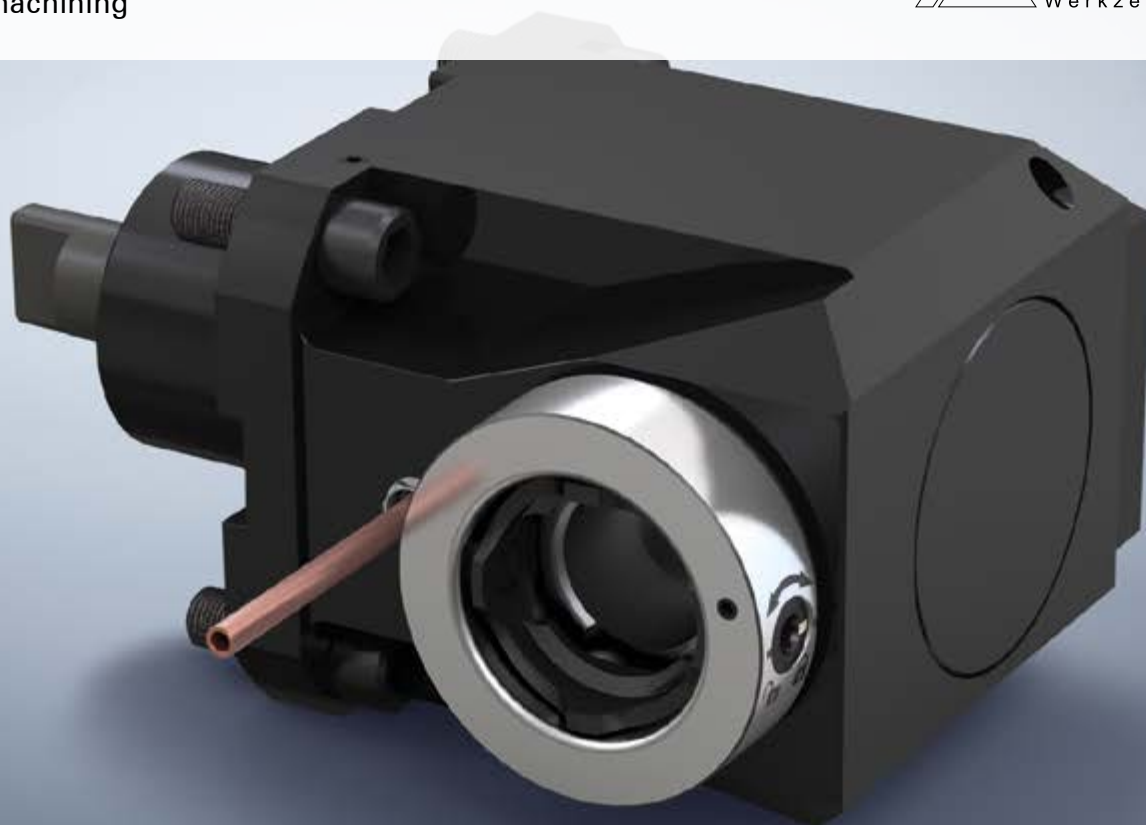


DMG MORI BMT60

Live Tools & Static Holder

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.

