20/16	40	70
104949	40	25/20	44	85
104943	50	32/25	55	100
104970	60	32/25	60	125

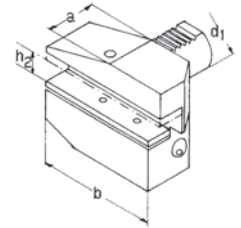
VDI Toolholders

Radial Toolholders



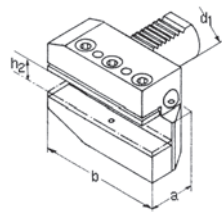
B4 overhead, left-hand, short

Order No.	d1 mm	h2 mm	a mm	b mm
104912	16	12/10	24	42
104927	20	16/12	30	55
104964	30	20/16	40	70
104956	40	25/20	44	85
104973	50	32/25	55	100
104935	60	32/25	60	125



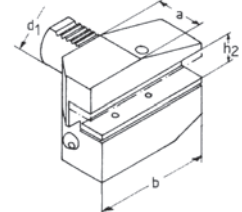
B7 overhead, right-hand, long

Order No.	d1 mm	h2 mm	a mm	b mm
104001	16	12/10	24	58
104025	20	16/12	30	75
104042	30	20/16	40	100
103985	40	25/20	44	118
104033	50	32/25	55	130
104008	60	32/25	60	145



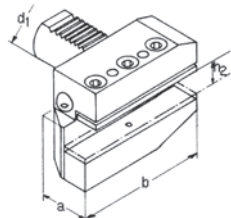
B5 right-hand, long

Order No.	d1 mm	h2 mm	a mm	b mm
104024	16	12/10	24	58
104032	20	16/12	30	75
103983	30	20/16	40	100
104007	40	25/20	44	118
103994	50	32/25	55	130
104050	60	32/25	60	145



B8 overhead, left-hand, long

Order No.	d1 mm	h2 mm	a mm	b mm
104060	16	12/10	24	58
103986	20	16/12	30	75
104061	30	20/16	40	100
104062	40	25/20	44	118
104034	50	32/25	55	130
104054	60	32/25	60	145

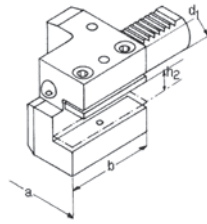


B6 left-hand, long

Order No.	d1 mm	h2 mm	a mm	b mm
104036	16	12/10	24	58
104003	20	16/12	30	75
104009	30	20/16	40	100
104043	40	25/20	44	118
104063	50	32/25	55	130
104077	60	32/25	60	145

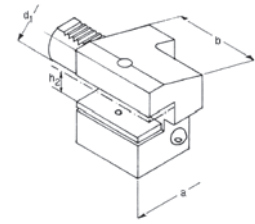
VDI Toolholders

Axial Toolholders



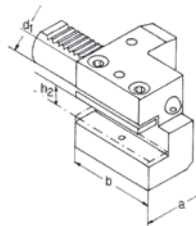
C1 right-hand

Order No.	d1 mm	h2 mm	b mm	a mm
103999	16	12/10	44	43
103928	20	16/12	50	52
103971	30	20/16	70	76
103992	40	25/20	85	85
103993	50	32/25	100	100
103982	60	32/25	125	125



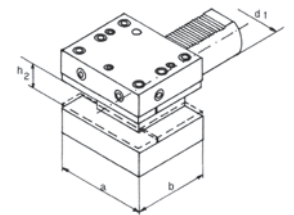
C4 overhead, left-hand

Order No.	d1 mm	h2 mm	b mm	a mm
104613	16	12/10	44	43
104569	20	16/12	50	52
104605	30	20/16	70	76
104606	40	25/20	85	85
104644	50	32/25	100	100
104570	60	32/25	125	125



