

Information

- 1987** - Founding by Martin Krieger the company Automation- und Spannsysteme with the aim of manufacturing support tools for cutting plates

- 1989** - Change of the company's aim from providing support tools to live tools
new company name heimatec
 - external design office
 - manufacturing of components as job shop
 - assembling of tools in part time with part time employees

- 1992** - hiring of the first 3 employees for assembling and design

- 2003** - founding of department in Bietigheim near Stuttgart
 - multi-spindle heads „big size“ for special purpose machines and transfer lines

- 2004** - founding of sales department in Moskau Russia

- end of Dec. 2005** - Relocation to todays factory building
Estate area: 26000 m²
Office and manufacturing area: 4000 m²



- 2008** - Development of the u-tec change system
- 2010** - founding of sales department in USA
(today 4 employees)
- 2012** - Founding of a sales branch in Singapore/Asia
- 2014** - Founding of heimatec Ltd., a subsidiary at Taichung/Taiwan

Live Tools, standard and special for CNC Lathes



Live Tools, standard and special for CNC Lathes

precision tooling for turning centers

			
axial drilling and milling head 8 010 ...	axial milling head 8 011 ...	axial tapping head 8 012 ...	axial drilling and milling head, offset 8 019 ...
			
radial drilling and milling head 8 030 ...	radial milling head 8 031 ...	radial tapping head 8 032 ...	radial drilling and milling head, double spindle 8 039 ...
		Utmost precision for the highest requirements of our customers.	
radial drilling and milling head, offset 8 033 ...	radial tapping head, offset 8 035 ...		radial drilling and milling head, special 8 039 ...

precision tooling for turning centers

Static tool holders

VDI DIN 69880 and BMT (block mounted tools)



Right angle heads, standard and special for CNC machining centers



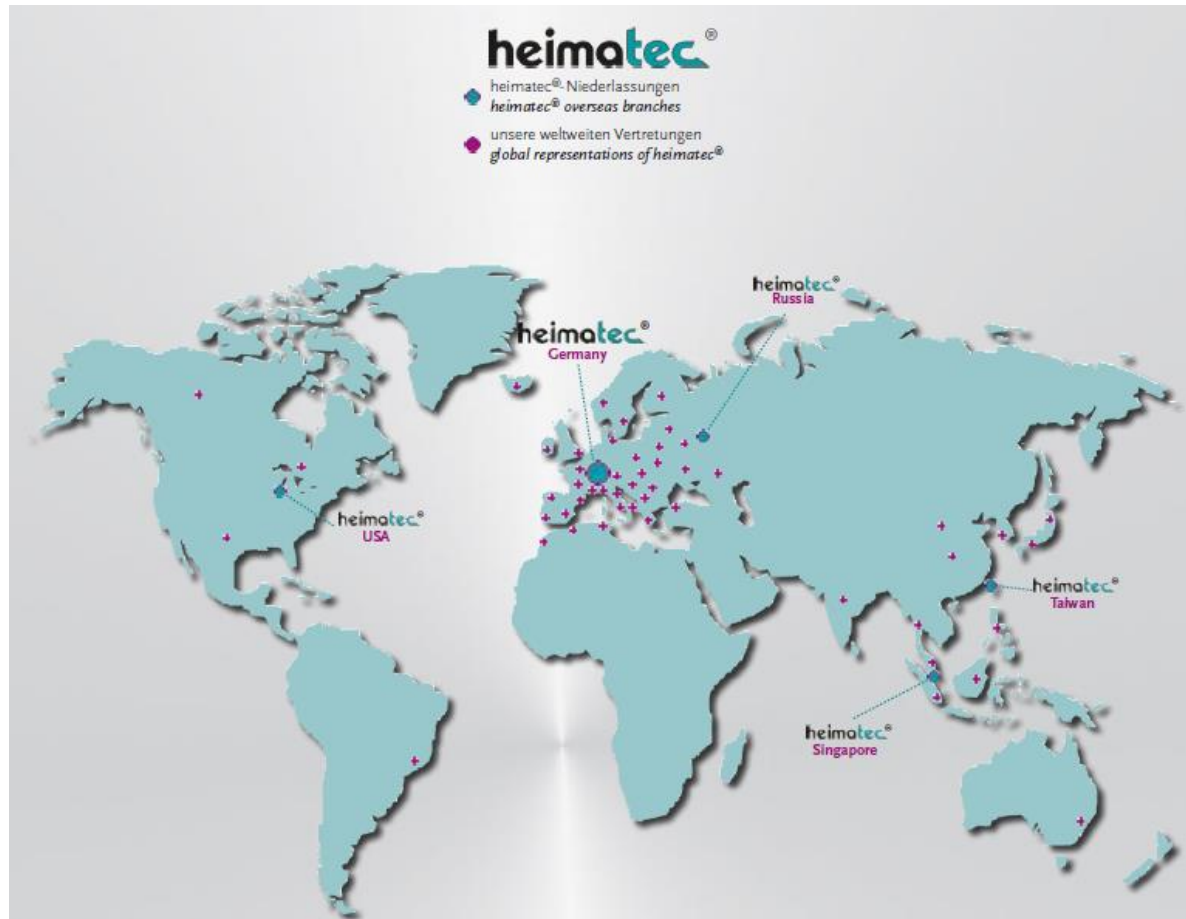
Special tools for CNC lathes and machining centers



Our success is measured by your satisfaction.

special- and multi spindle heads

- Sales of heimatec - products is organized through **dealers and distributors**
- local and sometimes international directly at heimatec

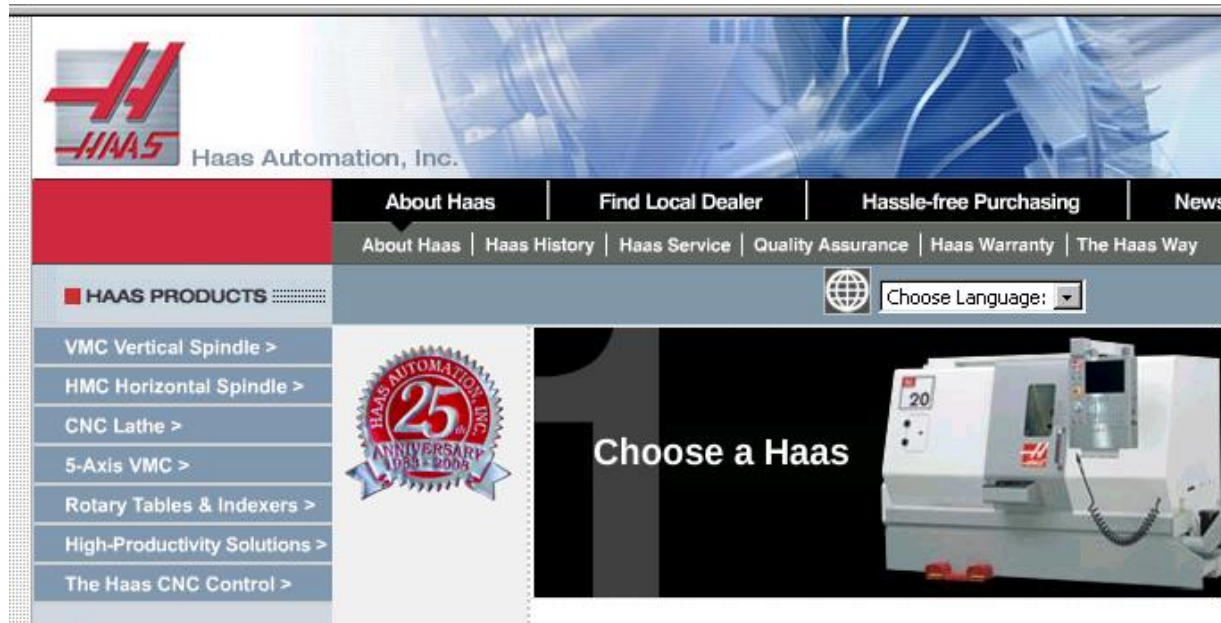


most important business



Main supplier

- Europe 95% of agents
- USA 60 %
- Russia 100 %
- India 50 %



Main supplier

- Europe 90 % of agents
- USA 30 % of agents
- Russia 95 %
- India 50 %



Main supplier

➤ 90 % whole the world

CITIZEN MACHINERY MIYANO CO., LTD. [Japanese](#) [Chinese](#) [Sitemap](#) [Contact Us](#) **CITIZEN**
Micro HumanTech

HOME | Products | Technology & Support | Corporate Information | Environmental Activities

Products

[HOME](#) > [Products](#) > [Miyano Products](#)

Miyano Products

Solution that cast future into shape

Miyano

High precision parts that are produced by Miyano's machines have been supporting the living of people and advances in technologies from personal belongings to cutting-edge area.

- [Bar Work](#)
- [Turning Machine](#)
- [Peripheral Equipment](#)

- Products development Concept
- Cincom Products
- Miyano Products
 - Bar Work
 - BNA-C
 - BNA-S
 - BNA-MSY
 - BND
 - BNA-DHY
 - BNA-GTY
 - BNJ
 - BNE
 - BNE-MSY



Main supplier

- Europe 90 % of agents
- USA 50 % of agents
- Taiwan 100 %



Produktübersicht

Die Produkte der Yamazaki Mazak Group.

Klicken Sie auf "mehr" um zur englischsprachige Detailsbeschreibung zu gelangen.

Die Übersicht




CNC Drehmaschinen

Nano Turn, Quick Turn Nexus Serie,
Super Quick Turn Serie, Super Quadrex,
Megatum, IVS vertikale Pickup, Multiplex-Serie,
Cybertech Turn

[» mehr](#)

Very good programm

➤ Europe 35 % of agents



OKUMA

Home About Okuma **Products** News Sales Network Europe Links Used.com Sitemap

▼ **Lathe**

- **LB Series**
 - **LB200**
 - LB300
 - LB400
- LBII Series
- LU Series
- LVT Series
- LT Series
- MULTUS Series
- MacTurn Series
- ECO Series
- LOC650
- 2SP Series
- VR Series
- VTM Series

▶ Vertical Machining Centers

▶ Horizontal Machining Centers

THE LB SERIES
POWERFUL PERFORMANCE.

