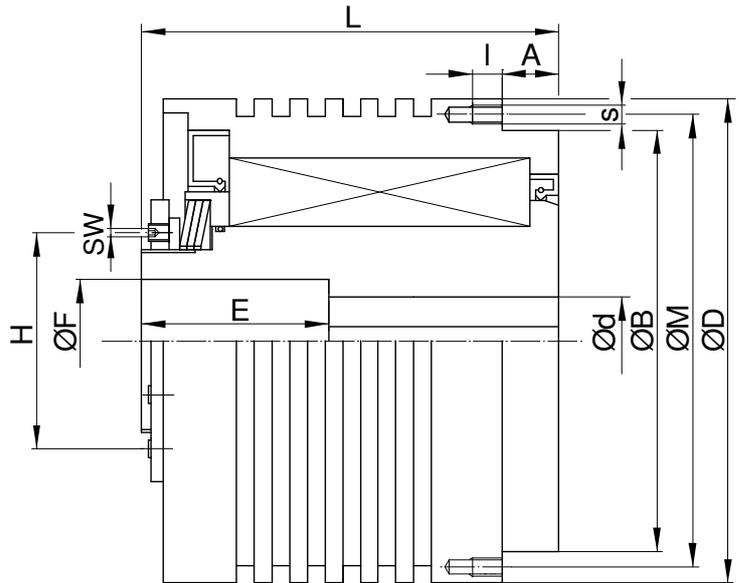
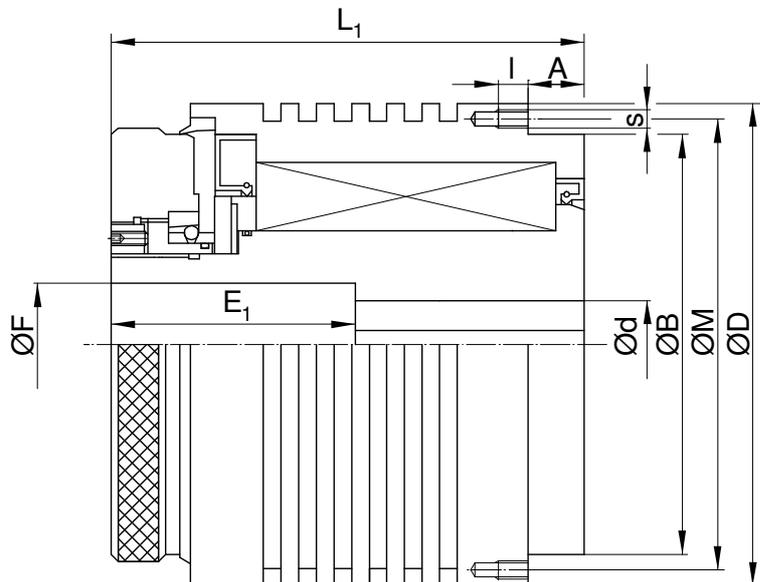


# Dimension sheet for ROBA<sup>®</sup>-roll continuous slip clutch (M.140.01.GB)

**Type 140.300**  
Adjustment with  
6 hexagon socket set screws



**Type 140.006**  
Adjusting nut for  
easy manual adjustment



## Technical data and dimensions

Size	Torque $M_R$ <sup>1)</sup> [Nm]	Relative speed $n_{Rmax}$ [rpm]	A	B <sub>h8</sub>	D	d <sub>max</sub>	Standard bore d <sub>F7 2)</sub>
1	2 – 5	350	16	120	138	30	25
3	3,5 – 12						
5	5 – 18						
7	7 – 24						

Size	E	E <sub>1</sub> 6 x 60°	F	H	SW 4 x 90°	L	L <sub>1</sub>	I	M	s 4 x 90°
1	14	30	36	60	3	78	95	10	129	M5
3	33	49				97	114			
5	53	70				118	135			
7	89	107				154	172			

1) Other torque ranges on request  
2) Other bores on request

We reserve the right to make dimensional and design alterations.

# Dimension sheet for ROBA<sup>®</sup>-roll continuous slip clutch (M.140.01.GB)

## Function

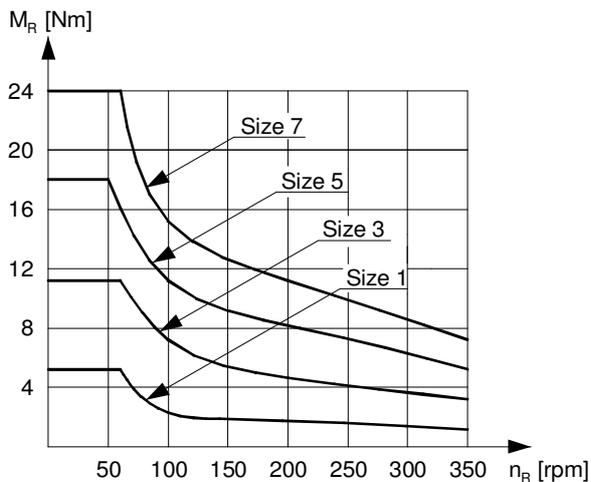
Several axial-needle bearings are axially prestressed by means of the adjusting nut. The arising wear resistant rolling friction generates an uniform and continuously adjustable slip torque. The ROBA<sup>®</sup>-roll continuous slip clutch can be used both in slipping and synchronous operation contrary to the most other systems, as the torque to be transmitted is also kept with the relative speed 0. The maximum permissible relative speed  $n_R$  depends on the adjusted torque  $M_R$  (see performance characteristic diagram).

## Application

ROBA<sup>®</sup>-roll continuous clip clutches are mainly used in winding drives and conveyor systems.

## Performance characteristic diagram $M_R \cdot n_R$

(for permanent temperatures 80 – 90 °C at the housing ED = 75 %)



## Special features

- Detachable solution ready to be installed
- Maintenance-free
- Easy torque adjustment  
(with frequent modification the design with manual adjustment should be preferred)
- Insensitive against environmental influences
- Slip torque being extensively independent from speed
- Can also be used as constant torque clutch

## Design

ROBA<sup>®</sup>-roll continuous slip clutches are sealed all around, protected against corrosion and filled with oil. Thereby, torque variations are extensively excluded due to environmental influences.

The height of the maximum permissible relative speed  $n_R$  between hub and housing depends on the set torque  $M_R$ .

The curves shown on the performance characteristic limit the range where the clutch may be operated.

If the ROBA<sup>®</sup>-roll is operated above the limit curve, shown in the range of the performance characteristic diagram, an unacceptable high heating of the clutch arises.