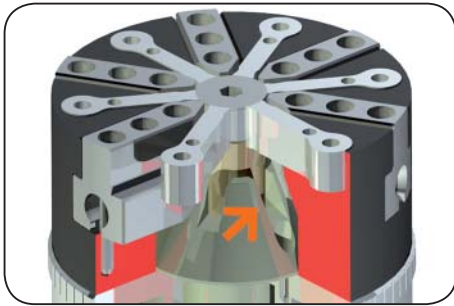


## Highlights



### Drive

#### Two single effect pneumatic cylinders

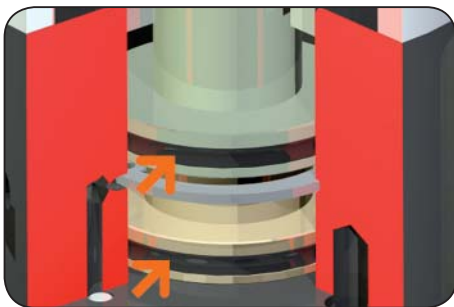
- Each cylinder controlled by a 3/2 or 5/3 way valve
- Return by spring



### Guide

#### T-slot expanding jaw guide

- T-slot guide for high force and torque intake
- High precision due to low play design



### Force transfer

#### Expanding stroke via hardened steel cone

- Linear ejector stroke
- Direct and low loss



### Expanding stroke

#### adjustable from outside via adjusting ring

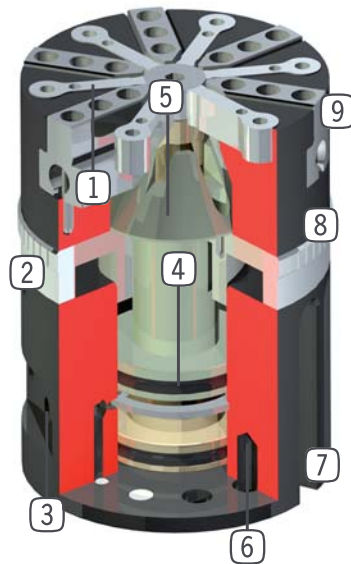
- prevents overstretching of the O-ring
- allows flexible production
- can be fixed via sidewise clamping screw

**Terms**

- Gripping force: arithmetic sum of the individual forces occurring at the jaws
- Closing/opening time: required time for the gripper jaws to cover the maximum stroke distance
- Repeatability: dispersion at end stop positions during 50/100 consecutive cycles
- Cycle: one complete movement of the piston forward and back
- Maintenance: recommended at 5 mil. cycles  
 (please see the owner’s manual for conditions,  
 download from [www.sommer-automatic.com](http://www.sommer-automatic.com))  
 - long maintenance intervals keep costs down  
 - long lifespan

**Design**

- ① **Ejector jaw**  
- to shift off the O-ring
- ② **Stroke adjustment**  
- for adjustment of the spread stroke
- ⑤ **Force transfer**  
- direct via taper
- ⑥ **Fixing and positioning**  
- axial, on the gripper bottom



- ③ **Energy feed**  
- Possible from several sides
- ④ **Drive**  
- two single-acting pneumatic cylinders
- ⑦ **Sensing groove**  
- for the magnetic field sensors
- ⑧ **Robust, lightweight housing**  
- hard coated aluminium alloy
- ⑨ **Gripper jaw**  
- individual gripper finger mounting