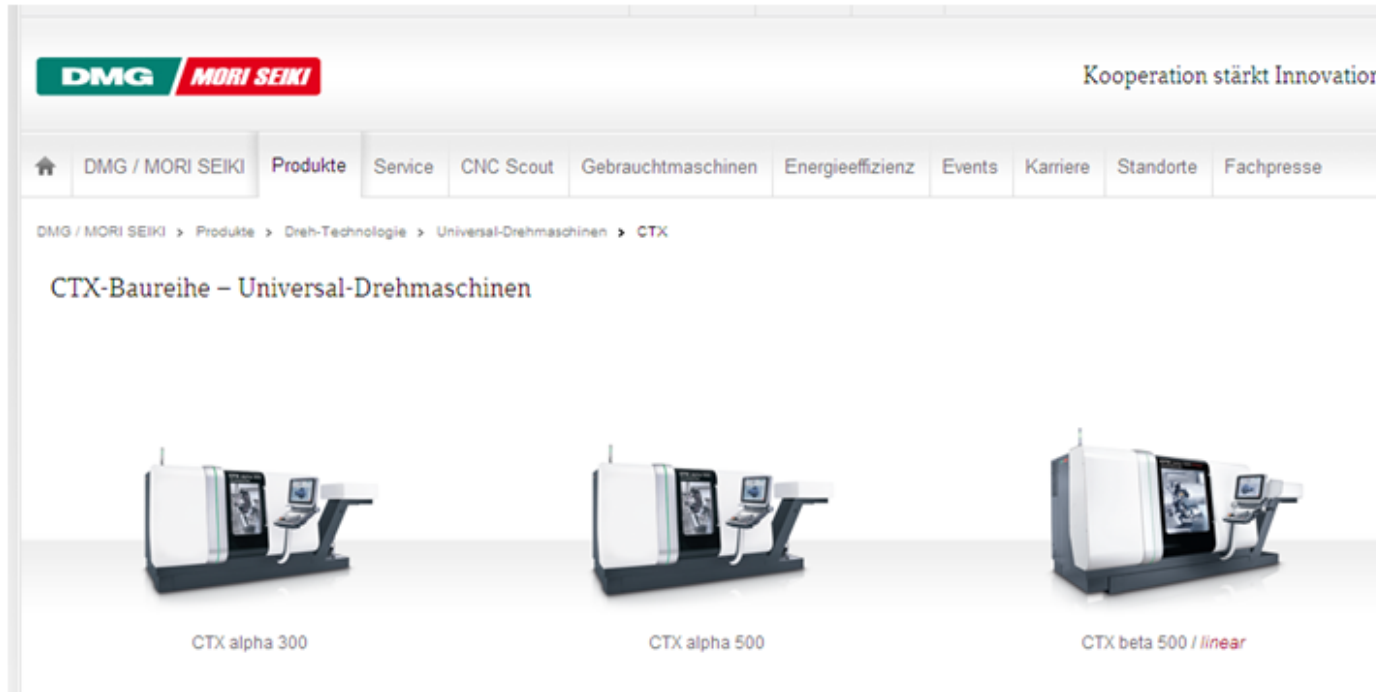
LB200
The LB Series delivers extremely tight tolerances and outstanding reliability in a compact design. Okuma designed the LB 200, 300 and 400 machines to help you do more with less. An integral motor spindle turns the work piece without belts, pulleys or gears, improving performance and reducing breakdowns. The LB Series is not only reliable, but also flexible, offering multiple feature options to create a machine customized to your specific turning needs.

For more information please contact your [local distributor](#).

SPACE TURN LB200

LB200 **LB300** **LB400**

very good standard programm



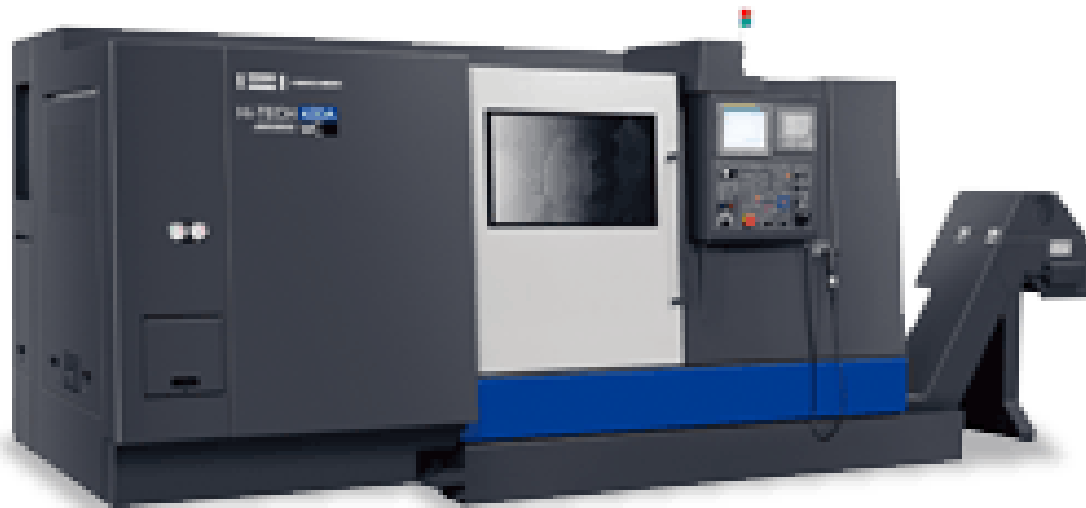
very good standard programm

Customer

- **DMG Mori Hungary**
- **DMG Mori Singapore**
- **DMG Mori China**











CITIZEN

Micro HumanTech

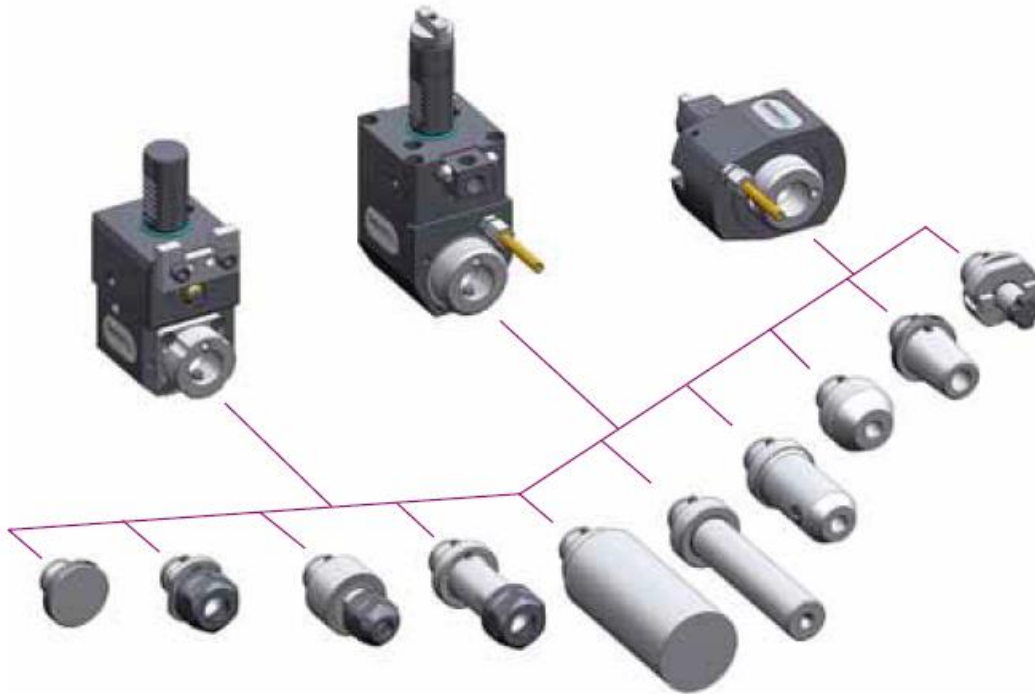


❖ Standard driven tools middle of 2016

easy quick HT fast change system



- ▶ easy-quick HT Schnellwechselsystem
easy-quick HT fast change system



DAS Schnellwechselsystem von heimatec
für angetriebene und feste Werkzeuge

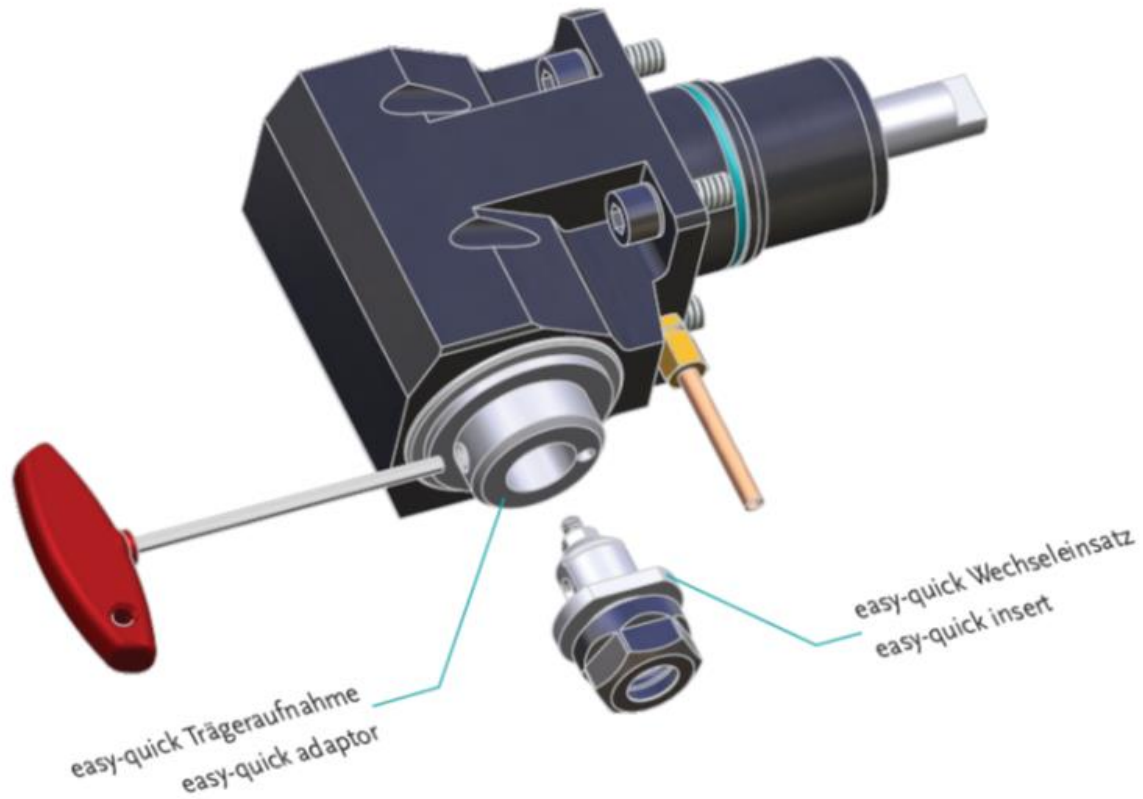
*THE fast change system of heimatec
for driven and static tools*

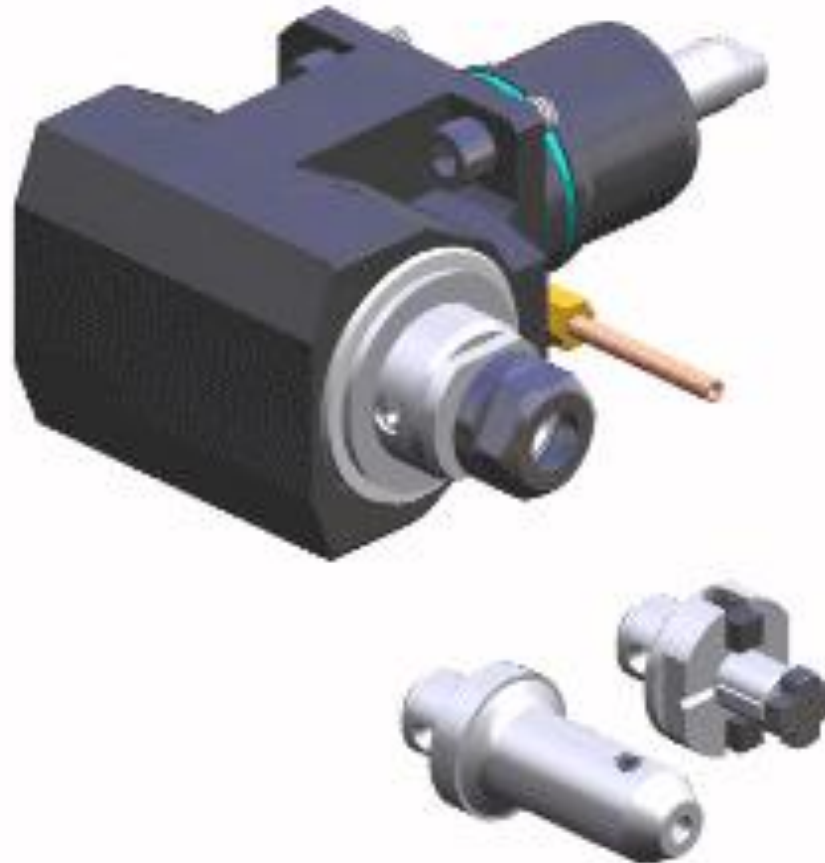
- ▶ Ausführungen siehe Katalog
versions see catalogue

