MODULAR QUICK CHANGE SYSTEMS

BENZ Solidfix® | BENZ CAPTO™

Tooling Technology

Metal | Wood | Composites machining

BENZ
TOOLING

At BENZ Tooling 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 metal machining, woodworking and composite material processing for more than 75 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.

INNOVATION. With an eye on what is currently within the bounds of feasibility, we strive to always make use of innovative technologies. And we keep in close contact with our customers to ensure we already know today what our customers will need tomorrow. Technical progress is ingrained into our very identity. This means you can always find smart, detailed solutions in our product range.

PRECISION. We ensure our products have the highest level of precision and reliability. This is vital in our industry. Our customers also rely on absolute precision during production – and need to be able to put all their trust in us. But production is not the only area where we strive for precision. We also seek minimal tolerances and maximum accuracy in other areas as well – from development to sales to delivery.

PASSION. BENZ precision products are composed of a vast array of different individual parts. They are the result of great care that starts in the design phase and even includes the selection of raw materials. Primarily, however, they are the expression of our employee‘s experience and passion to do good work. We are tool specialists through and through and we are willing to move mountains to reach the perfect solution and to ensure the satisfaction of our customers.

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SYSTEM BENEFITS
BENZ SOLIDFIX® | BENZ CAPTO™

AN INVESTMENT WORTH MAKING

Beside higher rpms and higher accuracy the reduction of setup and machine downtimes is the main focus in the manufacturing industry. A crucial component is the integration of a modular tool interface.

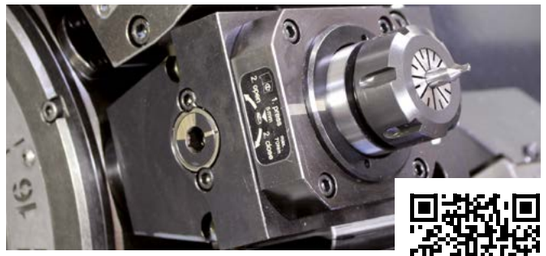
The basic principle and key advantage is that the tool adapters can be preset outside the machine during the machining process. The preset adapters are ready-to-use and can be changed very quickly on the basic unit once needed.

As a customer, you enhance the operating times of your machine and save costs at the same time. Thanks to the modular design, only the adapters need to be changed – the basic tool remains on the machine. Additionally the purchase of extra units can be reduced to a minimum.

Using BENZ Solidfix® and BENZ CAPTO™ you benefit from two of the most advanced, sophisticated and efficient modular quick change sytems in the world.

BENZ SOLIDFIX®

BENZ CAPTO™



PERFORMANCE. PRECISION. HANDLING. SAFETY.

Minimize setup & non-productive time

increase productivity by changing the preset tool within seconds

Low investment overhead

angle head remains on the machine and only the adapter needs to be changed; fewer angle heads are needed overall

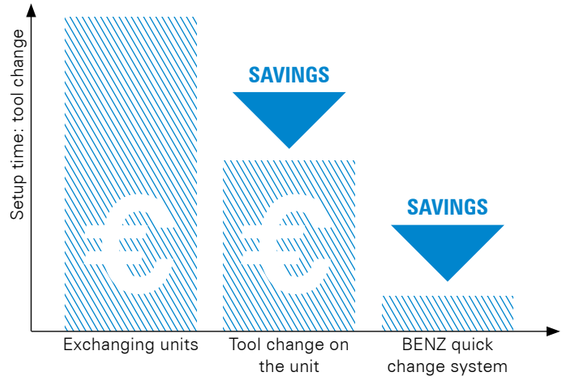
Easy handling

one-hand operation without a special tool

Oprating safety

cannot come off accidentally

REDUCE SETUP TIME AND SAVE COSTS WITH BENZ QUICK CHANGE SYSTEMS



A tool change, during which the entire unit is removed from the machine, results in high machine downtimes. By changing the cutting tool directly on the unit, setup costs can already be reduced by 40%.

This savings can be extended with modular quick-change systems. Here the cutting tool is measured outside the machine in the presetting device. Therefore replacing the adapter only requires a few seconds.

You save 90% of your original setup costs! Additionally you reduce your reject rate as the first part is already a good part.

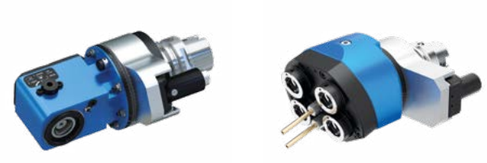
CAN BE USED ON ALL COMMON MACHINES

Are you looking for a quick change system that can be used in all areas of your production? The modular quick change systems made by BENZ Tooling can be used with Live Tools as well as angle heads, even multi-spindle heads.

BENZ Solidfix® and BENZ CAPTO™ are not only suited for large batch manufacturing but are especially cost effective when machines have to be re-tooled frequently due to manufacture of small lots or specialty parts. You save time and money.

Lathes

Machining centers



BENZ SOLIDFIX®

userfriendly, stable and very precise

PRODUCT BENEFITS, SYSTEM DESIGN, TOOL CHANGE 08

ADAPTER

COLLET CHUCK 12
8° Type ER

WELDON 13
for parallel shanks DIN1835B

WHISTLE-NOTCH 14
for parallel shanks DIN1835E

MILLING ARBOR 14

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on arbor

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Plunge mill cutter

TAPPING CHUCK 17
Emuge

ADJUSTMENT AND ASSEMBLY AID

MASTER SHANKS 18
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HSK Form A ISO 12164
SK DIN 69871 AD
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MOUNTING BLOCK 19

MISCELLANOUS

TEST MANDREL 20

REDUCING SLEEVE 20

CLOSING PLUG 20

BLANK 21

MODUALR QUICK CHANGE SYSTEM
BENZ SOLIDFIX®

USER FRIENDLY, STABLE AND VERY PRECISE

By combining taper concentricity with no backlash with an extremely large planar surface, combined with high torque, BENZ Solidfix® offers a maximum in stability and rigidity, which is even capable of withstanding the demands of milling. The high torque transmission and the highest possible rpms also stress the effectiveness.

This is supported by a special clamping mechanism which works centrally, without lateral forces, which in combination with the compact, highly precise components used achieves optimal values for concentricity, rigidity and accuracy in repeatability. Because of its compact design the system is ideal for tools with internal cooling.

PRODUCT BENEFITS

Performances

+ compact design
+ arge planar contact surface
+ high rigidity (milling capable)
+ high transmission of torque
+ high speed (balancing-neutral design)

Precision

+ high concentricity: < 5 µm at 30 mm
+ high repeatability
+ central, cross-force-free transmission of forces
+ play-free centering of taper

