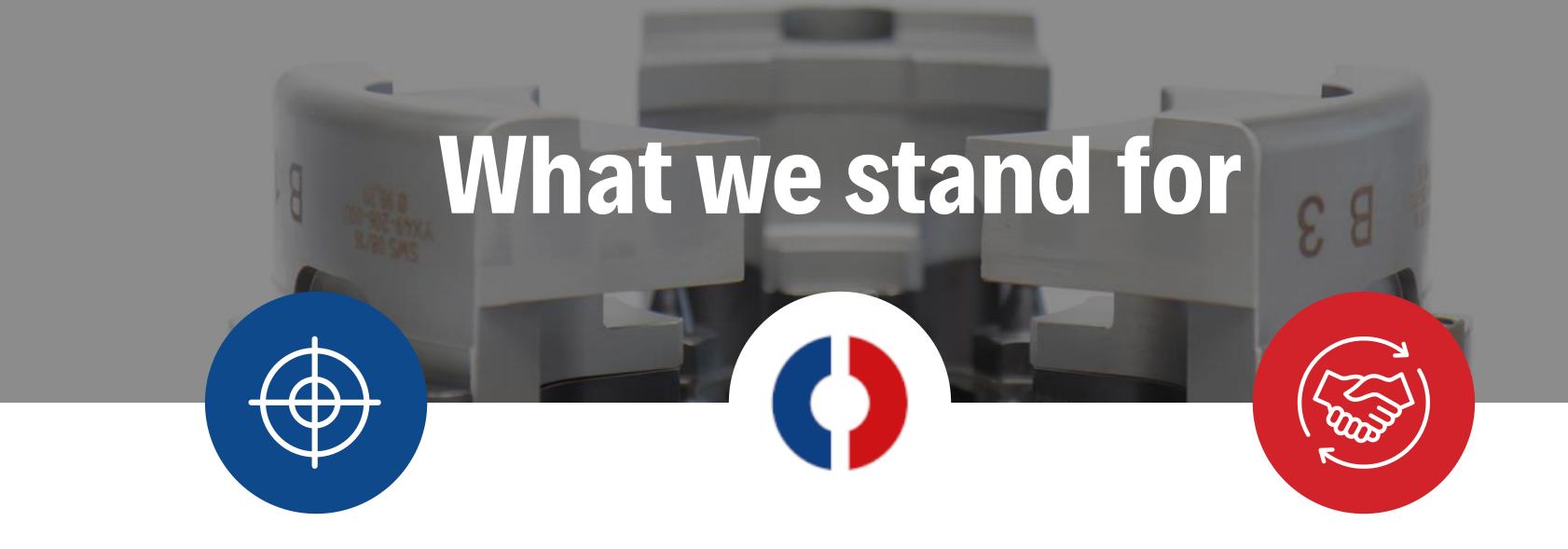






# Spannwerkzeuge

Spannende Aufgaben - Perfekte Lösungen



#### **Precision & Perfection**

Perfection is the demand on our production, which enables us to manufacture clamping devices with concentricity accuracies of less than 3µm.

#### **Experience & know how**

In the manufacture of our clamping devices, we rely on over 100 years of experience in design and our high-precision manufacturing expertise.

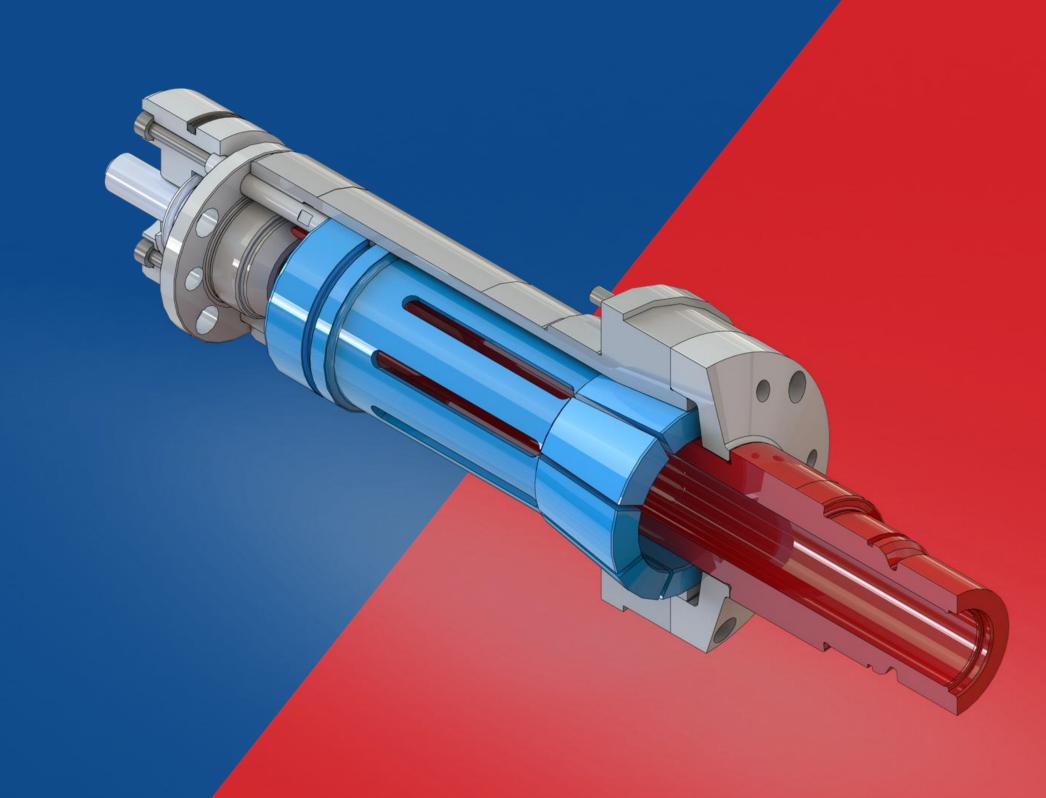
#### **Customer focus**

On-site and remote first-class customer support from our technical sales, design and service engineers.