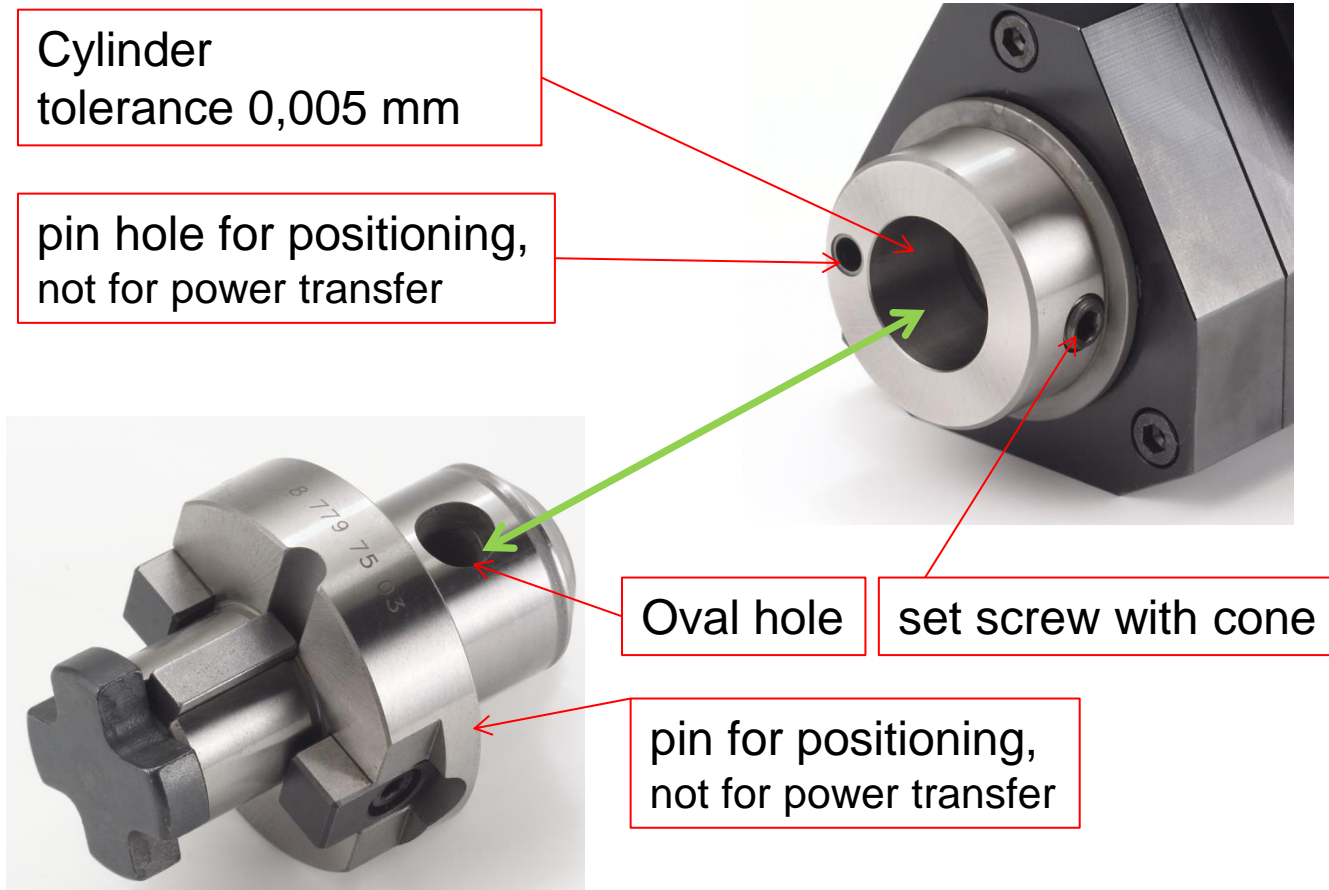


www.heimatec.de
Produkte / easy-quick

www.heimatec.com
products / easy-quick



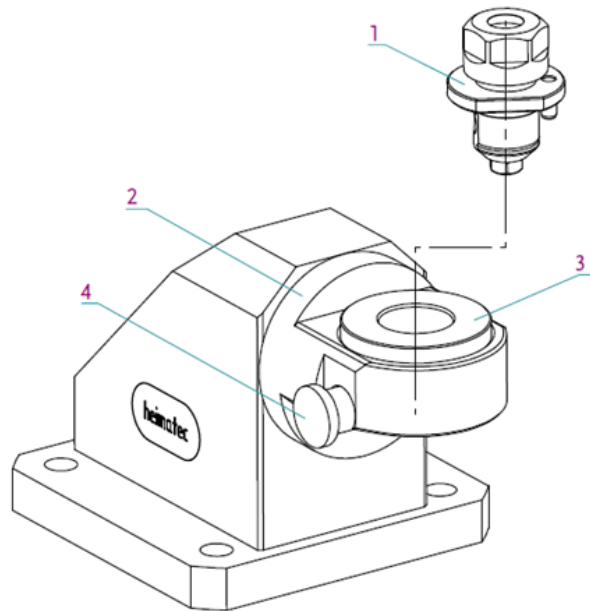




mounting device HT 8 710 95 001

For mounting cutters in various adaptors (1). Please place mounting device safely, in vice or mount on bench. The attachment (2) can be adjusted in 30° steps. The holding fixture (3) is held by locator pin (4). (left and right side operation)

More holding fixtures (3) available as options for adaptors (1) in various sizes and types.



- Wechselbuchsen (3) erhältlich:
interchangeable bushings (3) available:
- HT2 - 8 732 54 007
 - HT3 - 8 732 55 005
 - HT4 - 8 732 56 005
 - HT5 - 8 732 57 004
 - HT6 - 8 732 58 003
 - HT7 - 8 732 59 003

Empfohlene Anzugsdrehmomente für HT - Spannschraube recommended clamping torque for HT clamping bolt

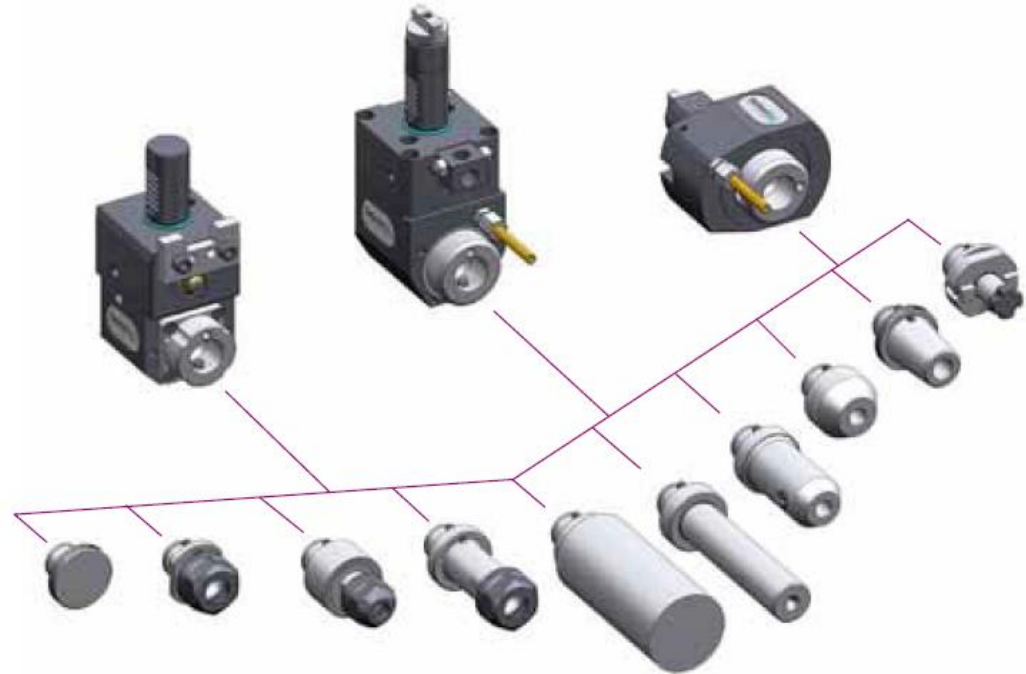
HT 2	HT 3	HT 4	HT 5	HT 6	HT 7
2,5 Nm	4 Nm	8 Nm	12 Nm	28 Nm	52 Nm

Warnung! Das maximale Anzugsdrehmoment darf nicht mehr als 15% über den empfohlenen Werten liegen.

Warning! The maximum clamping torque should not extend more than 15% of the recommended clamp torque.

Advantage

- **Single hand operation**
- **Pre settable**
- **Highest repeatability**
- **Fast tool change**



heimatec[®]
Präzisionswerkzeuge

easy-quick HT

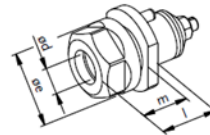
Das Schnellwechselsystem von **heimatec**[®]
für angetriebene und feste Werkzeuge

The fast change system of **heimatec**[®]
for driven and static tools



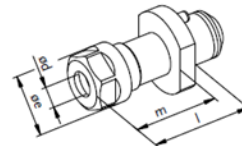
heimatec[®]
Präzisionswerkzeuge

► Schnittstelle: *easy-quick HT 2*
interface: *easy-quick HT 2*



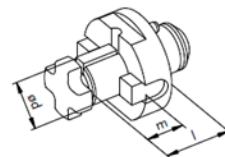
► Spannzangenaufnahme
collet chuck

Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	ø e [mm]	l [mm]	m [mm]
ER 8 M	8 779 42 003	0,5 - 5,0	12,0	17,0	13,0
ER 11	8 779 43 002	0,5 - 7,0	19,0	17,5	13,5



► Spannzangenaufnahme lang
collet chuck long

Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	ø e [mm]	l [mm]	m [mm]
ER 8 M	8 779 42 005	0,5 - 5,0	12,0	40,0	36,0



