EMAG BMT 55-100

Live Tools & Static Holders

Tooling & Machine Tooling Technology

Metal machining







AT BENZ GMBH WERKZEUGSYSTEME, OUR MAXIM, INNOVATION, PRECISION, PASSION, IS FAR MORE THAN JUST A MARKETING FORMULA. RATHER, IT DESCRIBES THE CORE GOALS OF OUR BUSINESS WHILE ALSO OUTLINING THE REASONS WHY WE HAVE BEEN ABLE TO COMPETE IN THE MARKET SUCCESSFULLY WITH TOOL SYSTEMS FOR WOODWORKING, METAL MACHINING AND COMPOSITE MATERIAL PROCESSING FOR MORE THAN 30 YEARS.

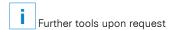
INNOVATIONS ARE IMPORTANT TO US. BUT WE ALSO RECOGNIZE THAT THEY CAN BE SUCCESSFUL ONLY IF THEY PRECISELY MEET THE NEEDS OF OUR CUSTOMERS. THIS IS WHY WE HAVE MAINTAINED A STRICT FOCUS ON OUR CUSTOMERS FOR MANY YEARS. WE ENSURE THAT OUR DEVELOPMENTS AND INNOVATIONS SIMPLIFY YOUR PRODUCTION PROCESSES AND LOWER YOUR MANUFACTURING COSTS - AND ULTIMATELY IMPROVE YOUR COMPETITIVENESS AS A RESULT.



BENZ TOOLING TECHNOLOGY FOR EMAG LATHES BMT 55-100

BENZ STANDARD PRODUCT RANGE - FITS FOR:

MACHINES						SW	AL	TYPE
EMAG VL	3	4	5	7		360	100	STD
	3 DUO	5 DUO						
	5i							
EMAG VSC	200	250				360	100	STD





More information about our BENZ products and accessories can be found at the download area of our website.

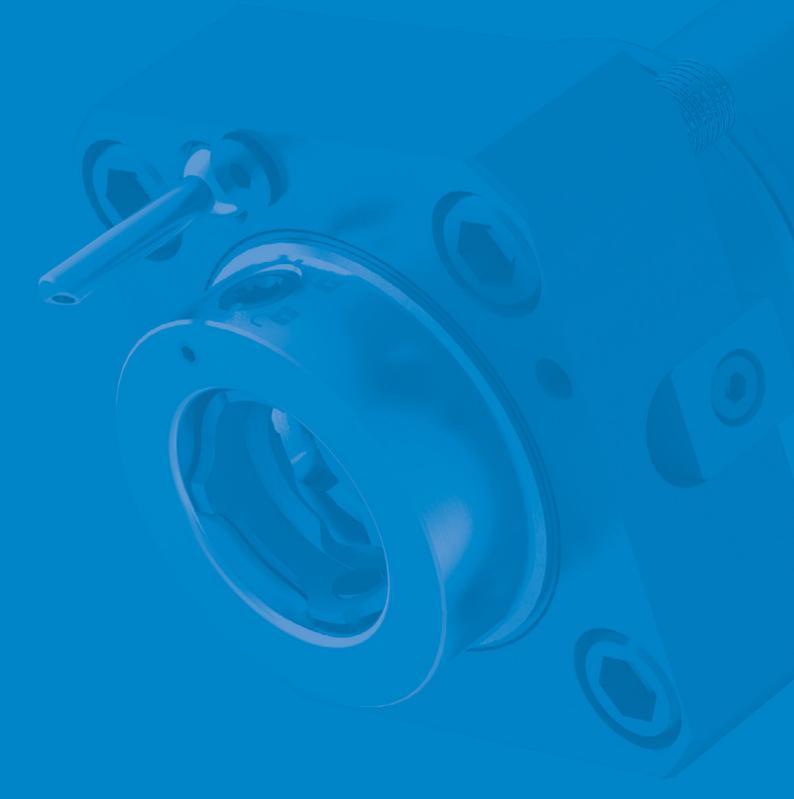
https://www.benztooling.com/en/services/downloads