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BENZ GMBH

WERKZEUGSYSTEME

FOR DMG MORI BMT MACHINES
EXCERPT PRODUCT RANGE



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



BMT 60

Live Tools | Static Holders



LIVE TOOLS



AXIAL

6



RADIAL

7



RADIAL, DOUBLE

8



ADJUSTABLE

9



BROACHING UNIT
BENZ LinA 4.0

10

STATIC HOLDERS



STANDARD

12



BENZ CAPTO™

13

LIVE TOOL – BMT 65 AXIAL

TECHNICAL DATA



OUTPUT SPINDLES



BENZ Solidfix®



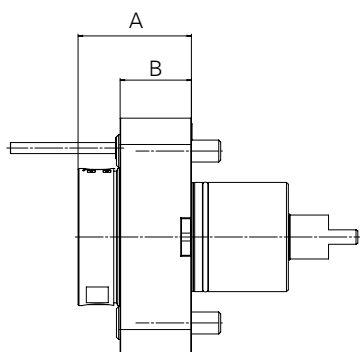
Collet chuck System ER
DIN 6499



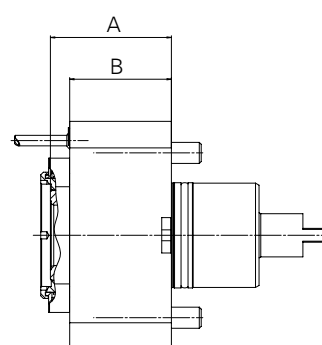
BENZ CAPTO™

i Other output spindles available upon request

BENZ Solidfix® / Collet chuck



BENZ CAPTO™



Output spindle	Technical Data								
	Size Spindle	i	EC	IC*	$n_{1\max} / n_{2\max}$ [rpm]	$M_{1\max} / M_{2\max}$ [Nm]	A_{\max} [mm]	B [mm]	Order No.
BENZ Solidfix®	S5	1:1	✓		6000 / 6000	100 / 100	62	39	115DA03500S5
	S5	1:1	✓	✓	6000 / 6000	100 / 100	62	39	115EA03500S5
Collet chuck	ER40A	1:1	✓		6000 / 6000	100 / 100	80	55	115DA03551E7A
	ER40A	1:1	✓	✓	4500 / 4500	100 / 100	84,9	55	115EA03551E7A
BENZ CAPTO™	C5	1:1	✓		6000 / 6000	100 / 100	74,5	58	115DA03500L5B
	C5	1:1	✓	✓	6000 / 6000	100 / 100	89,5	72,5	115EA03500L5B

*Internal Cooling $p_{\max} = 50$ bar

LIVE TOOL – BMT 65 RADIAL

TECHNICAL DATA



LENGTH L1

90

OUTPUT SPINDLES



BENZ
Solidfix®



Collet chuck
System ER
DIN 6499



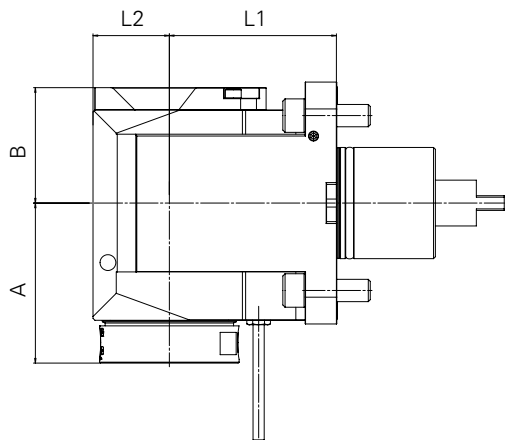
BENZ
CAPTO™



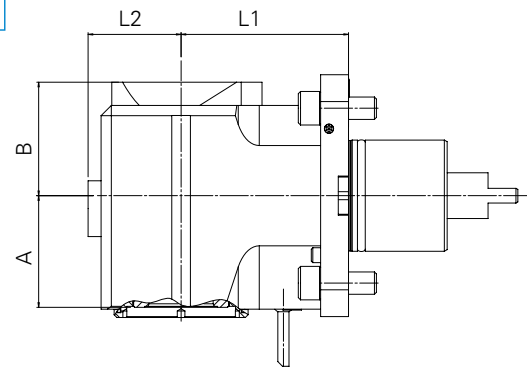
Other output spindles
available upon request



BENZ Solidfix® / Collet chuck



BENZ CAPTO™



Output spindle	Size Spindle	i	EC	IC*	$n_{1\max} / n_{2\max}$ [rpm]	$M_{1\max} / M_{2\max}$ [Nm]	A_{\max} [mm]	B [mm]	L1 [mm]	L2 [mm]	Order No.
BENZ Solidfix®	S5	1:1	✓	-	6000 / 6000	150 / 150	86	62	90	41	115FAX03559S5D
	S5	1:1	✓	✓	6000 / 6000	150 / 150	86	68	90	41	115GAX03559S5D
Collet Chuck	ER40A	1:1	✓	-	6000 / 6000	150 / 150	81,5	62	90	41	115FAX03559E7AD
	ER40A	1:1	✓	✓	6000 / 6000	150 / 150	86,4	68	90	41	115GAX03559E7AD
BENZ CAPTO™	C5	1:1	✓	-	6000 / 6000	150 / 150	65,5	61	90	50	115FAX03559L5BD
	C5	1:1	✓	✓	6000 / 6000	150 / 150	65,5	67,5	90	50	115GAX03559L5BD

