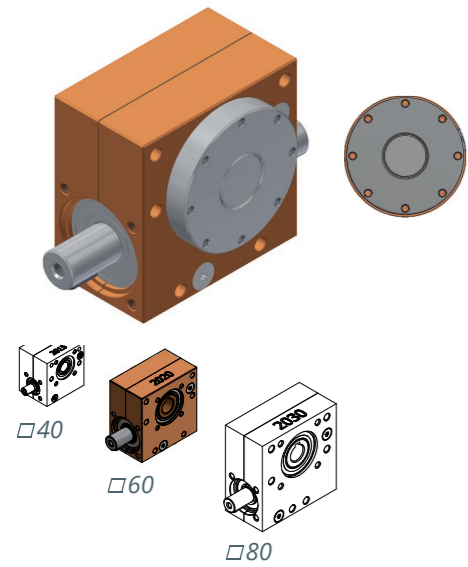


Worm gear reducer Ket-Motion 2020 D

With turntable

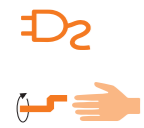


Description

Universally usable and maintenance-free worm gear unit with an **axis distance of 20 mm** and with nine different reduction ratios. The aluminium or zinc housing is encapsulated to prevent the escape of grease and the ingress of dust. The worm gear pair is left-handed. The direction of rotation on the shaft is arbitrary.

Special features

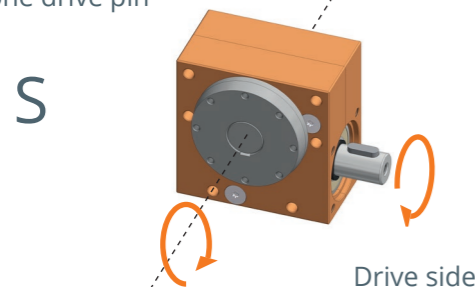
- **Axis distance 20 mm**
- Maintenance-free grease lubrication
- Aluminium housing, anodized (Color on customer request) or Zinc housing in a material-saving design
- 9 reduction ratios from 1:1 to 65:1
- Backlash on the drive shaft $1^\circ \pm 0.5^\circ$, (for $i=1:1$ $2^\circ \pm 0.5^\circ$)
- Duty cycle of 20 % at 5 min (1 min ON, 4 min OFF)
- Service life of 1,000 hours with:
 - full load and
 - input speed of 500 rpm and
 - duty cycle 20% with 5 min and
 - ambient temperature 20 °C



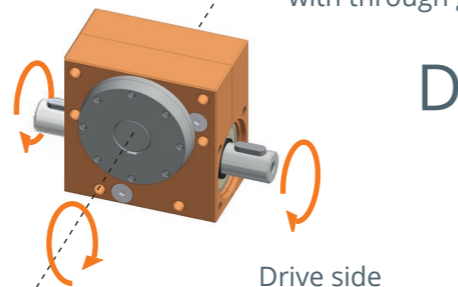
Variant key

Ket-Motion	Configuration of drive side				
2020.00	S	With one drive pin			
	D	With through going axis			
	Housing: Material & Optics				
	0	Alu, orange anodized (standard)			
	1	Alu, silver anodized			
	X _i	Alu, Color according to customer requirements			
	Z	Zinc die-cast housing			
	Configuration of output side				
	D	Turntable			
	Reduction ratio R				
	RXX	9 Reduction variants of R01 (i= 1:1) to R65 (i=65:1)			
2020.00-	S	0	D	R65	Example

Variant 2020.00-SXDRXX with one drive pin

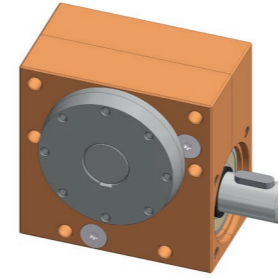


Variant 2020.00-DXDRXX with through going axis

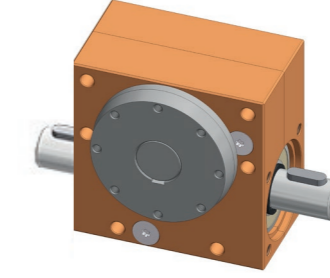


2020 D Gearbox with aluminium housing

With one drive pin
2020.00-S0DRXX



With through-screw
2020.00-D0DRXX



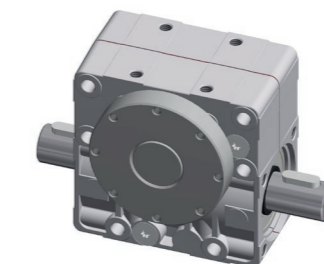
- ▶ Lower point load due to full-surface contact during bolting
- ▶ Free choice of color through anodizing
- ▶ Noble design in the visible area