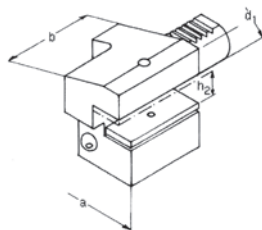
C2 left-hand

Order No.	d1 mm	h2 mm	b mm	a mm
104651	16	12/10	44	43
104715	20	16/12	50	52
104761	30	20/16	70	76
104661	40	25/20	85	85
104669	50	32/25	100	100
104753	60	32/25	125	125



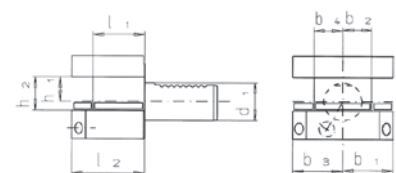
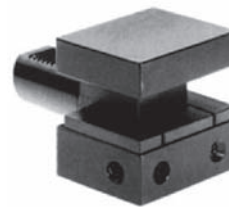
D1 Axial multiple Toolholder

Order No.	d1 mm	h2 mm	b mm	a mm
104064	30	20/16	60	76
104069	40	25/20	72	90
104056	50	32/25	85	105



C3 overhead, right-hand

Order No.	d1 mm	h2 mm	b mm	a mm
104184	16	12/10	44	43
104199	20	16/12	50	52
104209	30	20/16	70	76
104240	40	25/20	85	85
104201	50	32/25	100	100
104211	60	32/25	125	125

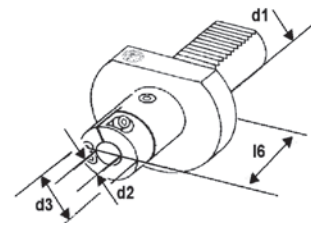
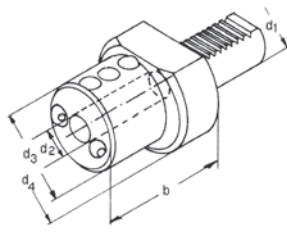


D2 Axial multiple Toolholder, overhead

Order No.	d1 mm	h2 mm	a mm	b mm
104086	30	20/16	60	76
104087	40	25/20	72	90
104013	50	32/25	85	105

VDI Toolholders

Boring Bar Holder



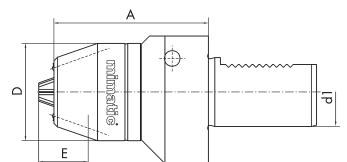
E2

Order No.	d1 mm	d2 mm	d4 mm	b mm
104139	16	6	40	44
104084	16	8	40	44
104085	16	10	40	44
104125	16	12	40	44
104149	16	16	40	44
104158	20	8	50	50
104126	20	10	50	50
104115	20	12	50	50
104159	20	16	50	50
104167	20	20	50	50
104150	20	25	50	60
104142	30	8	68	60
104195	30	10	68	60
104108	30	12	68	60
104130	30	16	68	60
104186	30	20	68	60
104178	30	25	68	60
104179	30	32	68	75
104153	40	8	83	75
104187	40	10	83	75
104109	40	12	83	75
104110	40	16	83	75
104155	40	20	83	75
104145	40	25	83	75
104119	40	32	83	75
104189	40	40	83	90
104168	50	12	98	90
104206	50	16	98	90
104182	50	20	98	90
104148	50	25	98	90
104207	50	32	98	90
104198	50	40	98	90
104157	50	50	98	100
104221	60	12	123	90
104192	60	16	123	90
104169	60	20	123	90
104164	60	25	123	90
104222	60	32	123	90
104165	60	40	123	90
104166	60	50	123	100

E2S slotted

Order No.	d1 mm	d2 mm	d3 mm	l6 mm
104194	30	6	30	57
104129	30	8	30	57
104107	30	10	36	57
104143	30	12	36	57
104203	30	16	40	57
104160	30	20	44	57
104204	30	25	49	72
104196	30	32	56	72
104144	40	10	36	62
104188	40	12	36	62
104111	40	16	40	62
104181	40	20	44	62
104118	40	25	49	77
104146	40	32	56	77
104163	40	40	64	77

