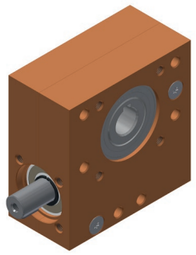
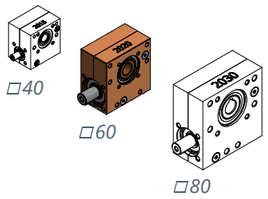
Worm gear Ket-Motion 2020

with feather key groove, turntable or splined shaft connection





Universally usable and maintenance-free worm gear with an **axis distance of 20 mm** and with nine different reduction ratios. The 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.

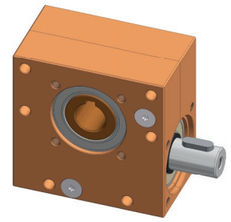
Special features

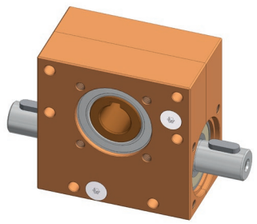
- **Axis distance 20 mm**
- Maintenance-free grease lubrication
- Housing anodized aluminum, orange as standard, other colors possible to suit customer requirement
- 9 reduction ratios from 1:1 to 65:1
- Backlash on the output shaft 1° ± 0.5°
- Duty cycle 20 % for 5 min (1 min ON, 4 min OFF)
- Service life of 1,000 hours with:
  - full load and
  - input speed of 500 rpm and
  - duty cycle 20 % for 5 min and
  - ambient temperature 20 °C

Variant overview

With feather key groove

2020.00-S0PRXX

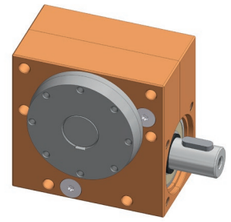


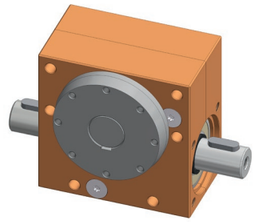


2020.00-D0PRXX

With turntable

2020.00-S0DRXX

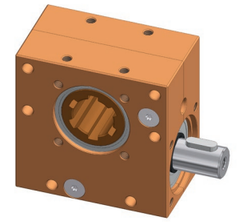


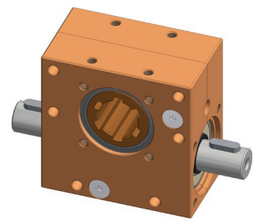


2020.00-D0DRXX

Splined shaft connection

2020.00-S0KRXX





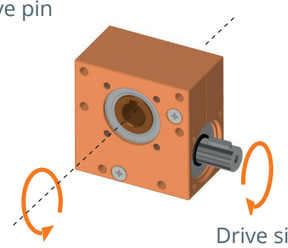
2020.00-D0KRXX

Variant key

Ket-Motion	Configuration of drive side				
2020.00	S	With one drive pin			
	D	With through going axis			
		Color			
		0	Orange anodized (Standard)		
		1	Silver anodized		
		X_I	Color according to customer requirements		
			Configuration of output side		
			P	Feather key groove	
			D	Turntable	
			K	Splined shaft connection	
				Reduction ratio R	
				RXX	9 Reduction variants of R01 (i= 1:1) bis R65 (i=1:65)
2020.00-	**S**	**0**	**P**	**R65**	

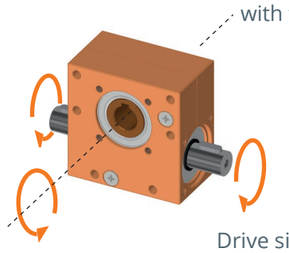
Variant 2020.00-**S**XPRXX
with one drive pin

S



Variant 2020.00-**D**XPRXX
with through going axis

D



Technical data

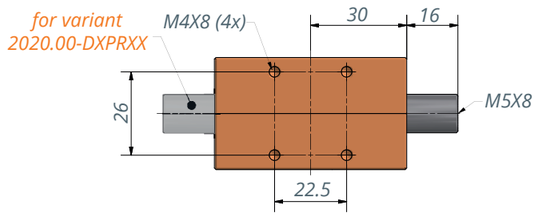
Item number	*Ratio i*	*Self-locking static*	*Output-speed n in min⁻¹*	*Max. output-torque M in Nm*	*Max. drive-torque M in Nm*	*Drive side*		*Degree of efficiency %*
						Radial-force[1] F_R in N	*Axial-force[2] F_A in N*	
2020.00-XXXR65	65 : 1	Yes	100/500/1000	4.5/3.8/3.0	0.2/0.2/0.2	500	500	29
2020.00-XXXR40	40 : 1	Yes	100/500/1000	5.5/4.8/4.0	0.4/0.3/0.3	400	400	39
2020.00-XXXR30	30 : 1	Yes	100/500/1000	8.5/7.0/5.5	0.6/0.5/0.4	350	350	45
2020.00-XXXR23	23 : 1	Yes	100/500/1000	10.0/8.0/6.0	0.9/0.7/0.5	250	250	50
2020.00-XXXR18	18 : 1	Yes	100/500/1000	11.0/9.0/7.0	1.1/0.9/0.7	250	250	55
2020.00-XXXR15	15 : 1	No	100/500/1000	12.0/10.0/8.0	1.5/1.3/1.0	250	200	52
2020.00-XXXR13	13 : 1	No	100/500/1000	15.0/13.0/11.0	2.1/1.8/1.5	200	200	56
2020.00-XXXR05	5 : 1	No	100/500/1000	12/10/8	3.4/2.8/2.3	200	200	70
2020.00-XXXR01	1 : 1	No	100/500/1000	1.5/1.0/0.65	2.1/1.4/0.9	250	250	73

