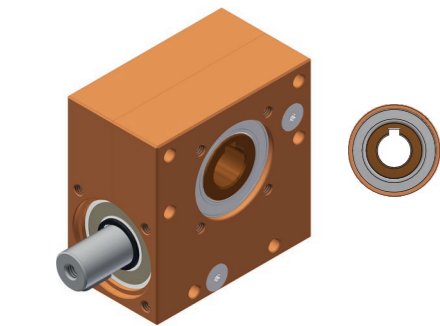


# Worm gear reducer Ket-Motion 2020 P

With feather key groove

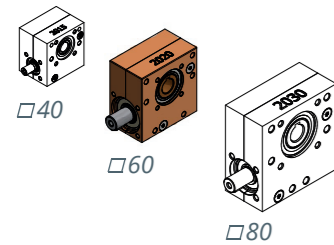


## Description

Universally usable and maintenance-free worm gear with unit 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

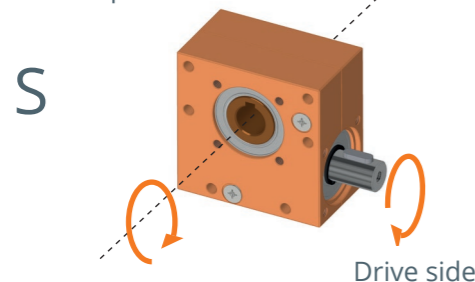
- **Axis distance 20 mm**
- Maintenance-free grease lubrication
- Aluminium housing, anodized (Color on customer request) or Zinc housing in a material-saving design
- 9 reduction ratios from 1:1 to 65:1
- Backlash on the drive shaft  $1^\circ \pm 0.5^\circ$ , (for  $i=1:1$   $2^\circ \pm 0.5^\circ$ )
- 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



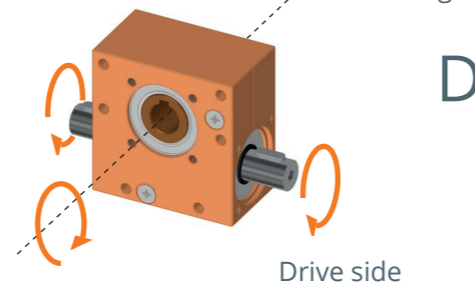
## Variant key

Ket-Motion	Configuration of drive side
2020.00	S With one drive pin D With through going axis  <b>Housing: Material &amp; Optics</b> 0 Alu, orange anodized (standard) 1 Alu, silver anodized Xi Alu, Color according to customer requirements Z Zinc die-cast housing  <b>Configuration of output side</b> P Feather key groove  <b>Reduction ratio R</b> RXX 9 Reduction variants of R01 (i= 1:1) to R65 (i=65:1)
2020.00-	S 0 P R65 <b>Example</b>

Variant 2020.00-SXPRXX with one drive pin

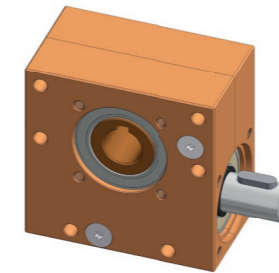


Variant 2020.00-DXPRXX with through going axis

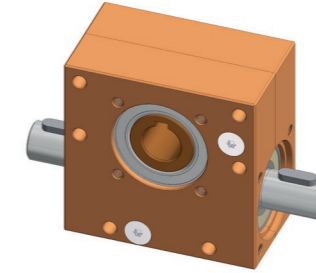


## 2020 P Gearbox with aluminium housing, anodized

With one drive pin  
2020.00-S0PRXX



With through-screw  
2020.00-D0PRXX



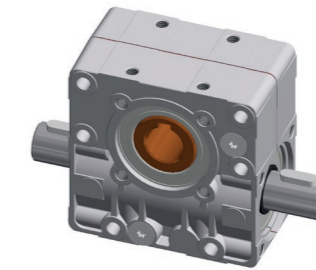
- ▶ Lower point load due to full-surface contact during bolting
- ▶ Free choice of color through anodizing
- ▶ Noble design in the visible area