## Clamping solutions

- Diaphragm chucks
- Collets for skiving tools
- Inner & outer clamping
- Special solutions
- Standart collets and mandrels



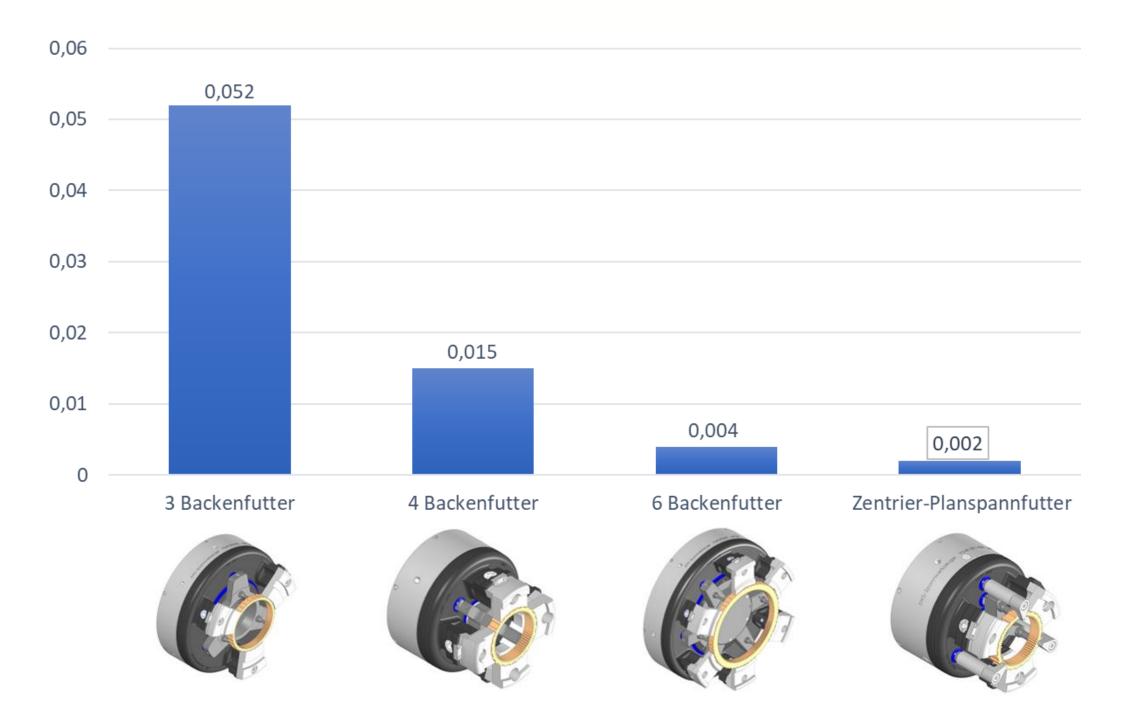


Low-deformation clamping, external





Low-deformation clamping, external







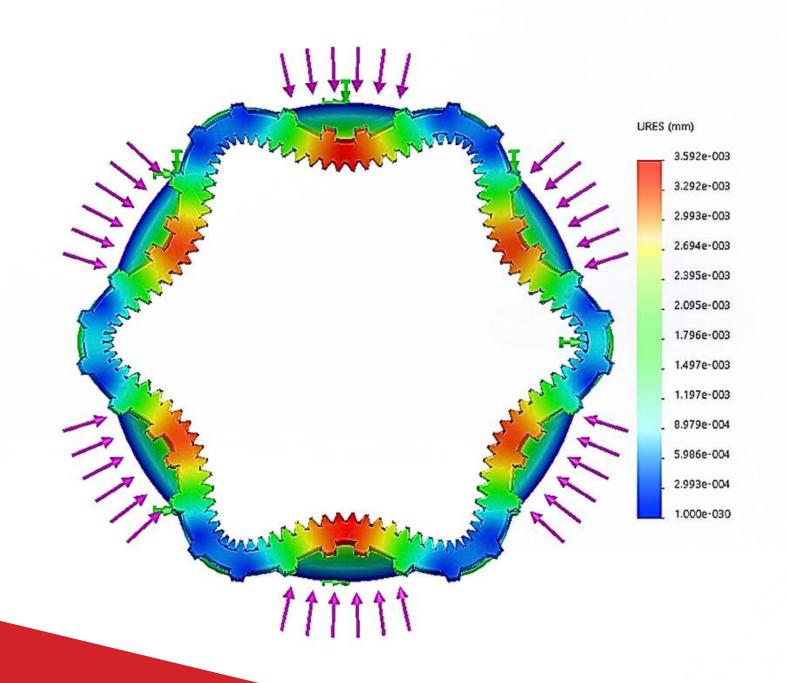
#### **DIAPHRAGM CHUCK:**

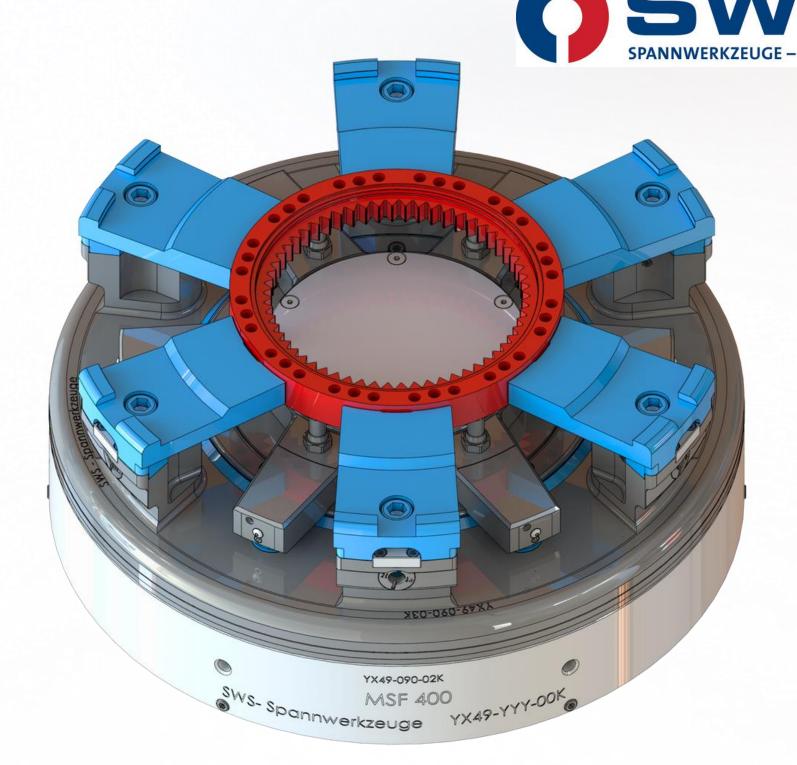
CLAMPING RADIAL: 3000N

#### **CENTERING AXIAL CHUCK:**

CENTERING RADIAL: 300N CLAMPING AXIAL: 3000N