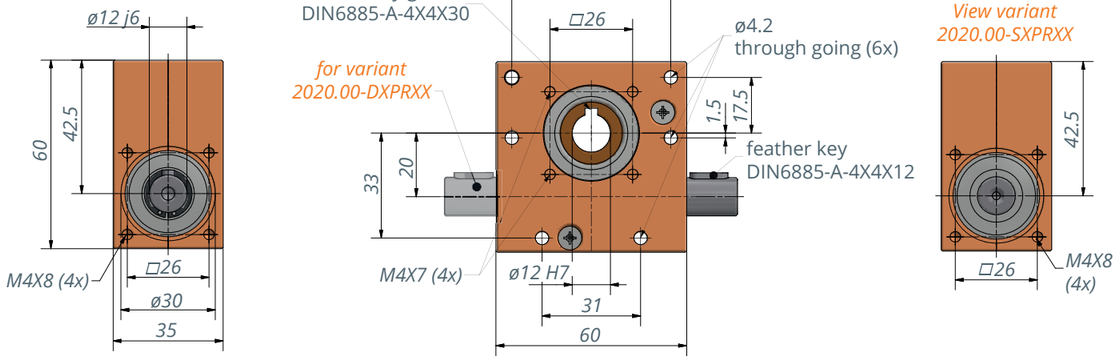
1) The values of F_R apply only when F_A = 0 N
2) The values of F_A apply only when F_R = 0 N

Technical notes

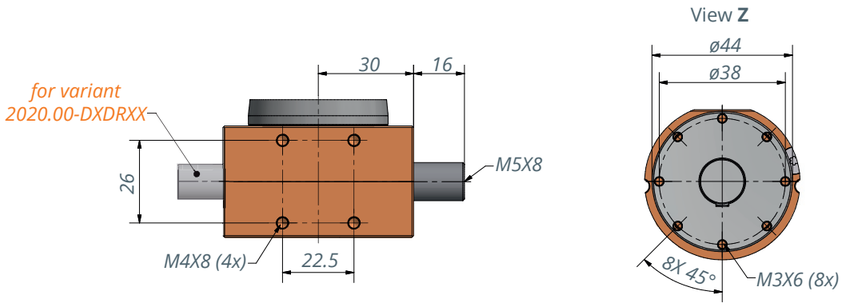
- Variant with **feather key groove**: Permissible force on drive side F_A= 500 N when F_R= 0 N and F_R= 500 N when F_A= 0 N
- Variant with **splined shaft connection**: Permissible force on drive side F_A= 120 N when F_R= 0 N and F_R= 120 N when F_A= 0 N
- Variant with **turntable**: Permissible forces 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

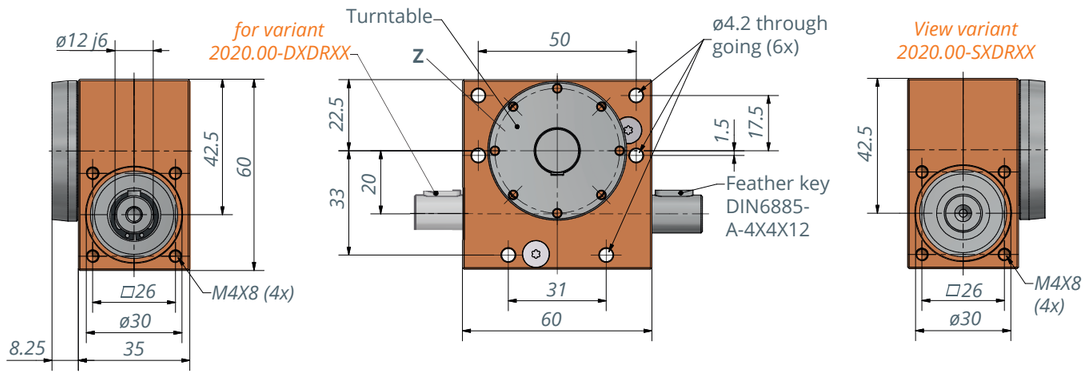
Variant with **feather key groove**: With one drive pin (S) or through going axis (D)





Variant with **turntable**-connection: With one drive pin (S) or through going axis (D)





Variant with **splined shaft connection**: With one drive pin (S) or through going axis (D)