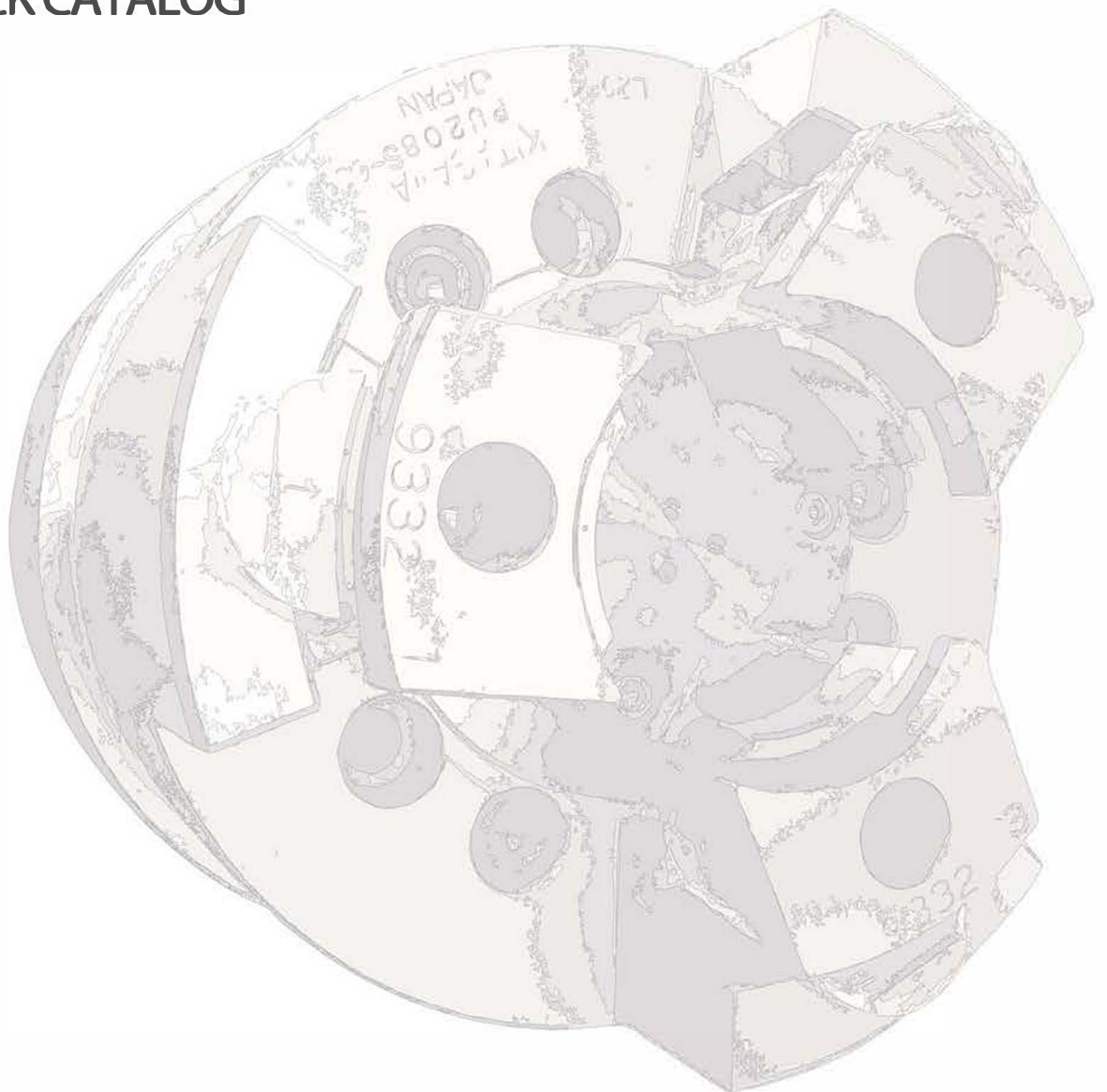


# Chuck

DG CHUCK CATALOG



# DL200 Series

## Dual Lock Chuck

**A revolutionary chuck with the worlds first 2-way gripping system**

**Unbelievable versatility with the ability to grip anything you want**

## DL200 SPECIAL FEATURES

### ● Increased gripping options

KITAGAWA introduces the worlds first chuck with two stage gripping action.

Parallel jaw clamping with secondary pull back action for work seating.

Jaws do not protrude in the Z axis unlike conventional pull back chucks. This allows for improved gripping on difficult areas.

The gripping range is extended up to the chuck OD allowing a wider range of workpieces to be machined.

### ● Ideal for volume production machining

Dust proof sealed body design for long life. Suitable for automation and volume production.

### ● Easy jaw forming

Standard serrated jaws are used for easy jaw forming by customer.

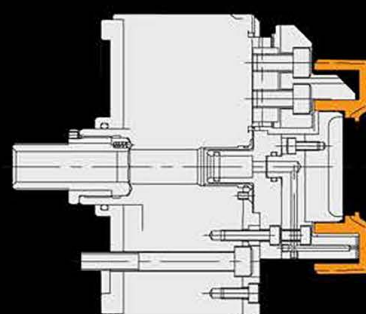
\* CE Correspondance



DL208

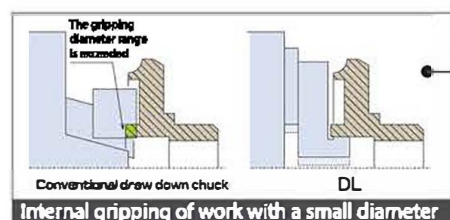
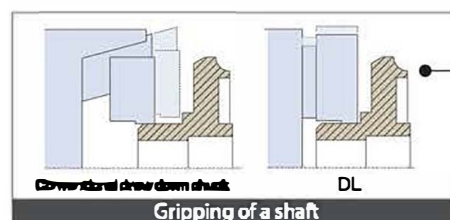
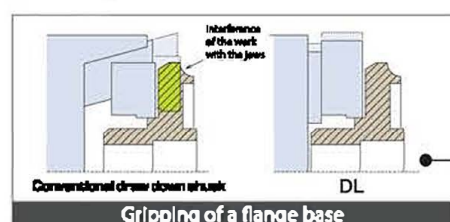
**Dual Lock**

### GRIPPING EXAMPLE

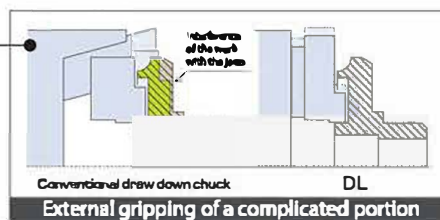
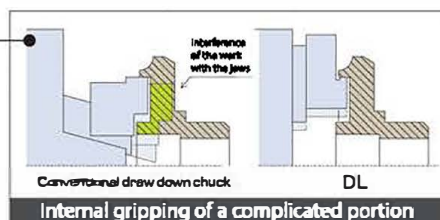
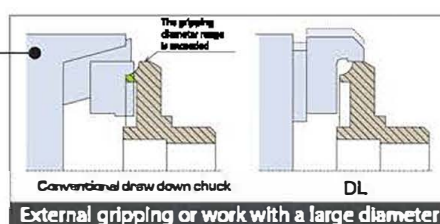


