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 WOOD-WORKING, 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 PRODUC-TION PROCESSES AND LOWER YOUR MANUFACTURING COSTS - AND ULTIMATELY IM-PROVE YOUR COMPETITIVENESS AS A RESULT.



BENZ TOOLING TECHNOLOGY FOR EMAG LATHES BMT 55-83

BENZ STANDARD PRODUCT RANGE - FITS FOR:

MACHINES		SW		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

Further tools upon request

i.





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 55-83

Live Tools | Static Holders

LIVE TOOLS

07	AXIAL	6	0	AXIAL, 1:2	7
	RADIAL	8		RADIAL, 1:2	9
	ADJUSTABLE	10		BROACHING UNIT AXIAL	11

STATIC HOLDERS



LIVE TOOL BMT 55-83 AXIAL

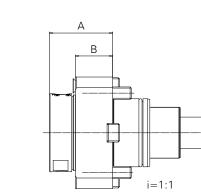
TECHNICAL DATA





BENZ Solidfix® / Collet chuck

n1 n2



OUTPUT SPINDLES







BENZ Solidfix®

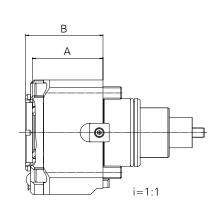
Collet chuck BENZ System ER CAPTO™ DIN 6499



Other output spindles available upon request

BENZ CAPTO™

n1 n2



	Technica	l Data							
	Size	i	EC	$\text{IC} \text{p}_{_{\text{max}}}$	n _{1 max} / n _{2 max}	$M_{1 \max} / M_{2 \max}$	A_{max}	В	
Output spindle	Spindle	e		[bar]	[rpm]	[Nm]	[mm]	[mm]	Order No.
	S4	1:1	\checkmark	-	6000 / 6000	50 / 50	51	30	113DA07800S4
BENZ Solidfix®	S4	1:1	\checkmark	70	6000 / 6000	50 / 50	51	30	113EA07800S4
BEINZ SOUDTIX	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	\checkmark	-	6000 / 6000	50 / 50	55,1	30	113DA07800E6A
Callet 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	\checkmark	-	6000 / 6000	50 / 50	57	62,5	113DA07800L4BD
	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	\checkmark	70	12000 / 12000	50 / 50	49	53,5	113EA07800L3BD

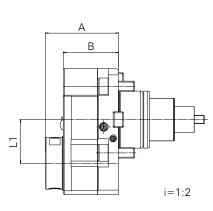
High Speed

LIVE TOOL BMT 55-83 AXIAL, 1:2

TECHNICAL DATA



BENZ Solidfix® / Collet chuck



	Technica	l 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	\checkmark	-	6000 / 12000	30 / 15	70	53	42	113DI07894S3D
DEINZ SUIIUIIX-	S3	1:2	\checkmark	100	6000 / 12000	30 / 15	77	60	42	113EI07894S3D
Collet chuck	ER25	1:2	\checkmark	-	6000 / 12000	30 / 15	71,9	53	42	113DI07894E5AD
Collet CHUCK	ER25	1:2	\checkmark	100	6000 / 12000	30 / 15	83,9	60	42	113EI07894E5AD

OUTPUT SPINDLES





BENZ CAPTO™



Solidfix®

Other output spindles available upon request

System ER DIN 6499

LIVE TOOL BMT 55-83 RADIAL

TECHNICAL DATA



LENGTH L1

85

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OUTPUT SPINDLES







BENZ Solidfix®

Collet chuck BENZ System ER CAPTO™ DIN 6499



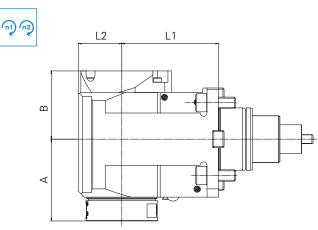
Other output spindles available upon request

[1]