BMT 55-100

Live Tools | Static Holders



LIVE TOOLS



STATIC HOLDERS



AXIAL

TECHNICAL DATA

















OUTPUT SPINDLES







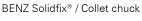
Collet chuck System ER DIN 6499



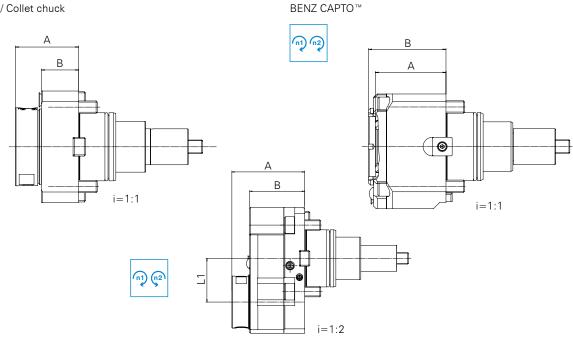
BENZ CAPTO™



Other output spindles available upon request







	Technical	Data								
	Size	i	EC	$IC p_{max}$	$n_{1 max} / n_{2 max}$	$M_{1 \text{ max}} / M_{2 \text{ max}}$	A_{max}	В	L1	
Output spindle	Spindle			[bar]	[min ⁻¹]	[Nm]	[mm]	[mm]	[mm]	Order No.
	S4	1:1	✓	-	6000 / 6000	50 / 50	51	30	0	113DA09400S4
DENZ C-1:-IE:®	S4	1:1	\checkmark	70	6000 / 6000	50 / 50	51	30	0	113EA09400S4
BENZ Solidfix®	S3	1:2	\checkmark	-	6000 / 12000	30 / 15	70	53	42	113DI09494S3D
	S3	1:2	\checkmark	100	6000 / 12000	30 / 15	77	60	42	113EI09494S3D
	ER32	1:1	✓	-	6000 / 6000	50 / 50	55,1	30	0	113DA09400E6A
C	ER32	1:1	\checkmark	70	6000 / 6000	50 / 50	60,2	30	0	113EA09400E6A
Spannzange	ER25	1:2	\checkmark	-	6000 / 12000	30 / 15	71,9	53	42	113DI09494E5AD
	ER25	1:2	\checkmark	100	6000 / 12000	30 / 15	83,9	60	42	113EI09494E5AD
DENZ CARTO™	C4	1:1	✓	-	6000 / 6000	50 / 50	57	62,5	0	113DA09400L4BD
BENZ CAPTO™	C4	1:1	\checkmark	70	6000 / 6000	50 / 50	57	62,5	0	113EA09400L4BD