Low-deformation clamping, external





**WORKPIECE: RING GEAR** 

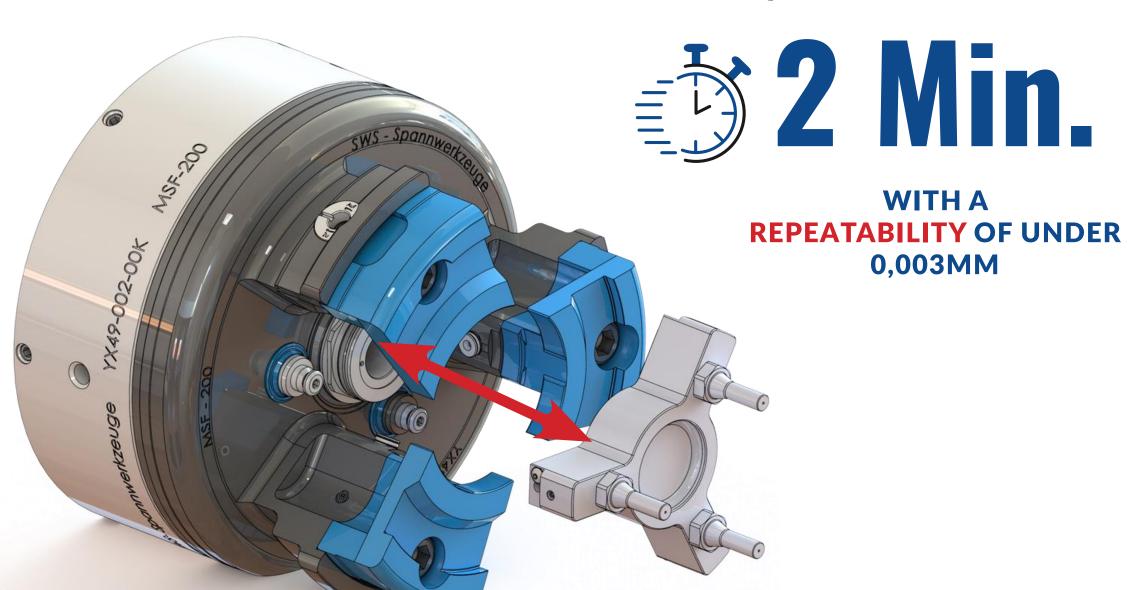
**CLAMPING FORCE: 3000N** 

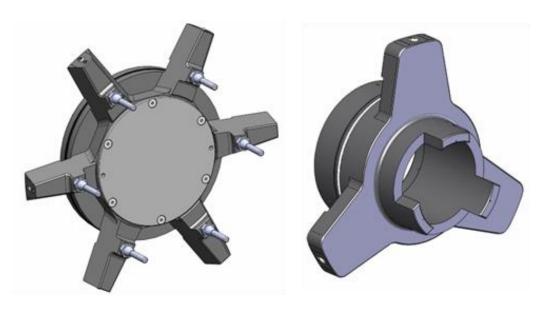
**DEFORMATION: 0,004MM** 

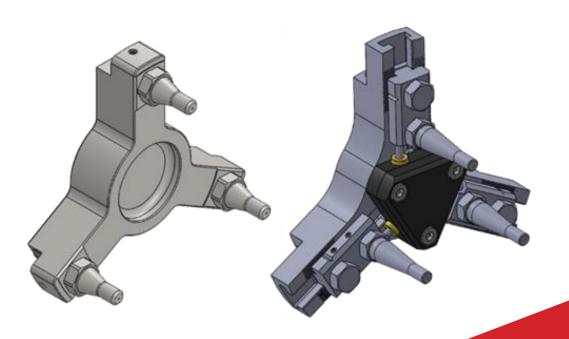


Planar stop - QUICK CHANGE - System

**QUICK CHANGE IN UNDER** 

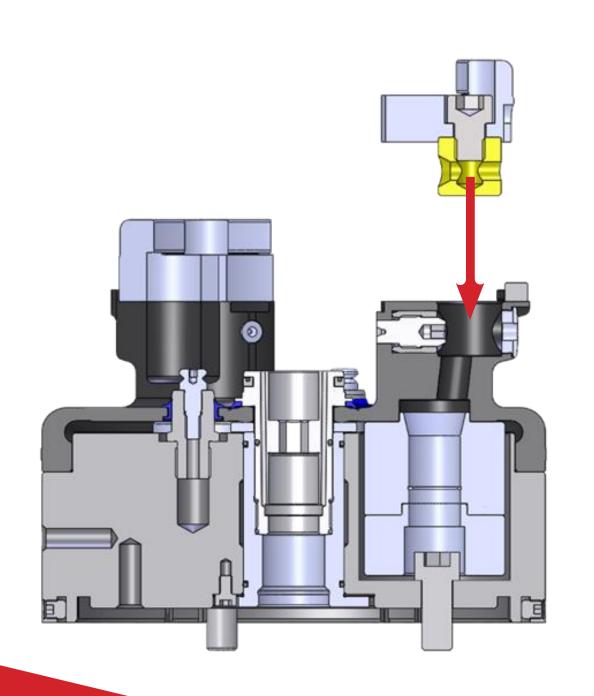


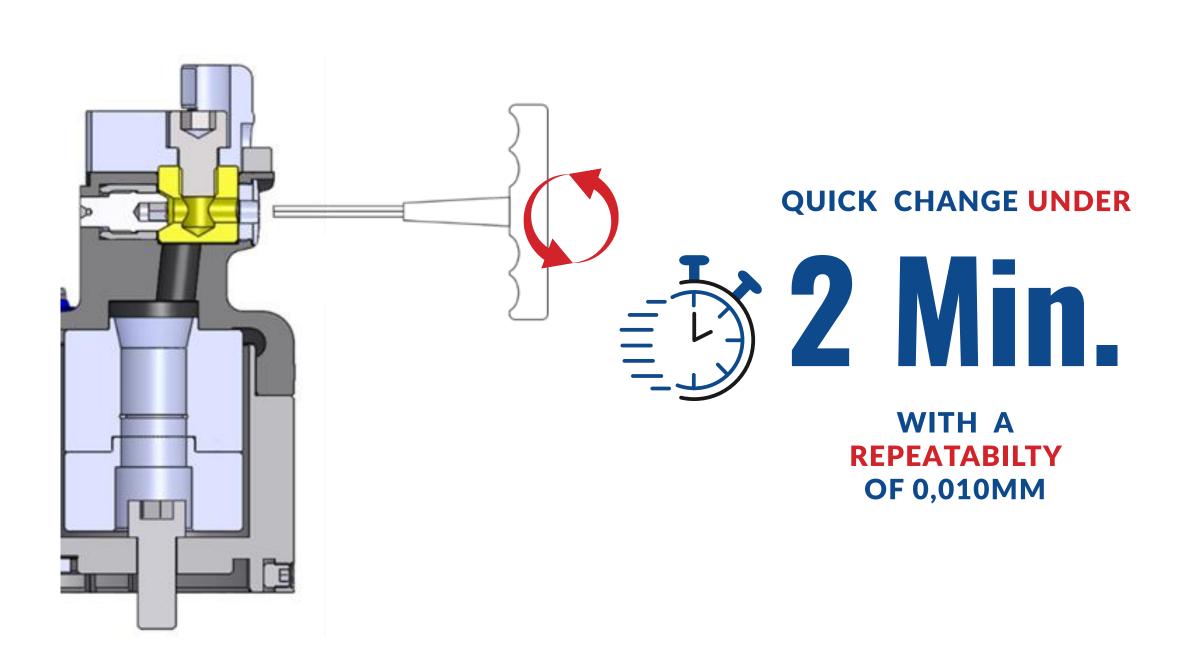






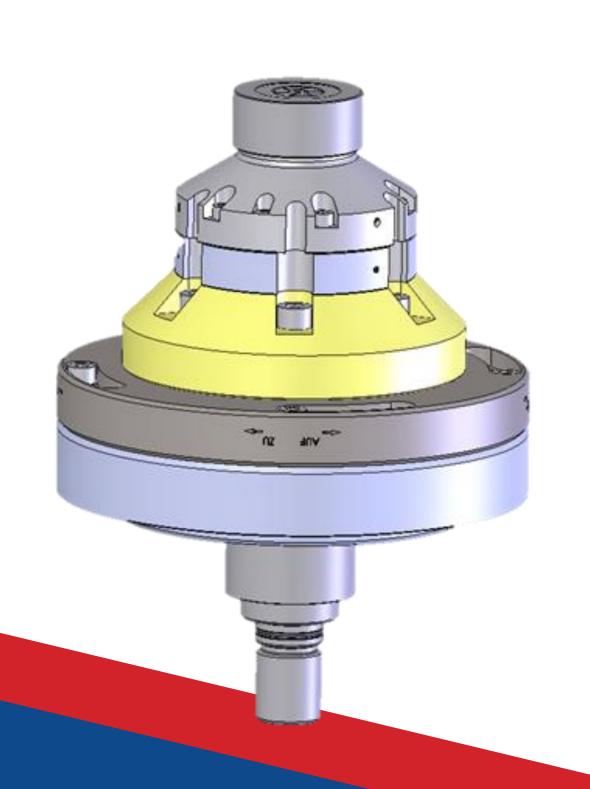
Clamping jaws - QUICK CHANGE-System