► Fräsdorn
arbor

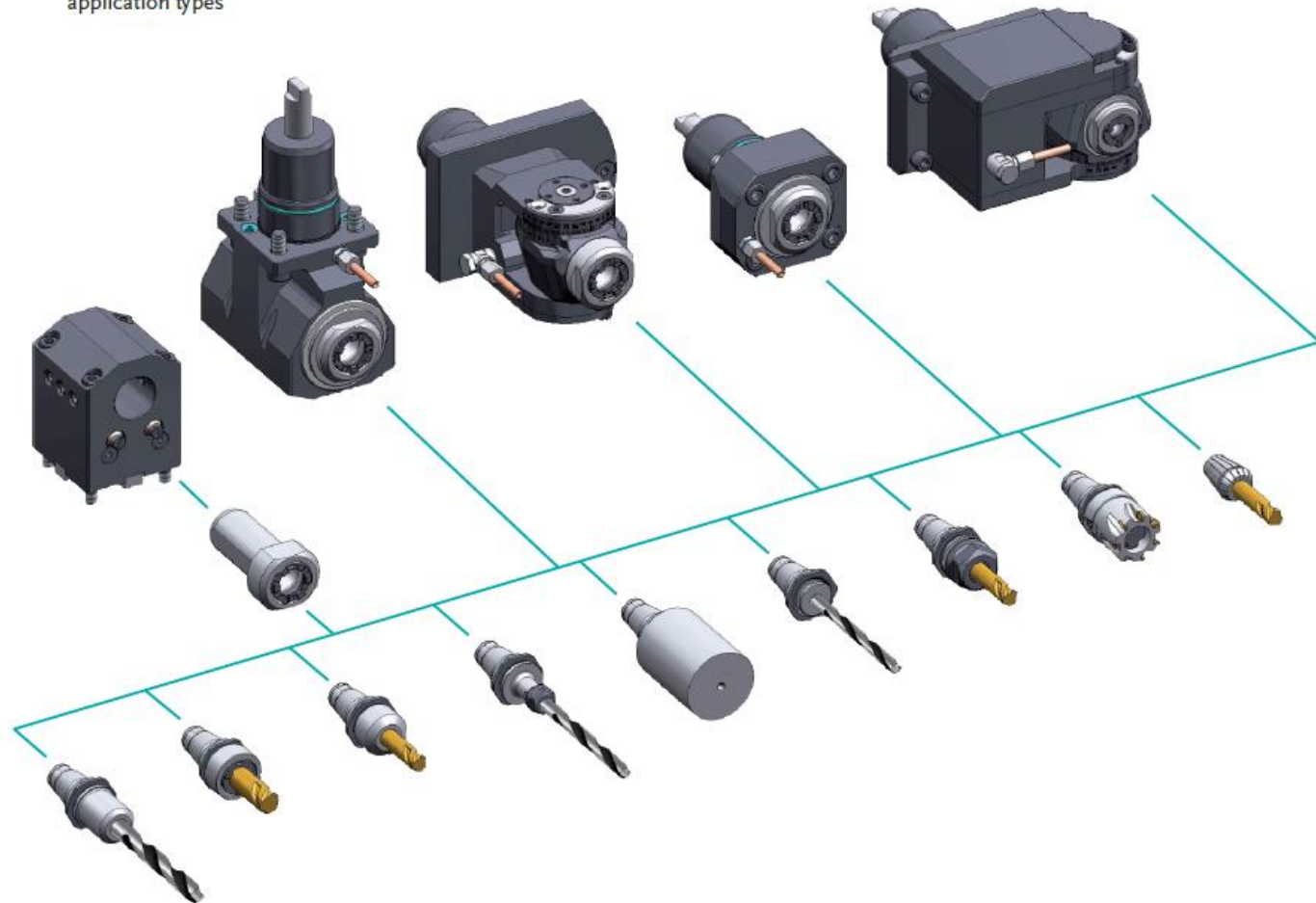
Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	l [mm]	m [mm]
Fräsdorn 10 / arbor 10	8 779 42 001	10,0	21,0	16,0
Fräsdorn 13 / arbor 13	8 779 43 001	13,0	26,0	21,0
Kombidorn 1/4" / universal arbor 1/4"	8 779 43 026	1/4"	34,0	14,3

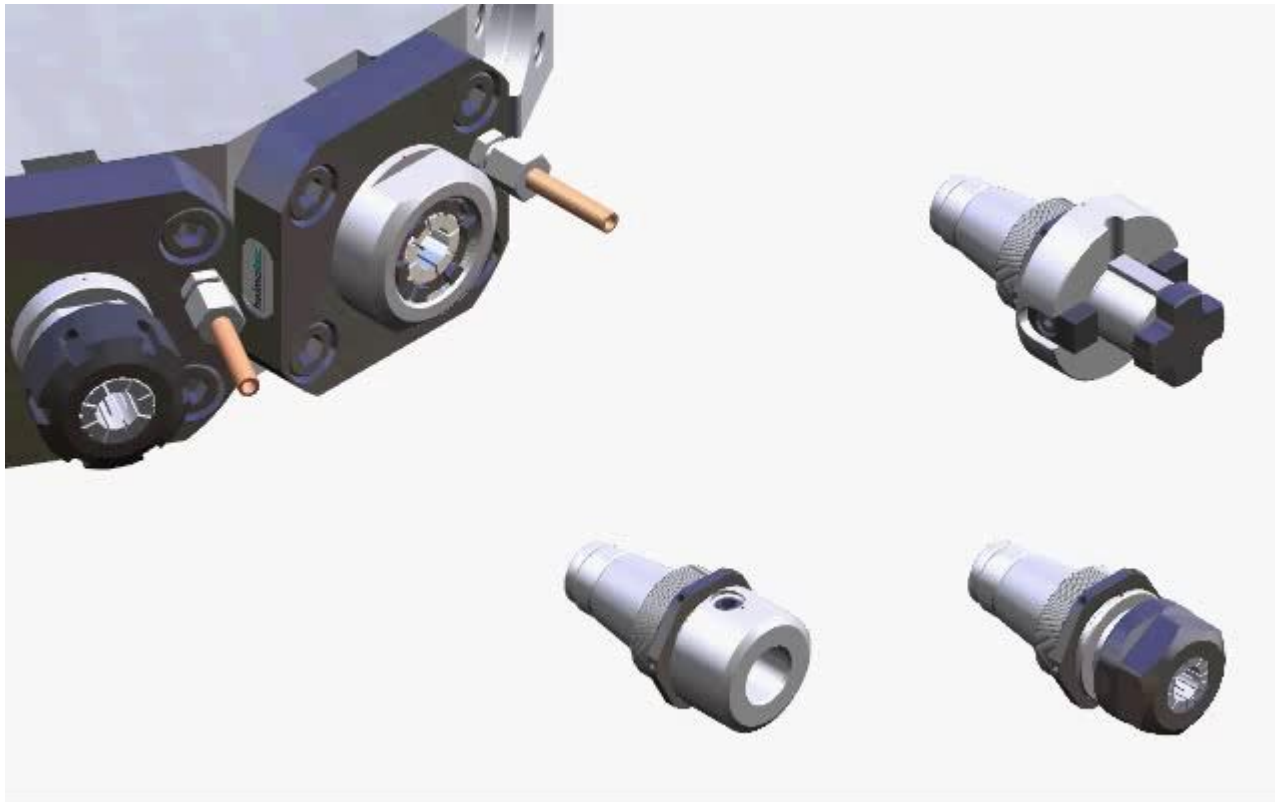


u-tec change system



► Einsatzmöglichkeiten
application types

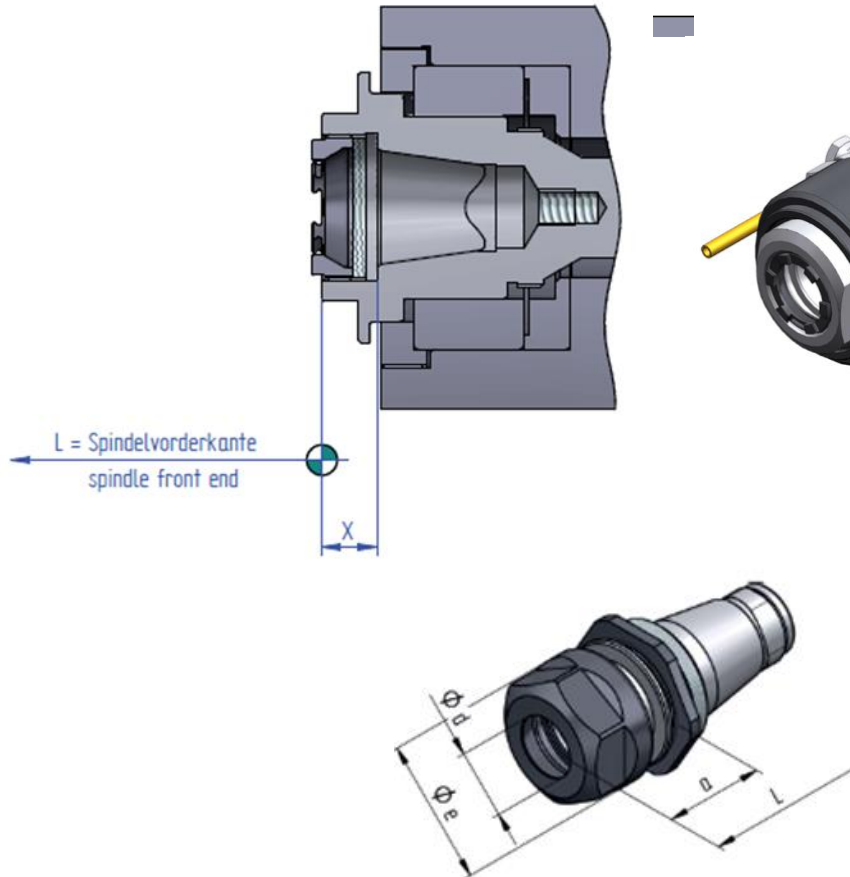




u-tec change system

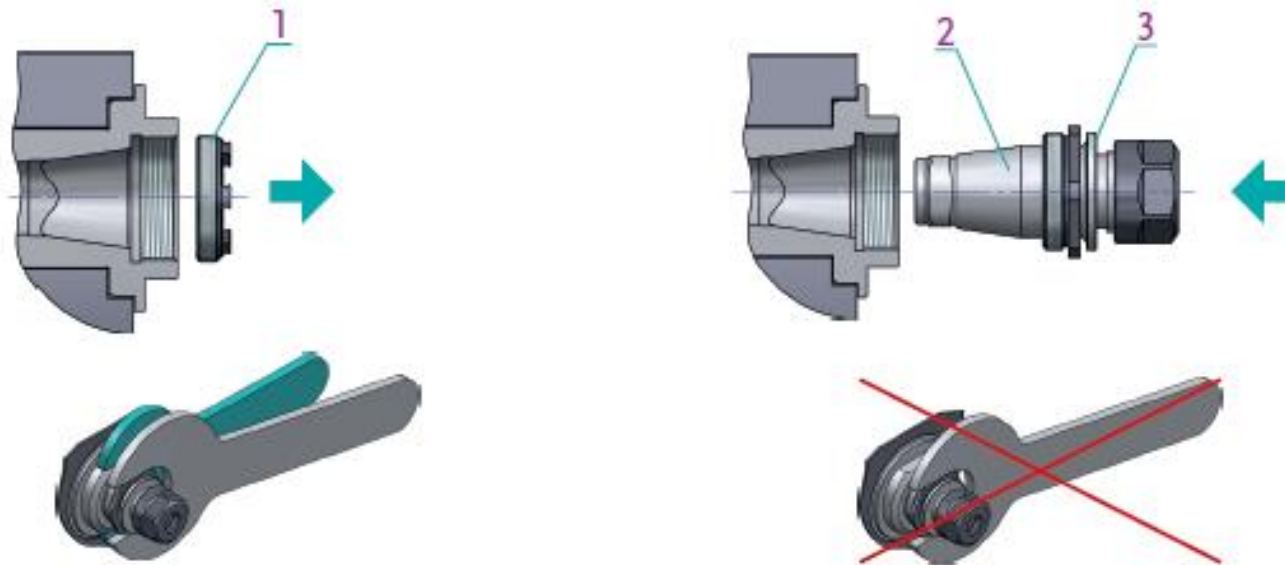
► Nullpunktdefinition
definition of zero