RING

### Example

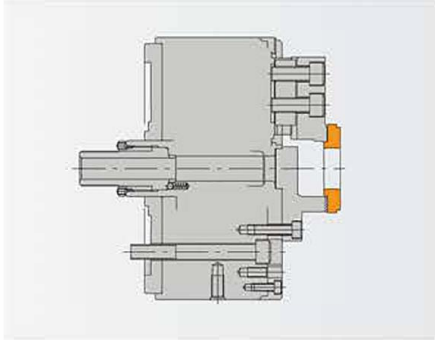


Possible gripping position  
**DL Chuck**  
 Conventional draw down chuck

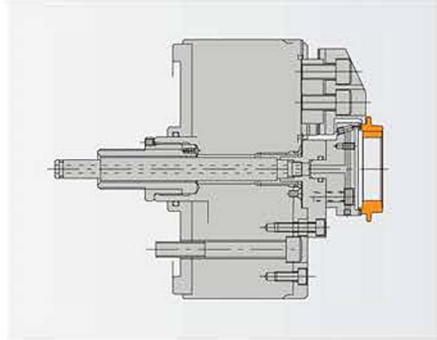


## DL200 Series - Gripping Examples

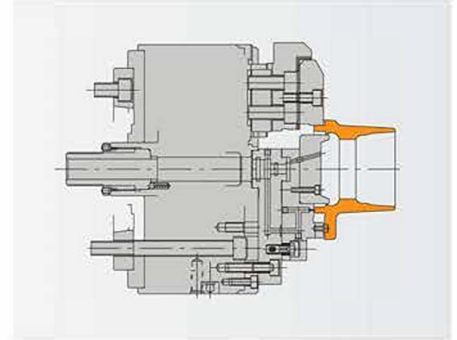
● SUB GEAR



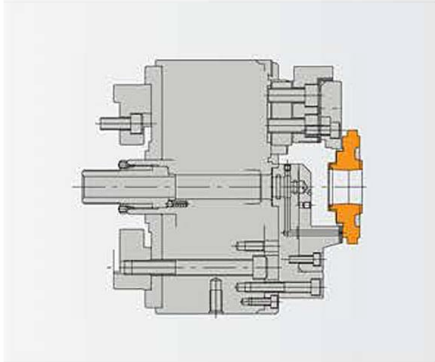
● SPROCKET



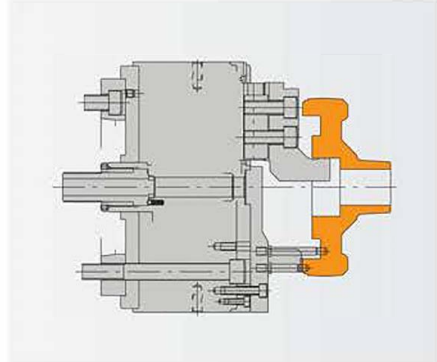
● HUB



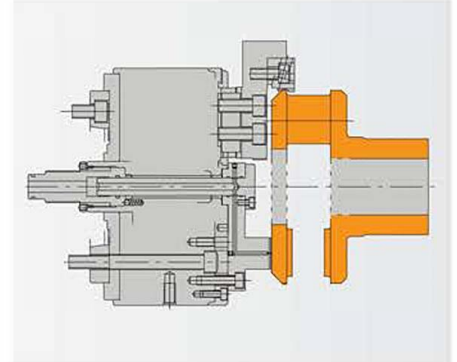
● GEAR



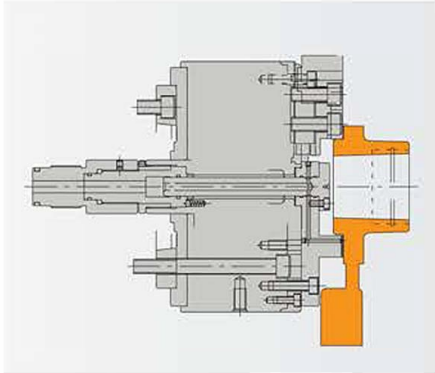
● BEARING



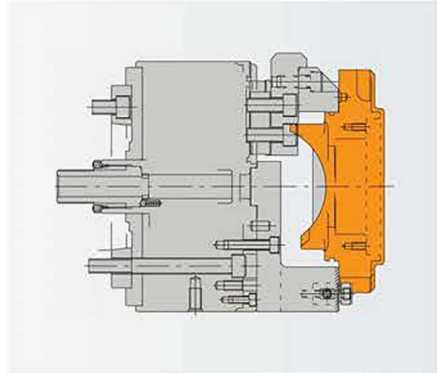
● CARRIER



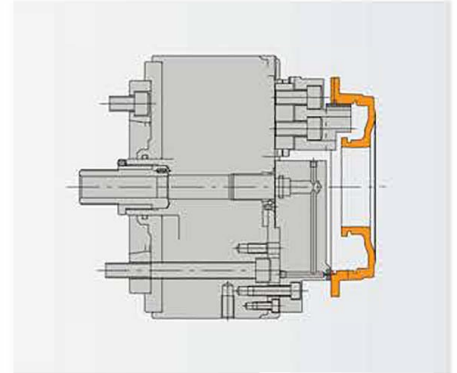
● RETAINER



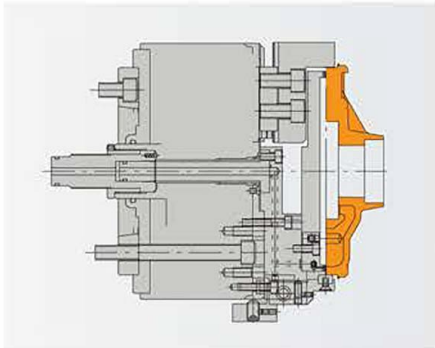
● BODY



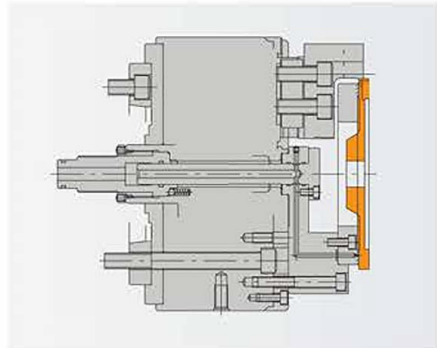
● CLUTCH



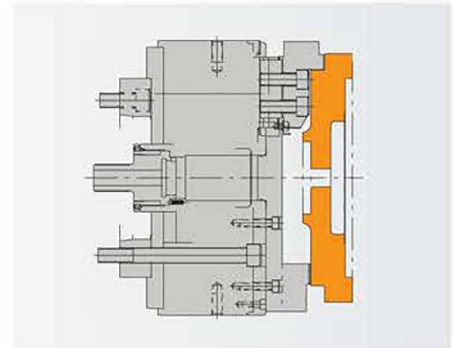
● BODY



● DISK



● FLYWHEEL





# PW(C) Series

## Power Wing Chuck

※ PWC has the same specification as PW with the exception of the fact that PWC is a compensation type

Pull back workpiece for secure gripping casting or forging

# PWT(C) Series

## 2-Jaw Power Wing Chuck

※ PWC has the same specification as PW with the exception of the fact that PWC is a compensation type

Draw down irregular shaped material for steady gripping



PW(C)



PWT06

## PW(C) Characteristics

### ● Powerful Gripping

After gripping the component in radial direction, a power PULL-BACK action is applied which significantly increases the Gripping Force, allowing a heavier machine cut to be taken.

### ● High Durability

Master jaws are of spherical design and sealed against swarf and coolant. This permits High Gripping Forces to be retained between lubrication periods.

### ● JAW Equalising 5°max equalising angle

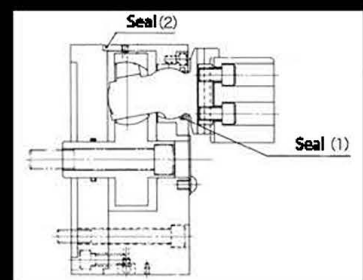
Various workpieces can be firmly gripped by the self-equalising jaws to max 5°.

### ● Gripping on Tapered Parts

The radial and PULL-BACK jaw action allows rough tapered castings and forging to be securely gripped to maximum 20°.

### ● Complete Sealing

Additional sealing at (1) and (2) reduces grease contamination and increases maintenance period.



## PWT(C) Characteristics

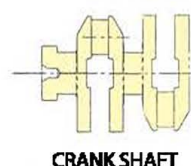
### ● Two jaw type for gripping irregular workpieces

Draw down action ensures secure gripping of workpiece onto reference surface

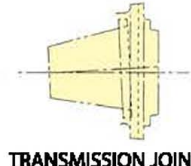
### ● Compatible with PW series & soft jaws