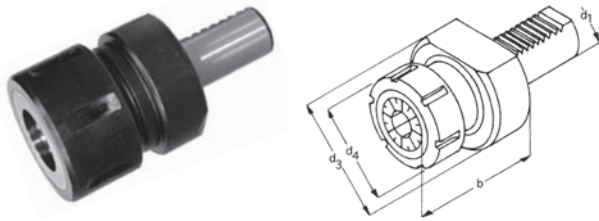
Universal Chuck



Order No.	d1 mm	Range	A mm	D mm	E mm
131983	20	0,5-10	40	48,5	27
132019	30	0,5-13	90	56,5	29
132046	30	3,0-16	90	56,5	29
132006	40	0,5-13	90	56,5	29
132047	40	3,0-16	90	56,5	29
132033	50	0,5-13	90	56,5	29
132039	50	3,0-16	90	56,5	29

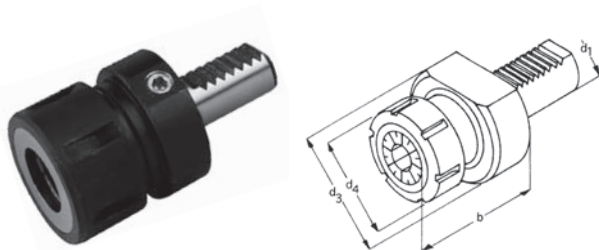
VDI Toolholders

Collet Chuck



OZ E3 DIN 6388

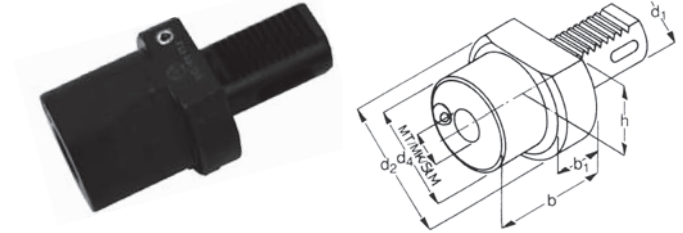
Order No.	d1 mm	Range	OZ	d3 mm	b mm
104653	16	1,5-16	415 E	40	65
104662	20	1,5-16	415 E	50	57
	20	2,0-20			62
104579	30	1,5-25	462 E	68	75
104655	40	1,5-25	462 E	83	75
104673	40	3,5-32	467 E	83	90
104631	50	1,5-25	462 E	98	75
104656	50	3,5-32	467 E	98	90
104642	60	3,5-32	467 E	123	90



ER E4 DIN 6499

Order No.	d1 mm	Range	ER	d3 mm	b mm
104614	16	0,5-10	ER 16	40	40
	16		ER 20		44
104576	20	0,5-10	ER 16	50	40
104628	20	0,5-16	ER 25	50	54
104571	30	0,5-16	ER 25	68	57
104629	30	1,0-20	ER 32	68	74
104645	30	2,0-30	ER 40	68	74
104646	40	0,5-16	ER 25	83	70
104615	40	1,0-20	ER 32	83	84
104594	40	2,0-30	ER 40	83	75
104616	50	2,0-30	ER 40	98	90
104619	60	2,0-30	ER 40	123	75

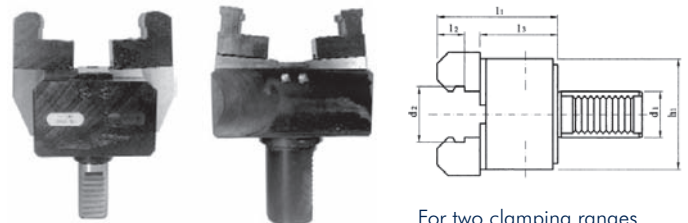
Morse Taper Holder



F

Order No.	d1 mm	MK	h mm	d2 mm	b mm
104347	20	1	23,0	50	22
	20	2			90
104265	30	1	28,0	68	27
104297	30	2	28,0	68	36
104350	30	3	28,0	68	66
104352	40	2	32,5	83	36
104307	40	3	32,5	83	50
104299	40	4	32,5	83	80
104319	50	2	35,0	98	36
104383	50	3	35,0	98	45
104332	50	4	35,0	98	55
104328	50	5	35,0	98	68
104335	60	3	42,5	123	36
104393	60	4	42,5	123	50
104394	60	5	42,5	123	81