*Internal Cooling $p_{\max} = 100$ bar

LIVE TOOL – BMT 65 RADIAL, DOUBLE

TECHNICAL DATA



LENGTH L1

90

OUTPUT SPINDLES



BENZ
Solidfix®



Collet chuck
System ER
DIN 6499

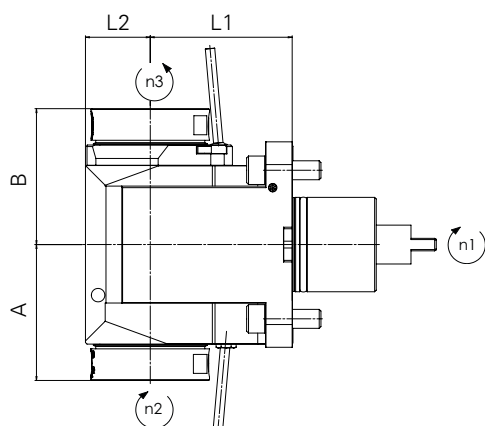
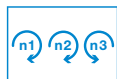


BENZ
CAPTO™

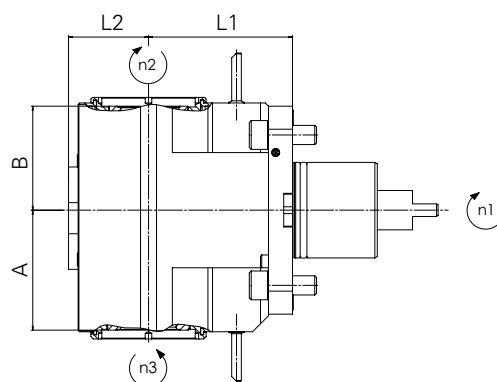
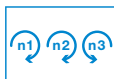
i Other output spindles
available upon request



BENZ Solidfix® / Collet chuck



BENZ CAPTO™



Technical data

Output spindle	Size Spindle	i	EC	IC*	$n_{1\max} / n_{2\max}$ [rpm]	$M_{1\max} / M_{2\max}$ [Nm]	A_{\max} [mm]	B [mm]	L1 [mm]	L2 [mm]	Order No.
BENZ Solidfix®	S5	1:1	✓		6000 / 6000	150 / 150	86	63	90	41	115FAX03559S52
Collet Chuck	ER40A	1:1	✓		6000 / 6000	150 / 150	81,5	63	90	41	115FAX03559E7A2
BENZ CAPTO™	C5	1:1	✓		6000 / 6000	150 / 150	80,5	70,5	90	50	115FAX03500L5BD2

*Innenkühlung $p_{\max} = 100$ bar

LIVE TOOL – BMT 65

ADJUSTABLE

TECHNICAL DATA



OUTPUT SPINDLE

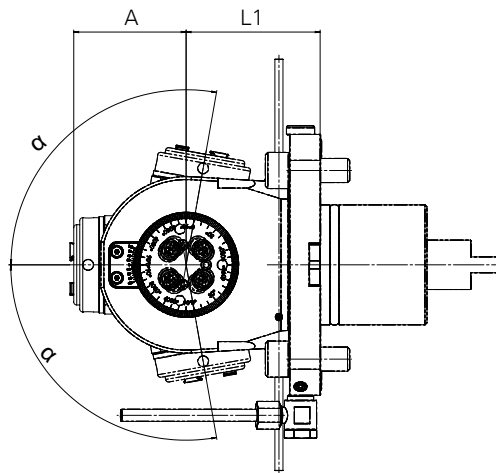


Collet chuck
System ER
DIN 6499

i Other output spindles
available upon request



Collet chuck



Technical data										
	Size	i	EC	IC*	$n_{1\max} / n_{2\max}$	$M_{1\max} / M_{2\max}$	A_{\max}	L1	alpha	Order No.
Output spindle	Spindle				[rpm]	[Nm]	[mm]	[mm]	[°]	
Collet Chuck	ER25A	1:0,816	✓	-	6000 / 4900	32 / 39	57,9	67	100	115FDX03549E5A
	ER25A	1:0,816	✓	✓	6000 / 4900	32 / 32	62,9	67	100	115GDX03549E5A

