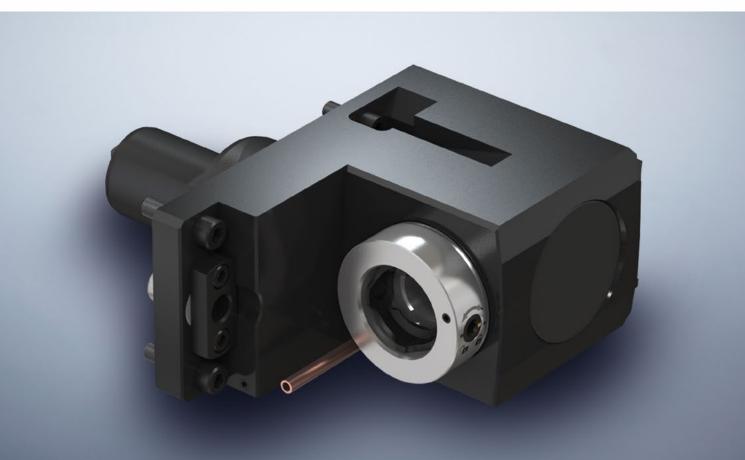
MAZAK BMT 68 Live Tools & Static Holders

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 MAZAK LATHES BMT 68

BENZ STANDARD PRODUCT RANGE - FITS FOR:

MACHINES

i.

MAZAK QTC M/MY/MS/MSY	100	200	250	300	350
MAZAK QTE M/MY/MS/MSY	100	200	300		
MAZAK QTU M/MY/MS/MSY	100	200	250	300	

Further tools upon request





More information about our BENZ products and accessories can be found at the download area of our website https://www.benztooling.com/en/downloads

BMT 68

Live Tools | Static Holders

LIVE TOOLS

0	AXIAL	6	AXIAL, OFFSET	7
	RADIAL	8	RADIAL, RECESSED	9
	RADIAL, DOUBLE	10	ADJUSTABLE	11
0 00 0 00 1	BROACHING UNIT BENZ LinA 4.0	12		

STATIC HOLDERS



ACCESSORIES



ADAPTER & TOOL FIXTURES COLLET CHUCK & MISCELLANOUS 13

LIVE TOOL – BMT 68 AXIAL

TECHNICAL DATA



OUTPUT SPINDLES





BENZ Solidfix®

Collet chuck System ER DIN 6499

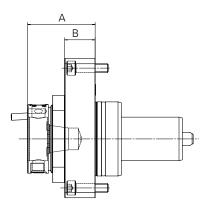


Other output spindles available upon request



Performanc		
IC p _{max}	n _{1 max} / n _{2 max}	$M_{1 \max} / M_{2 \max}$
[bar]	[min ⁻¹]	[Nm]
-	6500 / 6500	80 / 80
70	6500 / 6500	80 / 80
	[bar] -	[bar] [min ⁻¹] - 6500 / 6500





	Technical da	ata							
	Size	i	EC	IC	A _{max}	В	PD		
Output spindle	Spindle		**	*	[mm]	[mm]		Order No.	
BENZ Solidfix®	S4	1:1	\checkmark	-	62	28	1	114DA12941S4	
BEINZ SOLIDIIX®	S4	1:1	\checkmark	\checkmark	62	28	2	114EA12941S4	
Collet Chuck	ER32	1:1	\checkmark	-	50,1	28	1	114DA12941E6A	
Collet Chuck	ER32	1:1	\checkmark	\checkmark	55,2	28	2	114EA12941E6A	

LIVE TOOLS – BMT 68 AXIAL, OFFSET

TECHNICAL DATA



OUTPUT SPINDLES





BENZ Co Solidfix® Sy

Collet chuck System ER DIN 6499

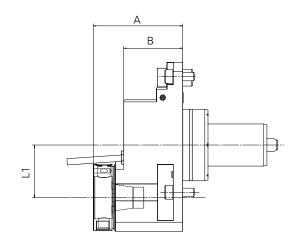


Other output spindles available upon request



	Performance data									
PD	IC p _{max} [bar]	n _{1 max} / n _{2 max} [min ⁻¹]	M _{1 max} / M _{2 max} [Nm]							
1	-	6500 / 6500	50 / 50							
2	100	6500 / 6500	50 / 50							





	Technical	data							
	Size	i i	EC	IC	A _{max}	В	L1	PD	
Output spindle	Spindle		A	1	[mm]	[mm]	[mm]		Order No.
BENZ Solidfix®	S4	1:1	\checkmark	-	85	56	50	1	114DM12981S4R
DEINZ SUIIUIIX-	S4	1:1	\checkmark	\checkmark	106	77	50	2	114EM12981S4R
Collet Chuck	ER32	1:1	\checkmark	-	82,1	56	50	1	114DM12981E6AR
Collet Chuck	ER32	1:1	\checkmark	\checkmark	108,2	77	50	2	114EM12981E6AR