Bar Puller



For two clamping ranges with reverse jaws

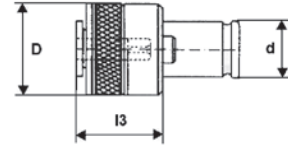
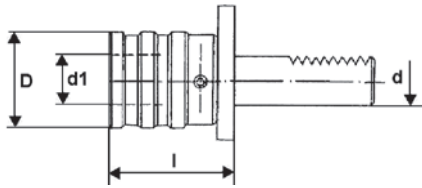
KH

Order No.	d1 mm	Range #1	Range #2	b1 mm	h1 mm	l1 mm	l2 mm	l3 mm
104733	16	6-56						
104757	20	6-45	45-100	50	72	46	4	51
104806	30	6-56	54-100	50	72	46	4	51
104798	40*	6-60	54-110	60	110	48	4	53
104789	50	6-75	62-110	65	130	67	5	73

* With reversible clamping jaws

VDI Toolholders

Quick Change Tapping Chucks



With length compensation on traction and pressure

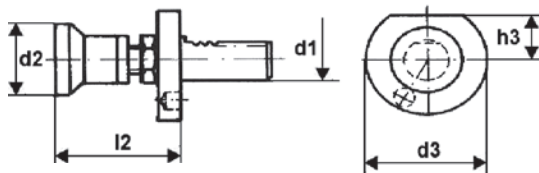
Order No.	d mm	Size	D mm	d1 mm	l mm
104815	20	SES 1	36	19	52,2
104800	30	SES 1	38	19	55,0
104739	30	SES 2	54	31	77,0
104758	40	SES 1	38	19	55,0
104780	40	SES 2	54	31	77,0
104807	40	SES 3	78	48	122,0
104759	50	SES 1	36	19	52,2
104781	50	SES 2	53	31	76,0
104740	50	SES 3	78	48	108,0
104801	50	SES 4	96	60	122,0
104802	60	SES 4	96	60	119,0

Quick change insert with safety coupling

Order No.	Range	Size	d mm	D mm	l3 mm
104819	M10	SES 1	19	32,6	25
12.4605Mxx	M8 -M20	SES 2	31	50,5	31
12.4606Mxx	M14-M33	SES 3	48	72,0	45
12.4608Mxx	M22-M48	SES 4	60	95,0	68

Please specify the thread or the dimension of the tap. Represents new order numbers from 104767 to 104860.

Material Stop



MW travelling, adjustable

Order No.	d1 mm	d2 mm	d3 mm	l2 mm	h3 mm
104308	20	26	50	50-70	23,0
104341	20	32	50	50-70	23,0
104377	20	42	50	50-70	23,0
104326	30	32	68	62-95	28,0
104309	30	42	68	62-95	28,0
104358	30	58	68	62-95	28,0
104334	40	32	83	62-95	32,5
104283	40	42	83	62-95	32,5
104301	40	58	83	62-95	32,5

Protection Plug



Z2 Steel/Plastic

Order No.	d1 mm	Material	D mm	l mm
104611	16	steel	40	13
104561	16	plastic	40	13
104567	20	steel	50	16
104601	20	plastic	50	16
104602	30	steel	68	16
104532	30	plastic	68	16
104603	40	steel	83	20
104612	40	plastic	83	20
104562	50	steel	98	20
104575	50	plastic	98	20
104604	60	steel	123	20
104635	60	plastic	123	20

Accessories

Wrenches and Clamping Nuts



Wrench for ER Clamping Nuts

Order No.	Size	Type
112912	ER 11	inlying
112954	ER 16	inlying
112929	ER 20	inlying
112913	ER 25	inlying
112900	ER 32	inlying
112867	ER 40	inlying
107628	ER 40	outlying