ER 16		ER 20		ER 25		ER 32		ER 40	
X	10	X	11	X	12	X	14	X	16



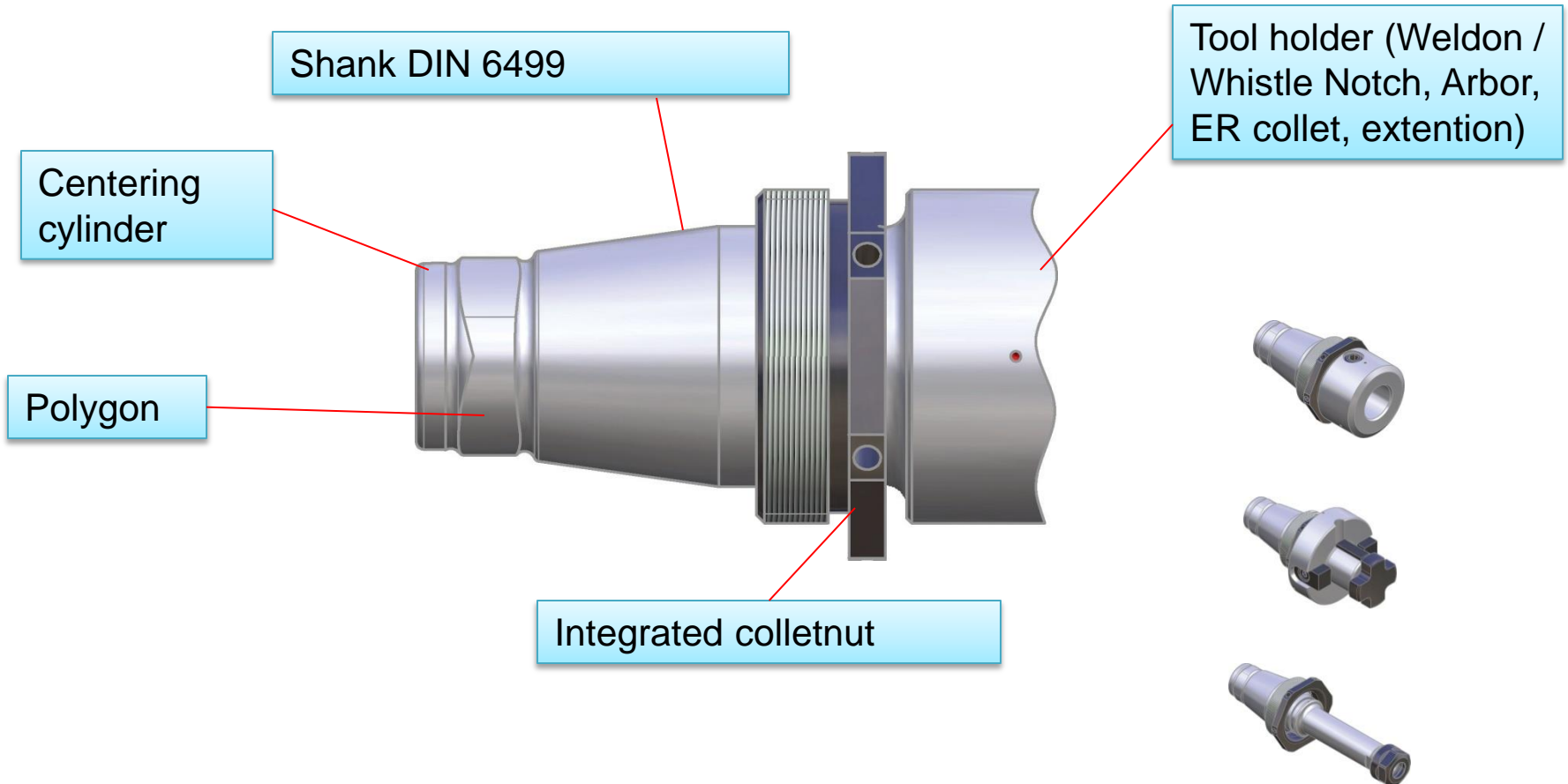
► Spannzangenaufnahme
collet chuck

Spannsystem clamping system	Bestell-Nr. ref.-no.	$\varnothing d$ [mm]	$\varnothing e$ [mm]	a [mm]	L [mm]
ER 16	8 779 64 039	0,5 - 10,0	28,0	22,5	32,5
ER 20	8 779 64 040	0,5 - 13,0	34,0	24,0	34,0
ER 25	8 779 65 010	0,5 - 16,0	42,0	25,0	35,0
ER 32	8 779 66 001	1,0 - 20,0	50,0	27,5	43,0



Remove collet nut (1) and store. The u-tec adapter (2) is clamped with a special collet nut (3). Clamp collet nut (3) properly by using a wrench to hold the tool spindle.

Functional features of u-tec



mounting device UT 8 710 95 001

For mounting cutters in various adaptors (1). Please place mounting device safely, in vice or mount on bench. The attachment (2) can be adjusted in 30° steps. The holding fixture (3) is held by locator pin (4). (left and right side operation)

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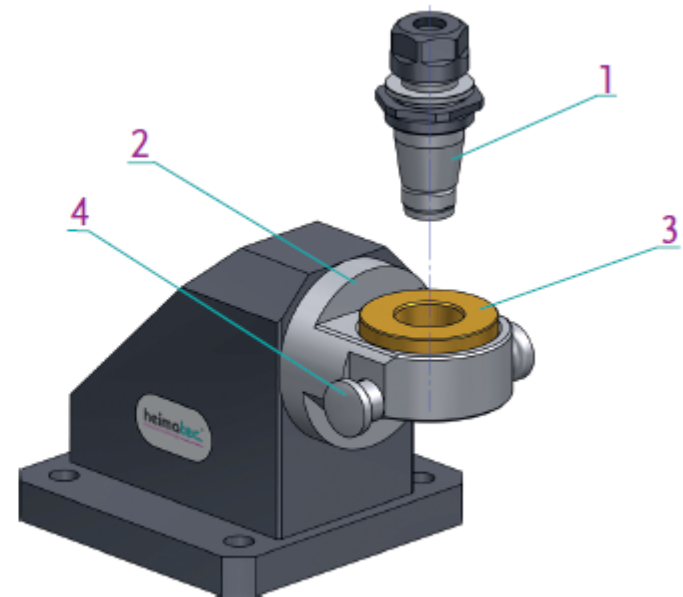
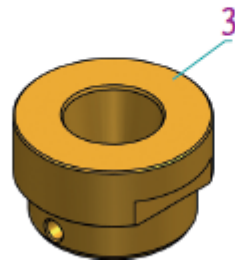
UT 16 - 8 732 54 005

UT 20 - 8 732 54 006

UT 25 - 8 732 55 004

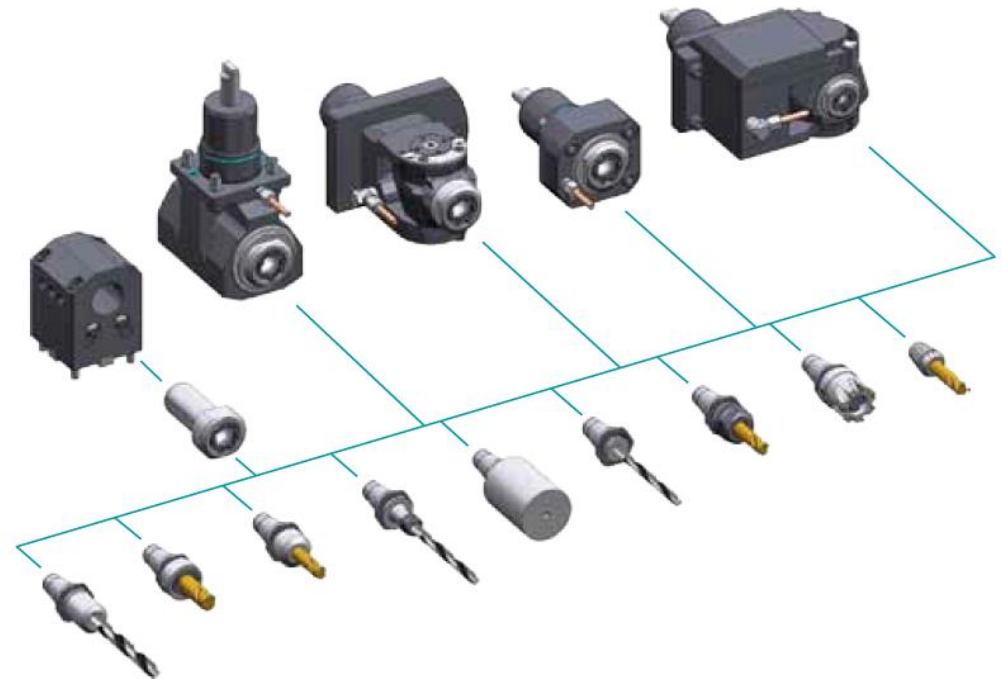
UT 32 - 8 732 56 004

UT 40 - 8 732 57 003



Advantage

- **Standard tool for customer**
- **The customer can use the u-tec inserts, but it's not a must**
- **Very flexible**
- **Pre-settable**
- **Highest repeatability and run out**
- **Very rigid**





Präzisionswerkzeuge

u-tec[®] UT

Unser Schnellwechselsystem,
das ALLES möglich macht

*Our quick change system,
that makes EVERYTHING possible.*





Präzisionswerkzeuge

► Schnittstelle: UT 32 A
interface: UT 32 A

Wechseleinsätze für u-tec[®]
inserts for u-tec[®]



► Spannzangenaufnahme
collet chuck

Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	ø e [mm]	a [mm]	L [mm]
ER 16	8 779 64 039	0,5 - 10,0	28,0	22,5	32,5
ER 20	8 779 64 040	0,5 - 13,0	34,0	24,0	34,0
ER 25	8 779 65 010	0,5 - 16,0	42,0	25,0	35,0
ER 32	8 779 66 001	1,0 - 20,0	50,0	27,5	43,0



u-tec UT 32

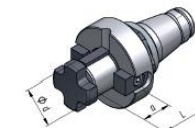


► Spannzangenaufnahme lang
collet chuck long

Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	ø e [mm]	a [mm]	L [mm]
ER 11	8 779 63 018	0,5 - 7,0	19,0	35,0	45,0
ER 11	8 779 63 019	0,5 - 7,0	19,0	65,0	75,0
ER 16	8 779 64 041	0,5 - 10,0	28,0	35,0	45,0
ER 16	8 779 64 042	0,5 - 10,0	28,0	65,0	75,0



► Fräsdorn
arbor



Spannsystem clamping system	Bestell-Nr. ref.-no.	ø d [mm]	a [mm]	L [mm]
Kombidorn 16 / universal arbor 16	8 779 64 049	16,0	17,0	35,5
Kombidorn 22 / universal arbor 22	8 779 65 015	22,0	19,0	38,5
Kombidorn 27 / universal arbor 27	8 779 66 004	27,0	21,0	43,5
Kombidorn 3/4" universal arbor 3/4"	8 779 63 024	3/4"	14,3	31,0
Kombidorn 3/4" universal arbor 3/4"	8 779 64 054	3/4"	17,45	37,0



