EMAG BMT 55-83

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.



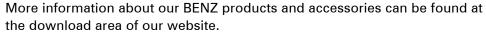
BENZ TOOLING TECHNOLOGY FOR EMAG LATHES BMT 55-83

BENZ STANDARD PRODUCT RANGE - FITS FOR:

MACHINES		SW	AL	TYPE
EMAG VL	2 4	330	83	STD
EMAG VLC	100 (VL2)	340	83	HSP
EMAG VT2		360	83	STD
EMAG VTC	100 (VT2)	360	83	HSP







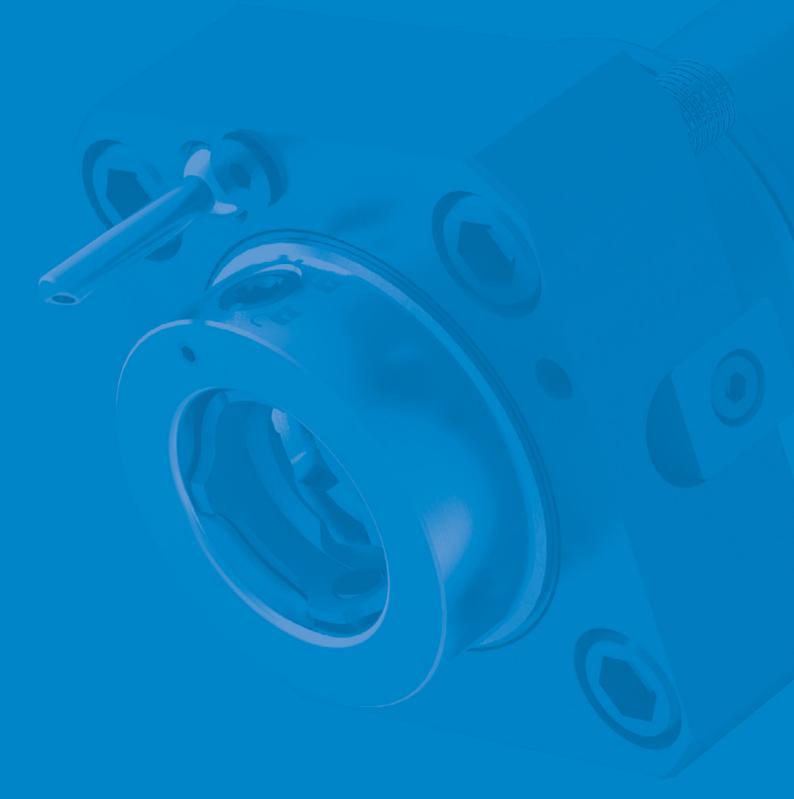
https://www.benztooling.com/en/services/downloads





BMT 55-83

Live Tools | Static Holders



LIVE TOOLS



STATIC HOLDERS



AXIAL

TECHNICAL DATA

















OUTPUT SPINDLES



BENZ Solidfix®



Collet chuck System ER DIN 6499



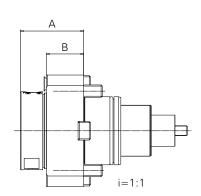
BENZ CAPTO™



Other output spindles available upon request

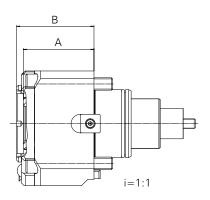
BENZ Solidfix® / Collet chuck





BENZ CAPTO™





	Technica	l Data							
	Size	i	EC	$IC p_{max}$	$n_{1 max} / n_{2 max}$	$M_{1 \text{ max}} / M_{2 \text{ max}}$	A_{max}	В	
Output spindle	Spindle	Э		[bar]	[rpm]	[Nm]	[mm]	[mm]	Order No.
	S4	1:1	✓	-	6000 / 6000	50 / 50	51	30	113DA07800S4
BENZ Solidfix®	S4	1:1	\checkmark	70	6000 / 6000	50 / 50	51	30	113EA07800S4
BEINZ SOIIGTIX	S3	1:1	\checkmark	-	12000 / 12000	50 / 50	49	30	113DA07800S3
	S3	1:1	\checkmark	70	12000 / 12000	50 / 50	49	30	113EA07800S3
	ER32	1:1	✓	-	6000 / 6000	50 / 50	55,1	30	113DA07800E6A
Callat about	ER32	1:1	\checkmark	70	6000 / 6000	50 / 50	60,2	30	113EA07800E6A
Collet chuck	ER25	1:1	\checkmark	-	12000 / 12000	50 / 50	42,9	30	113DA07800E5A
	ER25	1:1	\checkmark	70	12000 / 12000	50 / 50	47,9	30	113EA07800E5A
	C4	1:1	✓	-	6000 / 6000	50 / 50	57	62,5	113DA07800L4BD
DENIZ CADTOIM	C4	1:1	\checkmark	70	6000 / 6000	50 / 50	57	62,5	113EA07800L4BD
BENZ CAPTO™	C3	1:1	\checkmark	-	12000 / 12000	50 / 50	49	53,5	113DA07800L3BD
	C3	1:1	✓	70	12000 / 12000	50 / 50	49	53,5	113EA07800L3BD