ER Clamping Nuts

Order No.	Size	Type	Internal coolant
112953	ER 11	inlying	
112860	ER 16	inlying	
112938	ER 20	inlying	
112961	ER 25	inlying	
112977	ER 32	inlying	
112946	ER 40	inlying	
112962	ER 16	inlying	✓
112940	ER 20	inlying	✓
112901	ER 25	inlying	✓
112963	ER 32	inlying	✓
112978	ER 40	inlying	✓
112513	ER 40	outlying	
117744	ER 40	outlying	✓

Hook wrench to hold against

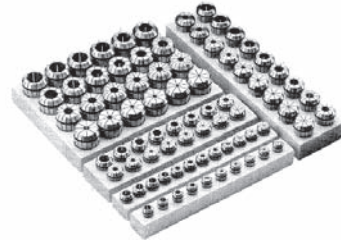
DIN 1810 A



DIN 1810 B



Collet Sets



DIN 6499-B, Class 2

Order No.	Pieces	Size	Range
152712	10	ER 16	1-10
120174	12	ER 20	2-13
152713	15	ER 25	2-16
152715	18	ER 32	3-20
152716	23	ER 40	4-26

DIN 6499-B, (6 µm)

Order No.	Pieces	Size	Range
120131	10	ER 16	1-10
120154	12	ER 20	2-13
120349	15	ER 25	2-16
120612	18	ER 32	3-20
120730	23	ER 40	4-26

Threading Collets Type ET with length compensation

Order No.	ET	Pieces	Size	Range
152717	16	9	2,5-6	M1-M8
152718	25	8	2,8-9	M2-M12
120847	32	8	4,5-12	M4-M16
120827	40	9	6,0-16	M4-M22

Order No.	Size	Type	DIN
107557	ER 16	inlying	1810-B
107608	ER 20	inlying	1810-B
107446	ER 25	inlying	1810-B
107558	ER 25	outlying	1810-A
107642	ER 32	inlying	1810-B
107607	ER 32	outlying	1810-B
107566	ER 40	inlying	1810-B
107446	ER 40	outlying	1810-A
107605		Sawblade holder	1810-A
107447		Milling arbor 22	1810-B

Accessories

ER Seal Disc

Order No.	Size	Tightness range (mm)
172713	ER 16	3,0-2,5
173372		4,0-3,5
163515		5,0-4,5
112891		6,0-5,5
163516		7,0-6,5
112897		8,0-7,5
163517		9,0-8,5
172458		10,0-9,5
163519		3,0-2,5
163518		4,0-3,5
163520	5,0-4,5	
112744	6,0-5,5	
112855	7,0-6,5	
112865	8,0-7,5	
163521	9,0-8,5	
112844	10,0-9,5	
163522	11,0-10,5	
112892	12,0-11,5	
112863	ER 20	3,0-2,5
112833		4,0-3,5
112753		5,0-4,5
112871		6,0-5,5
112839		7,0-6,5
112817		8,0-7,5
112890		9,0-8,5
112811		10,0-9,5
112752		11,0-10,5
112861		12,0-11,5
112870	13,0-12,5	
112798	14,0-13,5	
112862	15,0-14,5	
112837	16,0-15,5	
112704	ER 25	3,0-2,5
112705		4,0-3,5
112726		5,0-4,5
112831		6,0-5,5
112832		7,0-6,5
112834		8,0-7,5
112835		9,0-8,5
112725		10,0-9,5
112779		11,0-10,5
112733		12,0-11,5
112804	13,0-12,5	
112827	14,0-13,5	
112688	15,0-14,5	
112806	16,0-15,5	
112809	17,0-16,5	
112769	18,0-17,5	
112797	19,0-18,5	
112829	20,0-19,5	
	ER 32	