LIVE TOOLS – BMT 68 RADIAL



OUTPUT SPINDLES





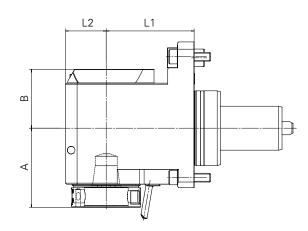
BENZ Collet chuck Solidfix[®] System ER DIN 6499



Other output spindles available upon request

	Performan	ce data	
PD	IC p _{max} [bar]	n _{1 max} / n _{2 max} [min ⁻¹]	M _{1 max} / M _{2 max} [Nm]
1	-	6500 / 6500	70 / 70
2	100	6500 / 6500	70 / 70





	Technical	data								
	Size	i	EC	IC	A _{max}	В	L2	L1	PD	
Output spindle	Spindle	;	A	1	[mm]	[mm]	[mm]	[mm]		Order No.
	S4	1:1	\checkmark	-	72	53,5	37	80	1	114FAX12949S4R
BENZ Solidfix®	S4	1:1	\checkmark	\checkmark	72	60	37	80	2	114GAX12949S4R
Collet Chuck	ER32	1:1	\checkmark	-	71,1	53,5	37	80	1	114FAX12949E6AR
Collet Chuck	ER32	1:1	\checkmark	\checkmark	76,2	60	37	80	2	114GAX12949E6AR

LIVE TOOLS – BMT 68 RADIAL, RECESSED

TECHNICAL DATA



LENGTH L1

80

OUTPUT SPINDLES



Solidfix®





System ER DIN 6499

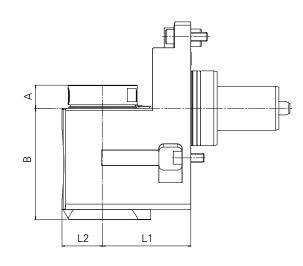


Other output spindles available upon request

		\bigcirc		£[1]	90°	A A	
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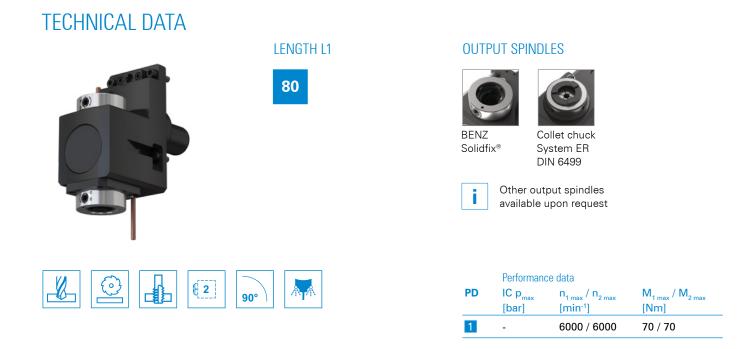
PD	Performand IC p _{max} [bar]	ce data n _{1 max} / n _{2 max} [min ⁻¹]	M _{1 max} / M _{2 max} [Nm]
1	-	6000 / 6000	70 / 70
2	100	6000 / 6000	70 / 70





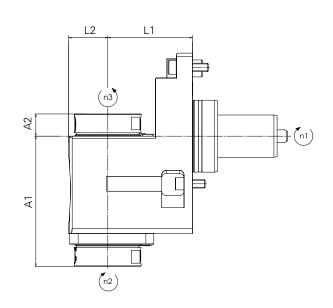
	Technical	data								
	Size	i i	EC	IC	A _{max}	В	L2	L1	PD	
Output spindle	Spindle)	쪠	1	[mm]	[mm]	[mm]	[mm]		Order No.
	S4	1:1	\checkmark	-	21	101	37	80	1	114FBX12949S4L-80
BENZ Solidfix®	S4	1:1	\checkmark	\checkmark	21	111	37	80	2	114GBX12949S4L-80
Callet Church	ER32	1:1	\checkmark	-	18,1	101	37	80	1	114FBX12949E6AL-80
Collet Chuck	ER32	1:1	\checkmark	\checkmark	23,2	111	37	80	2	114GBX12949E6AL-80

LIVE TOOLS – BMT 68 RADIAL, DOUBLE



BENZ Solidfix[®] / Collet Chuck





	Technical	data								
	Size	i i	EC	IC	A1 _{max}	A2 _{max}	L2	L1	PD	
Output spindle	Spindle)	*	*	[mm]	[mm]	[mm]	[mm]		Order No.
BENZ Solidfix®	S4	1:1	\checkmark	-	123	21	37	80	1	114FBX12949S4L2-80
Collet Chuck	ER32	1:1	\checkmark	-	120,1	18,1	37	80	1	114FBX12949E6AL2-80