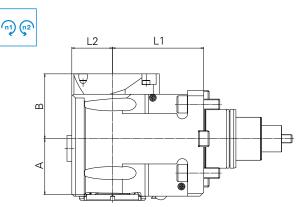
90°

BENZ Solidfix® / Collet chuck

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BENZ CAPTO™



	Technical	Data									
	Size	i –	EC	IC p _{max}	n _{1 max} / n _{2 max}	$M_{1 \max} / M_{2 \max}$	A_{max}	В	L1	L2	
Output spindle	Spindle			[bar]	[rpm]	[Nm]	[mm]	[mm]	[mm]	[mm]	Order No.
	S4	1:1	\checkmark	-	6000 / 6000	70 / 70	72	52	85	38	113FAX07849S4D-85
BENZ Solidfix [®]	S4	1:1	\checkmark	100	6000 / 6000	70 / 70	72	60	85	38	113GAX07849S4D-85
BEINZ SOIIUIIX-	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	\checkmark	-	6000 / 6000	70 / 70	69,1	52	85	38	113FAX07849E6AD-85
Collet chuck	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	\checkmark	-	6000 / 6000	70 / 70	52	54	85	38	113FAX07849L4BD-85
	C4	1:1	\checkmark	100	6000 / 6000	70 / 70	52	60,5	85	38	113GAX07849L4BD-85
BENZ CAPTO™	C3	1:1	\checkmark	-	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

LIVE TOOL BMT 55-83 RADIAL, 1:2

TECHNICAL DATA



OUTPUT SPINDLES



Solidfix®



System ER DIN 6499

BENZ CAPTO™

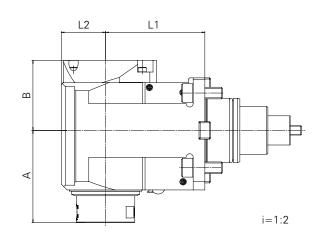


Other output spindles available upon request

BENZ Solidfix® / Collet chuck

n1 (n2)

BENZ CAPTO™



	Technical	Data									
	Size	i –	EC	IC p _{max}	n _{1 max} / n _{2 max}	$M_{1 \max} / M_{2 \max}$	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
BEINZ SOIIGIIX°	S3	1:2	\checkmark	\checkmark	5000 / 10000	40 / 20	79	60	85	38	113GWX07849S3D-85
Collet shush	ER25	1:2	\checkmark	-	5000 / 10000	40 / 20	78,6	52	85	38	113FWX07849E5AD-85
Collet chuck	ER25	1:2	\checkmark	\checkmark	5000 / 10000	40 / 20	83,6	60	85	38	113GWX07849E5AD-85

LIVE TOOL BMT 55-83 ADJUSTABLE

TECHNICAL DATA



OUTPUT SPINDLE



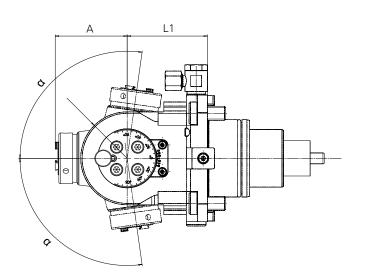
Collet chuck System ER DIN 6499



Other output spindles available upon request







	Technical [Data								
	Size	i -	EC	IC p _{max}	$n_{1 max} / n_{2 max}$	$M_{1 max} / M_{2 max}$	A _{max}	L1	α	
Output spindle	Spindle			[bar]	[min ⁻¹]	[Nm]	[mm]	[mm]	[°]	Order No.
BENZ Solidfix®	S1	1:0,879	\checkmark	-	8000 / 7000	10 / 12	46	57	98	113FDX09439S1
BEINZ SOIIUIIX°	S1	1:0,879	\checkmark	50	8000 / 7000	10 / 12	46	57	98	113GDX09439S1
Collet Chuck	ER16	1:0,879	\checkmark	-	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
×1 · · · ·	50.1									

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

LIVE TOOL BMT 55-83 AXIAL, BROACHING UNIT - BENZ LINA 4.0

TECHNICAL DATA



LENGTH L1

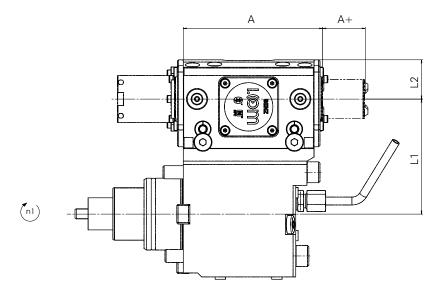
88

OUTPUT SPINDLE





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



	Performance Data				
	n _{1 max} / *n _{2 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	

	Technical Data											
	Size	i	EC	IC p _{max}	**A+	Α	L1	L2				
Туре	Plunger			[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						
			h1	h2	L1	B1	B2	EC	IC	
Model	Drawing		[mm]	[mm]	[mm]	[mm]	[mm]			Order No.
		• • • • • •	25	50	75	81	45	~	\checkmark	113A078560001
			25	50	75	81	45	~	~	113A078560001-IC