\* CE Correspondance

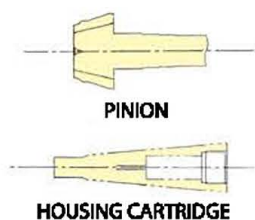
## PW(C) Work Examples



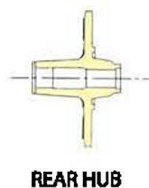
CRANK SHAFT



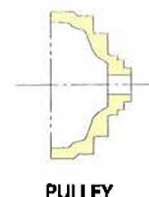
TRANSMISSION JOINT



HOUSING CARTRIDGE



REAR HUB



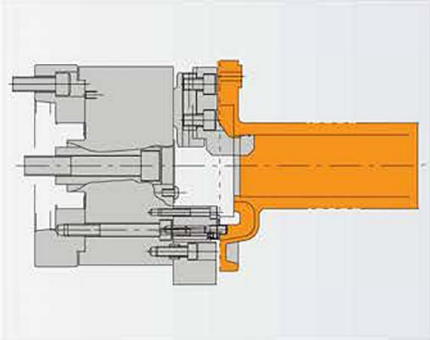
PULLEY



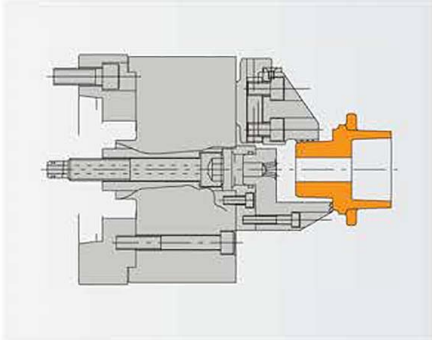
BRAKE DRUM

## PW(C) Series - Gripping Examples

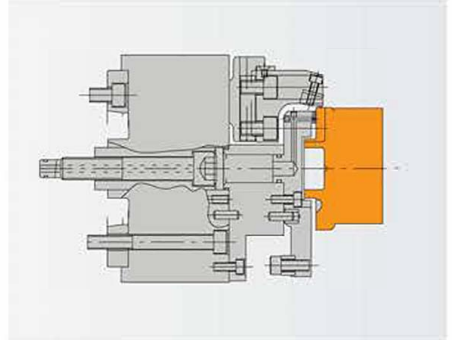
● HOUSING PUMP



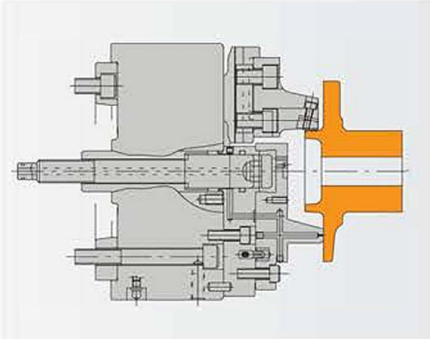
● CLUTCH



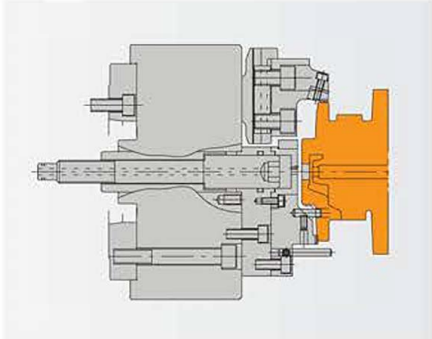
● SCROLL



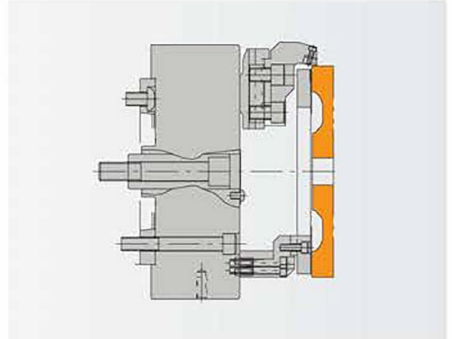
● HUB



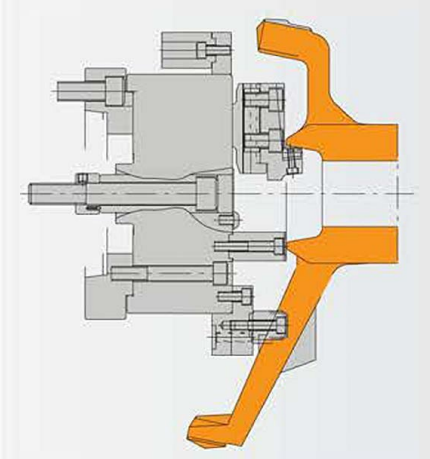
● HOUSING



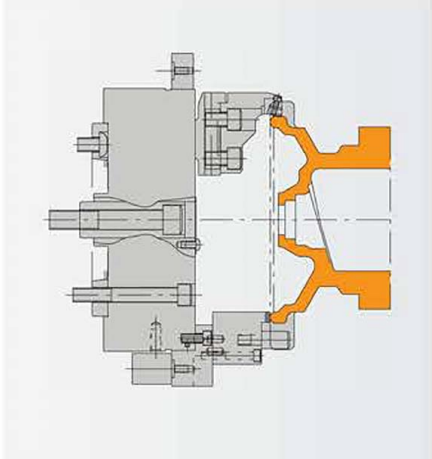
● FLYWHEEL



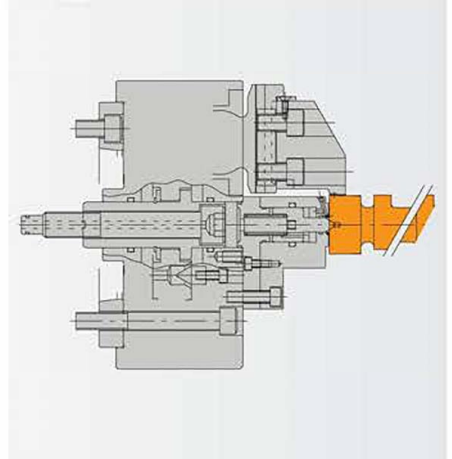
● KNUCKLE



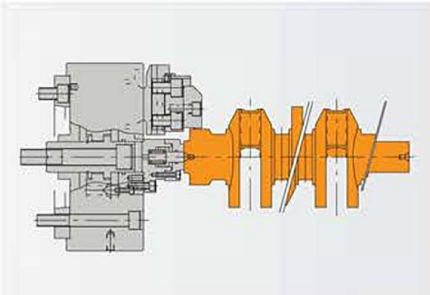
● PISTON MOTOR



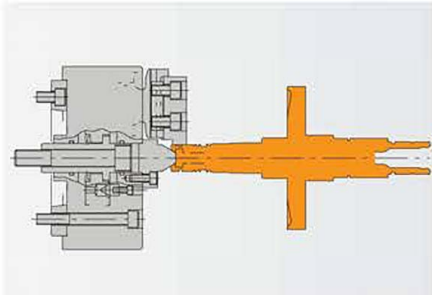
● CAM SHAFT



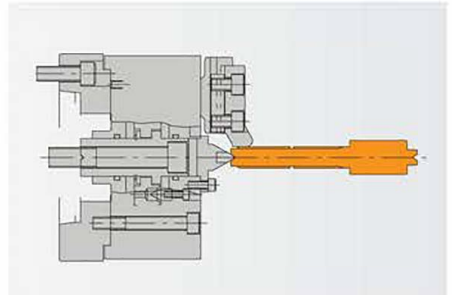
● CRANK SHAFT



● SHAFT

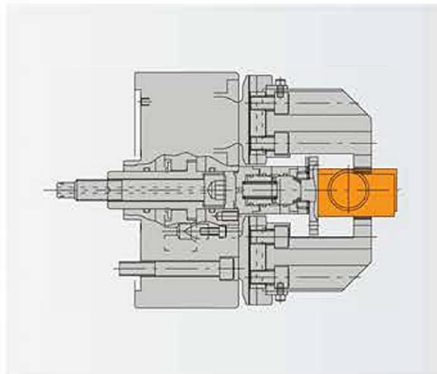


● MAIN SHAFT

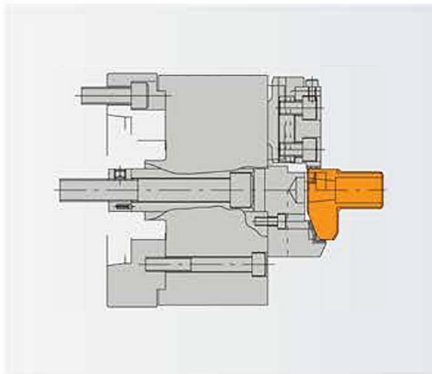


## PWT (C) Series - Gripping Examples

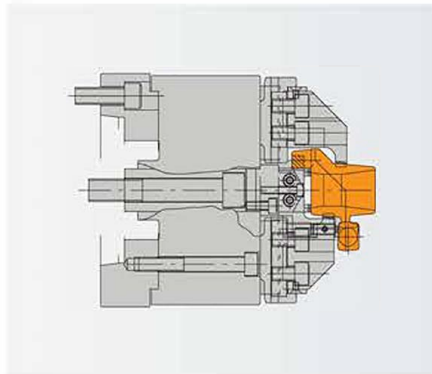
● VALVE



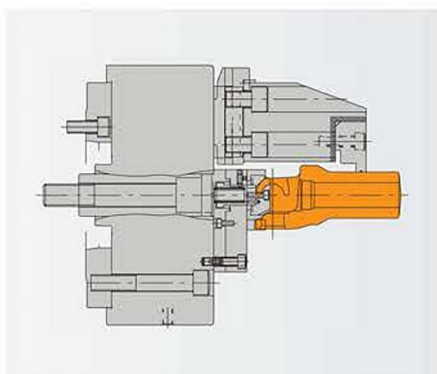
● HOLDER



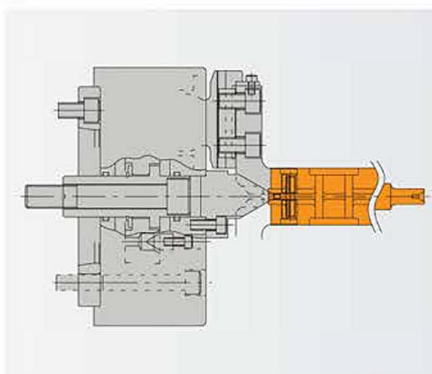
● ARM



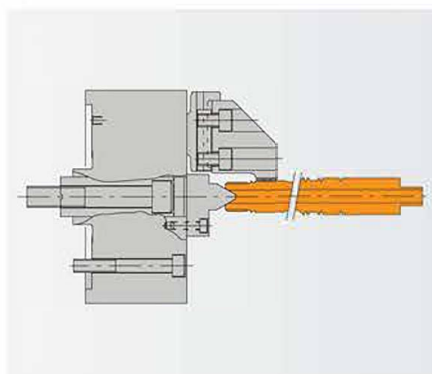
● SLEEVE



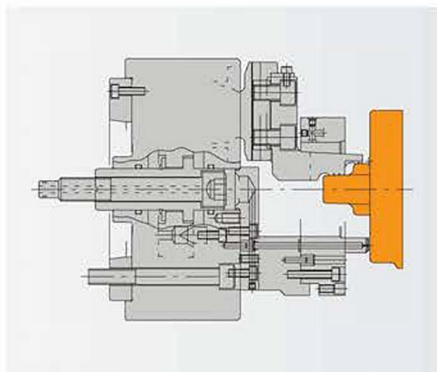
● BALANCE SHAFT



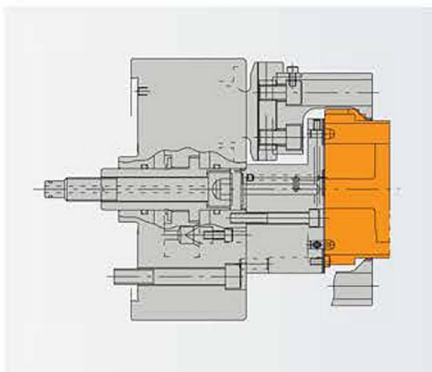
● SHAFT



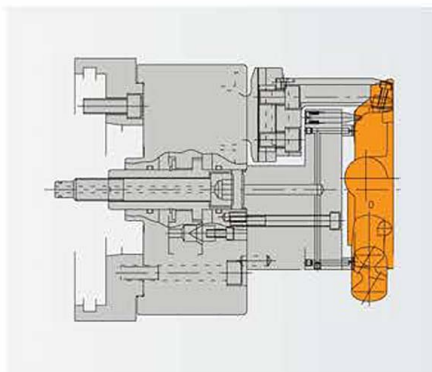
● HEAD



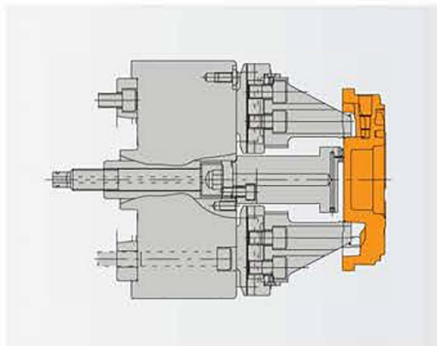
● BLOCK



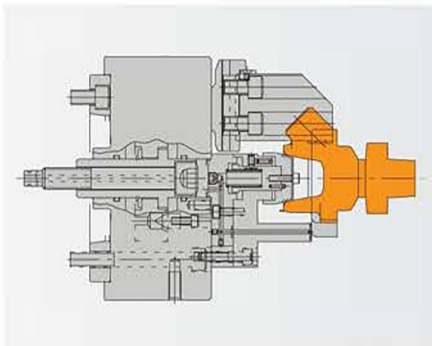
● CYLINDER HEAD



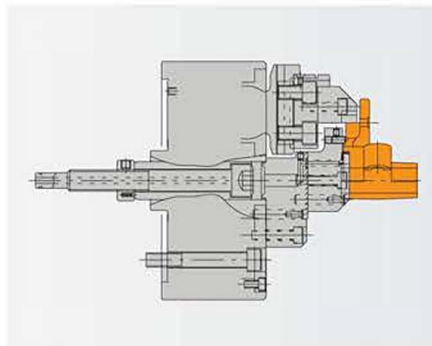
● COVER



● CYLINDER PUMP



● BRACKET





PULL LOCK CHUCK OPEN CENTRE PULL LOCK CHUCK

# PU • PUB

Draw down for high-precision processing  
Open Centre type accomodates shaft processing

INTERNAL GRIPPING PULL LOCK CHUCK

## PUE Series



PUB208



PUE06



PU208

### PU Type Characteristics

- High Gripping stability means heavy cutting is possible

Radial gripping forces and strong pull back action allow stable heavy cutting.

- Excellent repeatability!

Side and rear support provided by the base jaws reduces the centrifugal gripping force loss thus resulting in high repeatability.

- Long-term stable accuracy!

The sophisticated mechanism and special steel design ensure longevity and gripping accuracy.