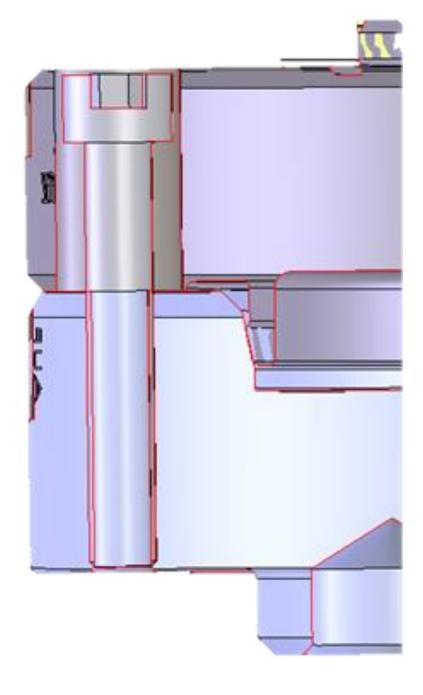


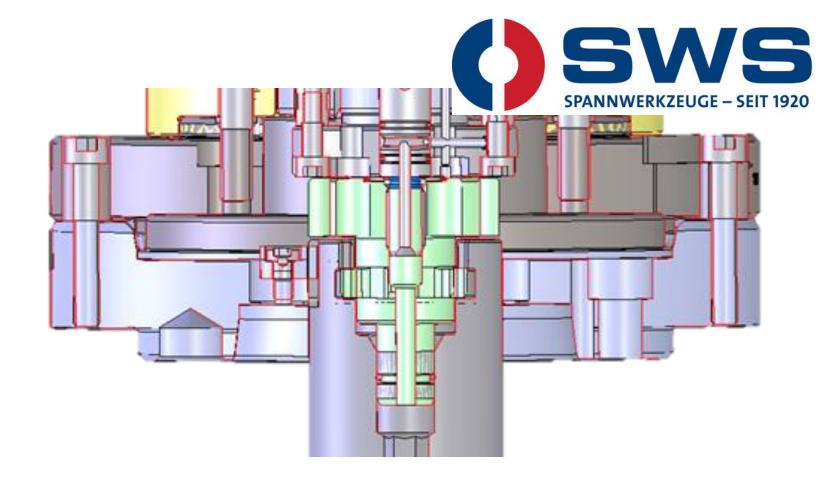


#### Developments

Clamping - QUICK CHANGE - System







**QUICK CHANGE IN UNDER** 



WITH A
REPEATABILITY
OF UNDER 0,010MM

## Collets for skiving tools





## Collets for skiving tools

Advantages for your process

- Self centering of the tool
- Optimized roundness <3µm</li>
- Without the need of manual tool alignment
- Time saving quick change system
- Protection of your tools