# Grippers for Specific Tasks: O-Ring Assembly Grippers **External Grippers**



Picture shows GS65-B

## Included with purchase



Centring sleeve  
Order no.: **BDST06510**

## Accessory list



Magnetic field sensor  
Order no.: **MFS103KHC**



Magnetic field sensor  
Order no.: **MFS204KHC**



Mounting block  
Order no.: **KB6.5-02**



Proximity switch  
Order no.: **NJ6.5-E2**



Pneumatic fittings  
Order no.: **WVM5**



Pneumatic fittings  
Order no.: **GVM5**

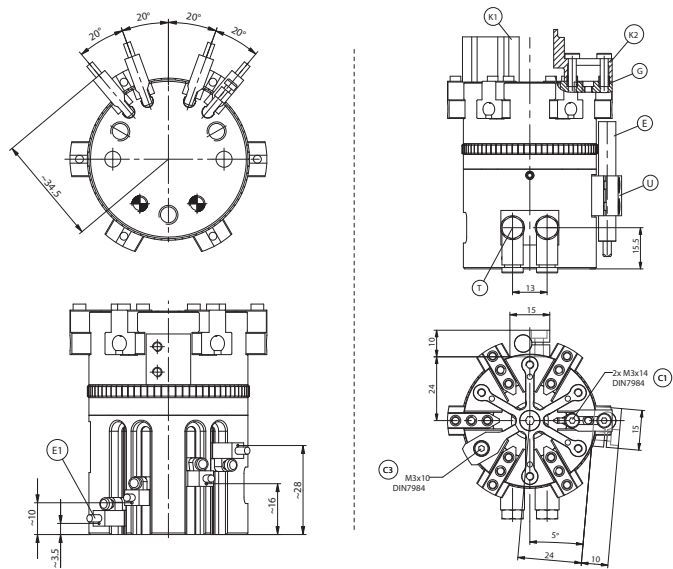


Universal jaw set  
Order no.: **UB65-3**

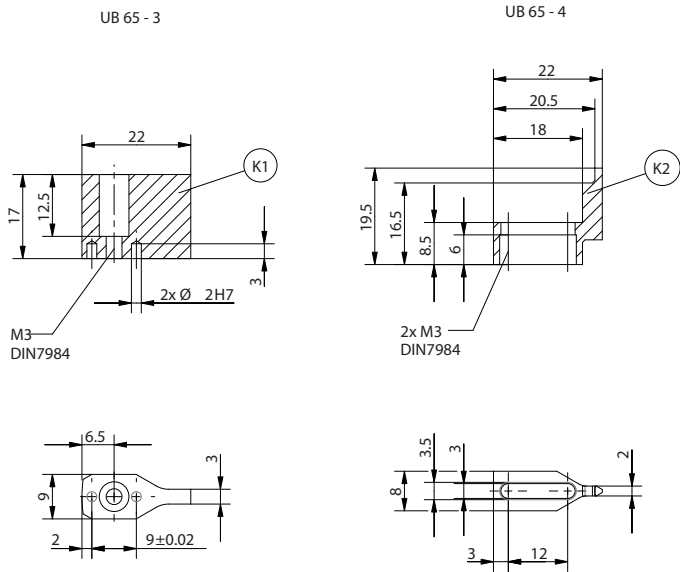


Universal jaw set  
Order no.: **UB65-4**

## Accessory



## Accessory

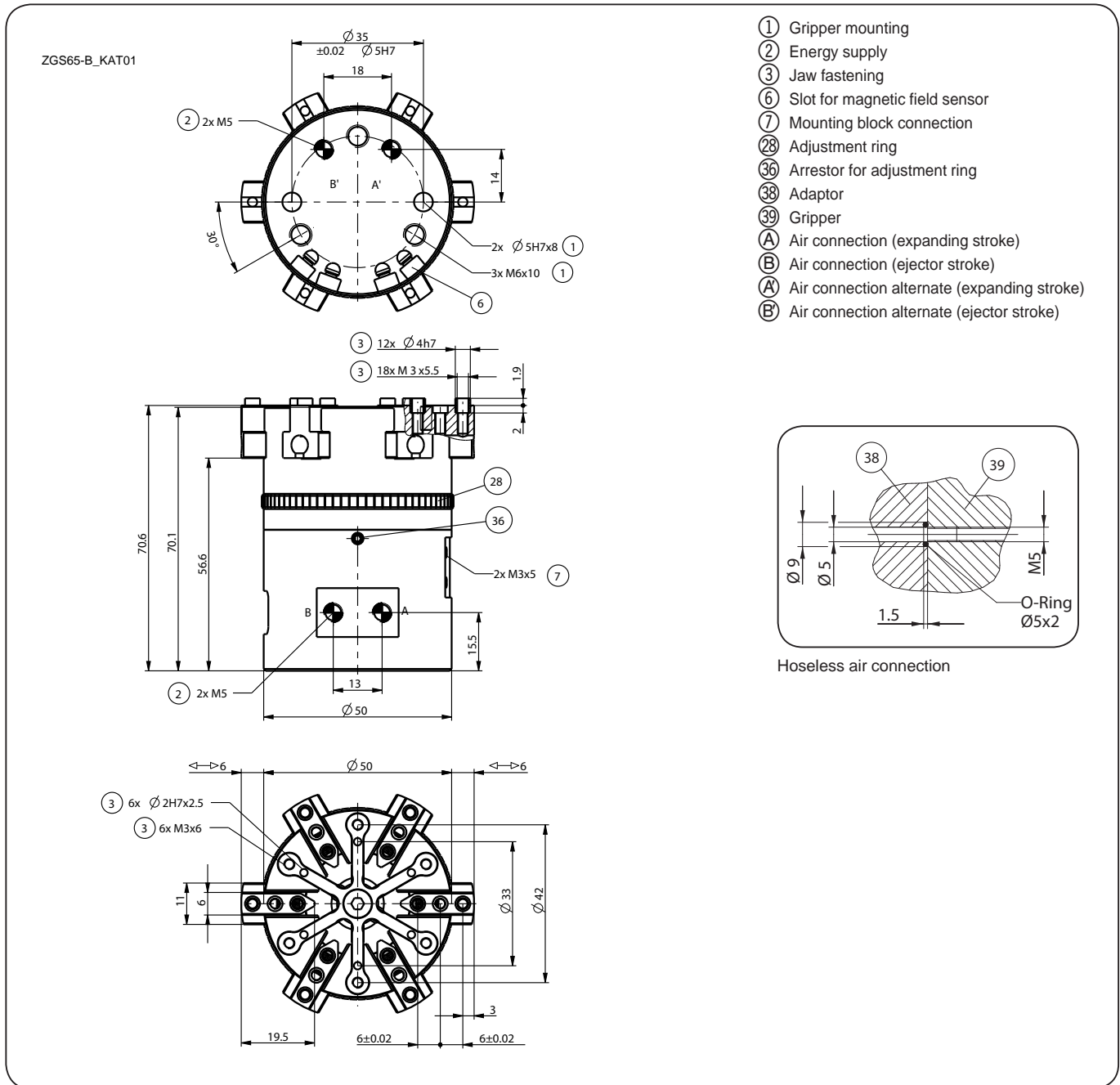


Subject to change without prior notice

<b>Order no.:</b>	<b>GS65-B</b>
Opening stroke adjustable per jaw min. [mm]:	3
Opening stroke adjustable per jaw max. [mm]:	6
Stipping stroke [mm]:	5
Opening force [N]:	300
Recommendet O-ring diameter min. [mm]:	4
Recommendet O-ring diameter max. [mm]:	60
Number of gripping jaws [Pice]:	6
Closing time / opening time [s]:	0,05
Repeatability +/- [mm]:	0,1
Operating pressure min. [bar]:	4
Operating pressure max. [bar]:	8
Operating temperature [°C]*:	5-80
Weight [kg]:	0,500

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number



Subject to change without prior notice

# Grippers for Specific Tasks: O-Ring Assembly Grippers **External Grippers**



Picture shows GS810-B

## Included with purchase



Centring sleeve  
Order no.: **BDST40600**

## Accessory list



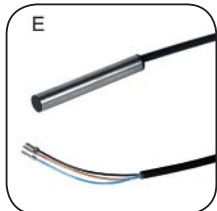
Magnetic field sensor  
Order no.: **MFS103KHC**