- Compatible with automation by use of seating confirmation \*CE correspondence

#### PUE Work Examples



FLANGE



BRACKET



COMPANION

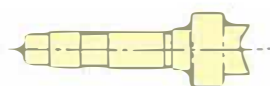


HUB

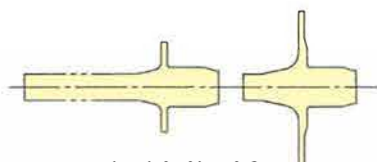


CARRIER HUB

#### PUB Work Examples



GEAR SHAFT

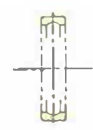


REAR SUSPENSION

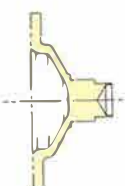
#### PU Work Examples



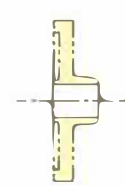
GEAR



BEARING



COUPLING

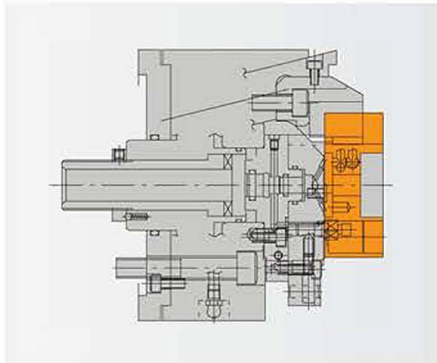


GEAR BLANK

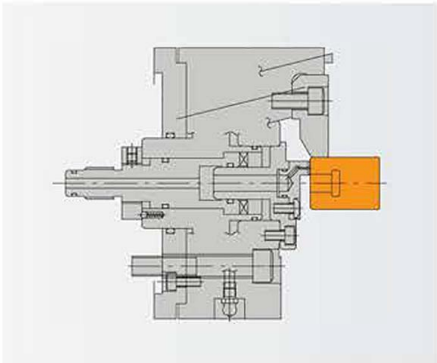
# PU Series - Gripping Examples

Pull Lock Chuck

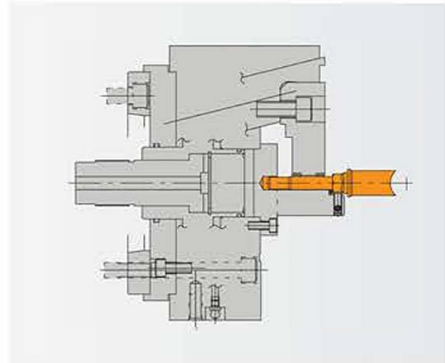
● ROTOR VANE



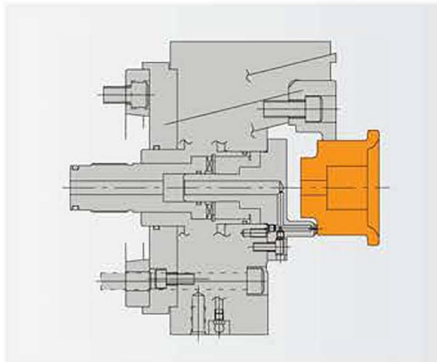
● VALVE



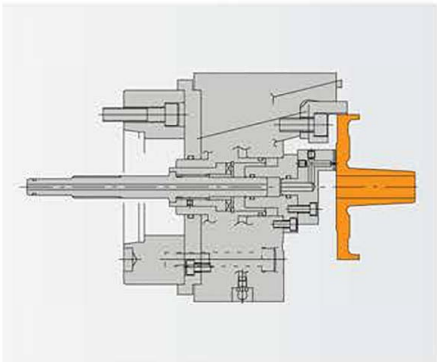
● CONNECTING ROD



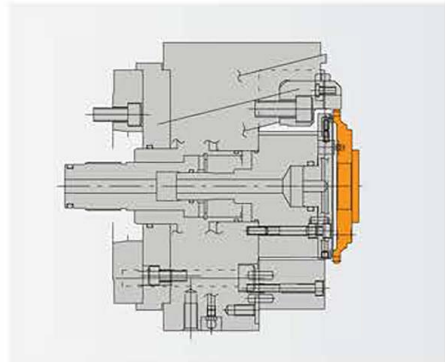
● SPROCKET



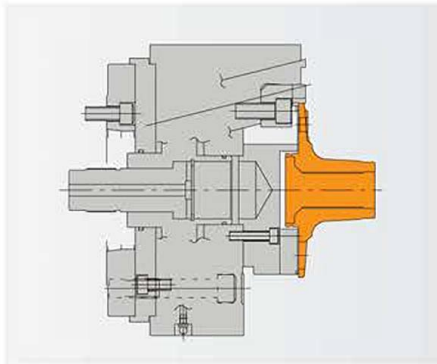
● COVER



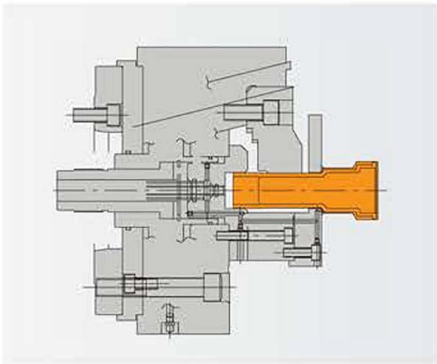
● GEAR



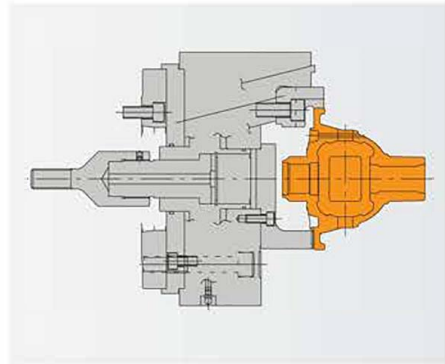
● HUB



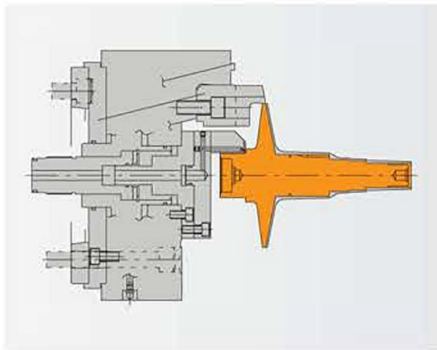
● SHAFT



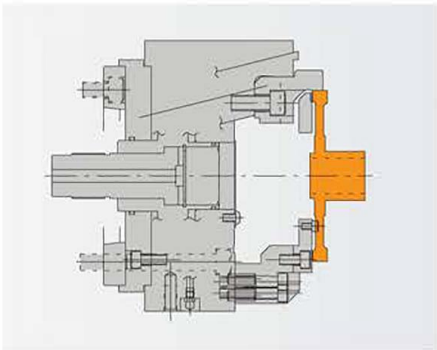
● CASE



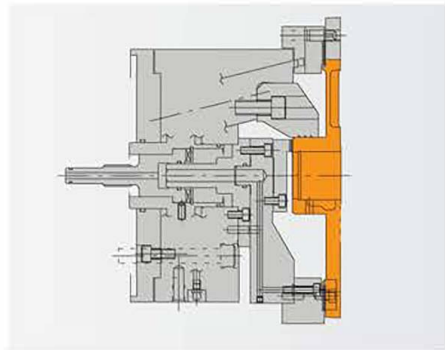
● SHAFT



● SHAFT



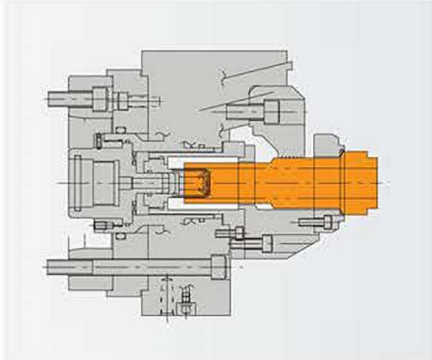
● PUMP COVER



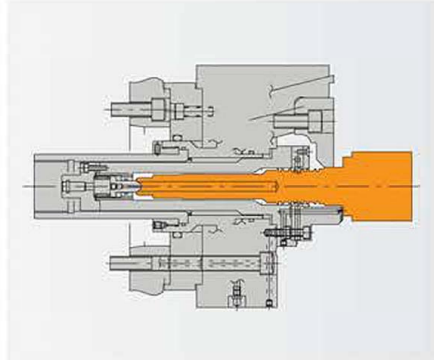


# PUB Series - Gripping Examples

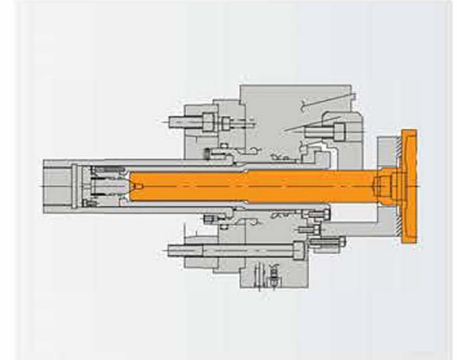
● STATOR



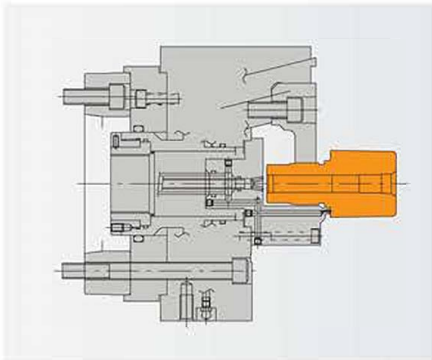
● SHAFT



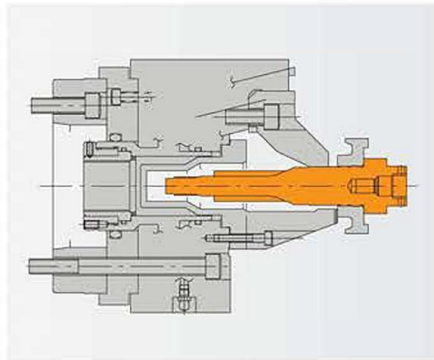
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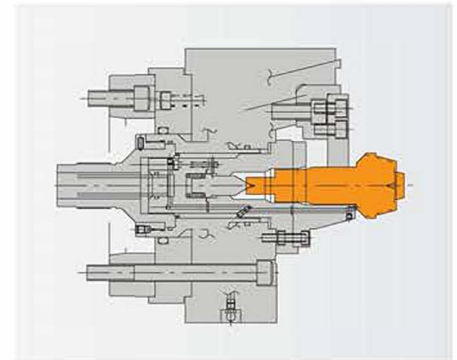
● PINION