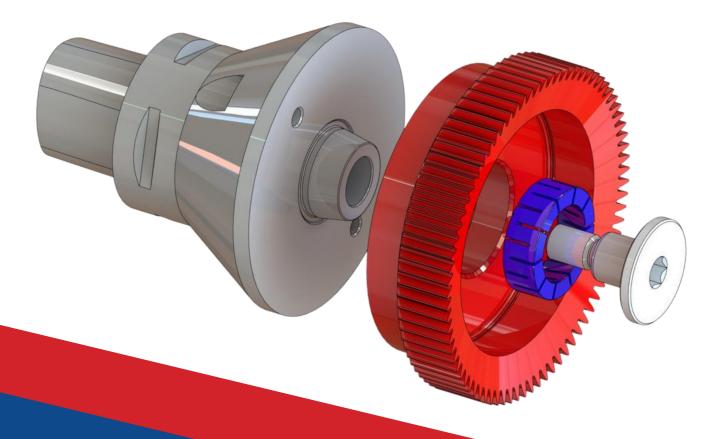


## Collets for skiving tools

**QUICK CHANGE IN UNDER** 



WITH A
REPEATABILTY
OF UNDER 0,005MM







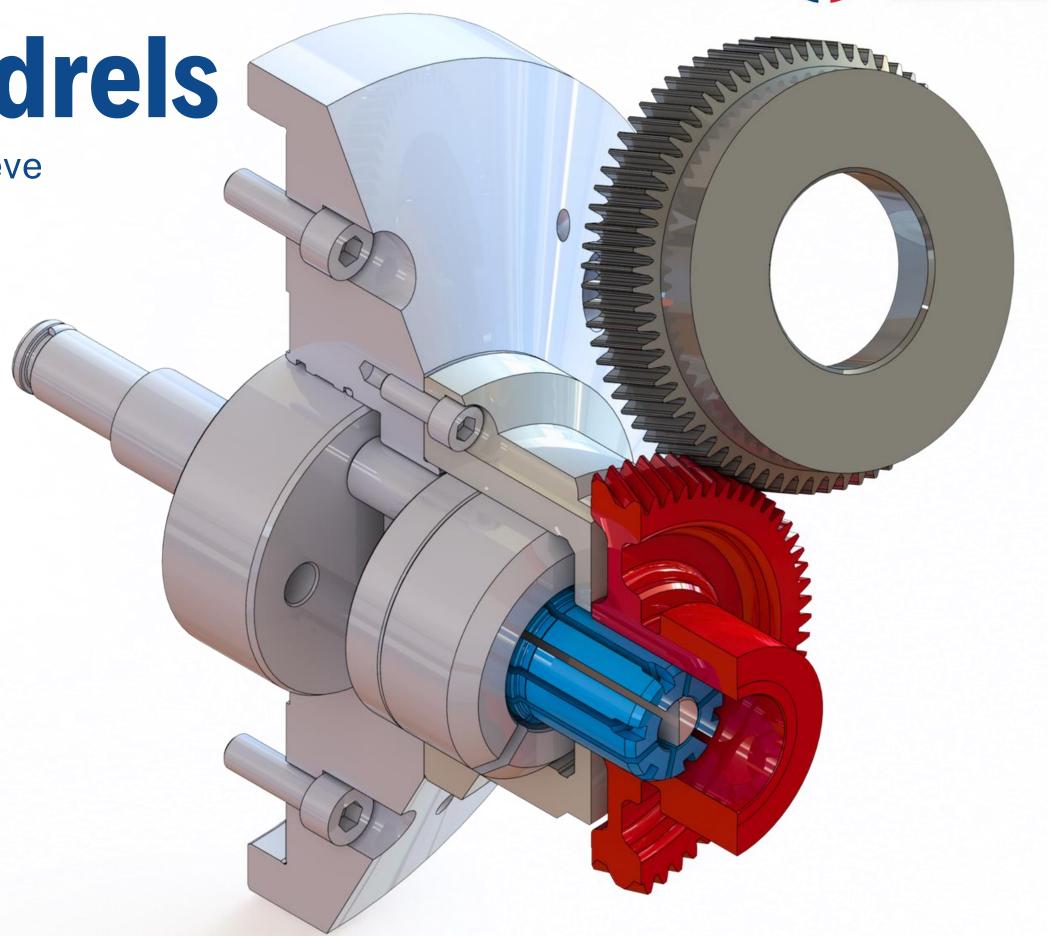


Clamping mandrels

Clamping with segment clamping sleeve

ROUNDNESS: 0,003 MM

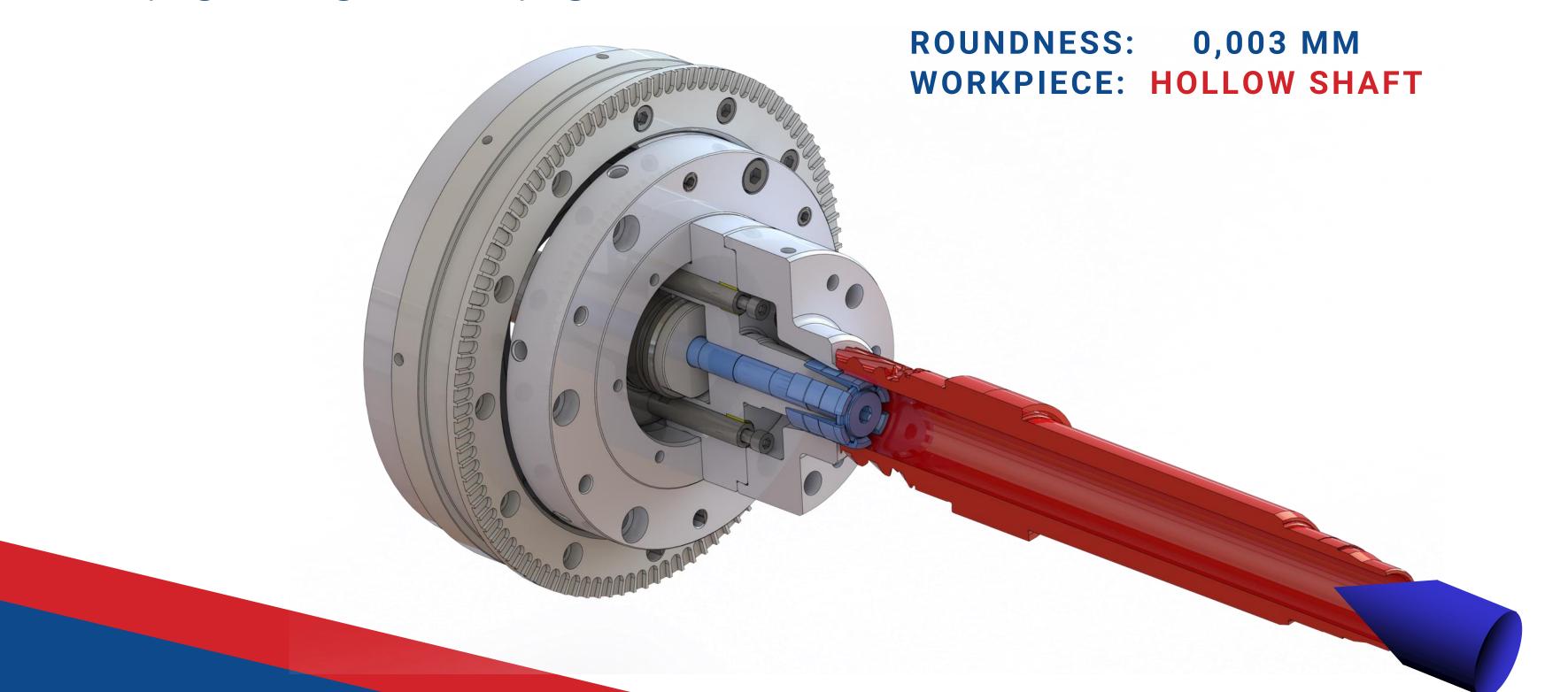
**WORKPIECE: PLANETARY GEAR** 





#### Clamping mandrels

Clamping with segment clamping sleeve





Clamping mandrels

Clamping with gearing collet chuck

ROUNDNESS: 0,003 MM

WERKSTÜCK: GEAR



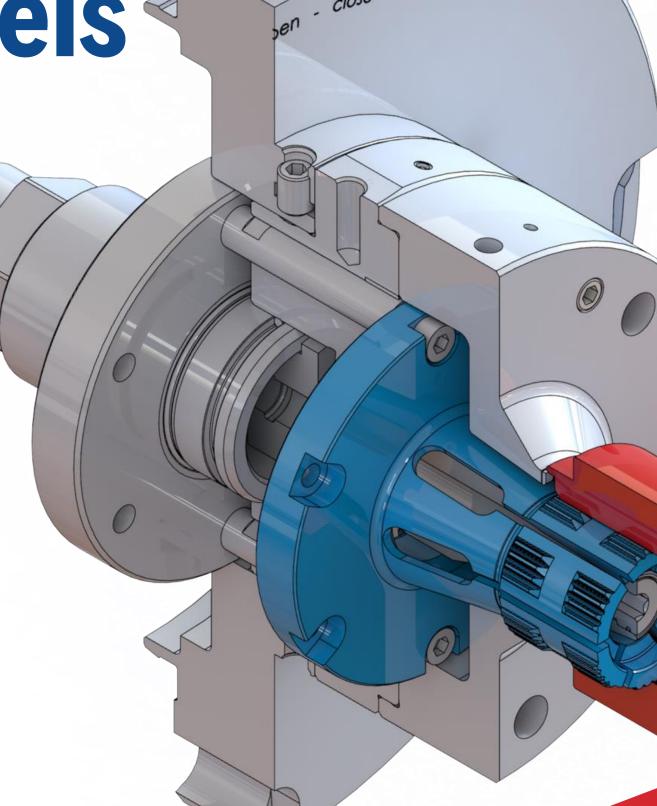