LIVE TOOLS – BMT 68 ADJUSTABLE

TECHNICAL DATA





OUTPUT SPINDLES



Collet chuck System ER DIN 6499

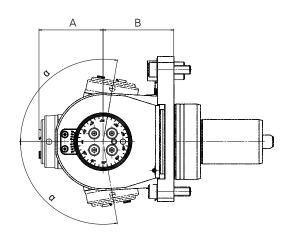


Other output spindles available upon request

	Performance data								
PD	IC p _{max} [bar]	n _{1 max} / n _{2 max} [min ⁻¹]	M _{1 max} / M _{2 max} [Nm]						
1	-	6000 / 4900	32 / 39						
2	50	6000 / 4900	32 / 39						

Collet Chuck





	Technical d	ata						
	Size	i	EC	IC	A _{max}	В	PD	
Output spindle	Spindle		**	1	[mm]	[mm]		Order No.
Callet Chuck	ER25	1:0,816	\checkmark	-	57,9	62	1	114FDX12949E5A
Collet Chuck	ER25	1:0,816	\checkmark	\checkmark	62,9	62	2	114GDX12949E5A

LIVE TOOLS – BMT 68 RADIAL, BROACHING UNIT - BENZ LINA 4.0

TECHNICAL DATA





LENGTH L1

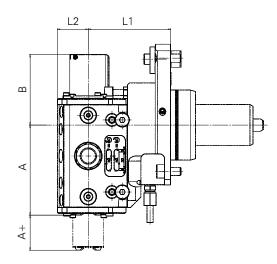
80

OUTPUT SPINDLES



Performance data									
c max									
1									
0									
0									

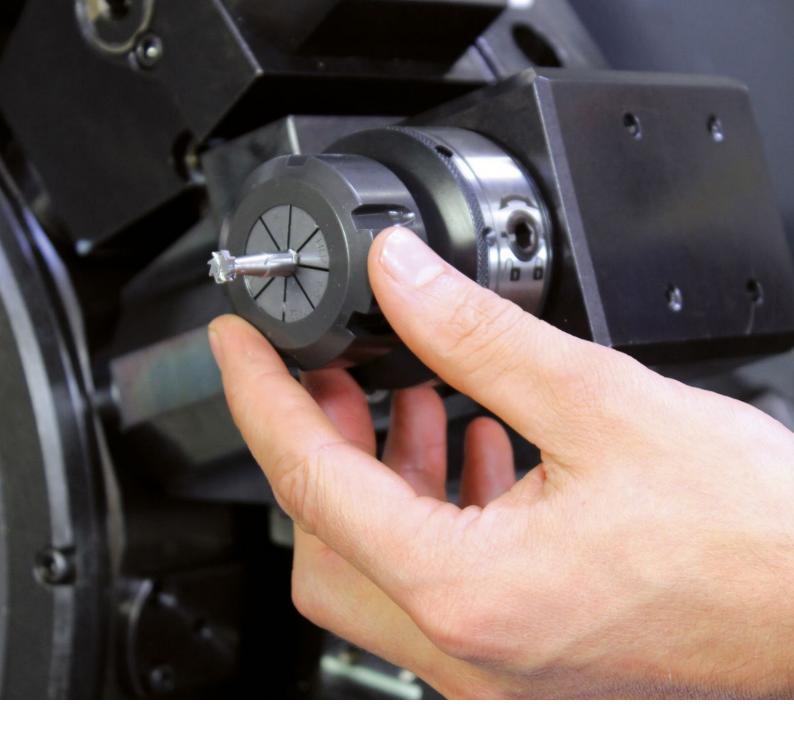
*number of double stroke per minute



	Technical data											
	Size	i	EC	IC	**Hub	Α	В	L2	L1	LD		
Тур	Stößel		A	*	[mm]	[mm]	[mm]	[mm]	[mm]		Order No.	
GS	30	2:1	\checkmark	\checkmark	32	34	68,5	30	80	1	114GS12902B2R-80	
GSL	30	2:1	\checkmark	\checkmark	51	116,5	87,5	30	80	2	114GSL12908B2R-80	

*number of double stroke per minute

**usable working stroke



ACCESSORIES

Practical additions for your interchangeable unit

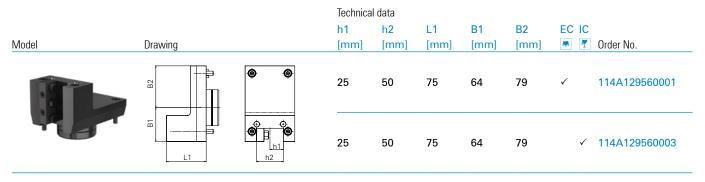
BENZ Solidfix[®] is a modular quick change system that allows you to change tools in less than 20 seconds. The time-consuming process of removing the live tool from the machine is avoided, as only the adapter with cutting tool is changed. Replacing the change adapter saves you several live tools. **Your advantage:** One live tool instead of several – and therefore lower investment costs compared to exchanging the complete unit!