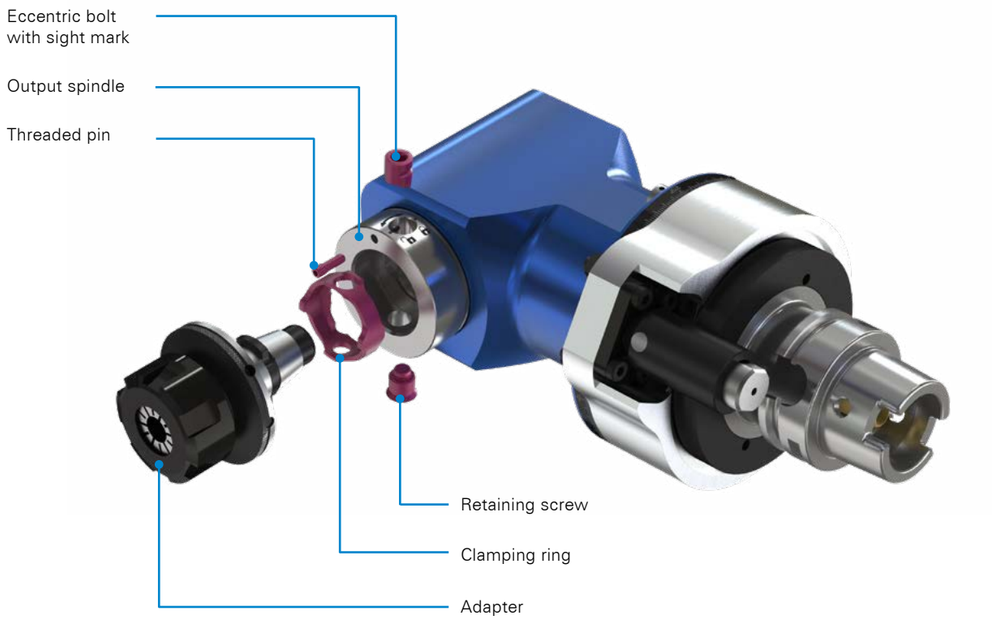
Handling

+ quick change: change in < 20 seconds
+ one-hand operation
+ simple handling without the need of special tools
+ resistance controlled clamping (180°)
  > no need to observe torque
+ ejection feature

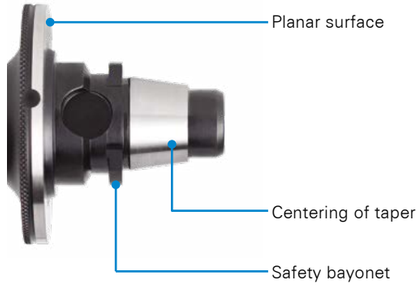
Safety

+ securing device via safety bayonet
+ self-locking clamp function
+ avoidance of operating errors
+ fullfills machinery directive 2006/42/EG

SYSTEM DESIGN



ADAPTER



SYSTEM OVERVIEW

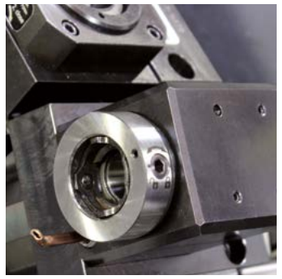
	Technical data	
	T*	Size
Size	[Nm]	Inbus wrench
S1	25	SW 3
S2	50	SW 4
S3	100	SW 5
S4	200	SW 6
S5	400	SW 6

*transmittable tourque of interface

IC-capable

MQL-cabable
Adapter on request

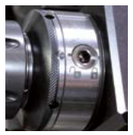
TOOL CHANGE
BENZ SOLIDFIX®



Step 1: get used to the system

In order to change an adapter in the angle head / live tool the operation unit needs to be in the loosed position.

Loose position: marking is sitting on open lock



Clamped position: marking is sitting on closed lock

Step 2: inserting the adapter

Insert the adapter into the tool spindle. Turn the adapter by 90°. The adapter cannot fall out due to a special safety mechanism which holds the tool in place, even if not clamped yet. This prevents injuries during setup of the tools in the machine.

Step 3: resistance controlled clamping

The modular quick change system BENZ Solidfix® can be operated with just one hand without any special tools – a standard hex key is sufficient. By simply turning the clamping screw 180 degrees (up to its end position) the tool adapter (meaning the tool) is clamped.

Step 4: loosening and changing the adapter

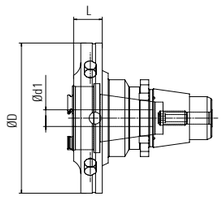
After loosening the locking mechanism with a hex key and turning the tool adapter 90 degrees (a bayonet style safety mechanism prevents the tool from falling out after opening the lock) the adapter can be removed.

A specialized eject feature ensures that the adapter does not get stuck in the spindle. The tool change can be done in less than 20 seconds.

ADAPTER
BENZ SOLIDFIX®

● PC Metal ● PC Wood ● on stock ○ on request

COLLET CHUCK 8° TYPE ER | INTERNAL CLAMPING NUT

Model	Drawing	Technical data Size	Type	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S1	ER11	32	1-7	9	●	●	691.130E1A09
		S2	ER16	40	1-10	13	●	●	692.130E3A13
		S3	ER16	50	1-10	10	●	●	693.130E3A10
		S3	ER20	50	2-13	14	●	●	693.130E4A14
		S4	ER16	63	1-10	11	●	●	694.130E3A11
		S4	ER20	63	2-13	12	●	●	694.130E4A12
		S4	ER25	63	2-16	20	●	●	694.130E5A20
		S5	ER32	75	2-20	22	●	●	695.130E6A22

collet chuck not included

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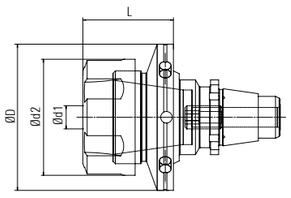
COLLET CHUCK 8° TYPE ER | EXTERNAL CLAMPING NUT

Model	Drawing	Technical data Size	Type	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S1	ER11M	32	1-7	16	20	●	●	691.130M120
		S1	ER16M	32	1-10	22	30	●	●	691.130M230
		S2	ER20M	40	2-13	28	31	●	●	692.130M331
		S2	ER20	40	2-13	34	31	●	●	692.130E431
		S3	ER16M	50	1-10	22	32	●	●	693.130M232
		S3	ER20	50	2-13	34	30	●	●	693.130E430
		S3	ER25	50	2-16	42	34	● ●	●	693.130E534
		S3	ER32	50	2-20	50	48	●	●	693.130E648
		S4	ER16M	63	1-10	22	30	●	●	694.130M232
		S4	ER25	63	2-16	42	35	●	●	694.130E535
		S4	ER32	63	2-20	50	39	●	●	694.130E639
		S5	ER32	75	2-20	50	40	●	●	695.130E640
		S5	ER40	75	3-26	63	46	●	●	695.130E746

collet chuck not included

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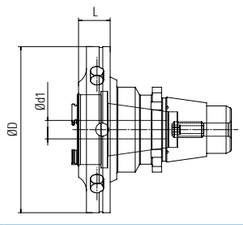
ULTRA-PRECISION COLLET CHUCK 8° TYPE ER | INTERNAL CLAMPING NUT

Model	Drawing	Technical data Size	Type	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S1	ER 16M	32	1-10	30	●	○	691.130M230UP
		S2	ER 16	40	1-10	13	●	○	692.130E3A13UP
		S3	ER 20	50	2-13	14	●	○	693.130E4A14UP
		S4	ER 25	63	2-16	20	●	○	694.130E5A20UP
		S5	ER 32	75	2-20	22	●	○	695.130E6A22UP

UP-collet chucks: differ versus standard collet chucks by being extremely precise for high speed machining

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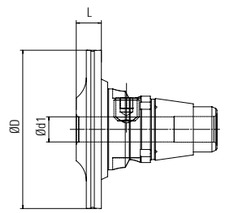
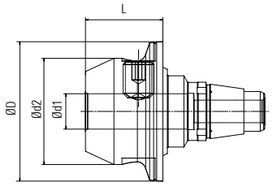
WELDON FOR PARALLEL SHANKS DIN 1835 B | SHORT DESIGN