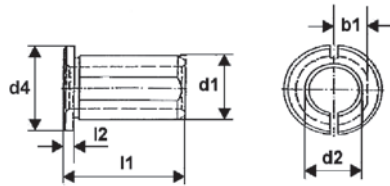
Order No.	Size	Tightness range (mm)
112910	ER 40	3,0-2,5
112951		4,0-3,5
112884		5,0-4,5
112959		6,0-5,5
112846		7,0-6,5
112911		8,0-7,5
112952		9,0-8,5
112821		10,0-9,5
112916		11,0-10,5
112924		12,0-11,5
112894	13,0-12,5	
112881	14,0-13,5	
112942	15,0-14,5	
112822	16,0-15,5	
112770	17,0-16,5	
112762	18,0-17,5	
112882	19,0-18,5	
112845	20,0-19,5	
112823	21,0-20,5	
112934	22,0-21,5	
112944	23,0-22,5	
112858	24,0-23,5	
112771	25,0-24,5	
112824	26,0-25,5	

Set of Seal Disc

Order No.	Size	Piece	Tightness range (mm)	Grading
167490	ER 16	14	3,0-10	0,5
112907	ER 20	20	3,0-13	0,5
112735	ER 25	26	3,0-16	0,5
112715	ER 32	34	3,0-20	0,5
166918	ER 40	46	3,5-26	0,5

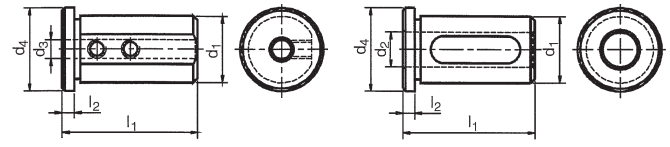
Accessories for Toolholder VDI 3425

Reducing Sleeve, Slotted



Order No.	d1 mm	d2 mm	d4 mm	l1 mm	l2 mm
104510	20	6	24	30	4
104492	20	8	24	30	4
104481	20	10	24	30	4
104461	20	12	24	30	4
104462	20	14	24	30	4
104501	20	15	24	30	4
104451	20	16	24	30	4
104418	25	6	29	40	4
104536	25	8	29	40	4
104493	25	10	29	40	4
104484	25	12	29	40	4
104504	25	14	29	40	4
104463	25	15	29	40	4
104545	25	16	29	40	4
104485	25	18	29	40	4
104511	25	20	29	40	4
104453	32	8	36	50	4
104529	32	10	36	50	4
104486	32	12	36	50	4
104563	32	14	36	50	4
104497	32	15	36	50	4
104547	32	16	36	50	4
104488	32	18	36	50	4
104498	32	20	36	50	4
104543	32	25	36	50	4
104508	40	10	44	78	4
104565	40	12	44	78	4
104550	40	14	44	78	4
104523	40	15	44	78	4
104582	40	16	44	78	4
104524	40	18	44	78	4
104591	40	20	44	78	4
104584	40	25	44	78	4
104608	40	32	44	78	4

