

Compact

MODULAR QUICK CHANGE SYSTEMS

BENZ Solidfix® | BENZ CAPTO™

Tooling technology

Metal | Wood | Composites machining



SYSTEM BENEFITS

BENZ SOLIDFIX® | BENZ CAPTO™

A worthwhile investment

Besides higher speeds and accuracy requirements, reducing setup and downtime is a key issue in machining production. A key success factor is the integration of a modular tool interface.

The basic principle and the main advantage of modular tooling systems is that tools can be pre-set and made ready for use outside the machine in parallel with the machining process. These adapters can then be changed very quickly on the base aggregate.

The modular design allows you to increase the value-added uptime of your machine while reducing costs: Because of the modular design, only the adapters need to be changed - the basic tool remains on the machine. This means that the purchase of additional aggregates can be reduced to a minimum.

With BENZ Solidfix® and BENZ CAPTO™ you have two of the most advanced quick-change systems currently available on the global market.

BENZ Solidfix®



BENZ CAPTO™



PERFORMANCE. PRECISION. HANDLING. SAFETY.



Minimizes setup and non-productive time / increases productivity
by changing the preset tool in seconds



Low investment overhead,
as the angle head remains on the machine and only one adapter needs to be changed, fewer angle heads are needed overall

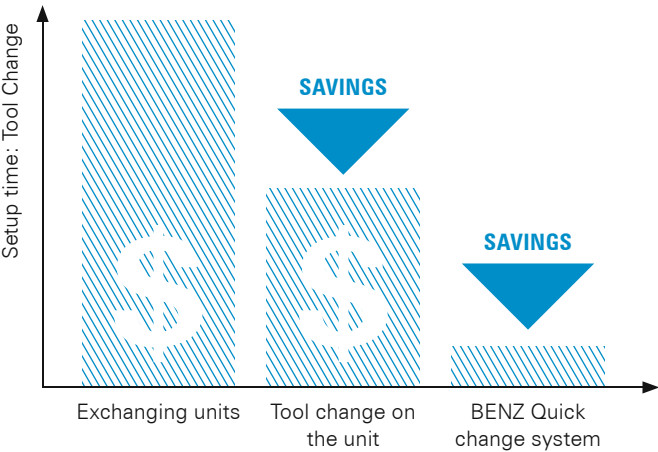


Easy handling
by one-hand operation without special tools



Operating safety
due to loss protection

SAVINGS WITH BENZ QUICK-CHANGE SYSTEMS



Reducing setup time = saving costs

A tool change that requires the entire unit to be removed from the machine causes long machine downtime. By changing the cutting tool directly on the unit, setup costs can be reduced by up to 40%. The optimum is achieved with modular quick-change systems. Here, the cutting tool is measured outside the machine in the presetting device. Replacing the adapter therefore only requires a few seconds. You save 90% of your setup costs! The reject rate is also reduced, as the first part is already a quality part.

APPLICATION OPTIONS

Fits all popular machines.

Looking for a universal tool clamping system that can be used in all production areas? The modular quick-change systems from BENZ can be used in live tools as well as in angle and multi-spindle heads.

The BENZ Solidfix® and BENZ CAPTO™ systems are not only suitable for high-volume production, but also for applications that require frequent changeovers due to smaller batch sizes or a wide variety of parts. You can save time and money with these systems.