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

LIVE TOOL – BMT 65

RADIAL, BROACHING UNIT - BENZ LINA 4.0

TECHNICAL DATA



i.com



LENGTH L1

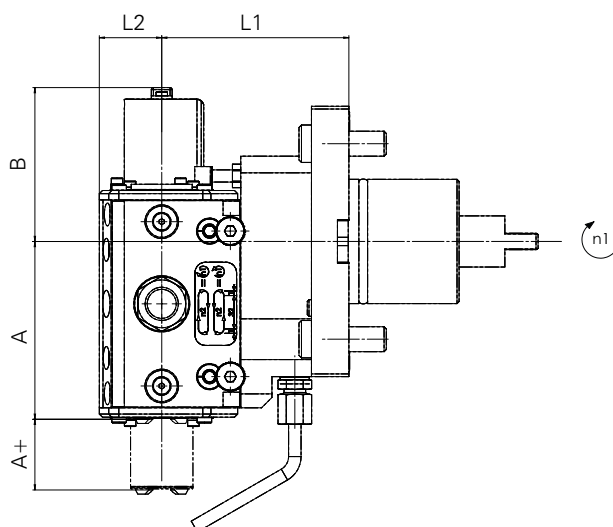
90

OUTPUT SPINDLE



Prism-shaped
profile
Ø 30 mm

i Industry 4.0 ready
Contact the BENZ Sales Team



Performance data

Type	$n_{1\max} / *n_{2\max}$ [rpm / min ⁻¹]	$M_{1\max} / F_{c\max}$ [Nm]	f [mm]	Groove width _{max} [mm]
GS	3000 / 1500	15 / 1700	0,02 - 0,10	12
GSL	2000 / 1000	23 / 1700	0,02 - 0,10	12

Technical Data

Type	Size Plunger	i	EC	IC	**Stroke [mm]	A [mm]	A+ [mm]	B [mm]	L1 [mm]	L2 [mm]	Order No.
GS	30	2:1	✓	✓	32	86,5	33	74	90	30	115GS03502B2D-90-IB
GSL	30	2:1	✓	✓	51	115,5	53	87,5	90	30	115GSL03508B2D-90-IB















*number of double stroke per minute

**usable working stroke

OVERVIEW

PICTOGRAMS & ABBREVIATIONS

UNIT SPECIFICATIONS


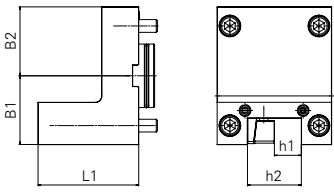
Type of machining				
	Drilling The unit is suitable for boring machining	Milling The unit is suitable for milling machining	Threading The unit is suitable for thread machining	Broaching and slotting The unit is suitable for machining by broaching and slotting
Number of output spindles (tool holding fixtures)				
	1 The unit has one output spindle	2 The unit has two output spindles		
Axis angle				
	0° Unit for machining tasks at a 0° angle	90° Unit for machining tasks at a 90° angle	± 0 Unit for machining tasks at an adjustable angle 0° ± max. α°	
Drive for spindle Direction of rotation				
	clockwise / clockwise synchronized rotation	clockwise / counterclockwise counter-rotation	clockwise / clockwise / counterclockwise synchronized and counterrotation	
Coolant feed for cutting blade				
	Extern (EC) The tool is cooled using an external feed line (spray nozzle)	Combination (EC+IC) The tool is cooled by a combination of both internal and external systems		

ABBREVIATIONS


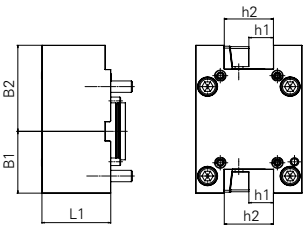
M_{max}	Maximum torque
i	Gear ratio
n_{max}	Maximum speed
p_{max}	Maximum pressure (bar)
EC	External cooling
IC	Internal cooling
p.	Page
✓	Possible
-	Not possible
SW	Width across flats
mm	Millimeter

STATIC HOLDERS – BMT 65


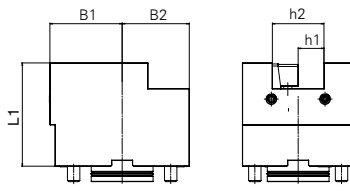
O.D. TURNING TOOL | SINGLE

Model	Drawing	Technical data					EC	Order No.
		h1 [mm]	h2 [mm]	L1 [mm]	B1 [mm]	B2 [mm]		
		25	50	95	40	90	✓	115A035560003


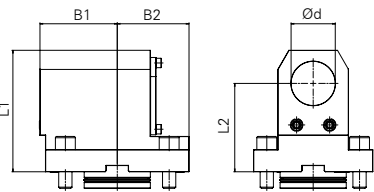
O.D. TURNING TOOL | 2 TOOLS - MAIN & SUB SPINDLE

Model	Drawing	Technical data					EC	Order No.
		h1 [mm]	h2 [mm]	L1 [mm]	B1 [mm]	B2 [mm]		
		25	50	70	90,5	65	✓	115A035567001