Reducing Sleeve



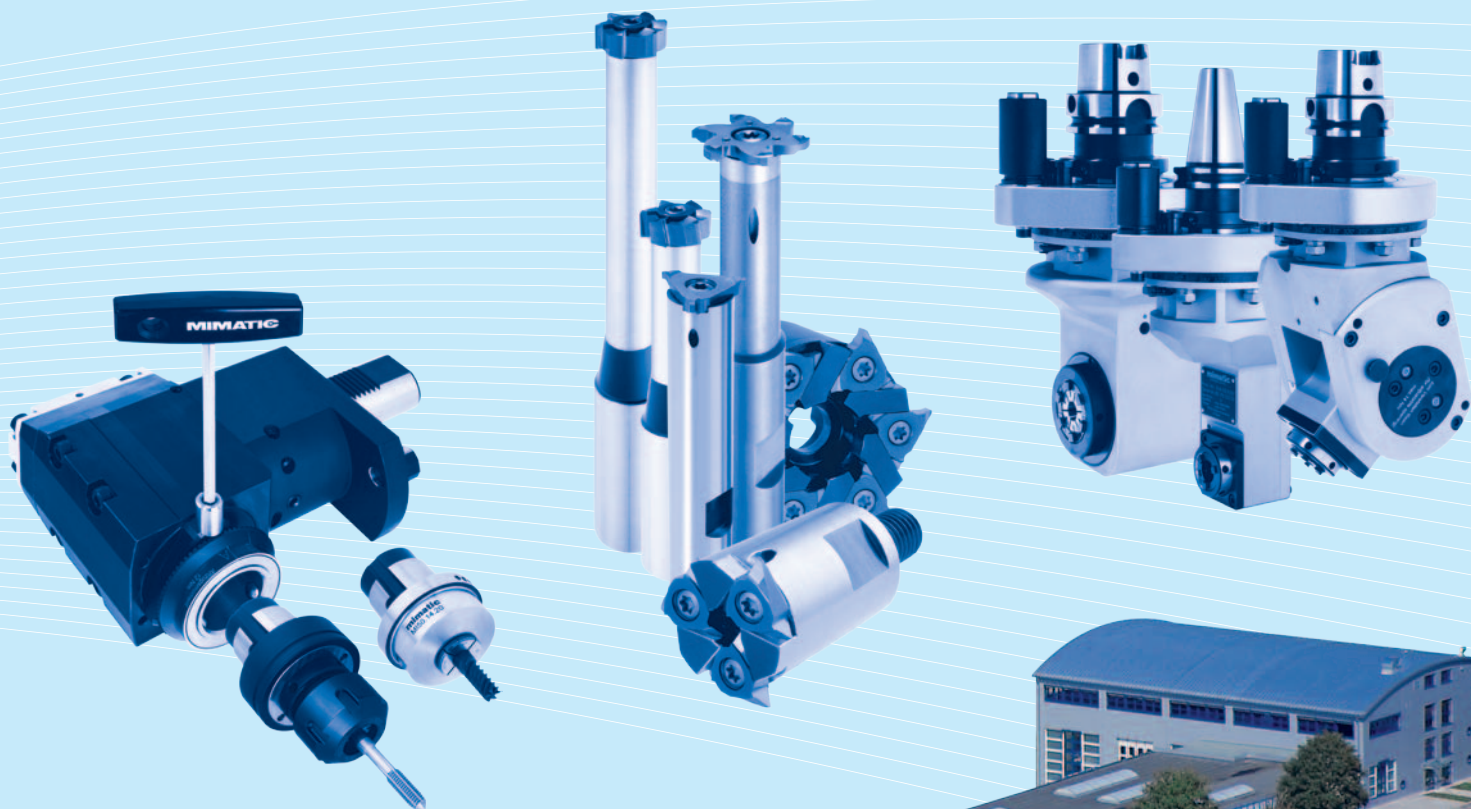
Pict. 1

Pict. 2

Order No.	Pict.	d1 mm	d2 mm	d3 mm	d4 mm	l1 mm	l2 mm
104527	1	25		6	29	50	4
104444	1	25		8	29	50	4
104445	1	25		10	29	50	4
104494	1	25		12	29	50	4
104537	2	25	16		29	50	4
104469	2	25	20		29	50	4
104528	1	32		6	36	58	5
104519	1	32		8	36	58	5
104454	1	32		10	36	58	5
104487	1	32		12	36	58	5
104548	2	32	16		36	58	5
104489	2	32	20		36	58	5
104522	2	32	25		36	58	5
104513	1	40		6	44	58	5
104507	1	40		8	44	58	5
104549	1	40		10	44	58	5
104531	1	40		12	44	58	5
104514	2	40	16		44	58	5
104555	2	40	20		44	58	5
104551	2	40	25		44	58	5
104609	2	40	32		44	58	5
168951	1	50		6	54	75	5
104585	1	50		8	54	75	5
104552	1	50		10	54	75	5
104558	1	50		12	54	75	5
104525	2	50	16		54	75	5
104586	2	50	20		54	75	5
104587	2	50	25		54	75	5
104588	2	50	32		54	75	5
104559	2	50	40		54	75	5

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