Magnetic field sensor  
Order no.: **MFS204KHC**



Mounting block  
Order no.: **KB6.5-02**



Proximity switch  
Order no.: **NJ6.5-E2**



Pneumatic fittings  
Order no.: **WV1/8X6**



Pneumatic fittings  
Order no.: **GV1/8X6**

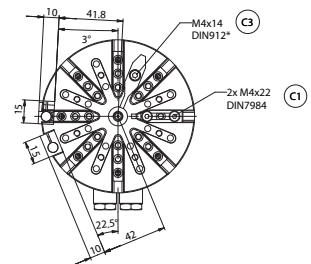
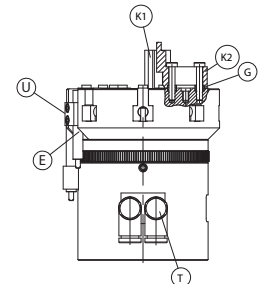
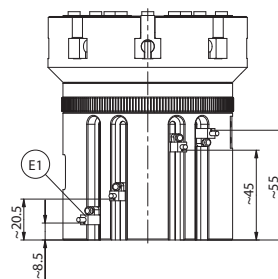
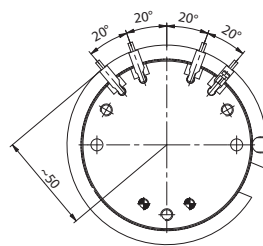


Universal jaw set  
Order no.: **UB810-3**



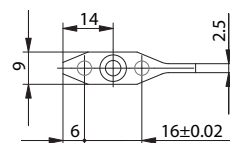
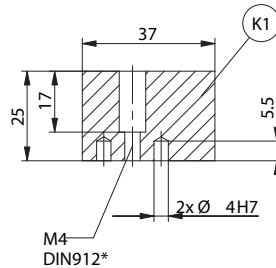
Universal jaw set  
Order no.: **UB810-4**

## Accessory

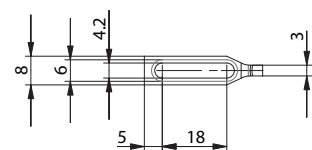
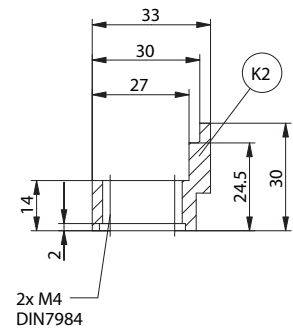