RADIAL

TECHNICAL DATA







OUTPUT SPINDLES







System ER CAPTO™
DIN 6499



Other output spindles available upon request







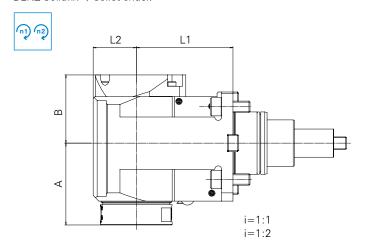




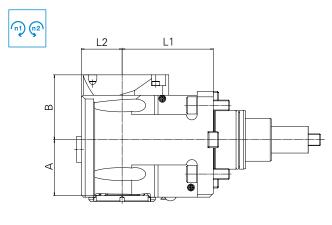




BENZ Solidfix® / Collet chuck



BENZ CAPTO™



	Technical	Data									
	Size	i	EC	IC p _{max}	$n_{1 max} / n_{2 max}$	$M_{1 \text{ max}} / M_{2 \text{ max}}$	A_{max}	В	L1	L2	
Output spindle	Spindle			[bar]	[min ⁻¹]	[Nm]	[mm]	[mm]	[mm]	[mm]	Order No.
	S4	1:1	✓	-	6000 / 6000	70 / 70	72	52	85	38	113FAX09449S4D-85
BENZ Solidfix®	S4	1:1	\checkmark	100	6000 / 6000	70 / 70	72	60	85	38	113GAX09449S4D-85
	S3	1:2	\checkmark	-	5000 / 10000	40 / 20	79	52	85	38	113FWX09449S3D-85
	S3	1:2	\checkmark	100	5000 / 10000	40 / 20	79	60	85	38	113GWX09449S3D-85
	ER32	1:1	✓	-	6000 / 6000	70 / 70	69,1	52	85	38	113FAX09449E6AD-85
C	ER32	1:1	\checkmark	100	6000 / 6000	70 / 70	74,2	60	85	38	113GAX09449E6AD-85
Spannzange	ER25	1:2	\checkmark	-	5000 / 10000	40 / 20	78,6	52	85	38	113FWX09449E5AD-85
	ER25	1:2	\checkmark	100	5000 / 10000	40 / 20	83,6	60	85	38	113GWX09449E5AD-85
DENIZ CARTOIN	C4	1:1	✓	-	6000 / 6000	70 / 70	52	54	85	38	113FAX09449L4BD-85
BENZ CAPTO™	C4	1:1	\checkmark	100	6000 / 6000	70 / 70	52	60,5	85	38	113GAX09449L4BD-85

ADJUSTABLE

TECHNICAL DATA

















OUTPUT SPINDLE



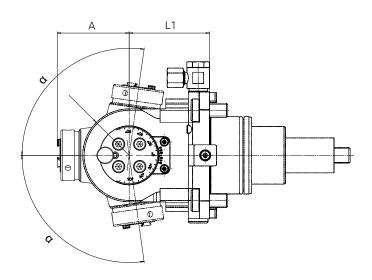
Collet chuck System ER DIN 6499



Other output spindles available upon request

Collet chuck





Technical Data

	Size	i	EC	IC p _{max}	n _{1 max} / n _{2 max}	$M_{1 \text{ max}} / M_{2 \text{ max}}$	A_{max}	L1	α	
Output spindle	Spindle			[bar]	[min ⁻¹]	[Nm]	[mm]	[mm]	[°]	Order No.
BENZ Solidfix®	S1	1:0,879	✓	-	8000 / 7000	10 / 12	46	57	98	113FDX09439S1
BEINZ SOIIGIIX	S1	1:0,879	\checkmark	50	8000 / 7000	10 / 12	46	57	98	113GDX09439S1
Collet Chuck	ER16	1:0,879	✓	-	8000 / 7000	10 / 12	51,1	57	98	113FDX09439E3A
Collet Chuck	ER16	1:0,879	\checkmark	50	8000 / 7000	10 / 12	56	57	98	113GDX09439E3A

^{*}Internal cooling $p_{max} = 50$ bar

AXIAL, BROACHING UNIT - BENZ LINA 4.0

TECHNICAL DATA







OUTPUT SPINDLE



Prism-shape profile Ø 30 mm



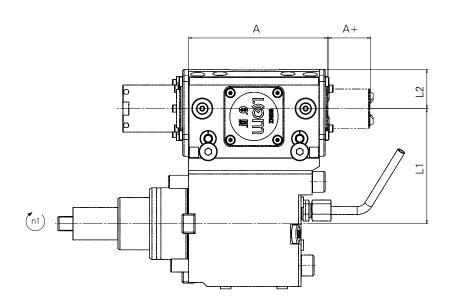
For questions regarding BENZ i.com please contact our BENZ Sales Team











	Technic	al Data							
	Size	i	EK	IK p _{max}	**A+	Α	L1	L2	
Туре	Plunge	er		[bar]	[mm]	[mm]	[mm]	[mm]	Order No.
ES	30	1:1	✓	50	32 / 34	106,5	88	30	113ES09407B2D-88-IB