## 2020 P Gearbox with material-saving zinc housing

With one drive pin  
2020.00-SZPRXX



With through-screw  
2020.00-DZPRXX



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

## Technical data

Item number	Reduction ratio $i$	Self-locking static	Output-speed $n$ in $\text{min}^{-1}$	Max. output torque $M$ in Nm	Max. drive torque $M$ in Nm	Drive side		Degree of efficiency %
						Radial-force <sup>1)</sup> $F_R$ in N	Axial-force <sup>2)</sup> $F_A$ in N	
2020.00-XXPR65	65 : 1	Yes	100/500/1000	4.5/3.8/3	0.2/0.2/0.2	500	500	29
2020.00-XXPR40	40 : 1	Yes	100/500/1000	5.5/4.8/4	0.4/0.3/0.3	400	400	39
2020.00-XXPR30	30 : 1	No	100/500/1000	8.5/7/5.5	0.6/0.5/0.4	350	350	45
2020.00-XXPR23	23 : 1	No	100/500/1000	10/8/6	0.9/0.7/0.5	250	250	50
2020.00-XXPR18	18 : 1	No	100/500/1000	11/9/7	1.1/0.9/0.7	250	250	55
2020.00-XXPR15	15 : 1	No	100/500/1000	12/10/8	1.5/1.3/1	250	200	52
2020.00-XXPR13	13 : 1	No	100/500/1000	15/13/11	2.1/1.8/1.5	200	200	56
2020.00-XXPR05	5 : 1	No	100/500/1000	10/8/6	2.9/2.3/1.7	200	200	70
2020.00-XXPR01*	1 : 1	No	100/500/1000	1.5/1/0.65	2.1/1.4/0.9	250	250	73

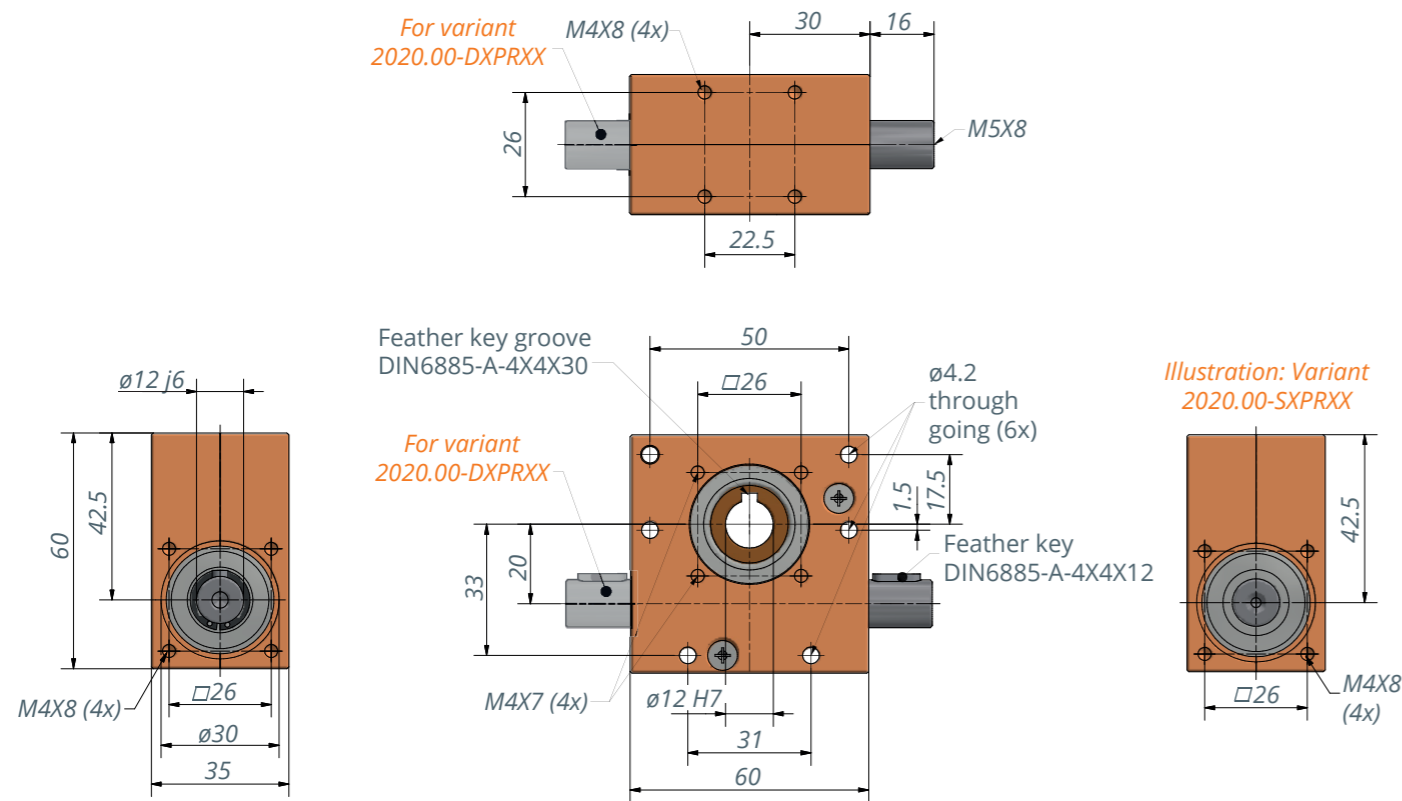
1) The values of  $F_R$  apply only when  $F_A = 0$  N  
 2) The values of  $F_A$  apply only when  $F_R = 0$  N