High Speed

AXIAL, 1:2

TECHNICAL DATA

















OUTPUT SPINDLES







Collet chuck System ER DIN 6499

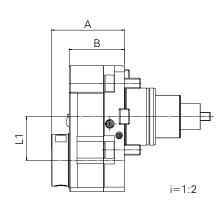
BENZ CAPTO™



Other output spindles available upon request

BENZ Solidfix® / Collet chuck





$T_{\alpha\alpha}$	hnina	l Data
IEU	HHILLA	i Data

	Size	i	EC	IC p _{max}	$n_{1 max} / n_{2 max}$	$M_{1 max} / M_{2 max}$	A_{max}	В	L1	
Output spindle	Spindle)		[bar]	[rpm]	[Nm]	[mm]	[mm]	[mm]	Order No.
BENZ Solidfix®	S3	1:2	✓	-	6000 / 12000	30 / 15	70	53	42	113DI07894S3D
DEINZ SOIIUIIX	S3	1:2	\checkmark	100	6000 / 12000	30 / 15	77	60	42	113EI07894S3D
Collet chuck	ER25	1:2	✓	-	6000 / 12000	30 / 15	71,9	53	42	113DI07894E5AD
Collet chuck	ER25	1:2	✓	100	6000 / 12000	30 / 15	83,9	60	42	113EI07894E5AD

LIVE TOOL BMT 55-83 RADIAL

TECHNICAL DATA



LENGTH L1



OUTPUT SPINDLES







Collet chuck System ER DIN 6499



CAPTO™



Other output spindles available upon request







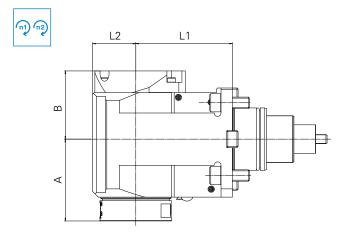




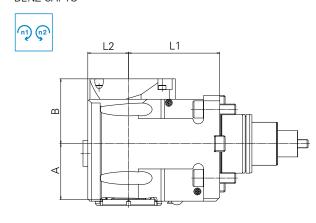




BENZ Solidfix® / Collet chuck



BENZ CAPTO™



Tec	hnica	I D	ata

	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]	[rpm]	[Nm]	[mm]	[mm]	[mm]	[mm]	Order No.
	S4	1:1	✓	-	6000 / 6000	70 / 70	72	52	85	38	113FAX07849S4D-85
DENIZ C-1:-It:-®	S4	1:1	\checkmark	100	6000 / 6000	70 / 70	72	60	85	38	113GAX07849S4D-85
BENZ Solidfix®	S3	1:1	\checkmark	-	12000 / 12000	30 / 30	56	40	85	28	113FAX07839S3D-85
	S3	1:1	\checkmark	100	12000 / 12000	30 / 30	56	58	85	28	113GAX07839S3D-85
	ER32	1:1	✓	-	6000 / 6000	70 / 70	69,1	52	85	38	113FAX07849E6AD-85
Callat about	ER32	1:1	\checkmark	100	6000 / 6000	70 / 70	74,2	60	85	38	113GAX07849E6AD-85
Collet chuck	ER25	1:1	\checkmark	-	12000 / 12000	30 / 30	56,9	40	85	28	113FAX07839E5AD-85
	ER25	1:1	\checkmark	100	12000 / 12000	30 / 30	61,9	58	85	28	113GAX07839E5AD-85
	C4	1:1	✓	-	6000 / 6000	70 / 70	52	54	85	38	113FAX07849L4BD-85
DENIZ CARTOIN	C4	1:1	\checkmark	100	6000 / 6000	70 / 70	52	60,5	85	38	113GAX07849L4BD-85
BENZ CAPTO™	C3	1:1	✓	-	12000 / 12000	30 / 30	42	45	85	32	113FAX07839L3BD-85
	C3	1:1	\checkmark	100	12000 / 12000	30 / 30	42	67,5	85	32	113GAX07839L3BD-85

High Speed

RADIAL, 1:2

TECHNICAL DATA



LENGTH L1



OUTPUT SPINDLES



BENZ Solidfix®



Collet chuck System ER DIN 6499

BENZ CAPTO™



Other output spindles available upon request











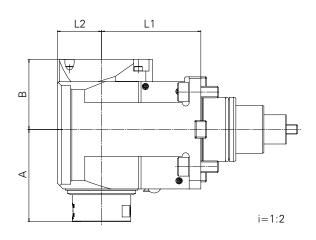




BENZ Solidfix® / Collet chuck



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]	[rpm]	[Nm]	[mm]	[mm]	[mm]	[mm]	Order No.
BENZ Solidfix®	S3	1:2	\checkmark	-	5000 / 10000	40 / 20	79	52	85	38	113FWX07849S3D-85
DEINZ SOIIUIIX	S3	1:2	\checkmark	\checkmark	5000 / 10000	40 / 20	79	60	85	38	113GWX07849S3D-85
Collet chuck	ER25	1:2	✓	-	5000 / 10000	40 / 20	78,6	52	85	38	113FWX07849E5AD-85
Collet Chuck	ER25	1:2	✓	✓	5000 / 10000	40 / 20	83,6	60	85	38	113GWX07849E5AD-85