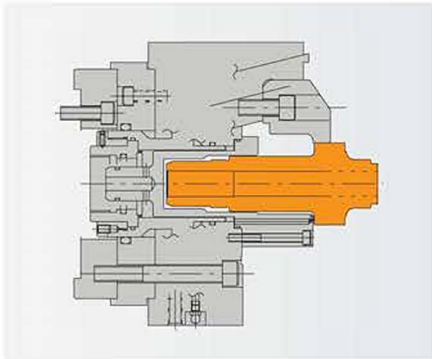
● PINION GEAR



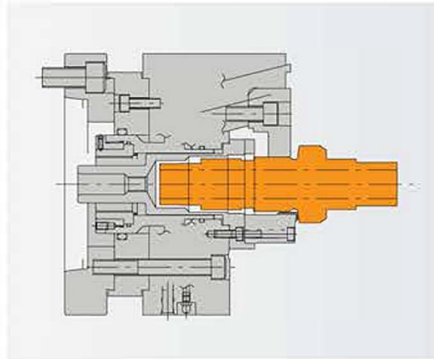
● PINION



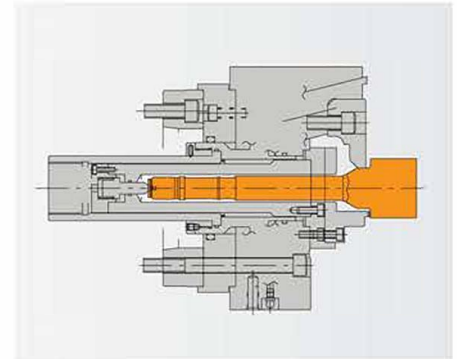
● GEAR



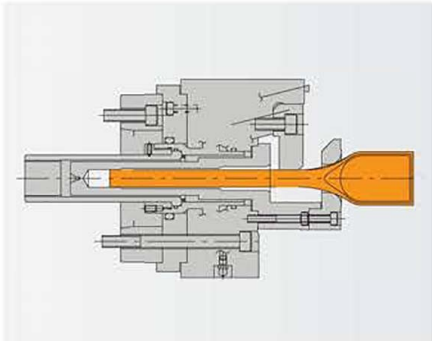
● PULLEY



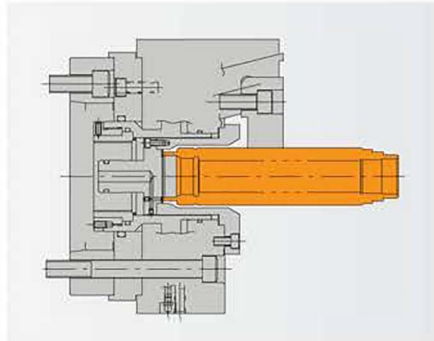
● SHAFT



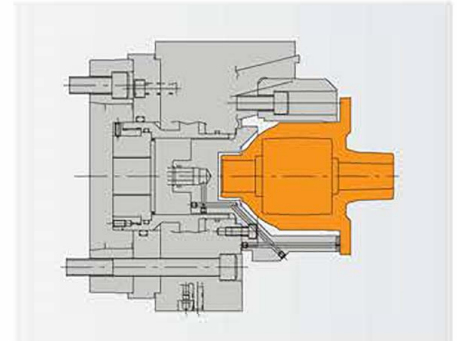
● HEAD



● ROTOR

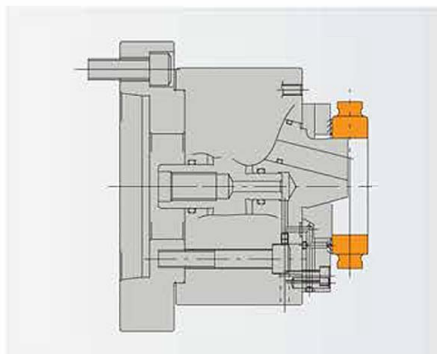


● CASE

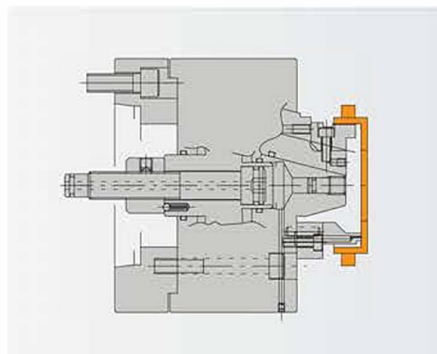


# PUE Series - Gripping Examples

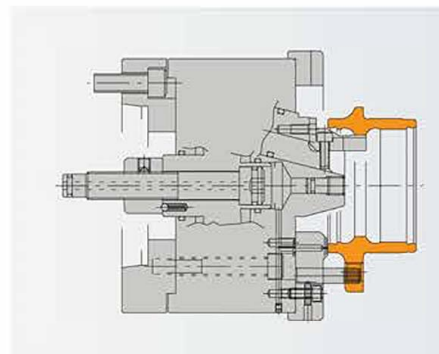
● CAM RING



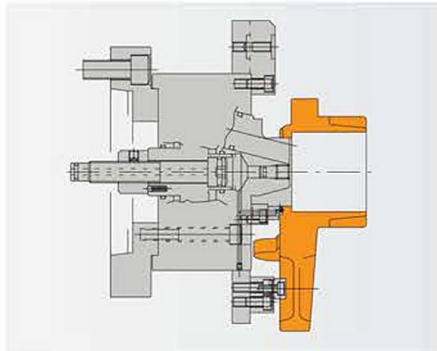
● HUB



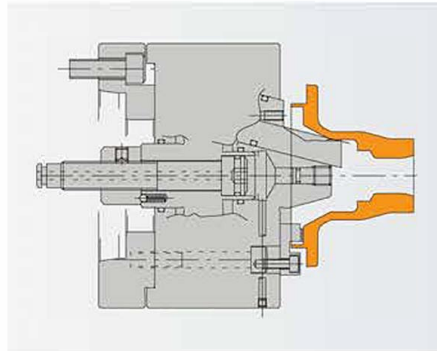
● HUB



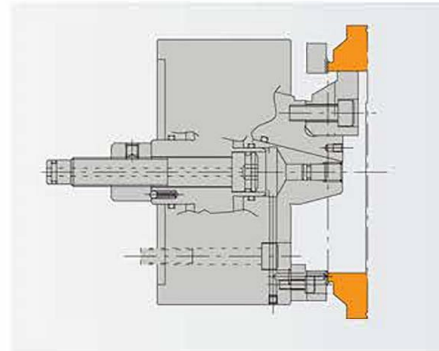
● CARRIER HUB



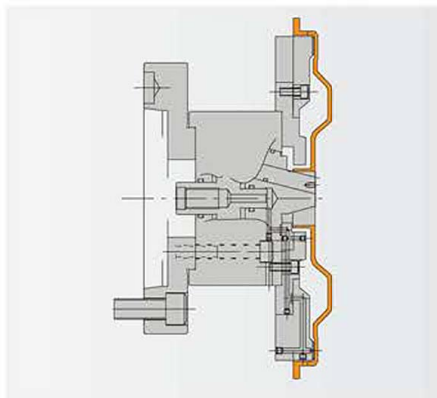
● YOKE FLANGE



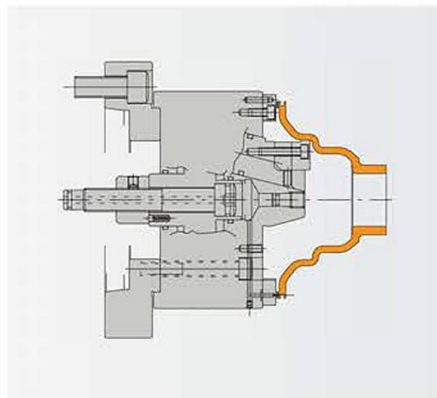
● OUTER



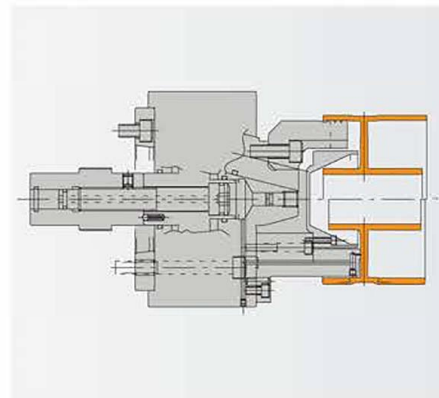
● CORE PLATE



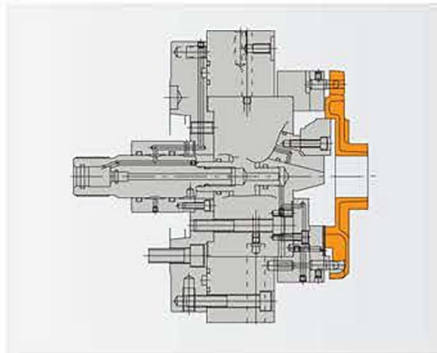
● GEAR



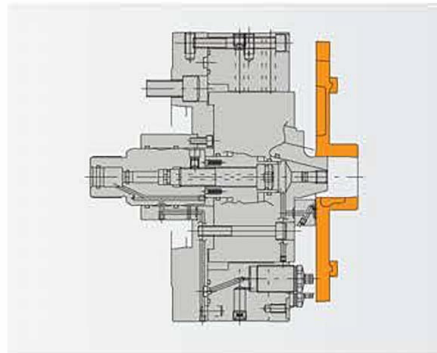
● CLUTCH



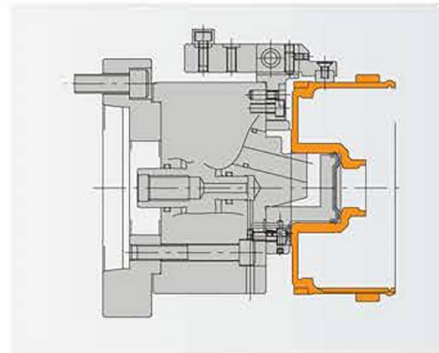
● PUMP



● PUMP COVER

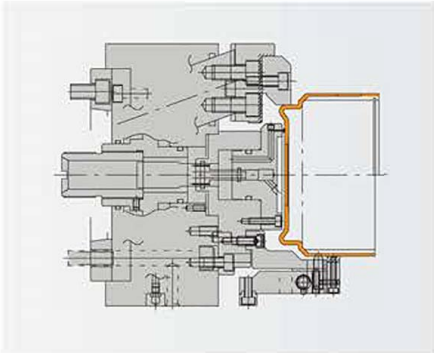


● CLUTCH

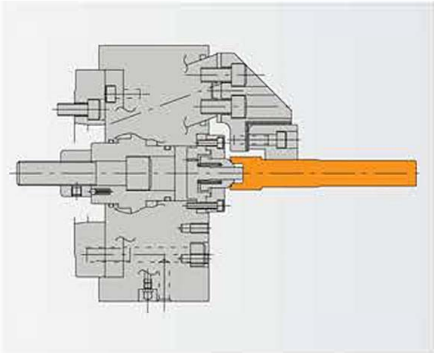