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

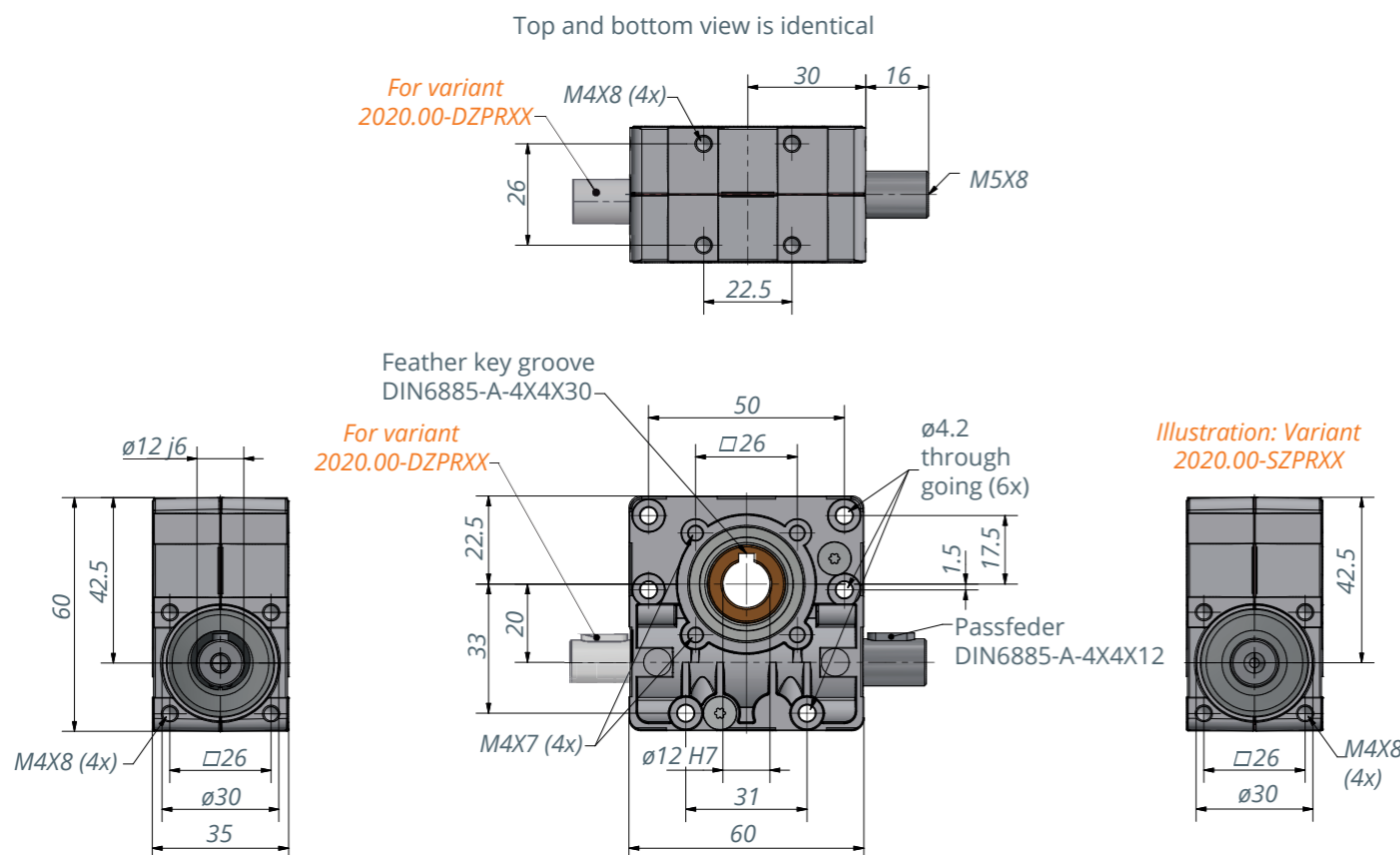
## Technical notes

- Variant with feather key groove: Permissible force on drive side  $F_A = 500$  N at  $F_R = 0$  N and  $F_R = 500$  N at  $F_A = 0$  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
<b>Alu shaft (Gear connector) with feather key DIN6885-A-4x4x12</b>	5708.39-0000	
<b>Steel shaft (Gear connector) with feather key DIN6885-A-4x4x12</b>	5708.39-0001	
<b>Claw coupling D1= 12/ D2= 8 for shaft connection</b>	5790.12-0003	
<b>Claw coupling D1= 12/ D2= 12 for shaft connection</b>	5790.12-0001	
<b>Claw coupling D1= 12 for slinde shaft profil (DIN5463-6x12x20)</b>	5790.12-0007	
<b>Mounting flange 45° latching</b>	2010.15-0001	

Application example