ADJUSTABLE

TECHNICAL DATA

















OUTPUT SPINDLE



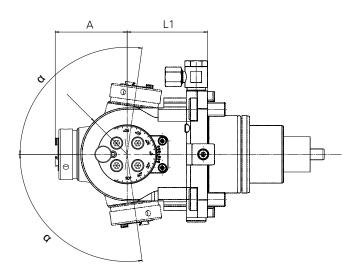
Collet chuck System ER DIN 6499



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
C-II-t Charle	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



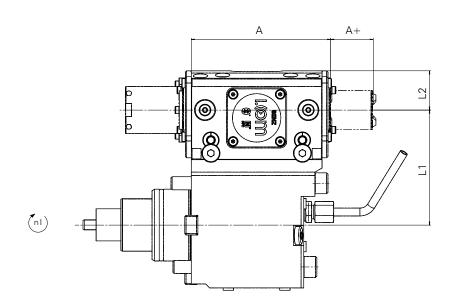
For questions regarding BENZ i.com please contact our BENZ Sales Team











	Performance Data			
	$n_{1 \text{ max}} / *n_{2 \text{ max}}$	M _{1 max} / F _{c max}	f	Groove width _{max}
Туре	[min ⁻¹]	[Nm]	[mm]	[mm]
ES	1500 / 1500	30 / 1700	0.02 0.10	12

	Technica	al Data							
	Size	i	EC	IC p _{max}	**A+	Α	L1	L2	
Туре	Plunge	er		[bar]	[mm]	[mm]	[mm]	[mm]	Order No.
ES	30	1:1	\checkmark	50	32 / 34	106,5	88	30	113ES07807B2D-88-IB

^{*}number of double stroke per minute

^{**}usable working stroke / total stroke

STATIC HOLDERS — BMT 55

O.D. TURNING TOOL | SINGLE

			Technica	al Data					
M 11	Б		h1	h2	L1	B1	B2	EC IC	0 1
Model	Drawing		[mm]	[mm]	[mm]	[mm]	[mm]		Order No.
	B1 B2 F3	◆◆◆*◆*◆*◆*◆*◆**◆**◆************************************************************************************************************************************************************************************<td>25</td><td>50</td><td>75</td><td>81</td><td>45</td><td>✓ ✓</td><td>113A078560001</td>	25	50	75	81	45	✓ ✓	113A078560001
· ·	Δ L1	h1	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

		Technical Da	ta				
		Ød	ØD	L1			
Model	Drawing	[mm]	[mm]	[mm]	Order No.*		
	<u> </u>	32	40	69	B571-403269L		
	PO	25	40	69	B571-402569G		
		20	40	69	B571-402069G		
	<u>. </u>	16	40	69	B571-401669G		

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

AXIAL HOLDER | SINGLE - BENZ CAPTO™

		Technical Data						
		Size	Α	ØD	L1	L2	IC	
Model	Drawing	Adapte	r [mm]	[mm]	[mm]	[mm]		Order No.
0.	ØD OD	C4	61	62	61	25	✓	113AA078L4BDU-61
		C5	73	77	73	25	✓	113AA078L5BDU-73

RADIAL HOLDER | SINGLE - BENZ CAPTO™

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

RADIAL HOLDER | SINGLE - BENZ CAPTO™

Model	Drawing	Technical Size Adapter	L1	L2 [mm]	L3 [mm]	b [mm]	B1 [mm]	B2 [mm]	IC	Order No.
0	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°
- Radial heads ≠ 90°
- Axial heads
- Swivel heads
- Multi-spindle heads
- **Broaching units**
- Rotating tool holders
- Static tool holders

LIVE TOOLS/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

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







SERVICE

META

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.

METAL / WOOD / COMPOSITE AND ALUMINIL

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.

METAL / WOOD / COMPOSITE AND ALUMINIUM

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 $0^{\circ} \pm \text{max.} \, \alpha^{\circ}$



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

\mathbf{M}_{max}	Maximum torque
i	Gear ratio
n _{max}	Maximum speed
f _c	Feed
p _{max}	Maximum pressure (bar)
EC	External cooling
IC	Internal cooling
p.	Page
✓	Possible
-	Not possible
SW	Width across flats
mm	Millimeter

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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.

The incomplete machine may only be commissioned if it has been ascertained, if applicable, that the machine or system in which the incomplete machine is to be installed satisfies the requirements of Directive 2006/42/EC on Machinery and an EC declaration of conformity has been drawn up in accordance with Annex II.

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