 Darstellung symbolisch
symbolic drawing

► Weitere Ausführungen auf Anfrage
further versions on request

* Nicht im Lieferumfang enthalten
* not included in delivery

ZB UT32 6 000

heimatec[®]
Precision Tools

News

High performance milling cutter system
with highly stable interface
for u-tec[®] live tooling units of **heimatec**

- Much higher tool stability compared to standard end mills
- Fits to u-tec[®]-tools of **heimatec**

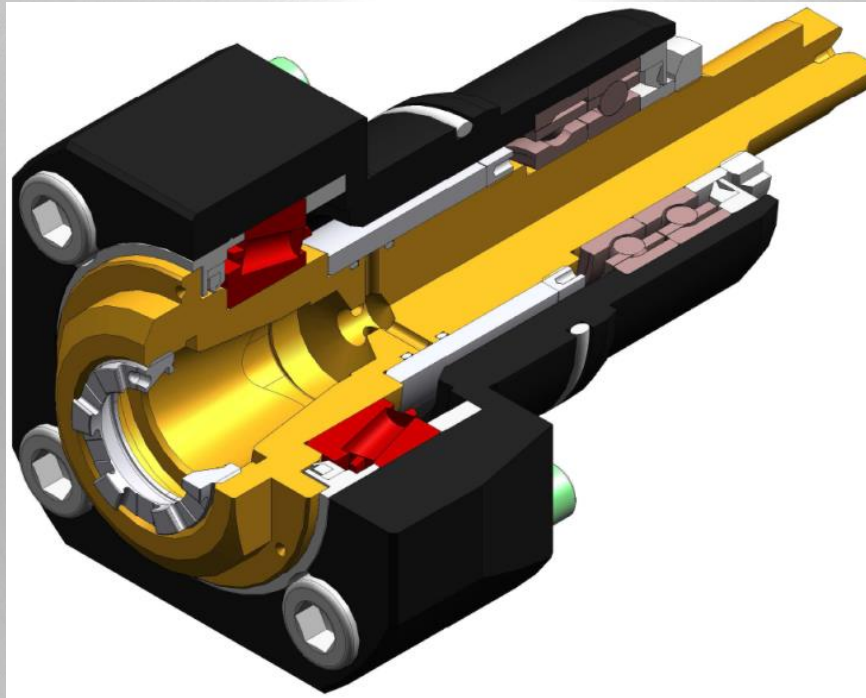
In cooperation with
DENITool[®]
Swiss Precision Tooling

www.heimatec.com

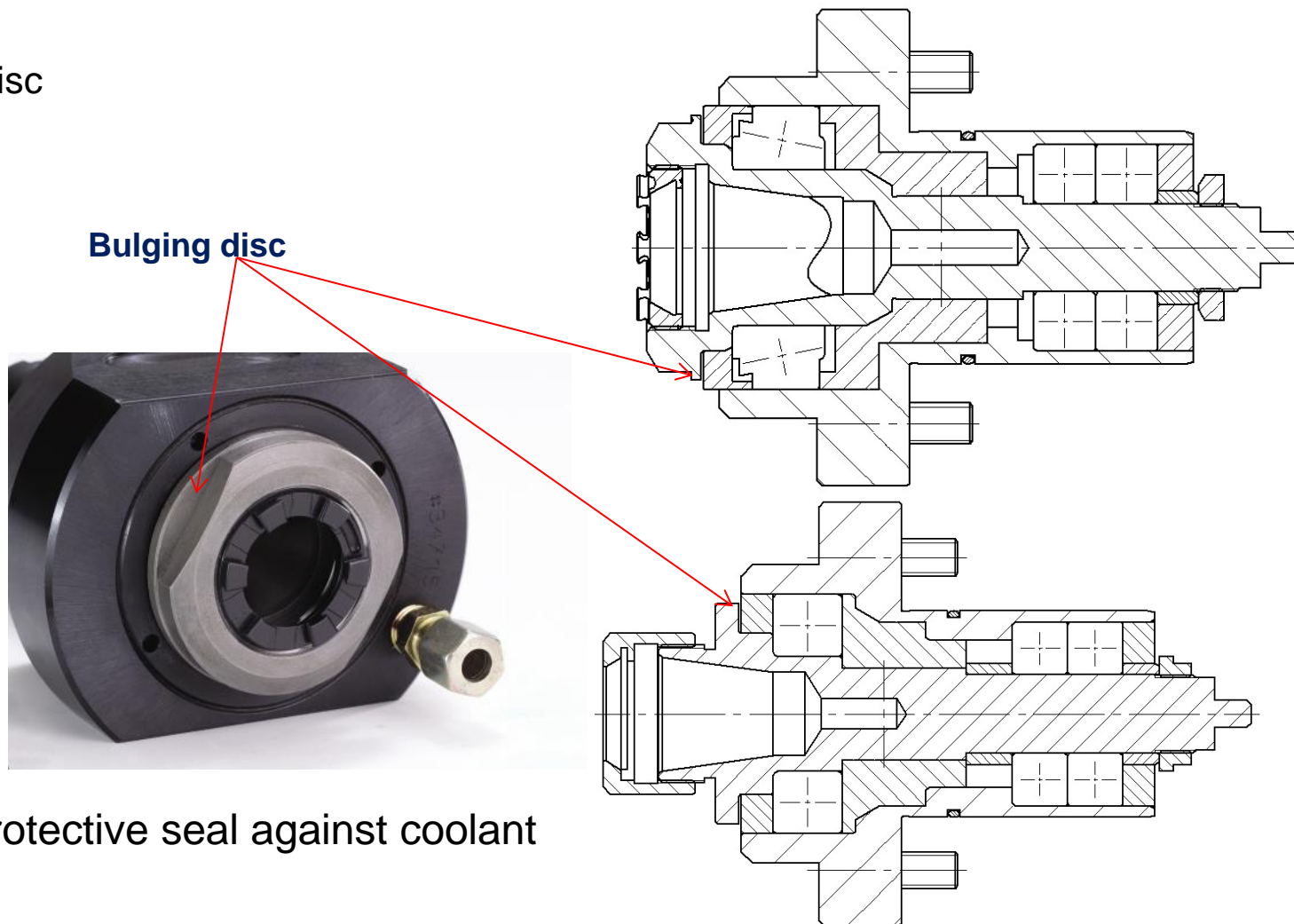
Technical details

Live Tooling for CNC Lathes with turrets

Technical details axial live tools



Bulging disc



protective seal against coolant

Axial drilling and milling head ext. coolant „**spindle bearing**„ **outside collet nut**

Standard VDI tools

Bulging disc

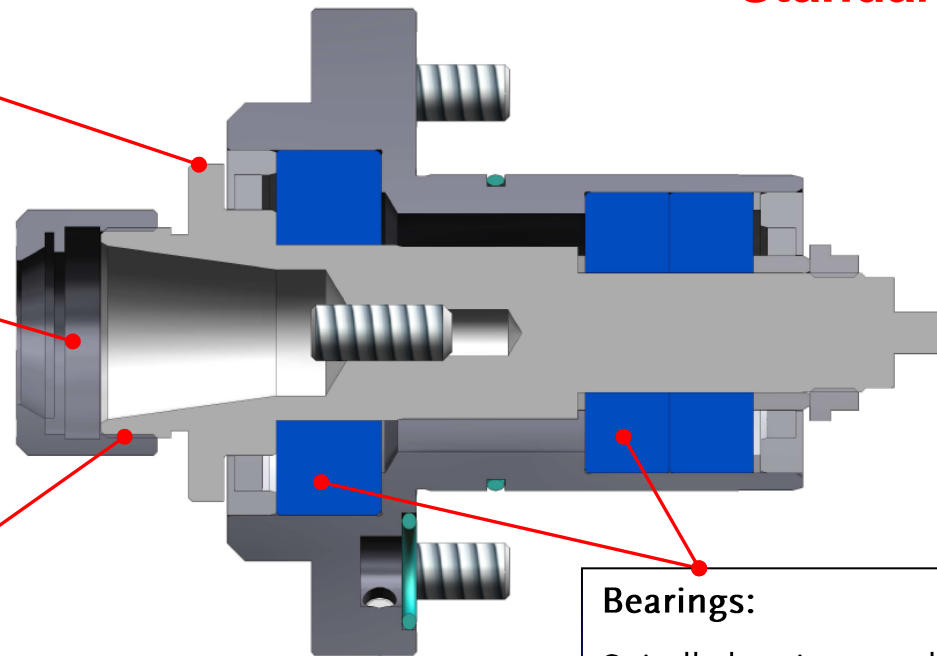
Standard collet nut
from Regofix
outside or inside.

Drill and mill spindle output:
hardened and grounded, threads grounded

Bearings:

Spindle bearings quality P4 (ABEC 7)
with medium preload;

As mill holder -> with stronger
bearings



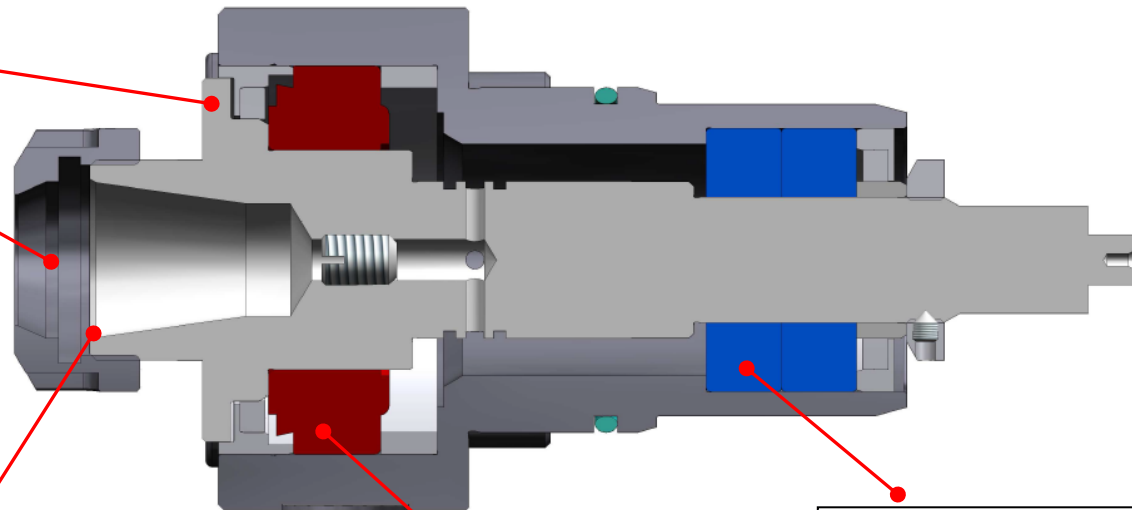
Axial drilling and milling head ext coolant „combi bearing“ outside collet nut

until 6000 – 8000 rpm

Bulging disc

Standard collet nut

from Regofix
outside or inside.