2020 D Gearbox with zinc die casting housing

With one drive pin
2020.00-SZDRXX



With through-screw
2020.00-DZDRXX



- ▶ Lower CO2 imprint than ALU
- ▶ Cost-optimized
- ▶ Industrial Design

Technical data

Item number	Reduction ratio i	Self-locking static	Output-speed n in min^{-1}	Max. output-torque M in Nm	Max. drive-torque M in Nm	Drive side		Degree of efficiency %
						Radial-force ¹⁾ F_R in N	Axial-force ²⁾ F_A in N	
2020.00-XXDR65	65 : 1	Yes	100/500/1000	4.5/3.8/3	0.2/0.2/0.2	500	500	29
2020.00-XXDR40	40 : 1	Yes	100/500/1000	5.5/4.8/4	0.4/0.3/0.3	400	400	39
2020.00-XXDR30	30 : 1	No	100/500/1000	8.5/7/5.5	0.6/0.5/0.4	350	350	45
2020.00-XXDR23	23 : 1	No	100/500/1000	10/8/6	0.9/0.7/0.5	250	250	50
2020.00-XXDR18	18 : 1	No	100/500/1000	11/9/7	1.1/0.9/0.7	250	250	55
2020.00-XXDR15	15 : 1	No	100/500/1000	12/10/8	1.5/1.3/1	250	200	52
2020.00-XXDR13	13 : 1	No	100/500/1000	15/13/11	2.1/1.8/1.5	200	200	56
2020.00-XXDR05	5 : 1	No	100/500/1000	10/8/6	2.9/2.3/1.7	200	200	70
2020.00-XXDR01*	1 : 1	No	100/500/1000	1.5/1/0.65	2.1/1.4/0.9	250	250	73

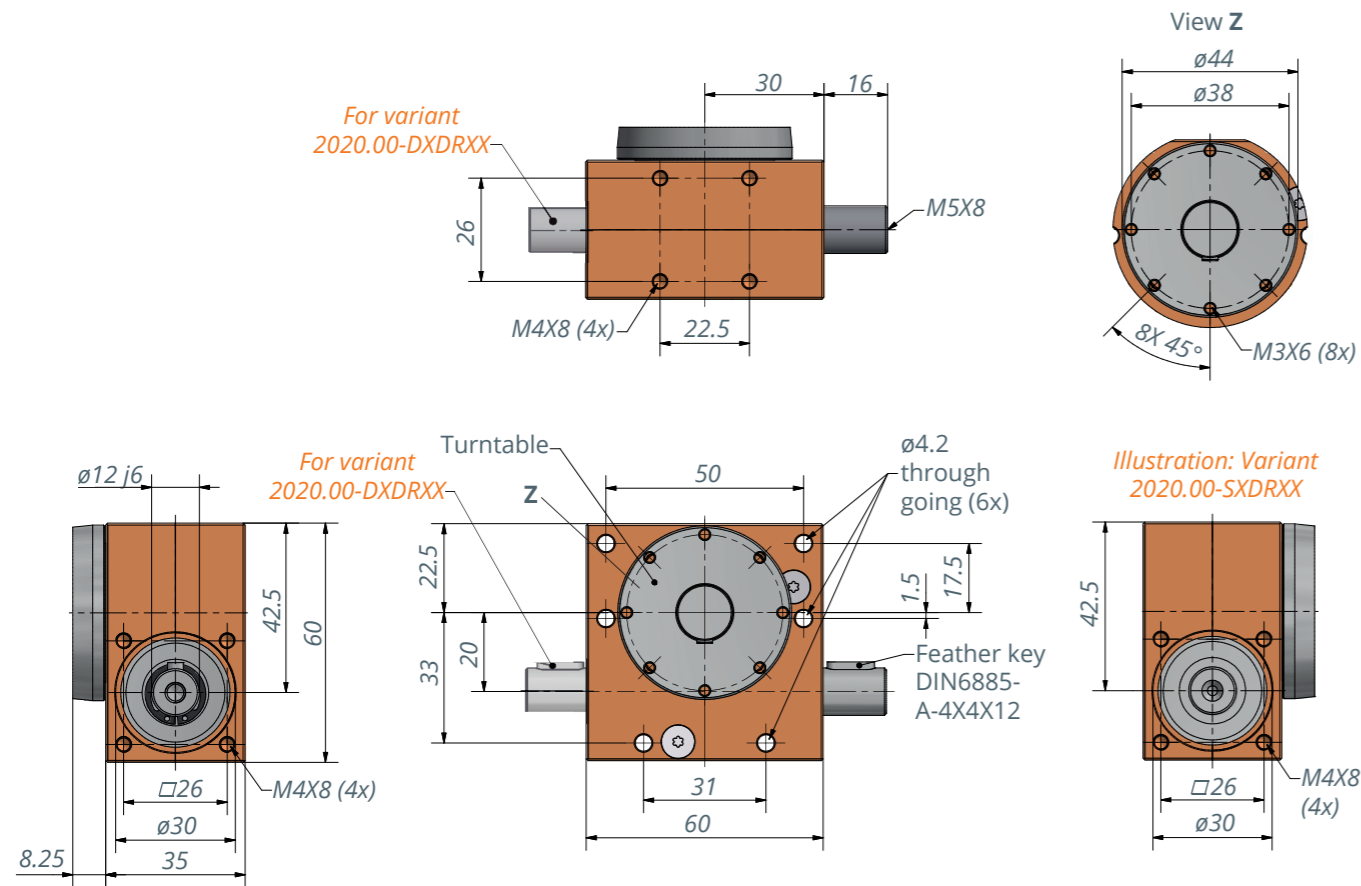
1) The values of F_R apply only when $F_A = 0$ N
2) The values of F_A apply only when $F_R = 0$ N

