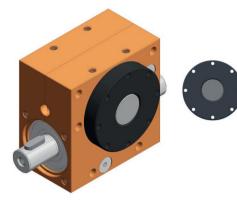# Low-backlash gear Ket-Motion 2020 DS

with turntable

A low-backlash, maintenance-free worm gear unit for demanding applications in positioning or for high-precision measuring tasks.
The housing is encapsulated to prevent the escape of grease and the ingress of dust. The direction of rotation on the shaft is arbitrary.
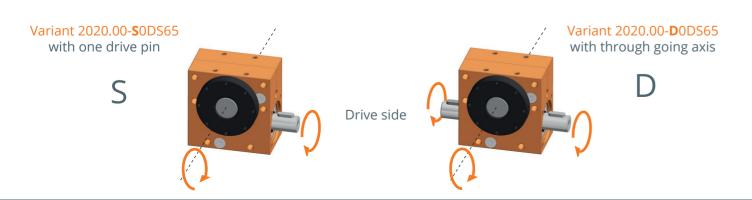
Special features

- Maintenance-free grease lubrication
- Housing: Aluminium anodized
  (Zinc housing on customer request)
- Reduction ratios of 65:1 in standard
  (Other reduction ratios also possible on request)
- Backlash: $\leq 0.05°$ (3′) to M_{Drive} = 0.1 Nm
  $\leq 0.5°$ (30′) to M_{Drive} = 1 Nm
- Duty cycle of 10 % at 5 min (0.5 min ON, 4.5 min OFF)
- Service life of 1,000 hours with:
  - full load and
  - input speed of 100 rpm and
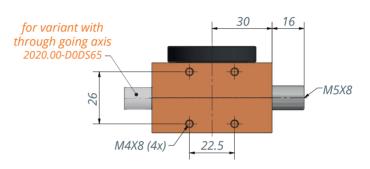 - duty cycle 10% with 5 min and
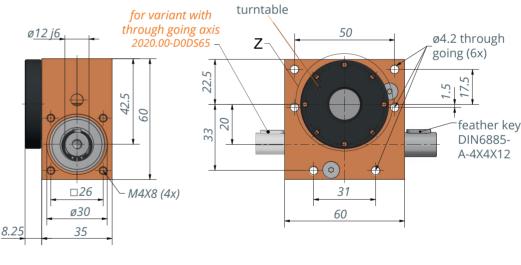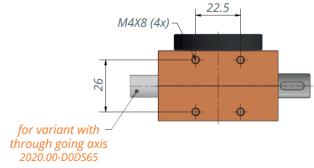 - ambient temperature 20 °C

Technical data

Item number	Reduction ratio i	Self-locking static	Max. output-speed n in min⁻¹	Max. output-torque M in Nm	Max. drive-torque M in Ncm	Max. axial load on drive side in N	Max. axial load on output side in N	Degree of efficiency in %
2020.00-S0DS65 2020.00-D0DS65	65 : 1	Yes	100	1	5	600	1500	35

Other translations on request

for variant with through going axis 2020.00-D0DS65

30 · 16 · 26 · M5X8 · M4X8 (4x) · 22.5

View Z
ø44 · ø39.5 · 45° · M3X6 (8x)

for variant with through going axis 2020.00-D0DS65
turntable · Z · 50 · ø4.2 through going (6x) · 22.5 · 33 · 20 · 1.5 · 17.5 · feather key DIN6885-A-4X4X12 · 31 · 60

ø12 j6 · 42.5 · 60 · ☐26 · M4X8 (4x) · ø30 · 8.25 · 35

Illustration variant with one drive pin 2020.00-S0DS65

22.5 · M4X8 (4x) · 26
for variant with through going axis 2020.00-D0DS65

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			
	Xᵢ	Alu, Color according to customer requirements			
	Z	Zinc die-cast housing (on request)			
	Configuration of output side				
	D	Turntable			
	Reduction ratio				
	S65	i = 65:1 other reduction variants on request			
2020.00-	S	0	D	S65	Example

Variant 2020.00-**S**0DS65
with one drive pin

S

Drive side

Variant 2020.00-**D**0DS65
with through going axis

D

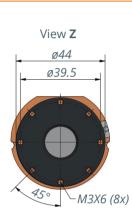### Technical notes

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