^{*}number of double stroke per minute

^{**}usable working stroke / total stroke

STATIC HOLDERS BMT 55-100

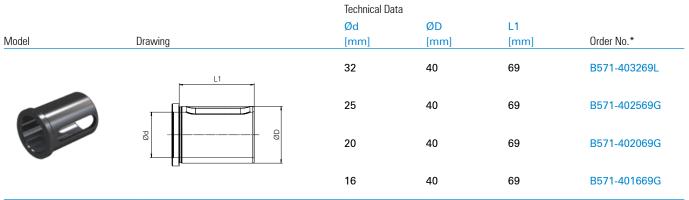
O.D. TURNING TOOL | SINGLE

Model	Drawing		Technica h1 [mm]	nl Data h2 [mm]	L1 [mm]	B1 [mm]	B2 [mm]	EC IC	Order No.
	B B B B B B B B B B B B B B B B B B B	* * *	25	50	75	81	45	✓ -	113A078560001
Ġ ,	Δ	h1 h2	25	50	75	81	45	✓ ✓	113A078560001-IC

BORING BAR HOLDER | SINGLE

			Technical [Data ØD	L1	L2	EC IC	
Model	Drawing		[mm]	[mm]	[mm]	[mm]		Order No.
		ØD Ød	40	83	90	32	✓ ✓	113A078576005

REDUCING SLEEVE



^{*}Versions: L= with slotted hole / G= with threads

AXIAL HOLDER | SINGLE - BENZ CAPTO™

		Technical D)ata				
		Size	Α	ØD	L2	IC	
Model	Drawing	Adapter	[mm]	[mm]	[mm]		Order No.
	ØD	C4	61	62	25	√	113AA078L4BDU-61
		C5	73	77	25	✓	113AA078L5BDU-73

i Static holders with BENZ CAPTO™ also available with 180° turned polygon flange.

RADIAL HOLDER | SINGLE - BENZ CAPTO™

		Technical	Data						
		Size	L1	L2	b	B1	B2	IC	
Model	Drawing	Adapter	[mm]	[mm]	[mm]	[mm]	[mm]		Order No.
Ole	B1 B2	C4	69	45	52	45	44	✓	113AP078L4BDU-45
		C5	77	45	58	45	44	✓	113AP078L5BDU-45

RADIAL HOLDER | SINGLE - BENZ CAPTO™

·		Technical Size	Data L1	L2	L3	b	B1	B2	IC	
Model	Drawing	Adapter	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		Order No.
·O.	B1 b B2	C4	28	85	109	0	45	65	✓	113AR078L4BDU-85
		C5	28	85	117	0	45	77	✓	113AR078L5BDU-85

PRODUCT GROUPS

TOOLING & MACHINE TOOLING TECHNOLOGY

TOOLING TECHNOLOGY







- Radial heads 90°
- Axial heads
- Swivel heads

- Static tool holders

LIVE TOOLS/TOOL HOLDERS

- Radial heads ≠ 90°

- Multi-spindle heads
- **Broaching units**
- Rotating tool holders

COMPONENTS. Our comprehensive tool concepts for turning centers and milling centers are ideal for nearly every application. Providing a technological advantage is our goal.

SPECIFIC TO THE CUSTOMER. Our modular approach enables customized configurations.

SYSTEMS. We develop special customer-specific tools for OEM and end customers on request.

EXCHANGEABLE UNITS

- Angle heads 90°
- Angle heads ≠ 90°
- Swivel heads
- Multi-spindle heads
- **Broaching units**
- High-speed spindles

EXCHANGEABLE UNITS

- Angle heads 90°
- Swivel heads
- Multi-spindle heads
- Multi-axis heads
- Sanding units
- Floating head units

KNOWLEDGE AND EXPERIENCE. Our knowledge of the metalworking industry and decades of development partnership make us ideal for new tasks anywhere in the world.

COMPONENTS. We deliver a vast array of standard components from stock and develop innovative, customized systems for OEM and end customers.