Lathes

Machining centers



MODULAR QUICK-CHANGE SYSTEM

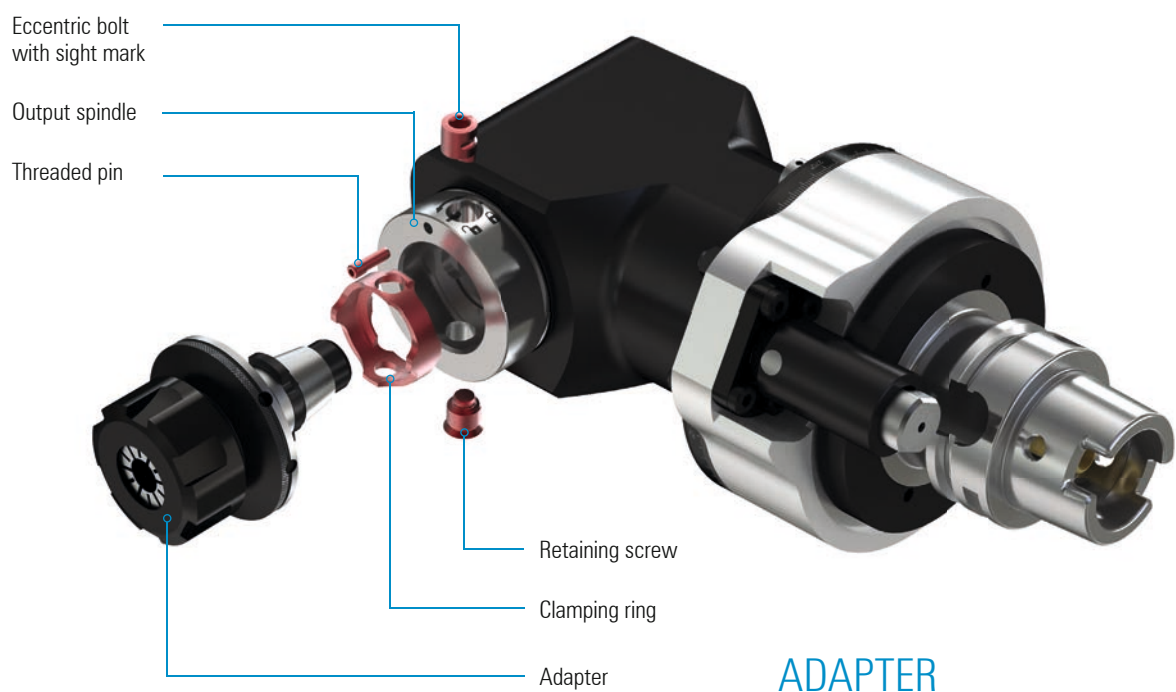
BENZ SOLIDFIX®

User-friendly, stable and highly precise

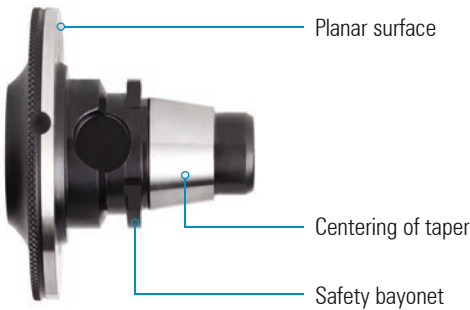
Combining backlash-free taper centering with extremely large planar contact and high clamping forces, BENZ Solidfix® offers maximum tilting safety and stability, which also meets the requirements for milling operations. The high torque transmission and the possible rpms also characterize the performance.

This is supported by a special clamping mechanism that acts centrally and without lateral forces and, together with the high-precision and compact components, achieves top values for concentricity, bending strength and repeatability. The design of the system makes it particularly suitable for tools with internal cooling.