A large selection of adapters and matching accessories can be found in our catalogue BENZ Modular Quick Change Systems



STATIC HOLDERS – BMT 68

O.D. TURNING TOOL | SINGLE



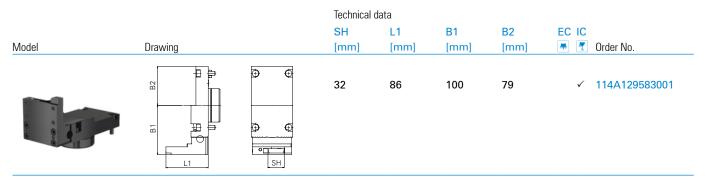
O.D. TURNING TOOL | 2 TOOLS - MAIN & SUB SPINDLE

		Technical data							
		h1	h2	L1	B1	B2	EC IC		
Model	Drawing	[mm]	[mm]	[mm]	[mm]	[mm]	🦛 🤻	Order No.	
		25	50	100	64	80	√	114A129567001	
		25	50	100	64	80	V	114A129567002	

FACE AND I.D. TURNING TOOL | SINGLE

		Technical data							
			h1	h2	L1	B1	B2	EC IC	
Model	Drawing		[mm]	[mm]	[mm]	[mm]	[mm]	*	Order No.
			25	50	98	64	79	~	114A129559001
			25	50	98	64	79	V	114A129559003

CUT-OFF HOLDER



BORING BAR HOLDER | SINGLE

		Technica	al data					
		Ød	L1	L2	B1	B2	EC IC	
Model	Drawing	[mm]	[mm]	[mm]	[mm]	[mm]	* 7	Order No.
		25	123	95	63,5	79	 ✓ 	114A129578006
		32	123	95	63,5	79	✓ ✓	114A129578002
		40	123	95	63,5	79	\checkmark \checkmark	114A129578004

PRODUCT GROUPS TOOLING & MACHINE TOOLING TECHNOLOGY

TOOLING TECHNOLOGY



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

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 \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.

Swivel headsMulti-spindle heads

EXCHANGEABLE UNITS

Angle heads 90°

- 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!

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

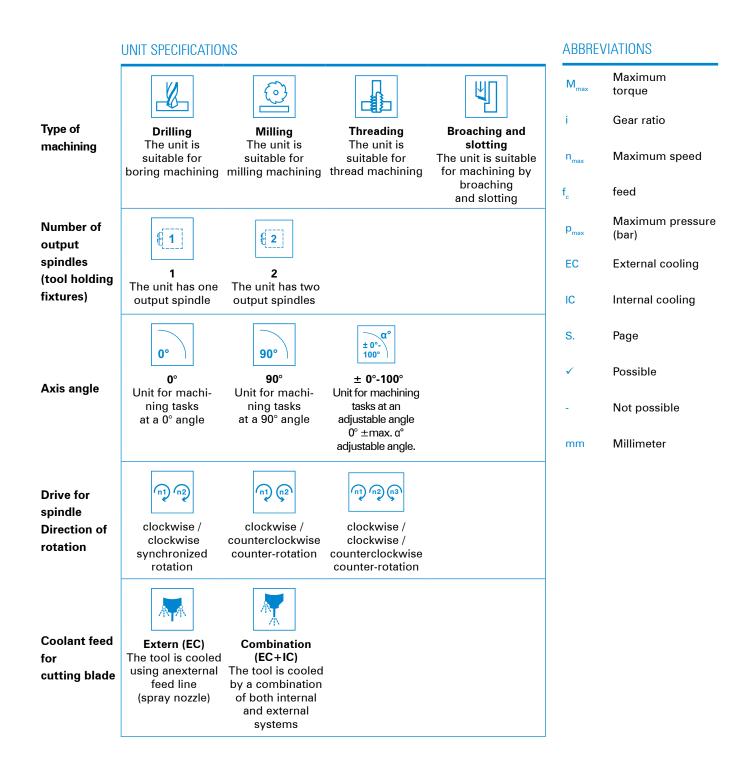
COMPONENTS. Our range includes standard products in an assortment of shapes and sizes. THE PERFECT ADDITION. Our system additions provide you with even more efficiency. Perfect your existing solutions with Benz products! SYSTEMS. We develop the technology of tomorrow. Your individual requirements for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

- 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



18

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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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BENZ GmbH Werkzeugsysteme

Im Mühlegrün 12 D-77716 Haslach T +49 7832 704-0 F +49 7832 704-8001 info@benztooling.com www.benztooling.com