BORING BAR HOLDER | SINGLE

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

REDUCING SLEEVE

		Technical Da	ta		
		Ød	ØD	L1	
Model	Drawing	[mm]	[mm]	[mm]	Order No.*
	L1	32	40	69	B571-403269L
		25	40	69	B571-402569G
1	R R	20	40	69	B571-402069G
		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		C4	61	62	61	25	√	113AA078L4BDU-61		
		C5	73	77	73	25	~	113AA078L5BDU-73		

RADIAL HOLDER | SINGLE - BENZ CAPTO"

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

RADIAL HOLDER | SINGLE - BENZ CAPTO"

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

PRODUCT GROUPS TOOLING & MACHINE TOOLING TECHNOLOGY

TOOLING TECHNOLOGY



METAL

LIVE TOOLS/TOOL HOLDERS

- Radial heads 90°
- Radial heads ≠ 90°
- Axial heads
- Swivel heads
- Multi-spindle heads
- Broaching units
- Rotating tool holders
- Static tool holders



EXCHANGEABLE UNITS

- Angle heads 90°
- Angle heads \neq 90°
- Swivel heads
- Multi-spindle heads
- Broaching units
- High-speed spindles

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.



WOOD / COMPOSITE AND ALUMINIUM

EXCHANGEABLE UNITS

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

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!

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.

MACHINE TOOLING TECHNOLOGY









METAL

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 ALUMINIUM

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.

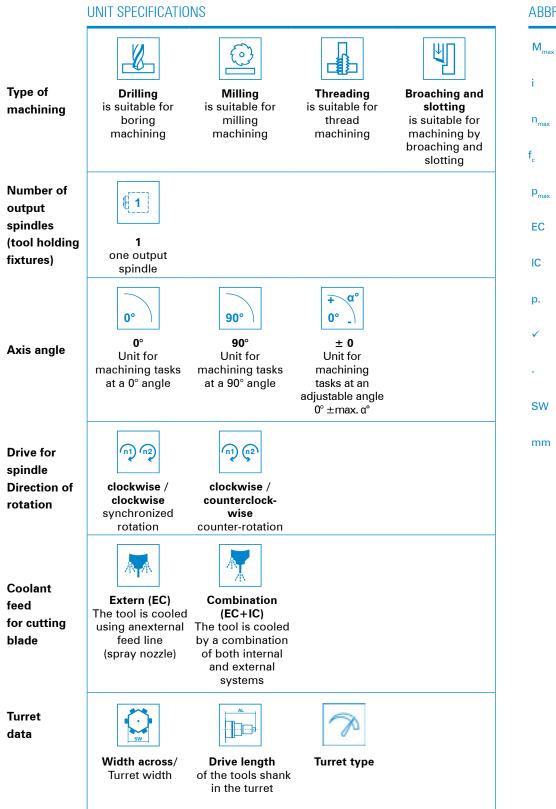
METAL / WOOD / COMPOSITE AND ALUMINIUM

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



ABBREVIATIONS

Maximum

Gear ratio

Maximum speed

Maximum pressure

External cooling

Internal cooling

torque

Feed

(bar)

Page

Possible

Not possible

Millimeter

Width across flats

Usage note – general

The contents of this catalog are not legally binding and are intended solely for informational purposes. Any final agreement will be in the

form of a written order confirmation from BENZ GmbH, which occurs only subject to the respective current General Terms and Conditions

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All of the products listed in this catalog are designed for their intended use, e.g. machines for precision machining. The recognized technical regulations for safety and professional work must be followed for use and installation.

Furthermore, the respective laws, guidelines from $T\ddot{U}V$, guidelines from the respective trade association and VDE stipulations shall apply.

The technical data listed in this catalog must be observed by the user. The conditions of use may not fall below or exceed the specified data. If information is missing, it cannot be assumed that there are no upper or lower limits or no limitations for specific use cases. Consultation is required in these cases.

Disposal is not included in the price, which would have to be taken into account accordingly in the event of return to or disposal by BENZ GmbH.

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The specifications and information - such as figures, drawings, descriptions, dimensions, weights, materials, technical and other performance data and the described products and services - contained in general product descriptions, BENZ GmbH catalogs, brochures and price lists in any form are subject to change and may be modified or updated at any time without prior notification. They are binding only to the extent expressly specified in a contract or order confirmation. Slight deviations from such descriptive product information shall be considered approved and shall not affect fulfillment of agreements insofar as they are reasonable for the customer.

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Usage note - individual

DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTI-VE 2006/42/EC ON MACHINERY (ANNEX II 1 B)

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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