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S1	32	3	4	●	○	691.1400304
		S1	32	4	5	●	○	691.1400405
		S2	40	4	5	●	○	692.1400405
		S2	40	6	7	●	○	692.1400607
		S3	50	6	6	●	●	693.1400606
		S3	50	8	8	●	●	693.1400808
		S4	63	6	7	●	●	694.1400607
		S4	63	8	8	●	●	694.1400808
		S4	63	10	10	●	●	694.1401010
		S4	63	12	12	●	●	694.1401212
		S5	75	6	10	●	●	695.1400610
		S5	75	8	10	●	●	695.1400810
		S5	75	10	10	●	●	695.1401010
		S5	75	12	10	●	●	695.1401210
		S5	75	14	12	●	○	695.1401412
		S5	75	16	12	●	●	695.1401612

minimum construction length

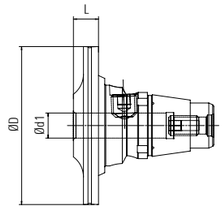
WELDON FOR PARALLEL SHANKS DIN 1835 B | STANDARD DESIGN

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S1	32	6	25	24	●	○	691.1400624
		S2	40	8	28	25	●	○	692.1400825
		S3	50	10	35	28	● ●	●	693.1401028
		S3	50	12	42	32	● ●	●	693.1401232
		S3	50	16	48	35	● ●	●	693.1401635
		S4	63	14	48	32	●	●	694.1401432
		S4	63	16	48	35	●	●	694.1401635
		S4	63	18	50	35	●	○	694.1401835
		S4	63	20	52	38	●	●	694.1402038
		S4	63	25	63	52	●	○	694.1402552
		S5	75	18	50	36	●	○	695.1401836
		S5	75	20	52	38	●	●	695.1402038
		S5	75	25	65	40	●	●	695.1402540

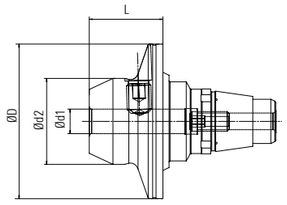
ADAPTER
BENZ SOLIDFIX®

PC Metal · PC Wood · on stock · on request

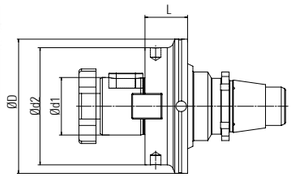
WHISTLE NOTCH PARALLEL SHANKS DIN 1835 E | SHORT DESIGN

Model	Drawing	Size	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S2	40	6	9	●	○	692.1410609
		S3	50	6	6	●	○	693.1410606
		S3	50	8	8	●	○	693.1410808
		S4	63	6	7	●	○	694.1410607
		S4	63	8	8	●	○	694.1410808
		S4	63	10	10	●	○	694.1411010
		S4	63	12	12	●	○	694.1411212
		S5	75	6	10	●	○	695.1410610
		S5	75	8	10	●	○	695.1410810
		S5	75	10	10	●	○	695.1411010
		S5	75	12	10	●	○	695.1411210
		S5	75	14	12	●	○	695.1411412
		S5	75	16	12	●	○	695.1411612

WHISTLE NOTCH FOR PARALLEL SHANKS DIN 1835 E | STANDARD DESIGN

Model	Drawing	Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S1	32	6	25	24	●	○	691.1410624
		S2	40	8	28	25	●	○	692.1410825
		S3	50	10	35	28	●	○	693.1411028
		S3	50	12	42	32	●	○	693.1411232
		S3	50	16	48	35	●	○	693.1411635
		S4	63	14	48	32	●	○	694.1411432
		S4	63	16	48	35	●	○	694.1411635
		S4	63	18	50	35	●	○	694.1411835
		S4	63	20	52	38	●	○	694.1412038
		S5	75	18	50	36	●	○	695.1411836
		S5	75	20	52	38	●	○	695.1412038
		S5	75	25	65	40	●	○	695.1412540

MILLING ARBOR

Model	Drawing	Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S2	40	16	34	11	●	●	692.2311611
		S3	50	16	34	12	●	○	693.2311612
		S3	50	22	48	14	●	●	693.2312214
		S4	63	16	34	14	●	○	694.2311614
		S4	63	22	48	14	●	●	694.2312214
		S4	63	27	55	14	●	●	694.2312714
		S5	75	22	48	12	●	○	695.2312212
		S5	75	27	55	14	●	●	695.2312714
		S5	75	32	62	15	●	○	695.2313215

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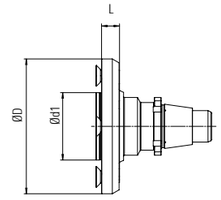
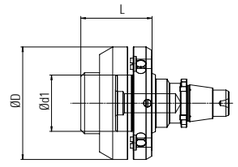
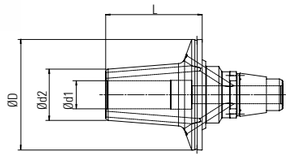
SAW BLADE HOLDER | SCREWED

Model	Drawing	Size	ØTK/M	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S3	45 / 5 48 / 5 52 / 5	60	30	8	●	●	693.04030S0561
		S3	52 / 5	60	40	8	●	○	693.04040S0414

SAW BLADE HOLDER | ON ARBOR

Model	Drawing	Size	Length [mm]	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S3	1-6	60	30	38	●	●	693.040SD38

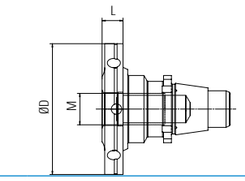
SHRINK FIT CHUCK | ONE-PIECE

Model	Drawing	Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S3	50	6	21	45	●	●	693.1520645KB
		S3	50	8	21	45	●	●	693.1520845KB
		S3	50	10	24	50	●	●	693.1521050KB
		S3	50	12	24	55	●	●	693.1521255KB
		S4	63	6	21	50	●	●	694.1520650KB
		S4	63	8	21	50	●	●	694.1520850KB
		S4	63	10	24	50	●	●	694.1521050KB
		S4	63	12	24	55	●	○	694.1521255KB
		S4	63	14	29	55	●	○	694.1521455KB
		S4	63	16	29	55	●	●	694.1521655KB
		S4	63	20	33	60	●	○	694.1522060KB
		S5	75	6	21	55	●	○	695.1520655KB
		S5	75	8	21	55	●	○	695.1520855KB
		S5	75	10	24	55	●	○	695.1521055KB
		S5	75	12	24	60	●	○	695.1521260KB
		S5	75	20	33	65	●	○	695.1522065KB
		S5	75	25	44	70	●	○	695.1522570KB

ADAPTER
BENZ SOLIDFIX®

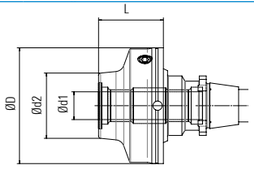
● PC Metal ● PC Wood ● on stock ○ on request

SCREW-IN MILL CUTTER – BASE HOLDER | SHORT DESIGN

Model	Drawing	Technical data Size	ØD [mm]	M [mm]	L [mm]	Product center	Availability	Order number
		S3	50	M10	8	●	○	693.2861008
		S3	50	M12	8	●	○	693.2861208
		S4	63	M12	9	●	○	694.2861209
		S4	63	M16	9	●	○	694.2861609
		S5	75	M12	10	●	○	695.2861210
		S5	75	M16	10	●	○	695.2861610

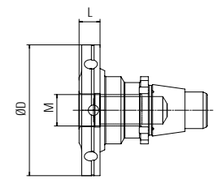
base holder fits all standard threaded arbors (e.g. Seco, Kennametal)

HYDRO CLAMPING CHUCK | ONE-PIECE

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		S3	50	6	28	18	●	●	693.1580618
		S3	50	10	28	23	●	●	693.1581023
		S3	50	12	28	28	●	●	693.1581228
		S4	63	06	28	20	●	●	694.1580620
		S4	63	12	28	28	●	●	694.1581228
		S4	63	20	28	42	●	●	694.1582042
		S5	75	16	38	30	●	○	695.1581630
		S5	75	20	38	30	●	●	695.1582030

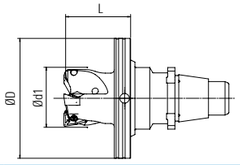
two-part version with Hydrostar-insert on request