## Special solutions







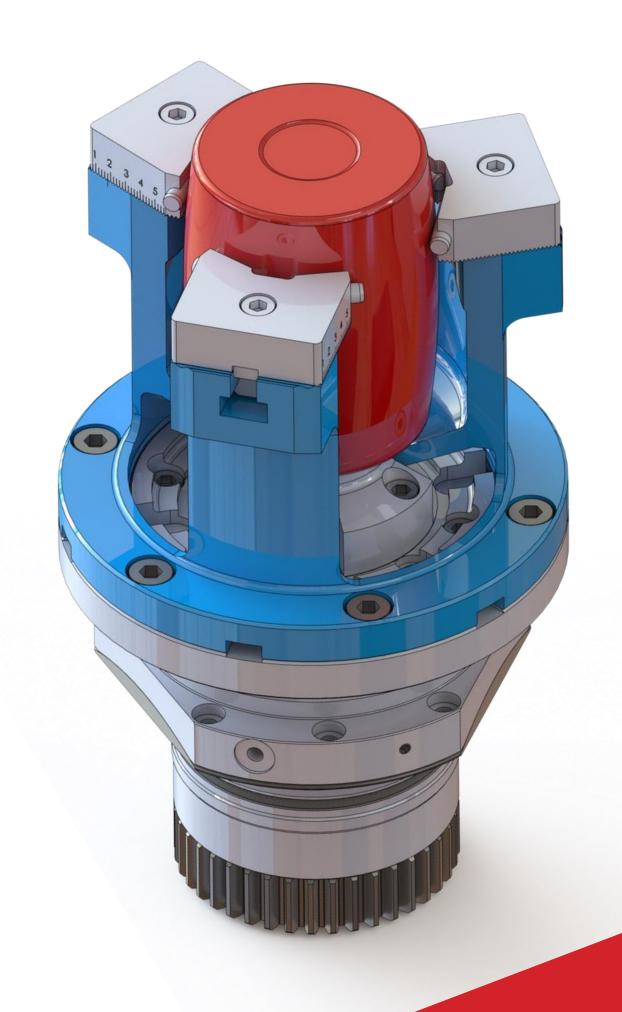
### Special chuck

With adjustable jaws

ROUNDNESS: 0,003 MM

**WORKPIECES: BARREL SHAPED** 

**CYLINDER** 



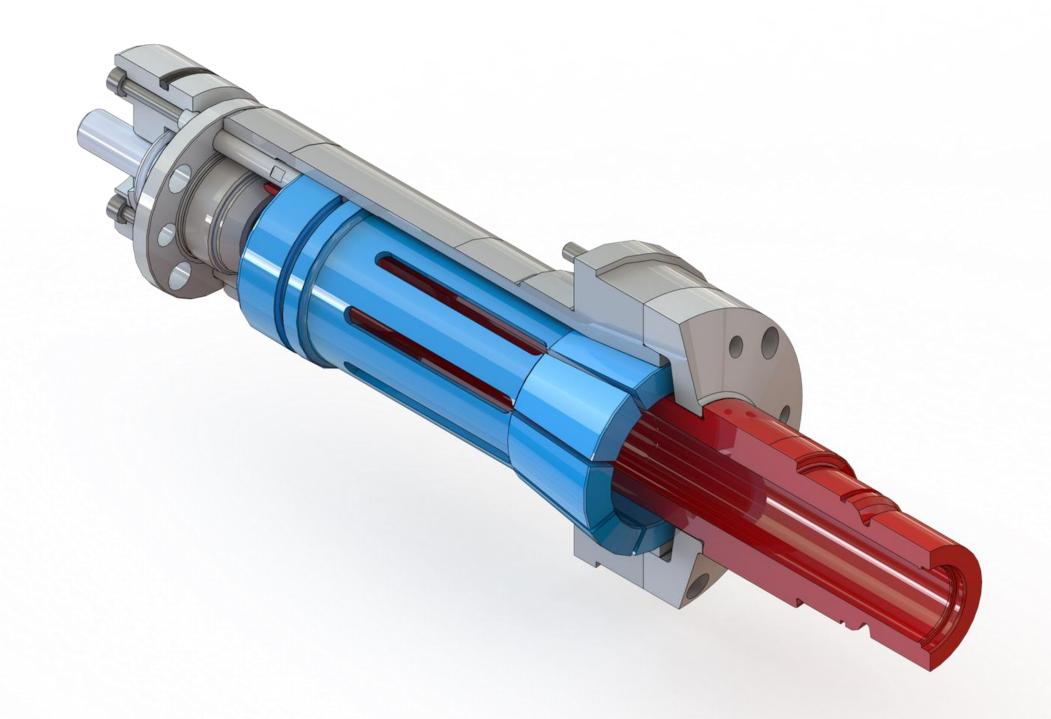


#### Collet chucks

Clamping with collet chuck

ROUNDNESS: 0,003 MM

**WORK PIECES: SHAFTS** 





Clamping mandrel

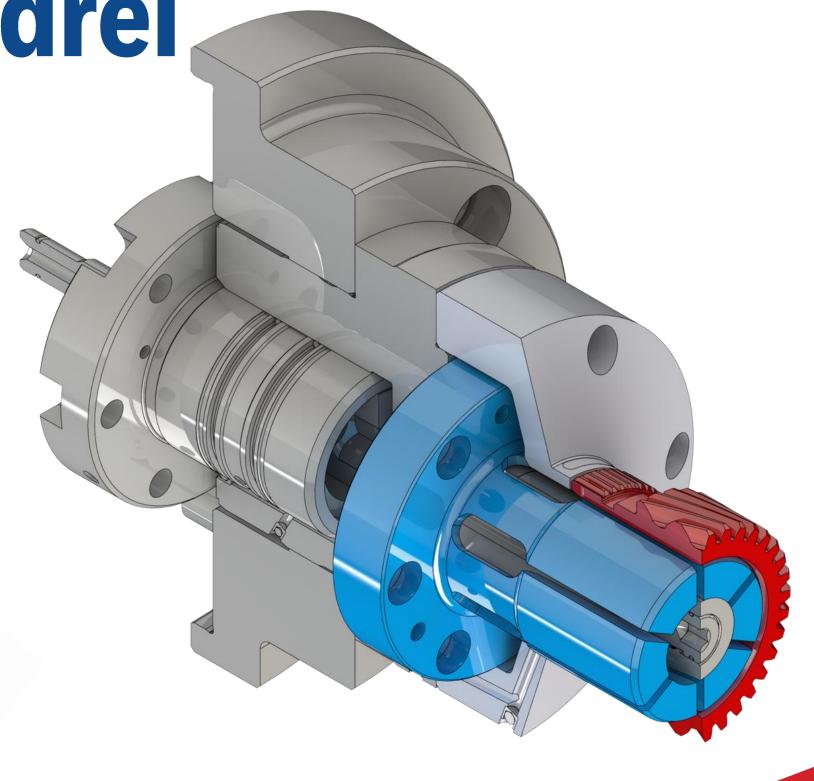
According to customer drawing

ROUNDNESS: 0,003 MM

WORKPIECE: GEAR

LOADING: AUTOMATIC



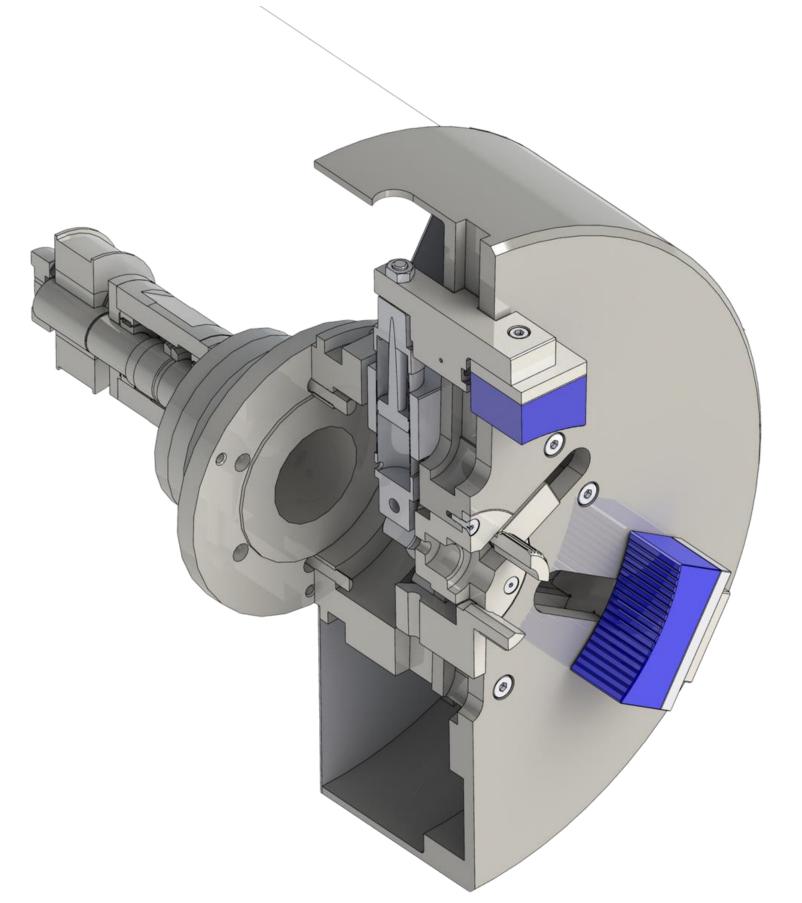