# LU Series - Gripping Examples

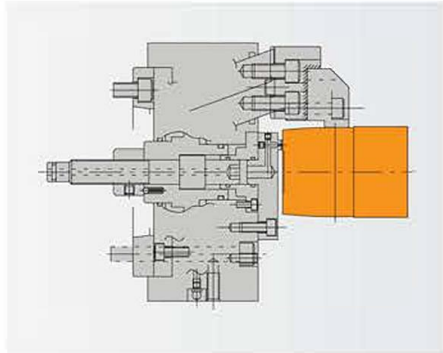
● DRUM



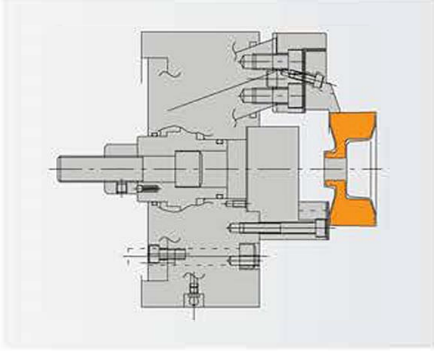
● PINION GEAR



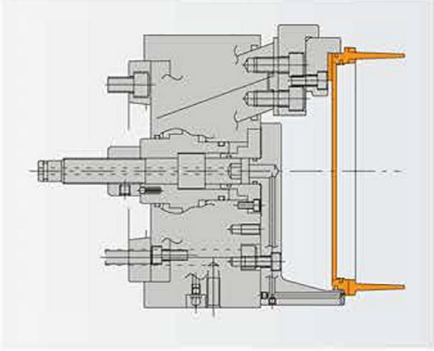
● ROLLER



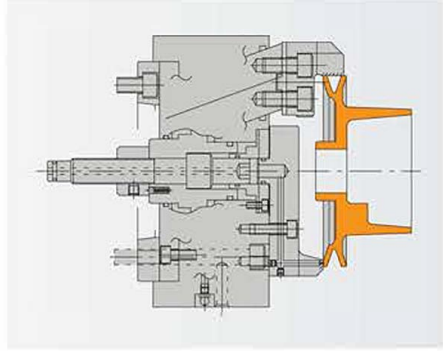
● PULLEY



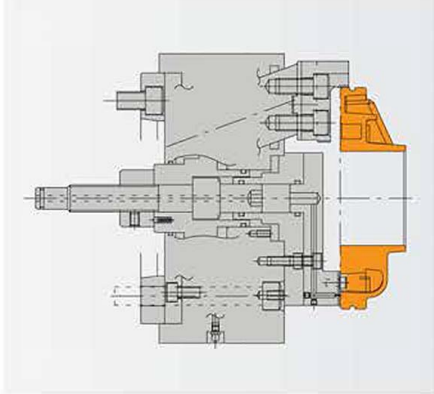
● PISTON



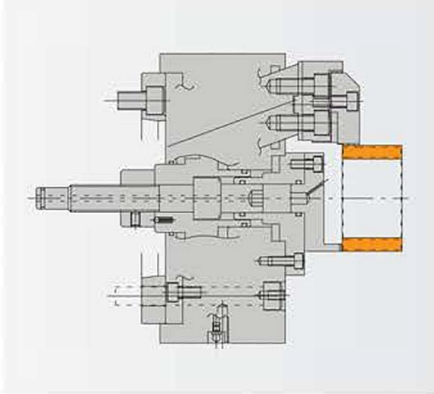
● HUB



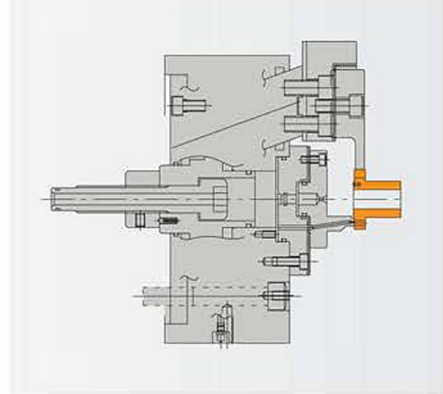
● PUMP BODY



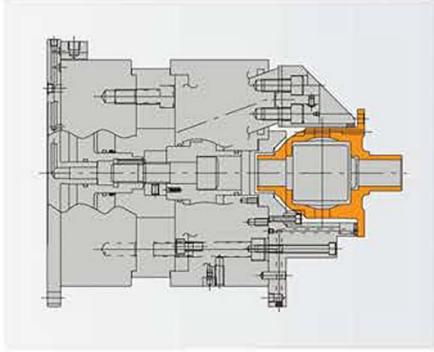
● HUB



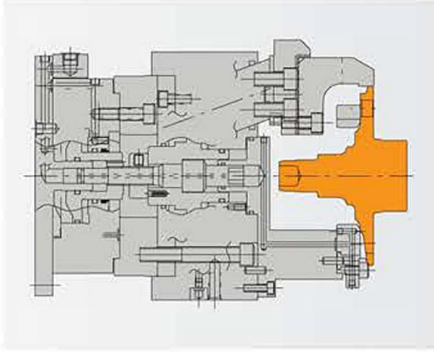
● NUT



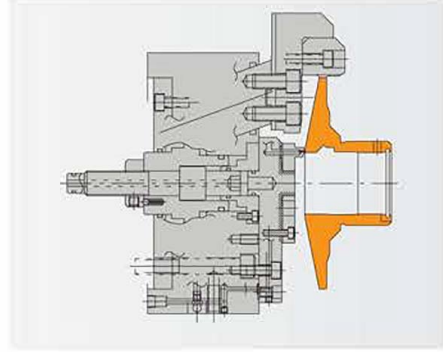
● CASE



● HUB



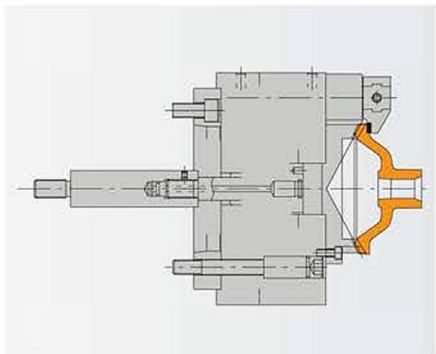
● PULLEY



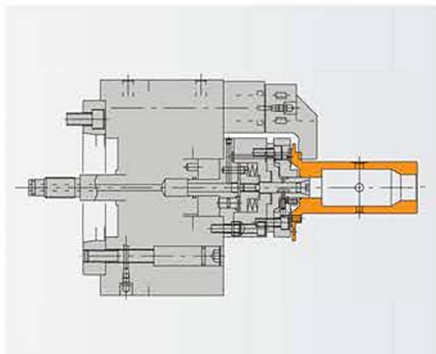


# FG Series - Gripping Examples

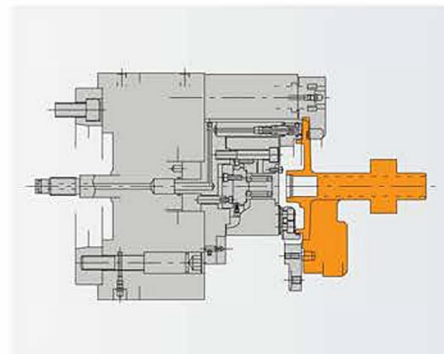
● GEAR



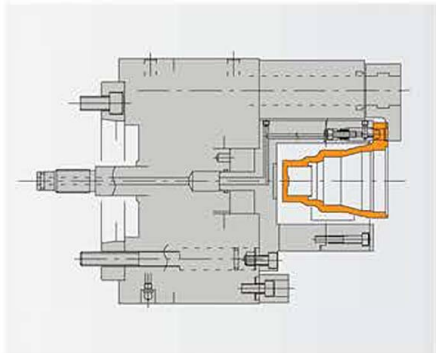
● BOSS



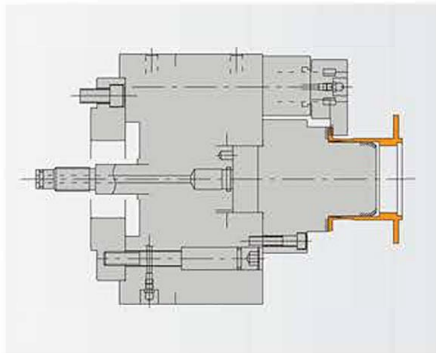
● BODY



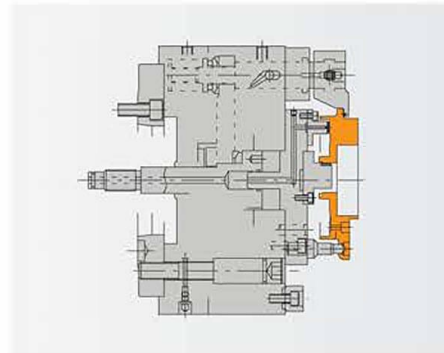
● BODY



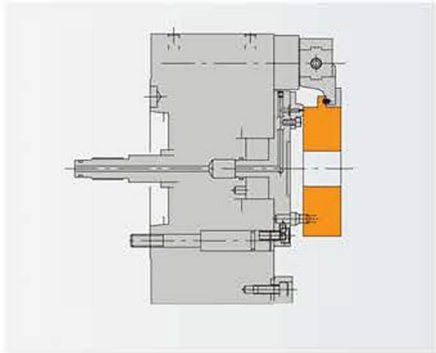
● HUB



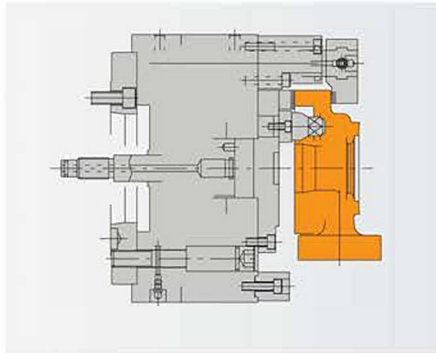
● BODY



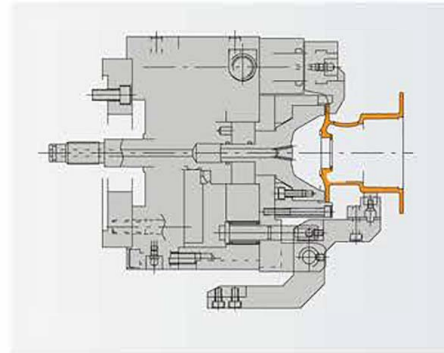
● BODY



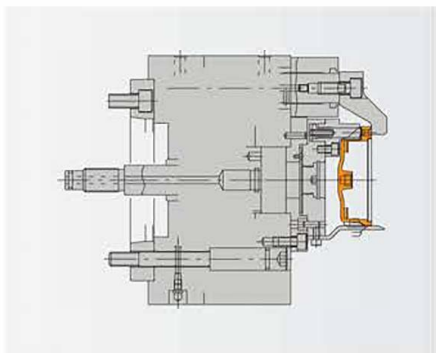
● CASE