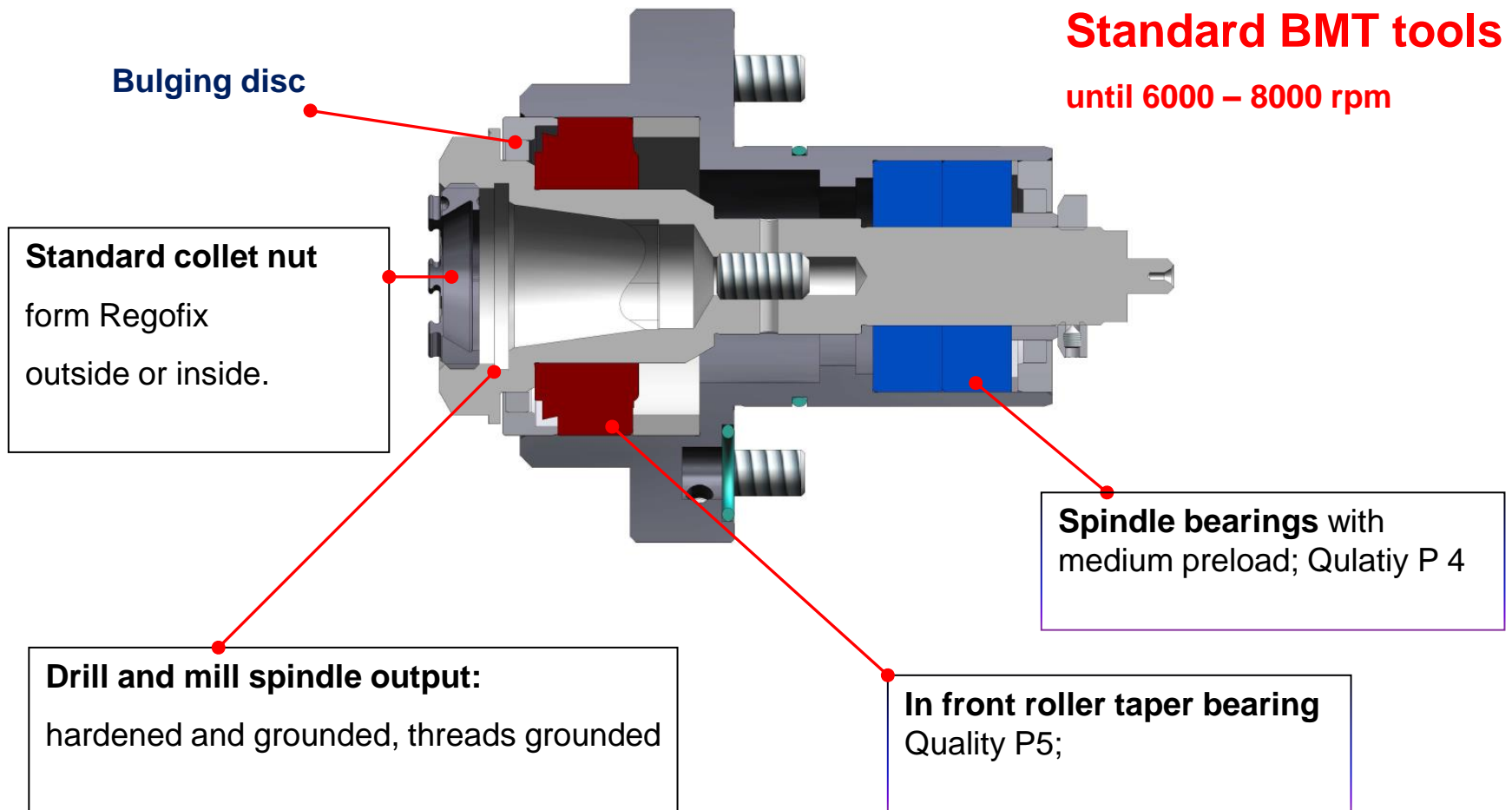
Drill and mill spindle output:

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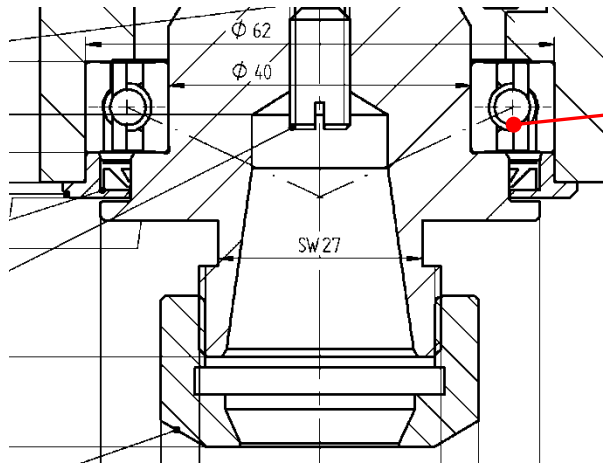
Spindle bearings with
medium preload; Quality P 4

In front roller taper bearing
Quality P 5;

Axial drilling and milling head ext. coolant „**combi bearing**“ inside collet nut



Technical Comparison spindle bearings with taper roller bearings

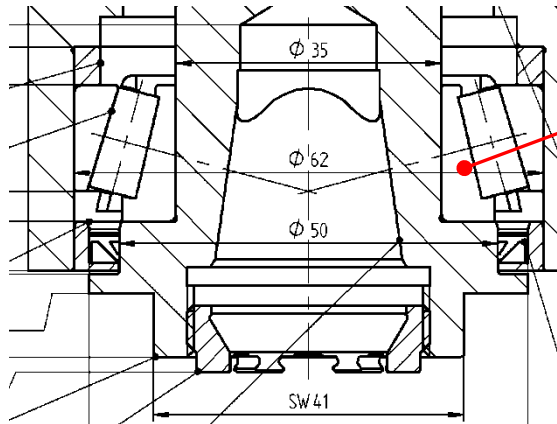


Spindle bearings

D= 40/62

load rating Dyn.

16.600 N -> 16,6 KN



Roller taper bearings

D= 35/62

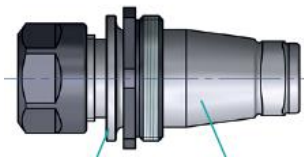
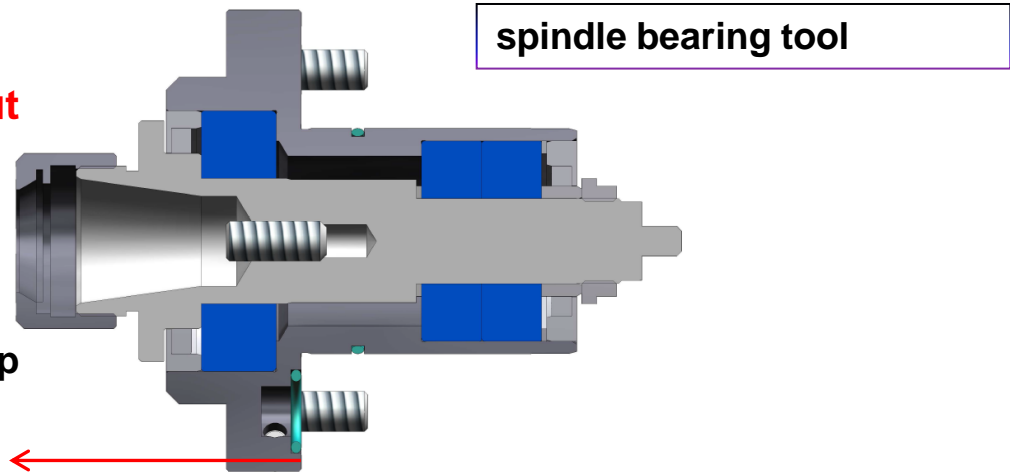
Load rating Dyn.

42.900 N -> 42,9 KN

Axial drilling and milling head **comparison**

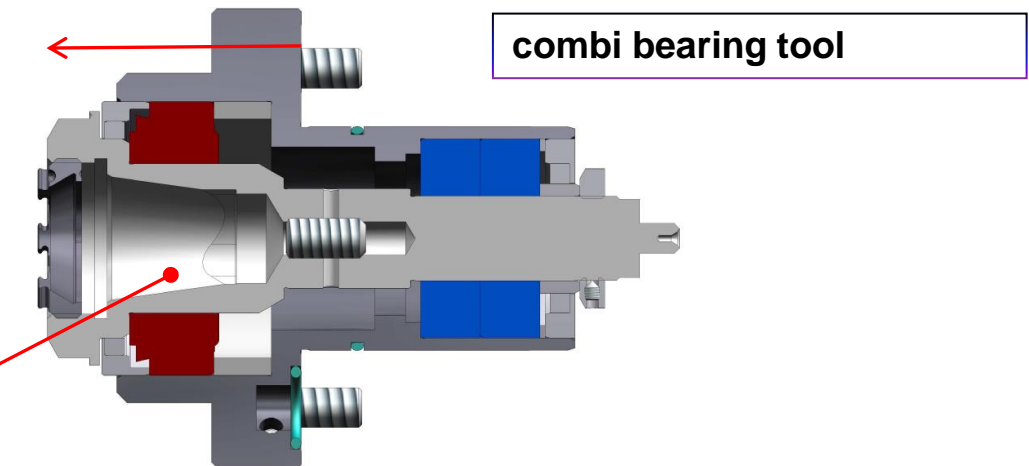
Combi bearing / inside collet nut advantage

- more rigid
- Good result regarding heating up
- Longer live time
- u- tec system



The cone is in the bearing

- short distance
- less torque on the bearing



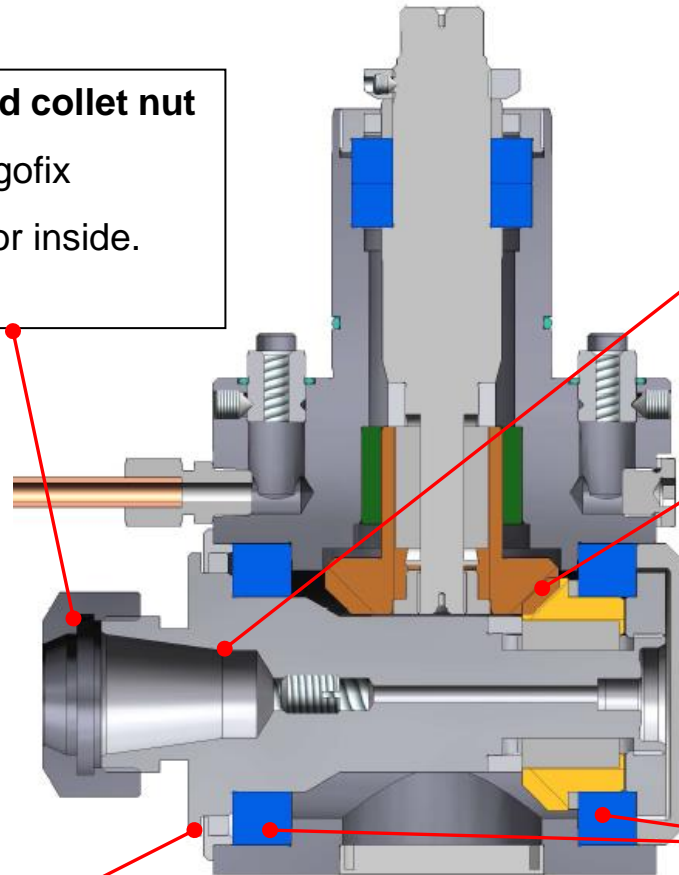
Technical details radial live tools



Radial drilling and milling head ext coolant „**spindle bearing**„ **out side collet nut**

Standard VDI tools

Standard collet nut
from Regofix
outside or inside.