## Accessory

UB 810 - 3



UB 810 - 4

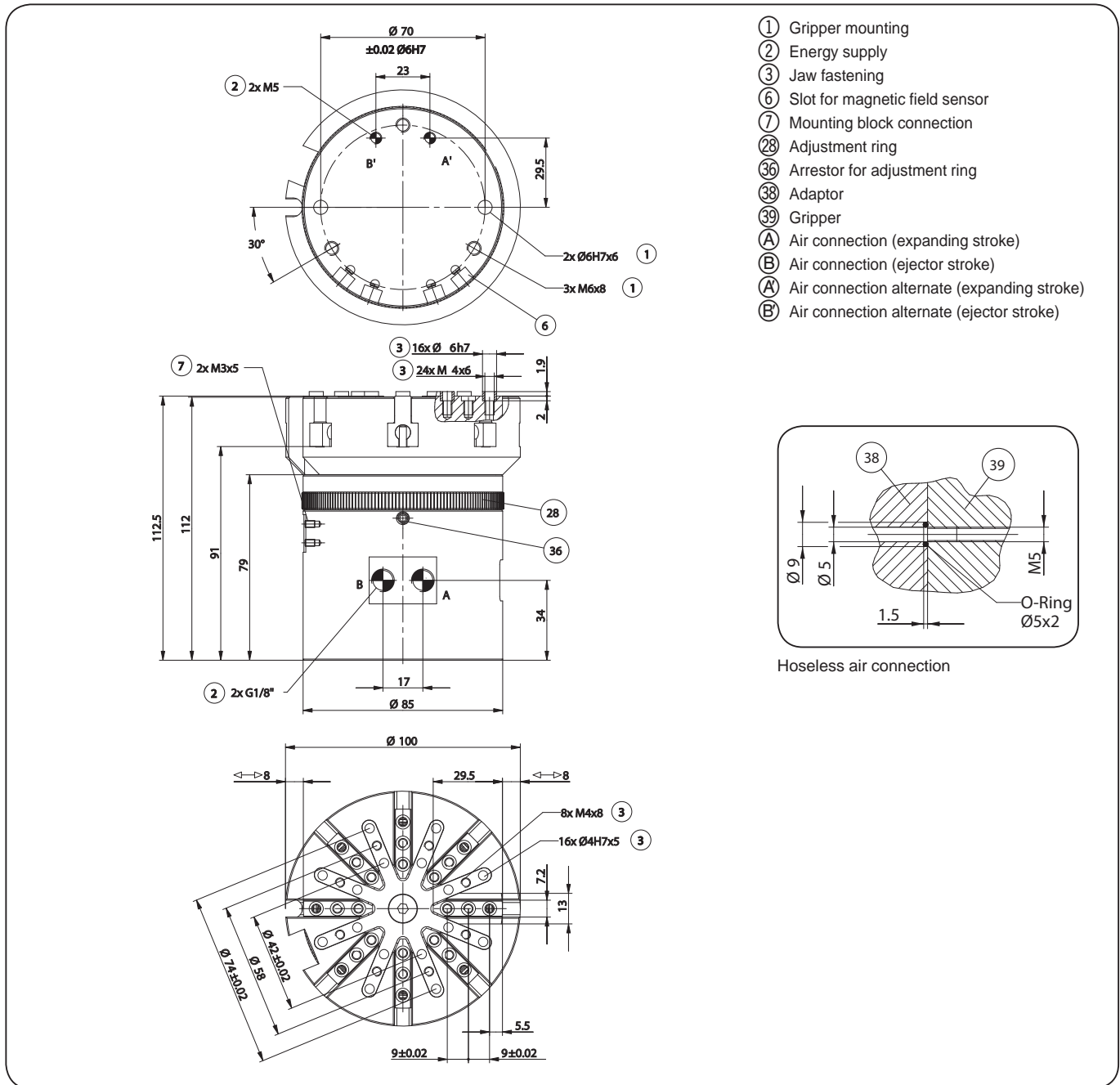


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<b>Order no.:</b>	<b>GS810-B</b>
Opening stroke adjustable per jaw min. [mm]:	4
Opening stroke adjustable per jaw max. [mm]:	8
Stipping stroke [mm]:	10
Opening force [N]:	1.200
Recommendet O-ring diameter min. [mm]:	30
Recommendet O-ring diameter max. [mm]:	120
Number of gripping jaws [Pice]:	8
Closing time / opening time [s]:	0,05
Repeatability +/- [mm]:	0,1
Operating pressure min. [bar]:	3
Operating pressure max. [bar]:	8
Operating temperature [°C]*:	5-80
Weight [kg]:	2,500