* Backlash on the output shaft $2^\circ \pm 0.5^\circ$

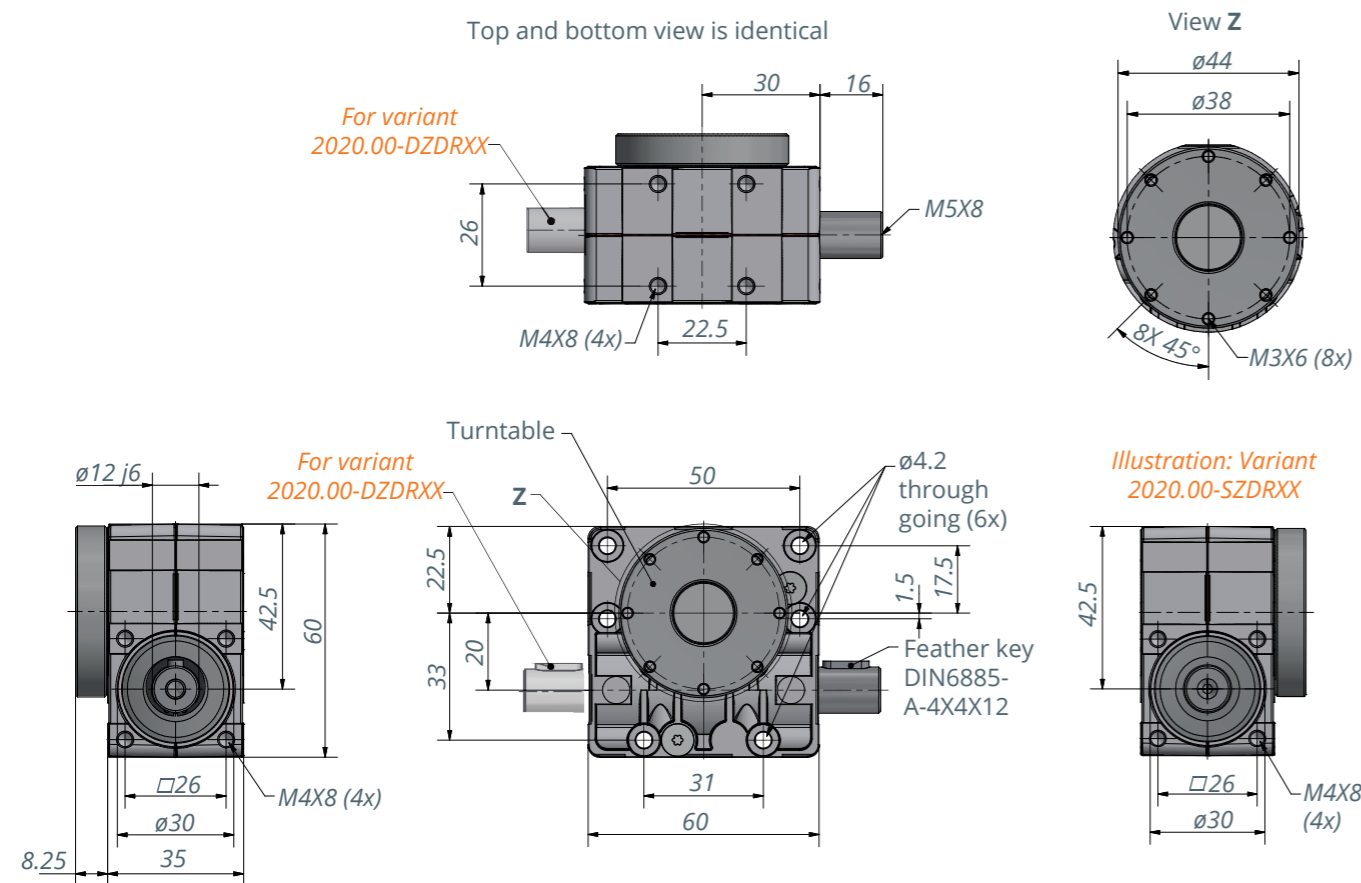
Technical notes

- Variant with **turntable**: Permissible forces on drive side $F_A = 1,500$ N
- The positions of the feather keys as standard in variant D are not in line. Possible on enquiry if needed

Variant with **Aluminium housing**: With one drive pin or through going axis



Variant with **Zinc housing**: With one drive pin or through going axis



Mechanical accessories

	Item number	Illustration
Shaft (Gear connector) with feather key DIN6885-A-4x4x12	5708.39-0000	
Claw coupling D1= 12/ D2= 8 for shaft connection	5790.12-0003	
Claw coupling D1= 12/ D2= 12 for shaft connection	5790.12-0001	
Claw coupling D1= 12 for slide shaft profil (DIN5463-6x12x20)	5790.12-0007	
Mounting flange 45° latching	2010.15-0001	

Application example