SCREW-IN MILL CUTTER – BASE HOLDER | SHORT DESIGN – HAIMER DUOLOCK

Model	Drawing	Technical data BENZ Solidfix	Haimer Duolock	ØD [mm]	M [mm]	L [mm]	Product center	Availability	BENZ Order number	HAIMER Order number
		S3	DL10	50	M10	8	●	○	693.2871008	75.SFS3.DL10.080
		S3	DL12	50	M12	8	●	○	693.2871208	75.SFS3.DL12.080
		S3	DL16	50	M16	8	●	○	693.2871608	75.SFS3.DL16.080
		S4	DL12	63	M12	9	●	○	694.2871209	75.SFS4.DL12.080
		S4	DL16	63	M16	9	●	○	694.2871609	75.SFS4.DL16.080
		S4	DL20	63	M20	9	●	○	694.2872009	75.SFS4.DL20.080
		S5	DL16	75	M16	10	●	○	695.2871610	75.SFS5.DL16.080
		S5	DL20	75	M20	10	●	○	695.2872010	75.SFS5.DL20.080
		S5	DL25	75	M25	10	●	○	695.2872510	75.SFS5.DL25.080

base holder fits all standard threaded arbors (e.g. Seco, Kennametal)

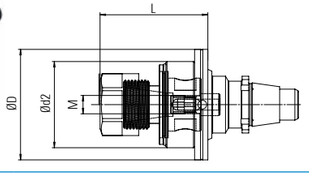
SQUARE SHOULDER | PLUNGE MILL

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S3	50	25	28	●	○	693.6502528S001
		S4	63	32	33	●	○	694.6503233S001

cooperation with Horn

Indexable inserts not included in scope of supply / can be supplied by Paul Horn GmbH (Type DA32)

TAPPING CHUCK | EMUGE

Model	Drawing	Technical data Size	Type	ØD [mm]	Ød2 [mm]	M [mm]	L* [mm]	Product center	Availability	Order number
		S3	ER16	50	39	4-12	48,8	●	○	693.177E348
		S4	ER16	63	39	4-12	53,7	●	○	694.177E348
		S4	ER32	63	45	4-20	81	●	○	694.177E686

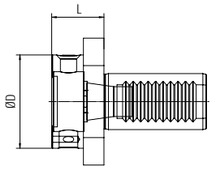
* ±0,05

Accessories page 32

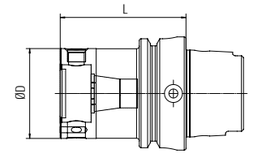
ADJUSTMENT AND ASSEMBLY AID
BENZ SOLIDFIX®

● PC Metal ● PC Wood ● on stock ○ on request

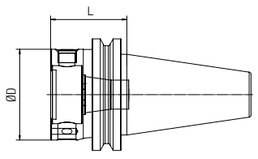
MASTER SHANK – BASE HOLDER | VDI

Model	Drawing	Technical data Size	Type	ØD [mm]	L [mm]	IK	Product center	Availability	Order number
		S1	VDI 20	32	22		●	○	112.251S1022VE
		S2	VDI 25	40	25		●	○	325.251S2025VE
		S3	VDI 30	50	25		●	○	113.251S2025VE
		S3	VDI 30	50	32	✓	●	●	113.251S3032R
		S4	VDI 40	63	28		●	○	114.251S3028VE
		S4	VDI 40	63	30		●	○	114.251S4030VE
		S4	VDI 40	63	32	✓	●	●	114.251S4032R
		S5	VDI 50	75	32		●	○	115.251S5032VE
		S5	VDI 50	75	35	✓	●	○	115.251S5035R

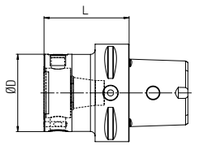
MASTER SHANK | HSK

Model	Drawing	Technical data Size	Type	ØD [mm]	L [mm]	Product center	Availability	Order number
		S1	HSK 63-A	32	55	●	○	711.251S1055VE
		S2	HSK 63-A	40	62	●	○	711.251S2062VE
		S3	HSK 63-A	50	70	●	●	711.251S3070VE
		S4	HSK 63-A	63	75	●	●	711.251S4075VE
		S5	HSK 63-A	75	80	●	○	711.251S5080VE
		S3	HSK 63-F	50	70	●	○	727.251S3070VE
		S4	HSK 100-A	63	80	●	○	713.251S4080VE
		S5	HSK 100-A	75	90	●	○	713.251S5090VE

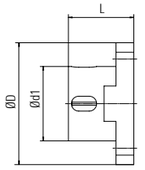
MASTER SHANK | SK

Model	Drawing	Technical data Size	Type	ØD [mm]	L [mm]	Product center	Availability	Order number
		S1	SK 30	32	30	●	○	090.251S1030VE
		S2	SK 30	40	40	●	○	090.251S2040VE
		S3	SK 40	50	42	●	●	040.251S3042VE
		S4	SK 40	63	55	●	○	040.251S4055VE
		S3	SK 50	50	37	●	○	042.251S3037VE
		S4	SK 50	63	40	●	○	042.251S4040VE
		S5	SK 50	75	52	●	○	042.251S5052VE

MASTER SHANK | CAPTO

Model	Drawing	Technical data Size	Type	ØD [mm]	L [mm]	Product center	Availability	Order number
		S3	C6	50	55	●	○	533.251S3055VE
		S4	C6	63	57	●	○	533.251S4057VE
		S5	C8	63	60	●	○	534.251S4060VE
		S6	C8	75	60	●	○	534.251S5060VE

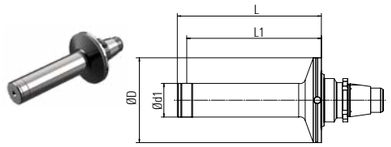
MOUNTING BLOCK

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	L [mm]	Product center	Availability	Order number
		S1	62	31	30	●	●	B300-4-S1
		S2	67	40	38	●	●	B300-4-S2
		S3	82	50	44	● ●	●	B300-4-S3
		S4	96	65	50	●	●	B300-4-S4
		S5	116	75	60	●	●	B300-4-S5

no integrated clamping mechanism

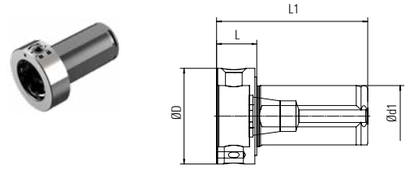
MISCELLANEOUS
BENZ SOLIDFIX®

TEST MANDREL

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	L [mm]	*L1 [mm]	Product center	Availability	Order number
		S1	32	12	55	50	●	○	691.2471255
		S2	40	16	68	63	●	○	692.2471668
		S3	50	20	87	80	●	●	693.2472087
		S4	63	25	107	100	●	●	694.24725107
		S5	75	32	134	125	●	●	695.24732134

scope of supply: test mandrel in case with test certificate
*Measuring point

REDUCING SLEEVE

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	L [mm]	L1 [mm]	Product center	Availability	Order number
		S2	40	25	17	65	●	○	B570-25S2
		S3	50	32	21	79	●	●	B570-32S3
		S4	63	40	22	94	●	●	B570-40S4

used for boring bars or combination holders

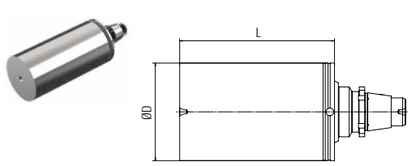
CLOSING PLUG

Model	Drawing	Technical data Size	ØD [mm]	L [mm]	Product center	Availability	Order number
		S1	32	3,5	●	○	691.581S
		S2	40	4	●	○	692.581S
		S3	50	5	●	●	693.581S
		S4	63	6	●	●	694.581S
		S5	75	8	●	●	695.581S

made of steel

● PC Metal ● PC Wood ● on stock ○ on request

BLANK

Model	Drawing	Technical data Size	ØD [mm]	L [mm]	Product center	Availability	Order number
		S1	32	63	●	○	691.1023263
		S2	40	80	●	○	692.1024080
		S3	50	100	● ●	●	693.10250100
		S4	63	125	●	●	694.10263125
		S5	75	160	●	●	695.10275160