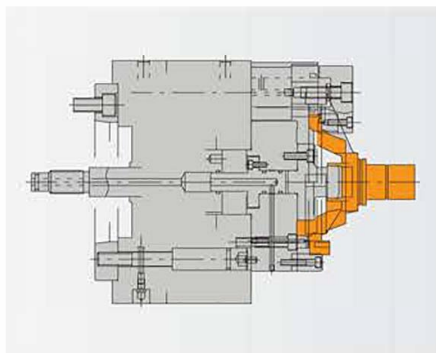
● HUB



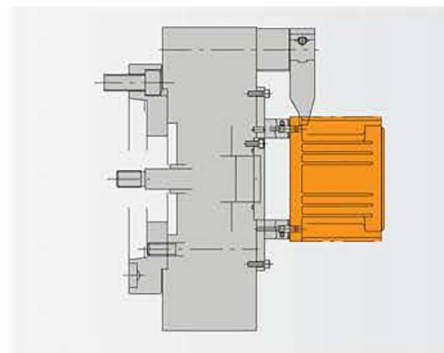
● FLAME



● HEAD

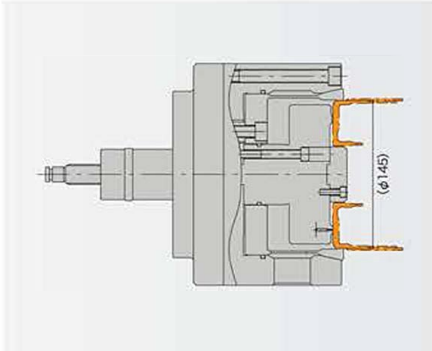


● BODY

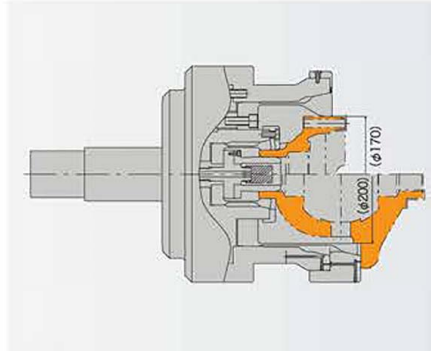


# Collet Series - Gripping Examples

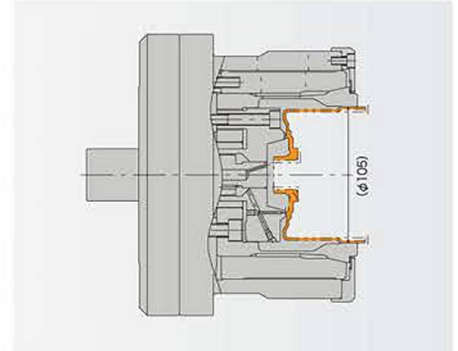
● COVER



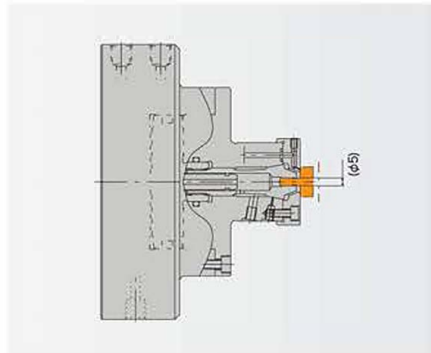
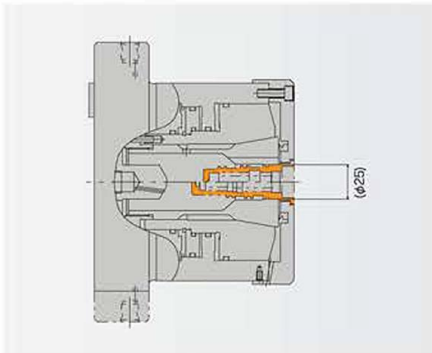
● DIFFERENTIAL CASE



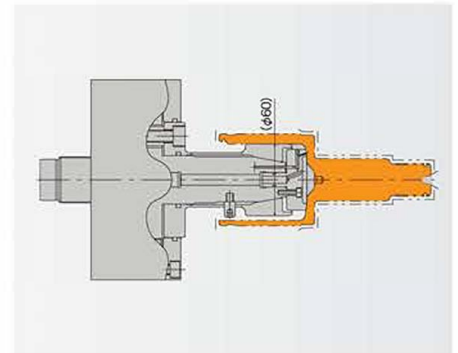
● CLUTCH



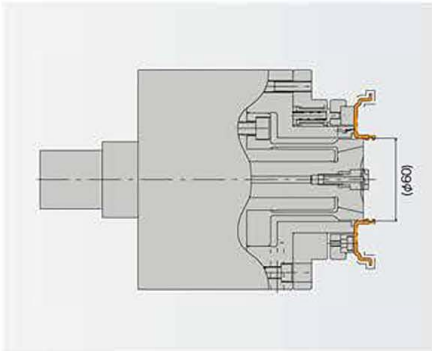
● SLEEVE



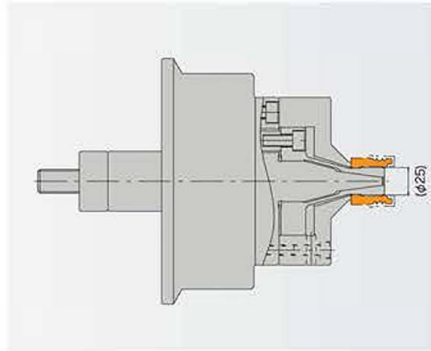
● BALE JOINT



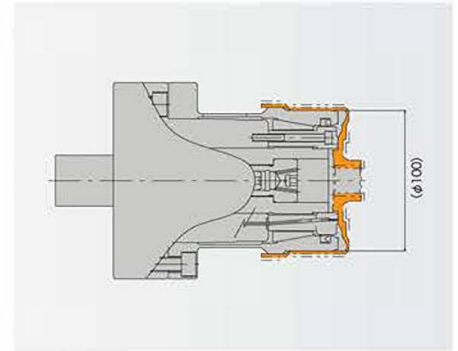
● PISTON



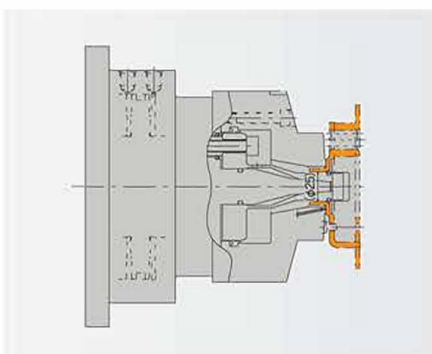
● VALVE OUTER



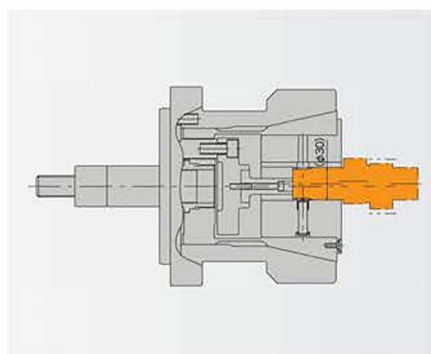
● HUB CLUTCH



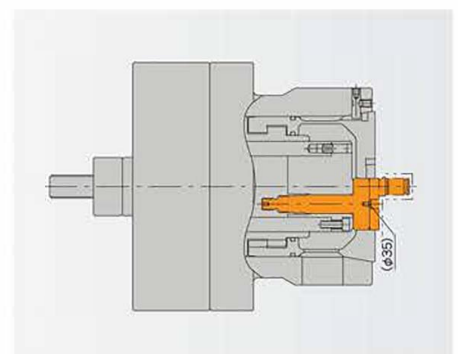
● CARRIER PLATE



● CRANK SHAFT

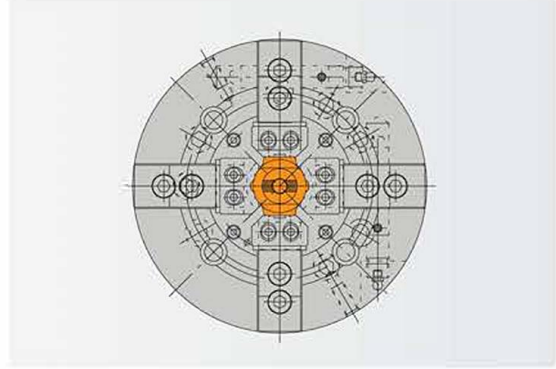
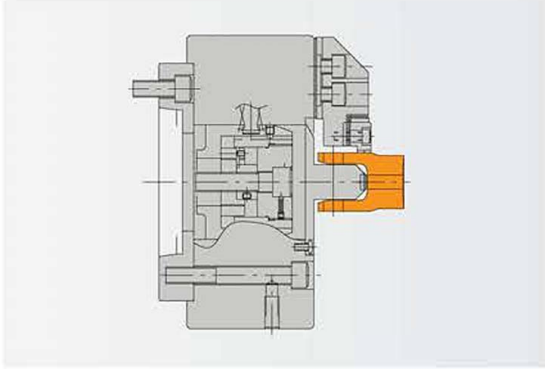


● CRANK SHAFT

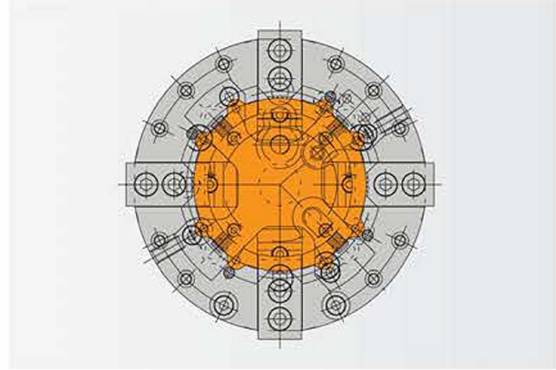
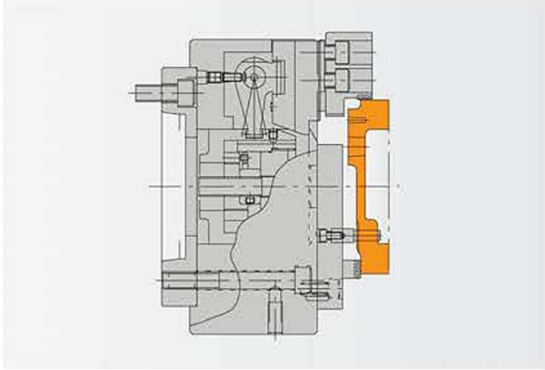


# Other Gripping Examples①

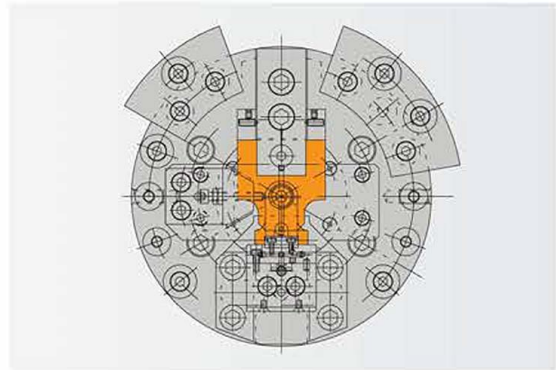
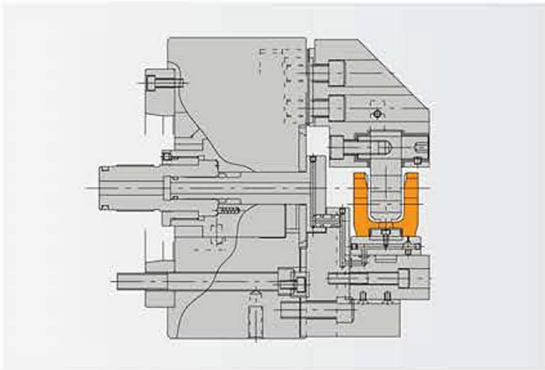
## ● YOKE