VARIETY. Whether in machining centers in the automotive, aerospace or wind energy industries, units from Benz can be used anywhere. Numerous customers choose us as their systems and innovation partner.

FOR ANY APPLICATION. Cost-effectively process and machine wood, composites and aluminium: We provide series production angle heads for drilling, milling, sawing and grinding in addition to other units for special applications. FROM BASIC TO HIGH-END. Benz units are available in a variety of performance classes, making them ideal for everything from light machining to high-performance continuous operation.

SYSTEMS. We have the solution for your special applications: Customized Benz units for machining centers. Put us to the test!

MACHINE TOOLING TECHNOLOGY







MULTI-SPINDLE HEADS AND LARGE DRILL HEADS

- Large angle heads
- Large drill heads
- XXL multi-spindle heads

DEVELOPMENT PARTNER. We accompany you from brainstorming to inspection of the final machine, always to your expectations. Our assortment ranges from compact heads to XXL units. SYSTEMS. Benz stands for high-end solutions in the fields of machine tooling technology, specialty solutions, custom assemblies and mechanical modules. We manufacture and configure multiplespindle and large-angle heads as well as large drill heads. COMPONENTS. Attachment units complete our range.

SYSTEM TECHNOLOGY

- Multiple-spindle drill heads
- Motor spindles
- Motors
- 5-axis technology
- C-axes
- Swivel axes
- Rotary distributors
- **Z**-axes

COMPONENTS. Our range includes standard products in an assortment of shapes and sizes. THE PERFECT ADDITION. Our system additions provide you with even more efficiency. Perfect your existing solutions with Benz products! SYSTEMS. We develop the technology of tomorrow. Your individual requirements for the efficiency of your machine tools and the suitability of the tools in use provide our benchmark for new, innovative solutions.

SERVICE

SERVICE

- Repair service
- Rapid Repair Kit
- Preventive maintenance
- Spare part management
- Global service
- Service hotline

DO NOT LOSE A SECOND. Speed is the order of the day when unexpected breakdowns occur. Our service center ensures immediate assistance around the world. We ensure your machine has as little downtime as possible. SERVICE QUALITY. We guarantee top service quality reflecting our expertise as a manufacturer. FORESIGHT. We go one step further: Preventive maintenance, customized Rapid Repair Kits and our spare part management service ensure you have the best setup to face any emergency. We look to the future to keep you at your peak.

OVERVIEW

PICTOGRAMS & ABBREVIATIONS

UNIT SPECIFICATIONS

Type of machining

Number of output spindles (tool holding fixtures)

Axis angle

Drive for spindle **Direction of** rotation

Coolant feed for cutting blade

Turret data



Drilling is suitable for boring machining



Milling is suitable for milling machining



Threading is suitable for thread machining



Broaching and slotting is suitable for machining by broaching and slotting

one output spindle

€ 1



0° Unit for machining tasks at a 0° angle



90° Unit for machining tasks at a 90° angle



Unit for machining tasks at an adjustable angle $0^{\circ} \pm \text{max.} \, \alpha^{\circ}$

n1) (n2)

clockwise / clockwise synchronized rotation



clockwise / counterclockwise counter-rotation





Extern (EC) The tool is cooled using anexternal feed line (spray nozzle)



Combination (EC+IC) The tool is cooled by a combination of both internal and external systems



Width across/ Turret width



Drive length of the tools shank in the turret



Turret type

ABBREVIATIONS

Maximum M_{max} torque Gear ratio Maximum speed n_{max} Feed Maximum pressure (bar) EC External cooling Internal cooling IC Page p. Possible Not possible SW Width across flats Millimeter mm

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We hereby declare that our products meet the basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine to the extent that this is possible as part of delivery.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with versions of the incomplete machine's special documents via our documentation department should they have reason to request them.

The incomplete machine also satisfies the stipulations of EC Directive 2014/30/EU on electromagnetic compatibility. The protective goals of EC Directive 2014/35/EU regarding electronic equipment have been met.

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