#### Combi chuck

For simultaneous internal and external clamping

WORKPIECES: THIN WALLED CYLINDRICAL WORKPIECES



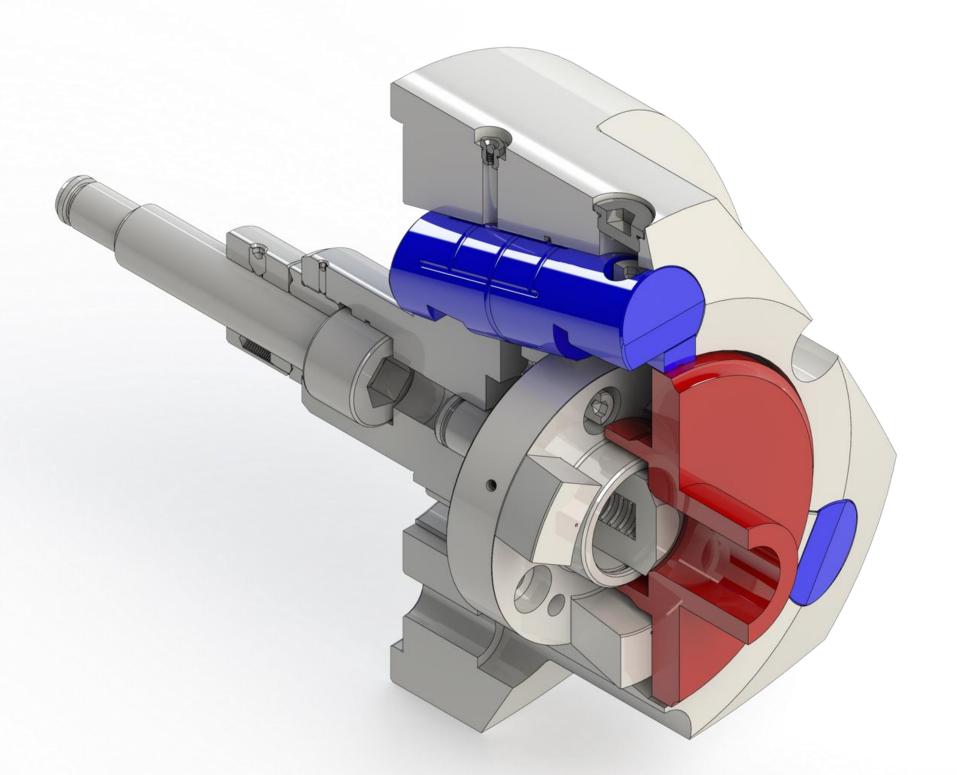


### Angled pin chuck

Clamping with inclined bolts

**ROUNDNESS: 0,005 MM** 

**WORKPIECES: CYLINDRICAL PARTS** 

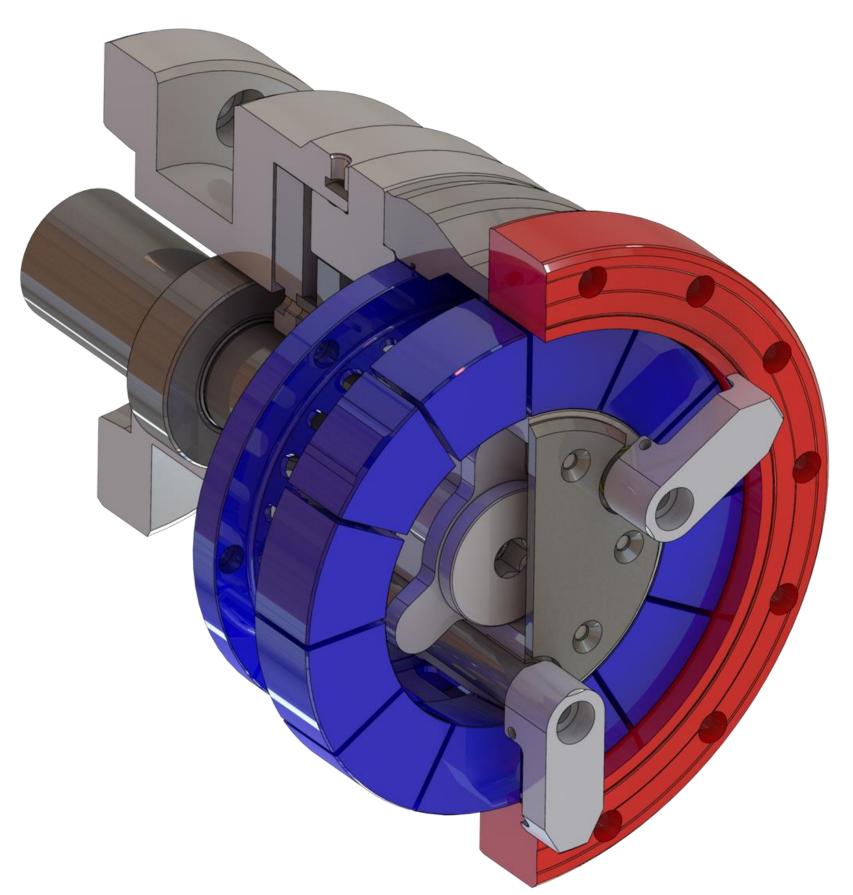


#### Axial clamping chuck



Clamping of ring gears

- Axial clamping mandrel
- Collet (inside) just for centering
- Front side axial clamping via separate moving clamping fingers

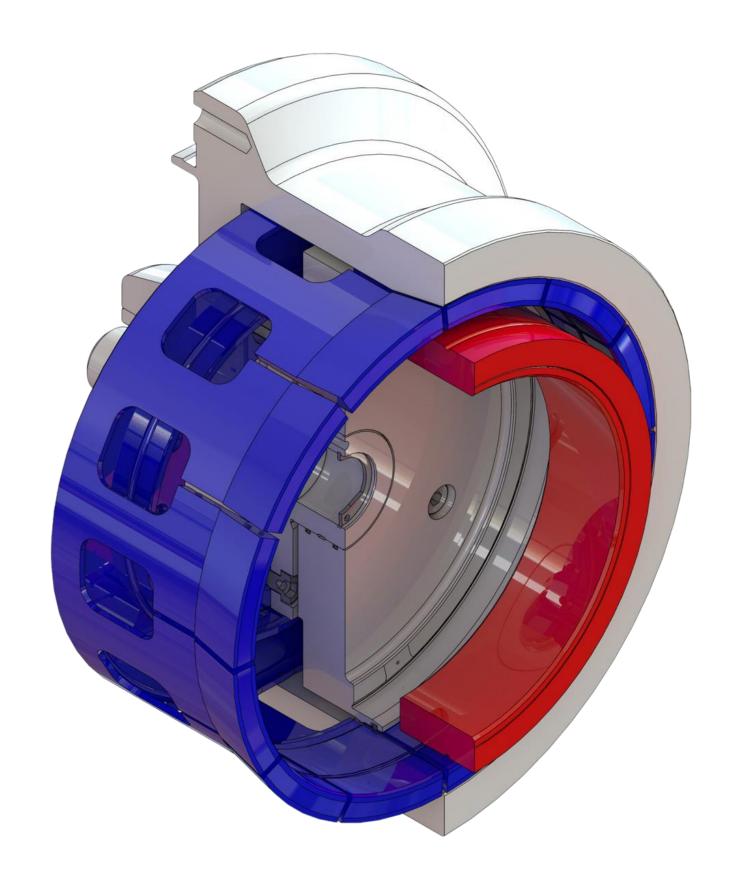


#### Collet chuck

Clamping of ring gears

- Work piece stopper inside
- Radial clamping on gear teeth possible via collet







#### Collets & Mandrels





## VULCANIZED COLLETS

FAST. EFFICIENT. LONG LIFE.

- comlex geometries
- vulcanizing done hot & cold
- long life span
- single parts or series









#### Collets

special collets











#### Collets

Double cone collets











#### Collets

Collets with carbide insert





#### Our statisfied customers













































































