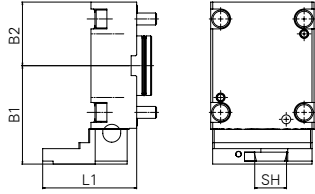
FACE AND I.D. TURNING TOOL | SINGLE

Model	Drawing	Technical data					EC	Order No.
		h1 [mm]	h2 [mm]	L1 [mm]	B1 [mm]	B2 [mm]		
		25	50	100	70	65	✓	115A035559001


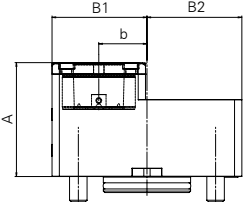
BORING BAR HOLDER | SINGLE

Model	Drawing	Technical data						Order No.
		Ød [mm]	L1 [mm]	L2 [mm]	B1 [mm]	B2 [mm]	EC IC	
		40	110	80	70	65	✓ ✓	115A035578001


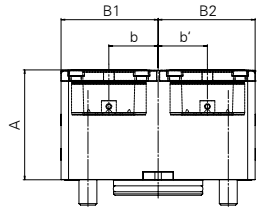
CUT-OFF HOLDER

Model	Drawing	Technical data					Order No.
		SH [mm]	L1 [mm]	B1 [mm]	B2 [mm]	EC	
		32	94,6	99	65	✓	115A035583001


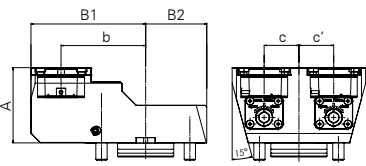
AXIAL HOLDER | SINGLE - BENZ CAPTO™

Model	Drawing	Technical data					Order No.	
		Size Adapter [mm]	A [mm]	b [mm]	B1 [mm]	B2 [mm]		IC
		C5	78	33	65	65	✓	115AV035L5BDU-78

AXIAL HALTER | 2 TOOLS - BENZ CAPTO™ - MAIN & SUB SPINDLE


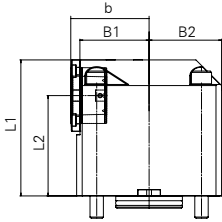
Model	Drawing	Technical data					Order No.	
		Size Adapter [mm]	A [mm]	b / b' [mm]	B1 [mm]	B2 [mm]		IC
		C5	78	33	65	65	✓	115AV035L5BD2U-78

AXIAL HALTER | 2 TOOLS - BENZ CAPTO™ Y


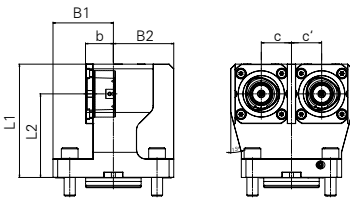
Model	Drawing	Technical data						Order No.	
		Size Adapter [mm]	A [mm]	b [mm]	B1 [mm]	B2 [mm]	c / c' [mm]		IC
		C5	80	90	122	65	37	✓	115AV035L5BS0676

STATIC HOLDERS – BMT 65


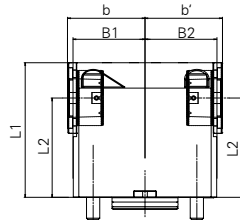
RADIAL HOLDER | SINGLE - BENZ CAPTO™

Model	Drawing	Technical data						Order No.	
		Size Adapter [mm]	L1 [mm]	L2 [mm]	b [mm]	B1 [mm]	B2 [mm]		IC
		C5	122	90	70	65	65	✓	115AP035L5BDU-90

RADIAL HOLDER | 2 TOOLS - BENZ CAPTO™ Y

Model	Drawing	Technical data							Order No.	
		Size Adapter [mm]	L1 [mm]	L2 [mm]	b [mm]	B1 [mm]	B2 [mm]	c / c' [mm]		IC
		C5	122	90	30	65	65	32,5	✓	115AR035L5BS0750

RADIAL HOLDER | 2 TOOLS - BENZ CAPTO™ - MAIN & SUB SPINDLE

Model	Drawing	Technical data						Order No.	
		Size Adapter [mm]	L1 [mm]	L2 [mm]	b / b' [mm]	B1 [mm]	B2 [mm]		IC
		C5	122	90	70	65	65	✓	115AR035L5B2U-90

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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 2004/108/EC on electromagnetic compatibility. The protective goals of EC Directive 2006/95/EC regarding electronic equipment have been met.

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