BENZ CAPTO™

increase your efficiency and machining quality

PRODUCT BENEFITS, SYSTEM DESIGN, TOOL CHANGE 24

ADAPTER

COLLET CHUCK 28
8° Type ER

WELDON 28
for parallel shanks DIN1835B

MILLING ARBOR 29

MISCELLANEOUS

CLOSING PLUG 30

BLANK 30

MODUALR QUICK CHANGE SYSTEM
BENZ CAPTO™

INCREASE OF EFFICIENCY AND MACHINING QUALITY

The modular quick change system BENZ CAPTO™ guarantees an extremely compact desgin by being integrated into the spindle. Special clamping kinetics for clamping forces are noticeably below the required range of ISO / DIS 26623-2.

BENZ CAPTO™ can be used for milling, drilling and turning, with up to 100 bar coolant pressure. The system is especially suited for heavy duty milling and machining.

PRODUCT BENEFITS

Performance

+ compact design / short implementation
+ special clamping kinetics for clamping forces are
+ noticeably below the required range of ISO / DIS 26623-2
+ pressure of coolant up to 100 bar
+ ideal for heavy milling

Precision

+ stability and rigidity with high flexibility at the same time
+ compact shape guarantees high cutting speeds and surface quality

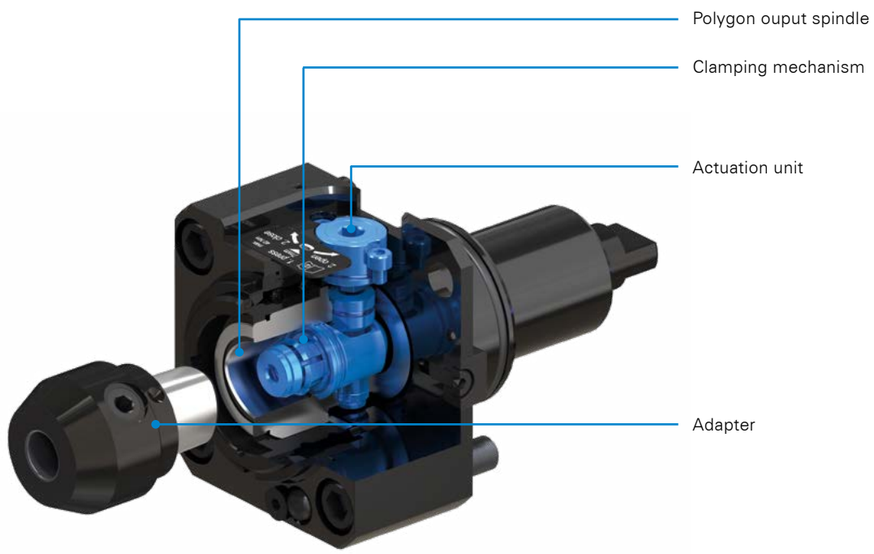
Handling

+ fast tool change with additional locking mechanism (ratcheted)
+ optically visible clamping position 100°
+ starting torque: 50 Nm (C4)

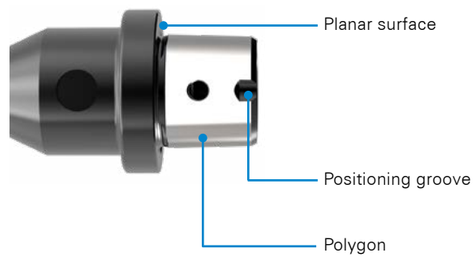
Safety

+ from 75 degrees onwards the clamping process is already so secure that the tool can be used in production
+ visual markings > correct clamping of the tool is easily seen
+ additional safety function > prevents uncontrolled falling out of the tool holder

SYSTEM DESIGN



ADAPTER



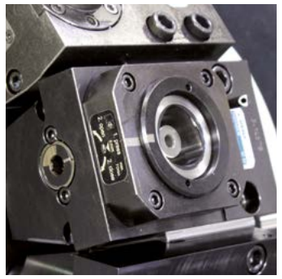
SYSTEMDATEN

	Technical data	
	T*	Size
Size	[Nm]	Inbus wrench
C3	250	SW 6
C4	500	SW 8
C5	1000	SW 10
C6	2000	SW 12

*transmittable tourque of interface

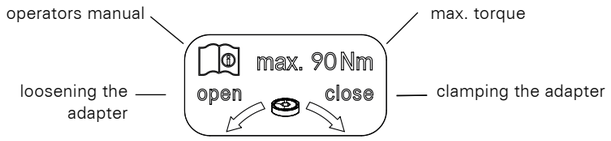
IC-capable

TOOL CHANGE
BENZ CAPTO™



Step 1: get used to the symbols

In order to change an adapter in the angle head / live tool the operation unit needs to be in the loosed position.



Step 2: cleaning of tool holder with compressed air

Clean the tool insert. Please note: only clean around the edges of the polygon. Never blow air centrally into the clamping mechanism!

Step 3: inserting the adapter

Inserting the adapter into the tool holder (in release position). The adapter is held in the base by a locking mechanism.

The locking mechanism holds the tool in the base

Step 4: align markings

Align the marks on the housing to the spindle. The adapter is held in the base by a locking mechanism.

Note: this step is only necessary for Live Tools. Static BENZ CAPTO™ tools have a fixed polygon position.

Step 5: clamping of the adapter

To do this press the mechanism and at the same time rotate by approx. 100 degree clockwise in the “close” direction. Optimal clamping force is achieved when applying the recommended torque. The tool is already clamped securely as soon as a 75 degree angle is achieved.

Step 6: loosening the adapter

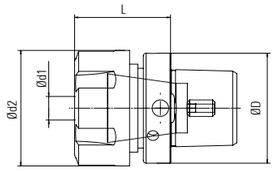
After the machining process, release the adapter again by first aligning the mark on the housing with the mark on the spindle. Then press the actuating unit. The adapter will be held in the tool after loosening until you take it out.

Note for clamping and un-clamping: for static BENZ CAPTO™ tools it is sufficient to simply rotate, no pressure needs to be applied.