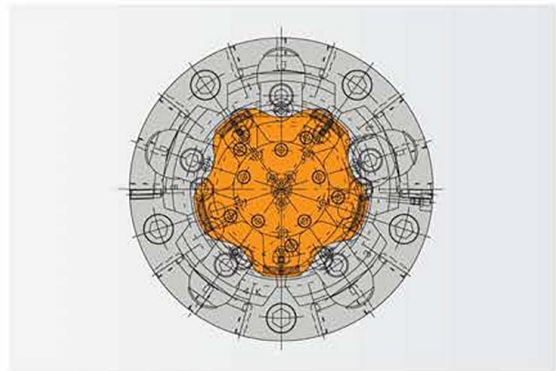
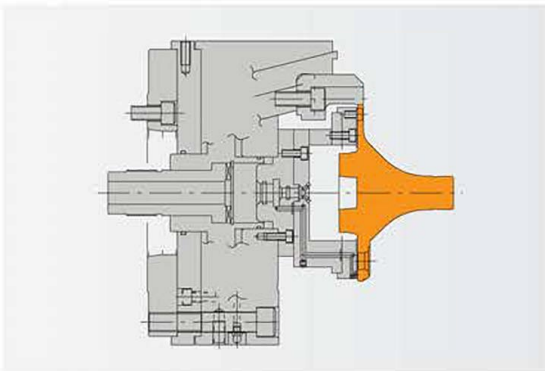
## ● HUB



## ● YOKE



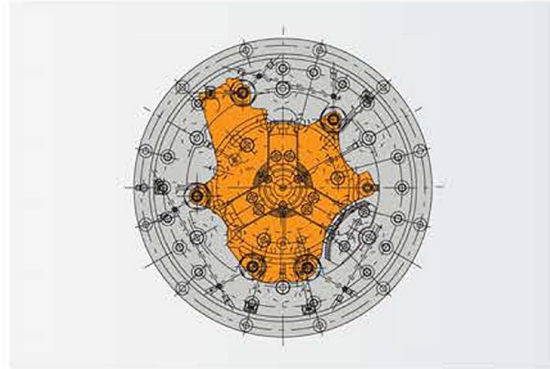
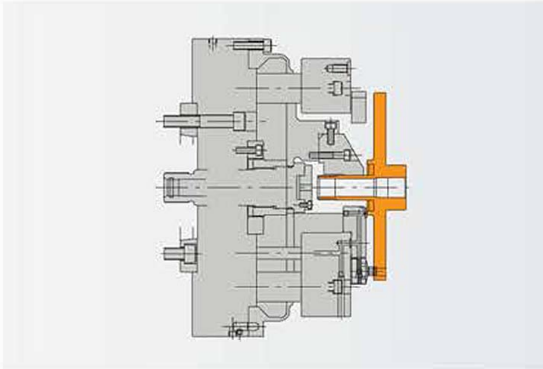
## ● HUB



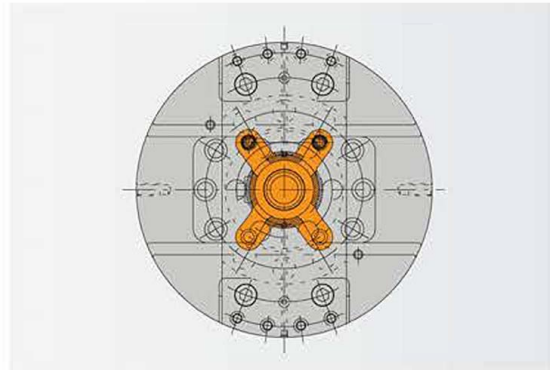
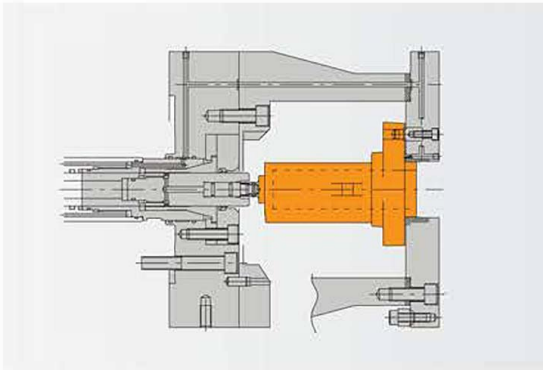


## Other Gripping Examples②

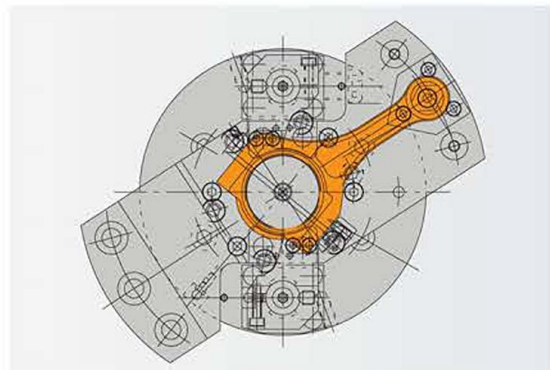
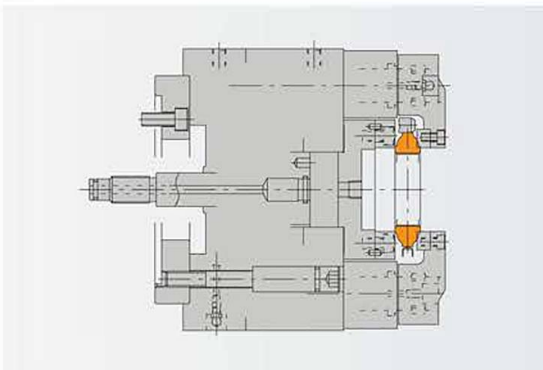
### ● COVER



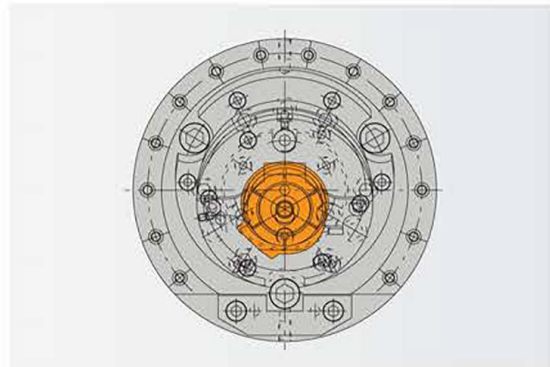
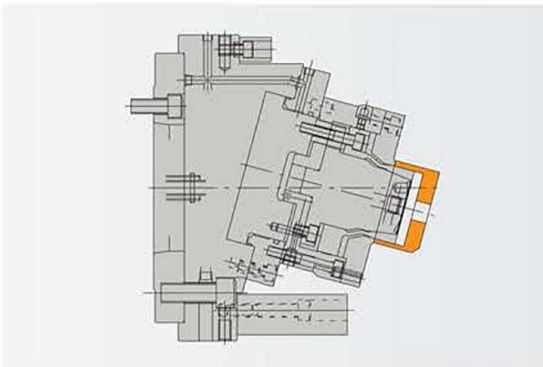
### ● CYLINDER

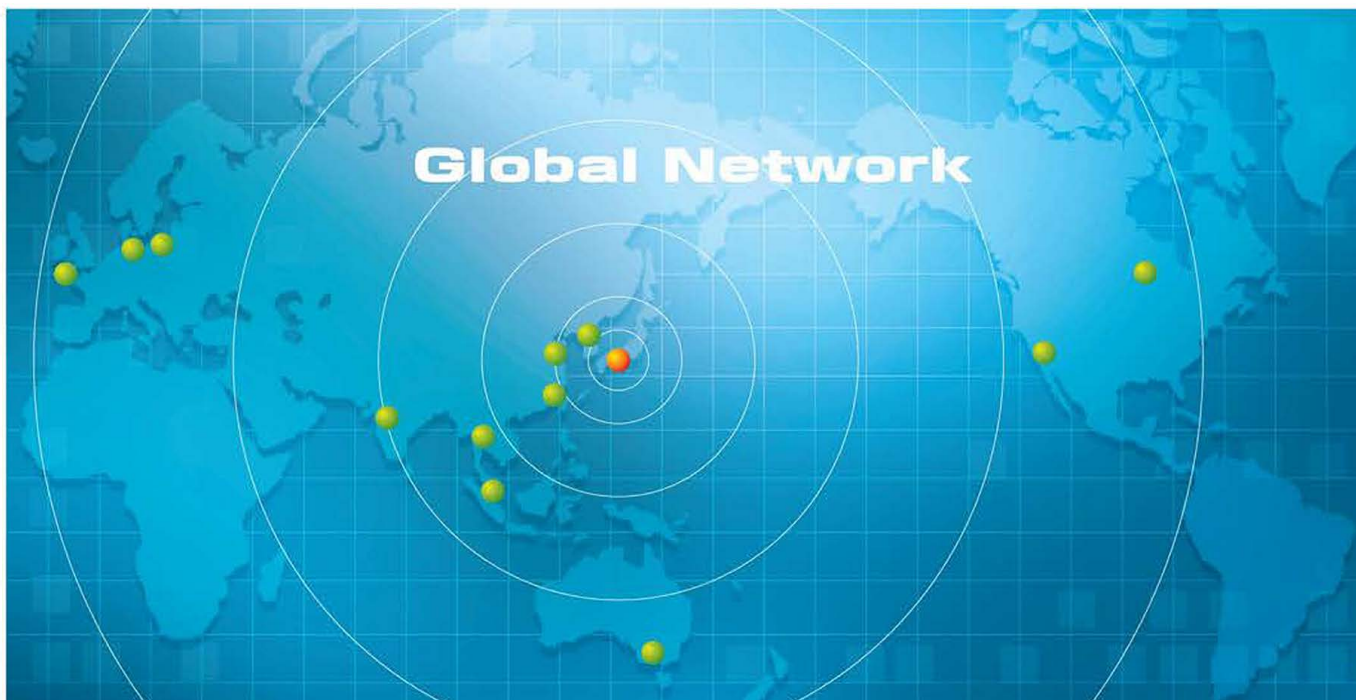


### ● ROD





### ● BODY





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