BENZ SOLIDFIX® – SYSTEM DESIGN



ADAPTER



SYSTEM SPECIFICATION

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

*transmittable torque of interface



IC-capable



MQL-capable Adapter on request

MODULAR QUICK-CHANGE SYSTEM

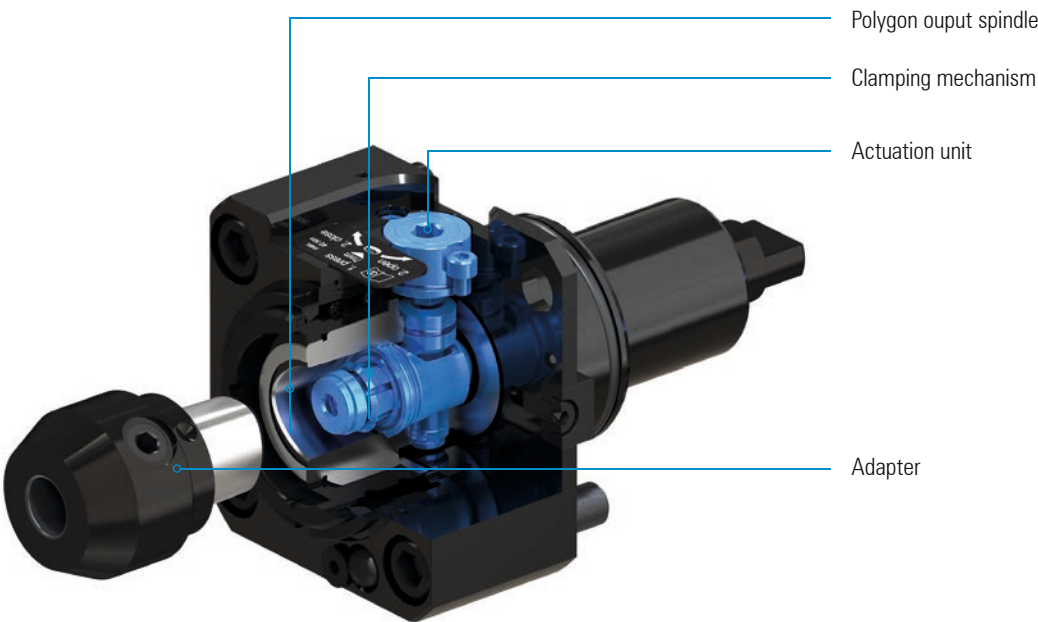
BENZ CAPTO™

Increase efficiency and machining quality

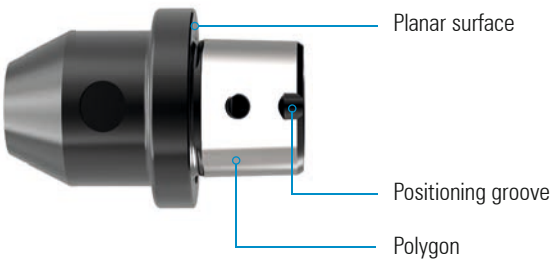
The modular quick-change system BENZ CAPTO™ guarantees an extremely compact design due to the intelligent integration of the clamping set into the spindle. Special clamping kinematics ensure clamping forces that far exceed the specifications of ISO 26623-2.

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

BENZ CAPTO™ – SYSTEM DESIGN



ADAPTER



SYSTEM SPECIFICATION

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

*transmittable torque of the polygon



OVERVIEW

ADAPTER & ACCESSORIES

BENZ SOLIDFIX®



COLLET CHUCK
8° Type ER
with TER shrink-fit collet chuck



TAPPING CHUCK
Emuge



WELDON
for parallel shanks DIN 1835B



WHISTLE-NOTCH
for parallel shanks DIN 1835E



MILLING ARBOR



SAW BLADE HOLDER
screwed
on arbor



SHRINK FIT CHUCK



SCREW-IN MILL CUTTER
Basic holder
Haimer



HYDRO CLAMPING CHUCK



SQUARE SHOULDER /
PLUNGE MILL CUTTER



TEST MANDREL



MASTER SHANKS
VDI DIN 69880 /
HSK Form A ISO 12164
SK DIN 69871 AD



MOUNTING BLOCK



REDUCING SLEEVE



BLANK



CLOSING PLUG

BENZ CAPTO™



COLLET CHUCK
8° Type ER



WELDON
for parallel shanks DIN 1835B



MILLING ARBOR



BLANK



CLOSING PLUG



Other customized adapters available upon request. Please contact the BENZ sales team.

ACCESSORIES



CLAMPING NUT



KEY



MISCELLANEOUS



See our catalog in the download area of our website for detailed information on our modular quick-change system and all accessories.

BENZ MODULAR
QUICK-CHANGE
SYSTEMS
CATALOG



BENZ GmbH Werkzeugsysteme

Kinzigpark 3
77723 Gengenbach
Germany

T +49 7803 504 300-0
info@benztooling.com
www.benztooling.com