ADAPTER
BENZ CAPTO™

PC Metal PC Wood on stock on request

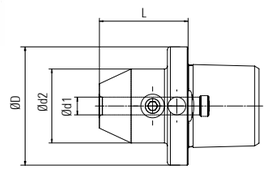
COLLET CHUCK 8° TYPE ER | EXTERNAL CLAMPING NUT

Model	Drawing	Technical data Size	Type	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		C3	ER11	32	1-7	19	22	●	●	550.130E122
		C3	ER16	32	1-10	28	30	●	●	550.130E330
		C3	ER20	32	2-13	34	35	●	●	550.130E435
		C3	ER25	32	2-16	42	44	●	●	550.130E544
		C4	ER16	40	1-10	28	27	●	○	551.130E327
		C4	ER20	40	2-13	34	32	●	○	551.130E432
		C4	ER25	40	2-16	42	35	●	●	551.130E535
		C4	ER32	40	2-20	50	52	●	●	551.130E652
		C5	ER16	50	1-10	28	29	●	○	552.130E329
		C5	ER25	50	2-16	42	34	●	○	552.130E534
		C5	ER32	50	2-20	50	41	●	○	552.130E641
		C5	ER40	50	3-26	63	58	●	○	552.130E758
		C6	ER32	63	3-26	63	40	●	○	553.130E640
		C6	ER40	63	3-26	63	46	●	○	553.130E746

without gripper groove

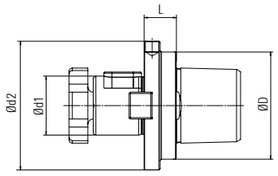
Accessories page 32

WELDON FOR PARALLEL SHANKS DIN 1835 B | STANDARD DESIGN

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		C3	32	6	25	33	●	●	550.1400633
		C3	32	8	28	33	●	●	550.1400833
		C3	32	10	35	37	●	●	550.1401037
		C3	32	12	42	42	●	●	550.1401242
		C3	32	14	44	43	●	○	550.1401443
		C3	32	16	48	51	●	●	550.1401651
		C4	40	6	25	30	●	●	551.1400630
		C4	40	8	28	30	●	●	551.1400830
		C4	40	10	35	34	●	●	551.1401034
		C4	40	12	42	39	●	●	551.1401239
		C4	40	14	44	39	●	○	551.1401439
		C4	40	16	48	43	●	●	551.1401643
		C4	40	18	50	43	●	○	551.1401843
		C4	40	20	52	45	●	●	551.1402045
		C5	50	6	25	29	●	○	552.1400629
		C5	50	8	28	29	●	○	552.1400829
		C5	50	10	35	33	●	○	552.1401033
		C5	50	12	42	38	●	○	552.1401238
		C5	50	14	44	38	●	○	552.1401438
		C5	50	16	48	41	●	○	552.1401641
		C5	50	18	50	42	●	○	552.1401842
		C5	50	20	52	44	●	○	552.1402044
		C5	50	25	65	52	●	○	552.1402552
		C6	63	6	25	28	●	○	553.1400628
		C6	63	8	28	28	●	○	553.1400828
		C6	63	1	35	32	●	○	553.1401032
		C6	63	12	42	37	●	○	553.1401237
		C6	63	14	44	37	●	○	553.1401437
		C6	63	16	48	40	●	○	553.1401640
		C6	63	18	50	41	●	○	553.1401841
		C6	63	20	52	43	●	○	553.1402043
		C6	63	25	65	52	●	○	553.1402552

without gripper groove

MILLING ARBOR

Model	Drawing	Technical data Size	ØD [mm]	Ød1 [mm]	Ød2 [mm]	L [mm]	Product center	Availability	Order number
		C3	32	16	34	13	●	●	550.2311613
		C3	32	22	48	17	●	●	550.2312217
		C4	40	22	48	16	●	○	551.2312216
		C4	40	27	51	19	●	○	551.2312719
		C5	50	27	55	11	●	○	552.2312711
		C5	50	32	62	22	●	○	552.2313222
		C6	63	27	63	11	●	○	553.2312711
		C6	63	32	63	16	●	○	553.2313216

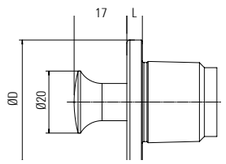
without gripper groove

Accessories page 32

MISCELLANEOUS
BENZ CAPTO™

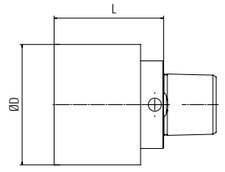
● PC Metal ● PC Wood ● on stock ○ on request

CLOSING PLUG

Model	Drawing	Technical data Size	ØD [mm]	L [mm]	Product center	Availability	Order number
		C3	32	5	●	○	550.581S
		C4	40	5	●	○	551.581S
		C5	50	6	●	○	552.581S
		C6	63	7	●	○	553.581S

made of steel

BLANK

Model	Drawing	Technical data Size	ØD [mm]	L [mm]	Product center	Availability	Order number
		C3	47	50	●	○	550.1024750
		C4	57	63	●	●	551.1025763
		C5	72	67	●	○	552.1027267
		C6	92	67	●	○	553.1029267

without gripper groove

ACCESSORIES

Collet Chuck | Wrenches | Miscellanous

COLLET CHUCK

CLAPMING NUT 34

SEAL RING 35

COLLET CHUCK 36

WRENCHES

COLLET WRENCH 38

INBUS T-WRENCH 39

SOLIDFIX® STARTER SET 39

ACCESSORIES

TAPER CLEANER 40
BENZ Solidfix® / Collet Chuck

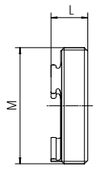
KEY BLOCK DIN2097 40

REDUCING SLEEVE 40

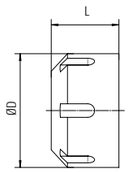
COOLANT NOZZLE 41

ACCESSORIES
COLLET CHUCK

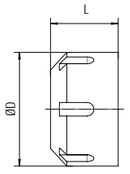
CLAMPING NUT | INTERNAL

Model	Drawing	Technical data Size Collet Chuck	M	L [mm]	Product center	Availability	Order number
		ER 11	M18x1	7,5	● ●	●	B135-E1AX
		ER 16	M24x1	7,6	● ●	●	B135-E3AX
		ER 20	M28x1,5	8,5	● ●	●	B135-E4AX
		ER 25	M32x1,5	8,8	● ●	●	B135-E5AX
		ER 32	M40x1,5	9,8	● ●	●	B135-E6AX
		ER 40	M50x1,5	11,7	● ●	●	B135-E7AX

CLAMPING NUT | EXTERNAL – MINI VERSION

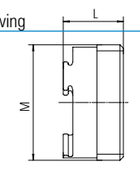
Model	Drawing	Technical data Size Collet Chuck	ØD [mm]	L [mm]	Product center	Availability	Order number
		ER 8M	12	10,8	● ●	○	B135-M0
		ER 11M	16	12	● ●	●	B135-M1
		ER 16M	22	18,4	● ●	●	B135-M2
		ER 20M	28	19	● ●	●	B135-M3
		ER 25M	35	20	● ●	●	B135-M4

CLAMPING NUT | EXTERNAL

Model	Drawing	Technical data Size Collet Chuck	ØD [mm]	L [mm]	Product center	Availability	Order number
		ER 11	19	11,3	● ●	○	B135-E1*
		ER 16	28	17,5	● ●	●	B135-E3*
		ER 20	34	19	● ●	●	B135-E4*
		ER 25	42	20	● ●	●	B135-E5
		ER 32	50	22,5	● ●	●	B135-E6
		ER 40	63	25,5	● ●	●	B135-E7
		ER 50	78	35,5	● ●	○	B135-E8

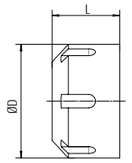
*illustrations deviate

CLAMPING NUT | INTERNAL – SYSTEM REGOFIX
FOR TOOLS WITH INTERNAL COOLING

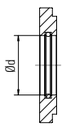
Model	Drawing	Technical data Size Collet Chuck	M	L [mm]	Product center	Availability	Order number
		ER 16	M24x1	12,5	● ●	●	B135-E3AXC
		ER 20	M28x1,5	13,5	● ●	●	B135-E4AXC
		ER 25	M32x1,5	13,8	● ●	●	B135-E5AXC
		ER 32	M40x1,5	14,9	● ●	●	B135-E6AXC
		ER 40	M50x1,5	16,6	● ●	●	B135-E7AXC

● PC Metal ● PC Wood ● on stock ○ on request

CLAMPING NUT | EXTERNAL – SYSTEM REGOFIX
FOR TOOLS WITH INTERNAL COOLING

Model	Drawing	Technical data Size Collet Chuck	ØD [mm]	L [mm]	Product center	Availability	Order number
		ER 16	28	22,5	● ●	○	B135-H3A
		ER 20	34	24	● ●	●	B135-H4A
		ER 25	42	25	● ●	○	B135-H5A
		ER 32	50	27,5	● ●	●	B135-H6A
		ER 40	63	30,5	● ●	●	B135-H7A

SEAL RING

Model	Drawing	Technical data Size Collet	Ød [mm]	Steigung [mm]	Product center	Availability	Order number
		ER 16	1-10	0,5	● ●	○	B137-E3-...
		ER 20	1-13	0,5	● ●	○	B137-E4-...
		ER 25	2-16	0,5	● ●	○	B137-E5-...
		ER 32	2-20	0,5	● ●	○	B137-E6-...
		ER 40	4-26	0,5	● ●	○	B137-E7-...