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number



Subject to change without prior notice

# Grippers for Specific Tasks: O-Ring Assembly Grippers **External Grippers**



Picture shows GS1015-B

## Included with purchase



Mounting block  
Order no.: **KB8K**



Centring sleeve  
Order no.: **BDST60800**

## Accessory list



Magnetic field sensor  
Order no.: **MFS103KHC**



Magnetic field sensor  
Order no.: **MFS204KHC**



Proximity switch  
Order no.: **NJ8-E2S**



Cable angled plug  
Order no.: **KAW500**



Pneumatic fittings  
Order no.: **WV1/8X8**



Pneumatic fittings  
Order no.: **GV1/8X8**

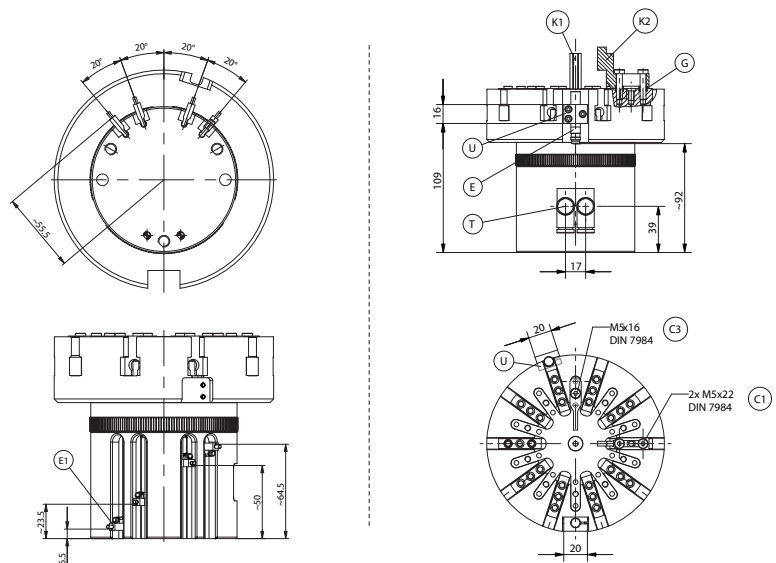


Universal jaw set  
Order no.: **UB1015-3**

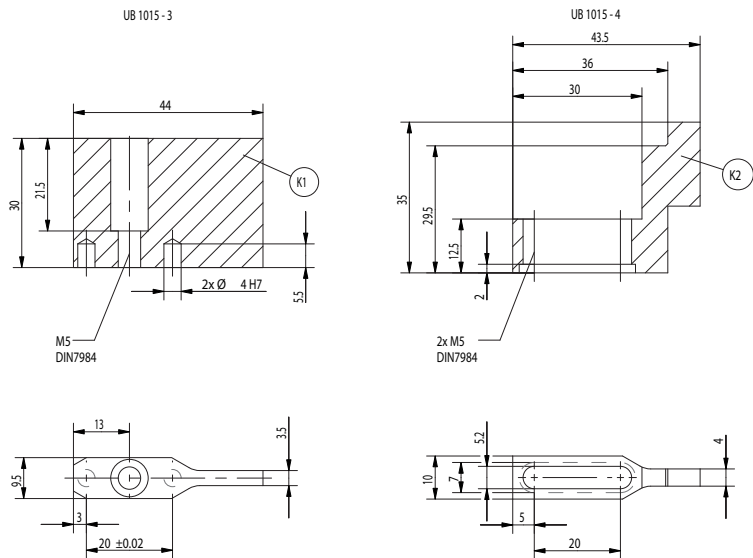


Universal jaw set  
Order no.: **UB1015-4**

## Accessory



## Accessory



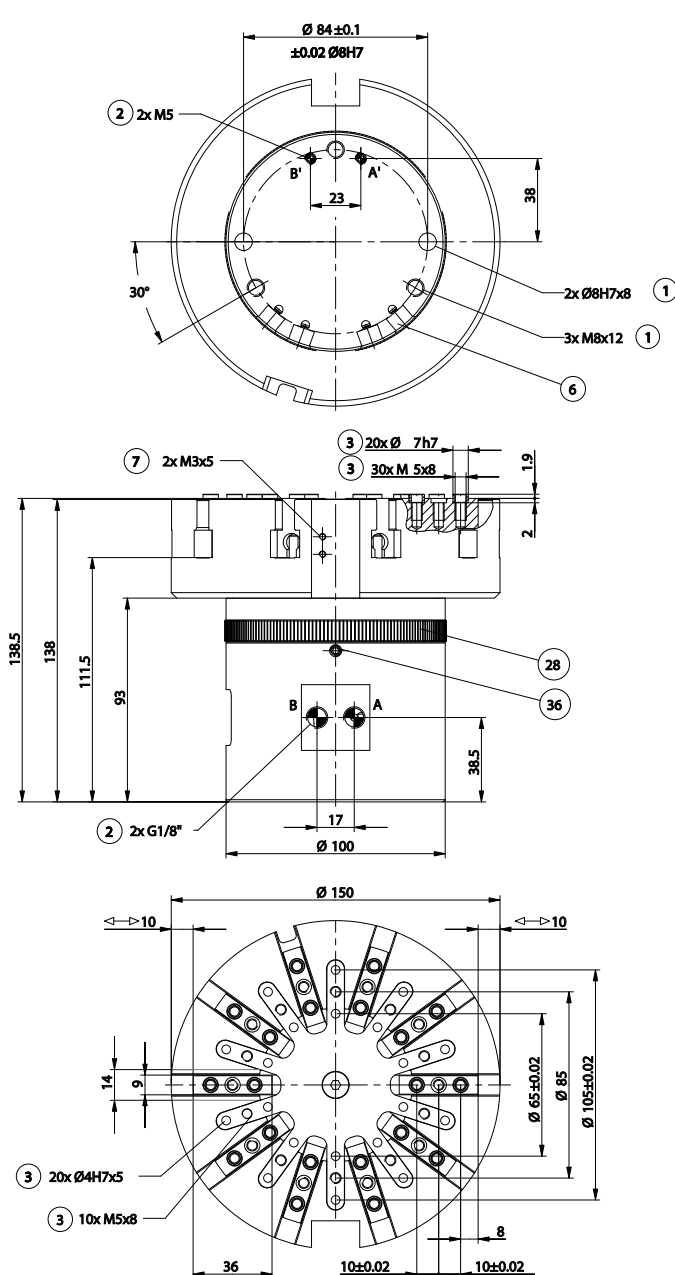
Subject to change without prior notice



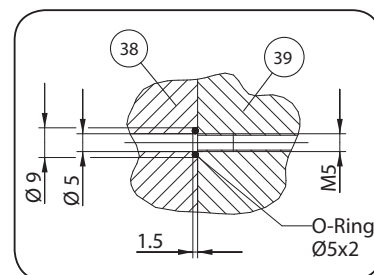
<b>Order no.:</b>	<b>GS1015-B</b>
Opening stroke adjustable per jaw min. [mm]:	1,6
Opening stroke adjustable per jaw max. [mm]:	10
Stipping stroke [mm]:	15
Opening force [N]:	1.450
Recommendet O-ring diameter min. [mm]:	40
Recommendet O-ring diameter max. [mm]:	150
Number of gripping jaws [Pice]:	10
Closing time / opening time [s]:	0,05
Repeatability +/- [mm]:	0,1
Operating pressure min. [bar]:	3
Operating pressure max. [bar]:	8
Operating temperature [°C]*:	5-80
Weight [kg]:	5,400

All data measured at 6 bar

\* High-temperature-resistant model (up to 150°C) add T to part number



- ① Gripper mounting
- ② Energy supply
- ③ Jaw fastening
- ⑥ Slot for magnetic field sensor
- ⑦ Mounting block connection
- ⑧ Adjustment ring
- ⑩ Arrestor for adjustment ring
- ⑬ Adaptor
- ⑭ Gripper
- A Air connection (expanding stroke)
- B Air connection (ejector stroke)
- A' Air connection alternate (expanding stroke)
- B' Air connection alternate (ejector stroke)



Hoseless air connection

Subject to change without prior notice