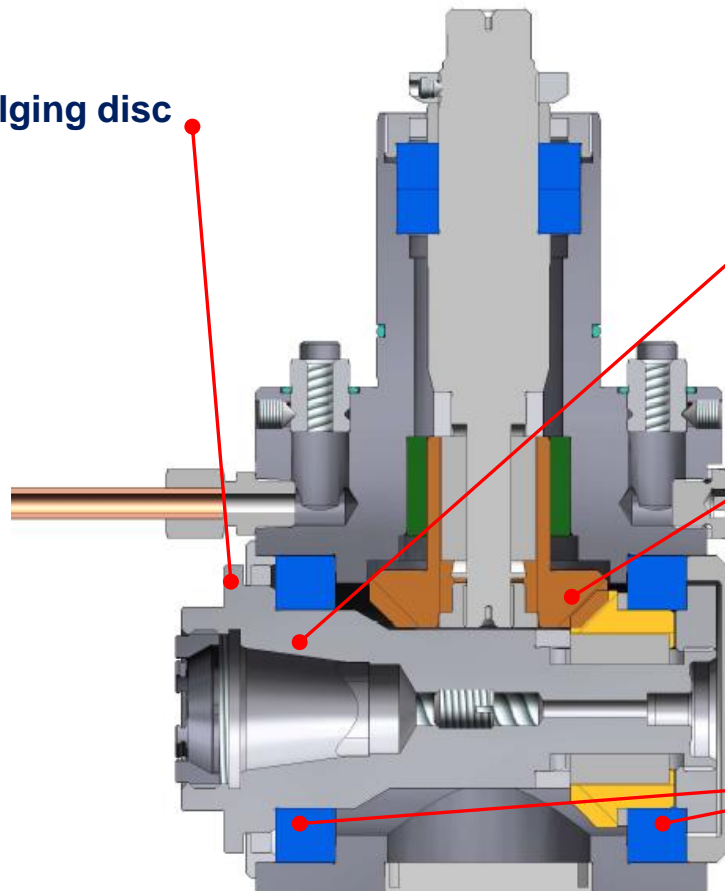
Bluing disc

- ❖ **Drilling and milling spindle:**
Hardened and grinded or hard turned
Threads ground, also threads for bearing packages
⇒ Good run out
- ❖ **Gears:**
Spiral bevel gears as per Klingelnberg
⇒ Smooth run, high drive torque at small dimensions
Bevel lapped in sets
If replaced always in sets
Gear ratio: Increaser and de-increaser available
- ❖ **Bearings:**
Spindle bearings quality P4 (ABEC 7)
with medium preload;

Radial drilling and milling head ext coolant „**spindle bearing**,, **inside collet nut**

Standard VDI tools

Bulging disc



❖ **Drilling and milling spindle:**

Hardened and grinded or hard turned
Threads ground, also threads for bearing packages
⇒ Good run out

❖ **Gears:**

Spiral bevel gears as per Klingelnberg
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Gear ratio: Increaser and de-increaser available

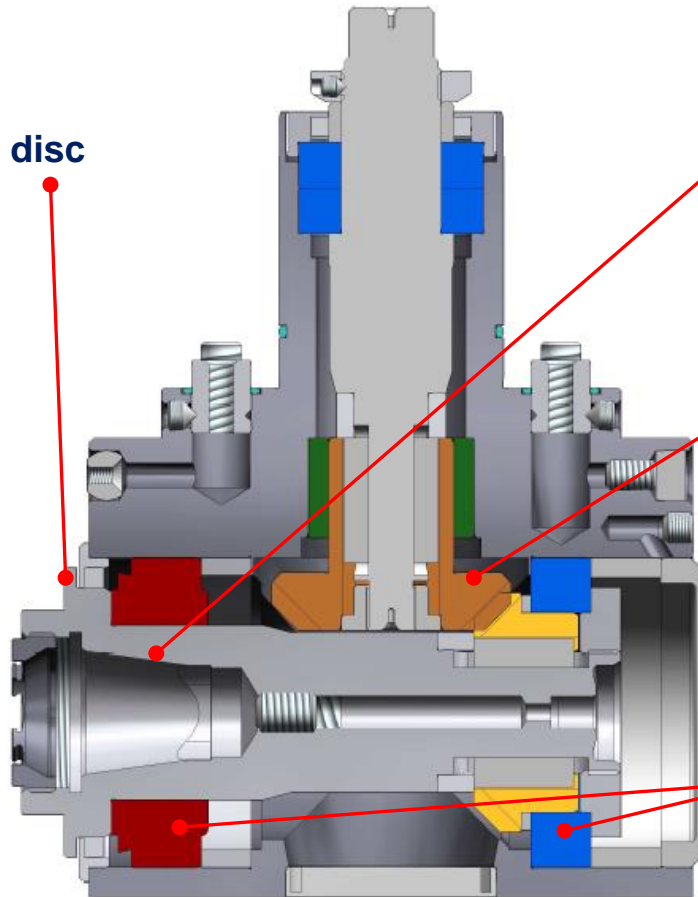
❖ **Bearings:**

Spindle bearings quality P4 (ABEC 7)
with medium preload;

Radial drilling and milling head ext coolant „combi bearing,, inside collet nut

Standard VDI tools
until 6000 – 8000 rpm

Bulging disc



❖ **Drilling and milling spindle:**

Hardened and grinded or hard turned
Threads ground, also threads for bearing packages
⇒ Good run out

❖ **Gears:**

Spiral bevel gears as per Klingelnberg
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Bevel lapped in sets
If replaced always in sets

Gear ratio: Increaser and de-increaser available

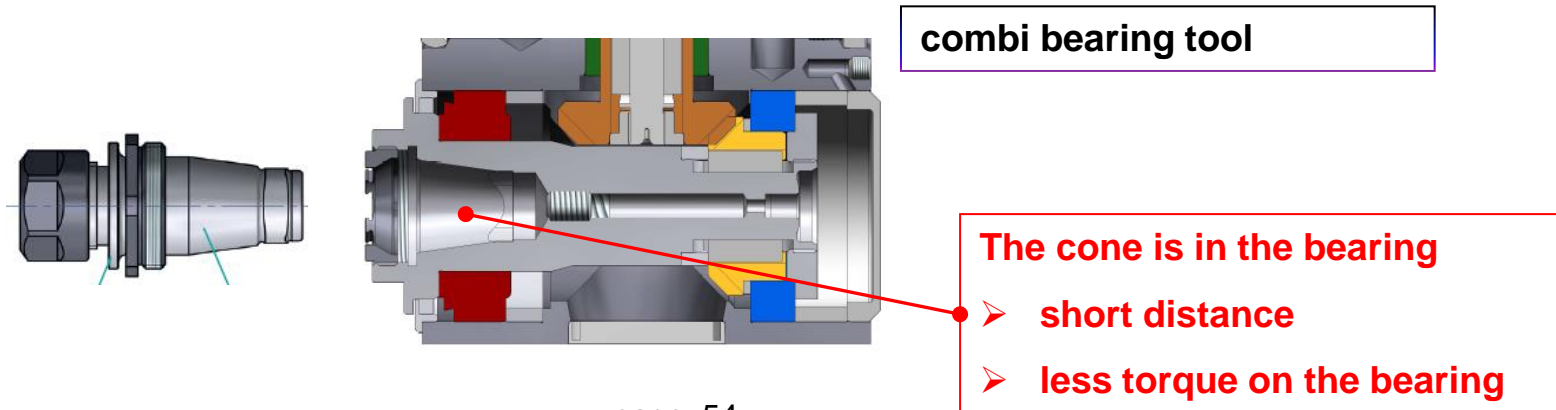
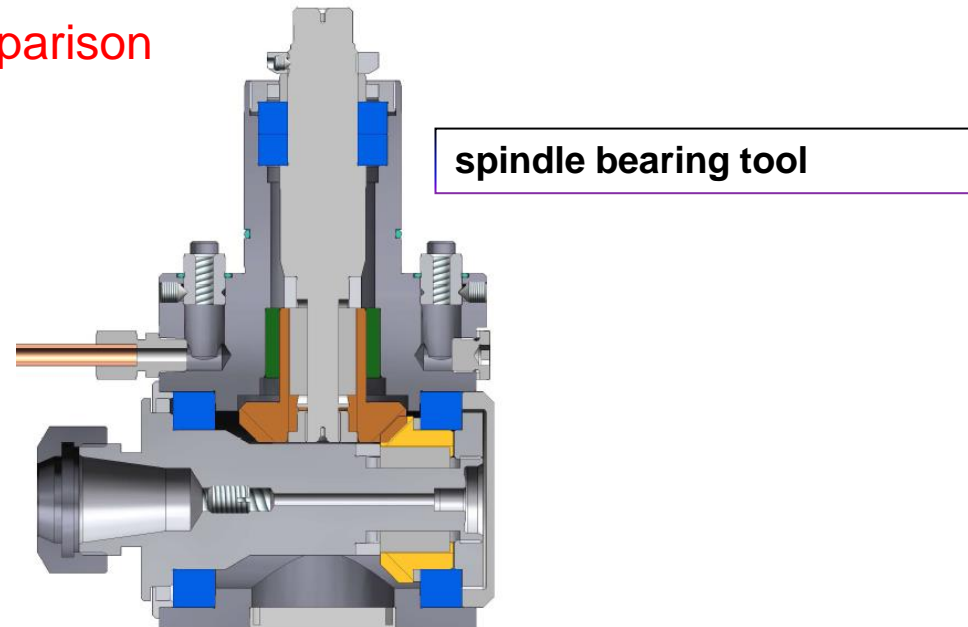
❖ **Bearings:**

Spindle back side
Roller taper bearing front side

radial drilling and milling head **comparison**

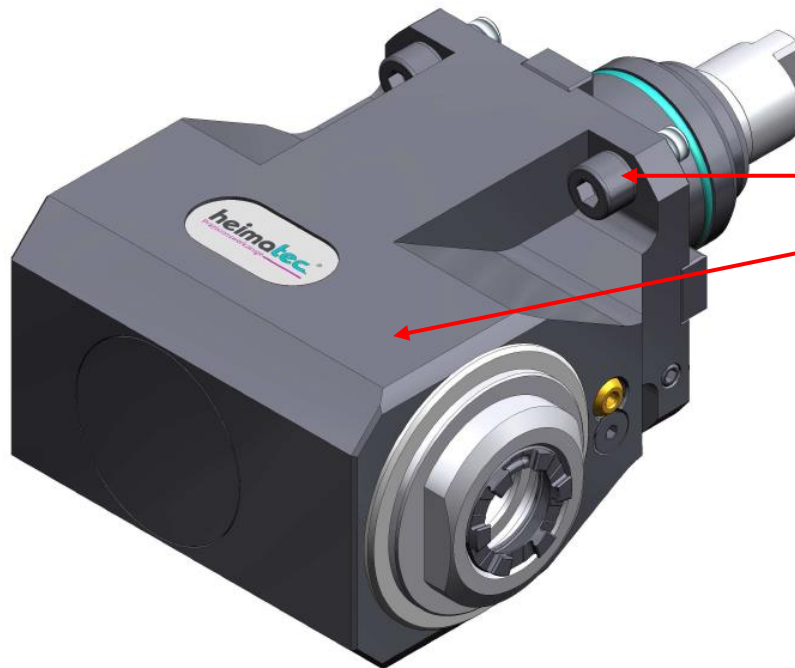
Combi bearing / inside collet nut advantage

- more rigid
- good result regarding heating up
- longer live time
- u- tec system



Radial drilling and milling head „BMT tools have only one housing“

Standard version BMT



❖ Optimized housing design

- short screw connection to turret
- bigger bearings
- less vibrations



end

Thank you for your attention !

About a positive cooperation, we would
be very happy!