Order number			
ER 16	B137-E3-		
Ød=6mm		0600	

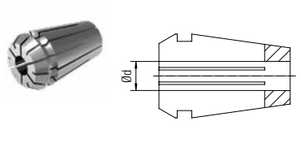
Example: B137-E3-0600

Sealing range can be used up to 0.5 mm smaller than nominal dimension d

ACCESSORIES
COLLET CHUCK

● PC Metal ● PC Wood ● on stock ○ on request

COLLET CHUCK | REGOFIX FORM B



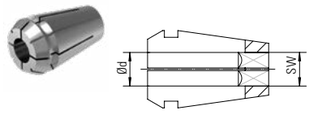
Model	Drawing	Technical data: Size Collet	Ød [mm]	Steigung [mm]	Product center	Availability	Order number
		ER 11[1]	1-7	0,5	● ●	○	B134-424E-...
		ER 16[1]	1-10	0,5	● ●	○	B134-426E-...
		ER 20[2]	1-13	1	● ●	○	B134-428E-...
		ER 25[2]	1-16	1	● ●	○	B134-430E-...
		ER 32[2]	3-20	1	● ●	○	B134-470E-...
		ER 40[2]	4-26	1	● ●	○	B134-472E-...

Order number			
ER 16	B134-426E-		
Ød=6mm		0600	
Example: B134-426E-0600			

[1] Collet chuck can clamping up to 0,5 mm smaller as nominal range d

[2] Collet chuck can clamping up to 1 mm smaller as nominal range d

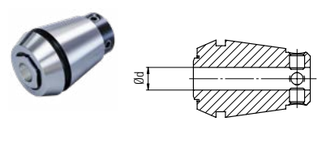
COLLET CHUCK FOR TAP | REGOFIX WITH INTERNAL SQUARE SECTION



Model	Drawing	Technical data: Size Collet.	Ød [mm]	SW [mm]	Product center	Availability	Order number
		ER 16	4-10	3,15-7	● ●	○	B134-E3...
		ER 20	4-13	3,15-9	● ●	○	B134-E4...
		ER 25	4-16	3,15-16	● ●	○	B134-E5...
		ER 32	4-20	3,15-20	● ●	○	B134-E6...
		ER 40	6-22	6-22	● ●	○	B134-E7...

Order number			
ER 16	B134-E3		
Ød=6mm		0600	
SW=4,9mm			49
Example: B134-E3-060049			

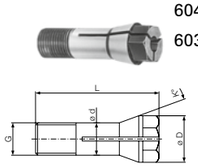
COLLET CHUCK | REGOFIX WITH LOCKING DRIVE & LENGHT COMPENSATION DIN 6499 / ISO 15488



Model	Drawing	Technical data: Size Collet.	Drill hole Ød [mm]	Product center	Availability	Order number
		ER 11	1,4-3,5	● ●	○	B134-A2...
		ER 16	1,4-6,0	● ●	○	B134-A3...
		ER 20	1,4-8,0	● ●	○	B134-A4...
		ER 25	1,4-10,2	● ●	○	B134-A5...
		ER 32	2-12,5	● ●	○	B134-A6...
		ER 40	4-16,0	● ●	○	B134-A7...

Order number			
ER 25	B134-A5-		
Ød=9mm		0900	
Example: B134-A5-0900			

NANN COLLET CHUCK



Model / Drawing	Technical data: Type	Ød	ØD	L	K°	Thread G	Clamping Ø*	Product center	Availability	Order number
	6043E	6	8,5	26	20	M6x0,7	1,5-3	● ●	○	B134-6043E...
	603E	8	12	31	20	M8x0,85	1,5-6	● ●	○	B134-603E...

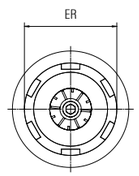
Order number			
ER 25	B134-603E-		
Clamping Ø=2mm		0200	
Example: B134-603E-0200			

* in 0,5 mm steps

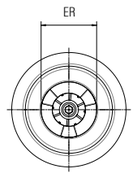
ACCESSORIES
WRENCHES & STARTER SET

● PC Metal ● PC Wood ● on stock ○ on request

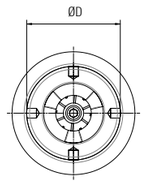
CLAMPING NUT | EXTERNAL COLLET CHUCK

Model	Drawing	Technical data Size Collet Chuck	Product center	Availability	Order number
		ER 11M	● ●	●	B136-M1
		ER 16M	● ●	●	B136-M3
		ER 20M	● ●	●	B136-M3
		ER 20	● ●	●	B136-E4
		ER 25	● ●	●	B136-E5
		ER 32	● ●	●	B136-E6
		ER 40	● ●	●	B136-E7

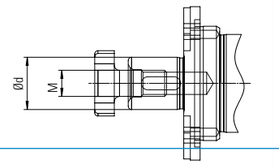
CLAMPING NUT | INTERNAL COLLET CHUCK

Model	Drawing	Technical data Size Collet Chuck	Product center	Availability	Order number
		ER 11	● ●	●	B136-E1AX
		ER 16	● ●	●	B136-E3AX
		ER 20	● ●	●	B136-E4AX
		ER 25	● ●	●	B136-E5AX
		ER 32	● ●	●	B136-E6AX
		ER 40	● ●	●	B136-E7AX

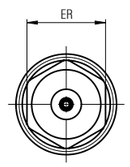
HOOK WRENCH

Model	Drawing	Technical data ØD Spindle	Product center	Availability	Order number
		12-14	● ●	○	D01810B012014
		16-18	● ●	●	D01810B016018
		20-22	● ●	○	D01810B020022
		25-28	● ●	●	D01810B025028
		30-32	● ●	●	D01810B030032
		34-36	● ●	●	D01810B034036
		40-42	● ●	●	D01810B040042
		45-50	● ●	●	D01810B045050
		52-55	● ●	●	D01810B052055
		58-62	● ●	●	D01810B058062
		68-75	● ●	●	D01810B068075
		80-90	● ●	●	D01810B080090
		95-100	● ●	●	D01810B095100

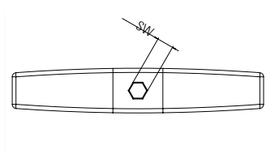
WRENCH DIN 6368 | FOR CROSS RETAINING SCREWS

Model	Drawing	Technical data ØD Milling Arbor	M Thread	Product center	Availability	Order number
		16	8	● ●	○	D06368-080
		22	10	● ●	○	D06368-100
		27	12	● ●	○	D06368-120
		32	16	● ●	○	D06368-160

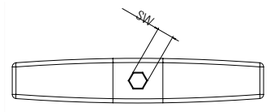
OPEN-END WRENCH DIN 894

Model	Drawing	Technical data Size Collet Chuck	Product center	Availability	Order number
		ER 11	● ●	○	D00894-170
		ER 16	● ●	○	D00894-250
		ER 20	● ●	○	D00894-300

INBUS T-WRENCH | FOR BENZ SOLIDFIX® AND BENZ CAPTO™ACTUATION

Model	Drawing	Technical data Size BENZ Solidfix®	Size BENZ CAPTO™	SW	Product center	Availability	Order number
		S1		3	● ●	●	KL8317-45039-SW3
		S2		4	● ●	●	KL8317-44982-SW4
		S3		5	● ●	●	KL8317-45013-SW5
		S4 / S5	C3	6	● ●	●	KL8317-45039-SW6
			C4	8	● ●	●	KL8317-45039-SW8
			C5	10	● ●	○	KL8317-45039-SW10
			C6	12	● ●	○	KL8317-45112-SW12

INBUS T-WRENCH | FOR BENZ LINA 4.0

Model	Drawing	Technical data LINA Version	SW	L	Product center	Availability	Order number
		Tuning Center	5	150	●	●	KL8317-627481 5-SW5
		Machining Center	5	350	●	●	KL8317-627483 5-SW5

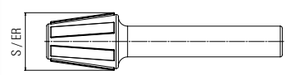
Use of the key for short, standard, and long-stroke versions

SOLIDFIX® STARTER SET

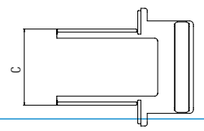
Model	Drawing	Technical data Size	Product center	Availability	Order number
mounting block	allen key	S3 x ER25	● ●	○	S3-SET-0001
hook wrench	clamping wrench	S4 x ER32	● ●	○	S4-SET-0001

ACCESSORIES
MISCELLANEOUS

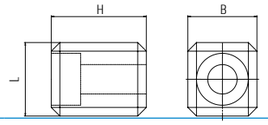
TAPER CLEANER | BENZ SOLIDFIX® / COLLET CHUCK

Model	Drawing	Technical data Size BENZ Solidfix®	Size Collet Chuck	Product center	Availability	Order number
		S1	ER 11	● ●	○	B069-ER16
		S2	ER 16	● ●	○	B069-ER16
		S3	ER 20	● ●	○	B069-ER20
		S4	ER 25	● ●	○	B069-ER25
		S5	ER 32	● ●	○	B069-ER32

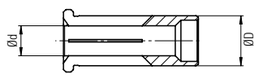
TAPER CLEANER | BENZ CAPTO™

Model	Drawing	Technical data Size BENZ CAPTO™	Product center	Availability	Order number
		C3	●	○	B069-C3
		C4	●	○	B069-C4
		C5	●	○	B069-C5
		C6	●	○	B069-C6
		C8	●	○	B069-C8

KEY BLOCK DIN2097 | FOR MILLING ARBORS

Model	Drawing	Technical data Ød1 [mm]	L [mm]	B [mm]	H [mm]	Product center	Availability	Order number
		16	8,5	8	11	●	●	B245-66
		22	11	10	8,6	●	●	B245-81
		27	10	12	9,3	●	●	B245-126
		32	12	14	14	●	●	B245-117

REDUCING SLEEVES | COOLANTPROOF FOR HYDRAULIC EXPANSION CHUCKS

Model	Drawing	Technical data ØD [mm]	Ød [mm]	Product center	Availability	Order number
		12	3	● ●	○	068Y012003440
		12	4	● ●	○	068Y012004440
		12	5	● ●	○	068Y012005440
		12	6	● ●	○	068Y012006440
		12	8	● ●	○	068Y012008440
		12	10	● ●	○	068Y012010440
		20	6	● ●	○	068Y020006555
		20	8	● ●	○	068Y020008555
		20	10	● ●	○	068Y020010555
		20	12	● ●	○	068Y020012555
		20	14	● ●	○	068Y020014555
		20	16	● ●	○	068Y020016555

FURTHER ACCESSORIES ON REQUEST

COOLANT NOZZLES

several versions

REDUCING SLEEVES
VDI

several sizes and versions

Please contact our BENZ sales team.

PICTOGRAMS AND ABBREVIATIONS

OTHER SPECIFICATIONS

system benefits

- setup time
- investment
- easy to handle
- safe to handle

adapter options

- IC-capable
- MMS-capable

general information

- information
- video
- service
- accessories

ABBREVIATIONS

d, D	Diameter
EC	external cooling
i	gear ration
IC	internal cooling
L, B, H	length, width, height
M	thread size
M_{max}	maximum torque
mm	millimeter
n_{max}	maximum speed
p_{max}	maximum pressure (bar)
p.	page
SW	width across flats
TK	pitch circle
✓	possible
-	not possible

BENZ PRODUCT WORLD:
TOOLING & MACHINE TOOLING TECHNOLOGY

TOOLING TECHNOLOGY

METAL

TOOLS FOR TURNING CENTERS
LIVE TOOLS / STATIC TOOLS

- radial heads 90°
- radial heads ≠ 90°
- axial heads
- swivel heads
- multi-spindle heads
- broaching units
- static tools

COMPONENTS. Our comprehensive tool concepts for turning centers and milling centers are ideal for nearly every application. Providing a technological advantage is our goal.
CUSTOMER SPECIFIC. Our modular approach enables customized configurations.
SYSTEMS. We develop special customer-specific tools for OEM and end customers on request.

METAL

TOOLS FOR MACHINING CENTERS

- angle heads 90°
- angle heads ≠ 90°
- swivel heads
- multi-spindle heads
- broaching units
- high-speed spindles
- rotating tool holders

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.

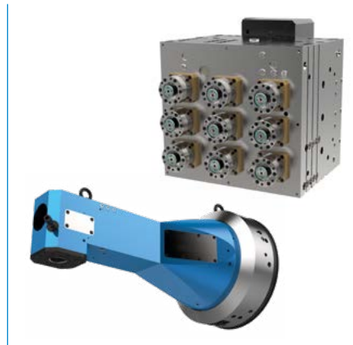
WOOD / COMPOSITE & ALUMINUM

TOOLS FOR MACHINING CENTERS

- angle heads 90°
- swivel heads
- multi-spindle heads
- multi-axis heads
- sanding units
- floating head units
- rotating tool holders

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, 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

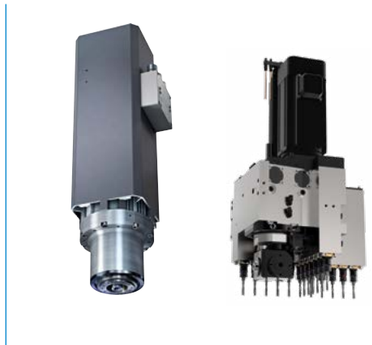


METAL

MULTI-SPINDLE HEADS & 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 Tooling stands for high-end solutions in the fields of machine tooling technology, specialty solutions, custom assemblies and mechanical modules. We manufacture and configure multiple-spindle and large-angle heads as well as large drill heads.
COMPONENTS. Attachment units complete our range.



METAL / WOOD / COMPOSITE & ALUMINUM

SYSTEM TECNOLOGY

- multiple-spindle drill heads
- motor spindles
- 5-axis technology
- C-axes
- swivel axes
- 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.

SERVICES

METAL / WOOD / COMPOSITE & ALUMINUM

SERVICE

- service evaluation and repair
- rapid repair kit
- preventive maintenance
- spare part management
- worldwide on-site service

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.
VORAUSSCHAUEND. We go one step further: Preventive maintenance, customized Rapid Repair Kit 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.

ARE YOU ALREADY FAMILIAR WITH OUR EXPERTISE?

+ teams of experts with industry experience
+ internationally networked through world-wide locations and partners
+ the highest quality for all products and services
+ precise, customer-specific solutions
+ constant development of our industry expertise

YOUR DIRECT LINE
YOUR CONTACTS WORLDWIDE

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