Gearbox with flange **RINV-OP62**

Datasheet

Angular gearboxes with bevel and flange are suitable for transmitting the rotary motion between two shafts at right angles.

In combination with a mechanical position indicator type OP2, manual adjustment and direct reading of a measured value of angular or linear movements is possible - even if the shaft is in an uncomfortable position.

- Several orientations and connection possibilities
- Available with 1:1 ratio (standard)

Technical characteristics

Movements on ball-bearings, minimal angular and axial clearance, water-proof



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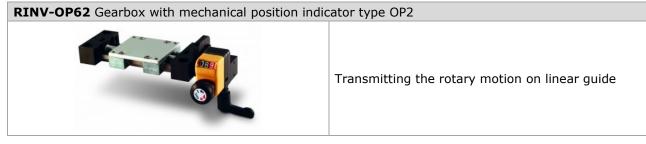
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Dimensions	overall, see section: versions and dimensions			
Diameter				
Shaft, Hollow shaft	Ø8 mm			
Length Hollow shaft	12 mm			
Shaft	55 mm (standard), 35 mm with rotary knob			
Material				
Hollow shaft, shaft	Stainless steel (AISI 303)			
Housing	Die-cast aluminium housing, black anodized (standard)			
Bevel gear	Steal, hardened (Pronox)			
Bearing	Ball-bearings			
Weight	80 g			
Reduction ratio	1:1 (standard)			
Output torque	max. 2.5 Nm			
Axle load	Radial load 7.5 kg			
	Axial load 0.7 kg (see Fig. 7)			
Gearbox				
Straight bevel gears	Straight gearing (standard)			

Applications

The angular gearboxes are suited for industrial use and can be universally used for spindle drives in any mounting position.

- Compact and modular designs, adaptable, easy assembly. The favourable price-performance ratio and small installation space enable a cost-effective system solution.
- Manual or motorised adjustments with matching flange, adapter, flexible shafts and couplings or motor, optionally with position indicators and clamping elements, complete a sensible assembly group in machine and plant construction.



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	Measure	Indicate	Control	Sensors	Mechanics	Accessory	

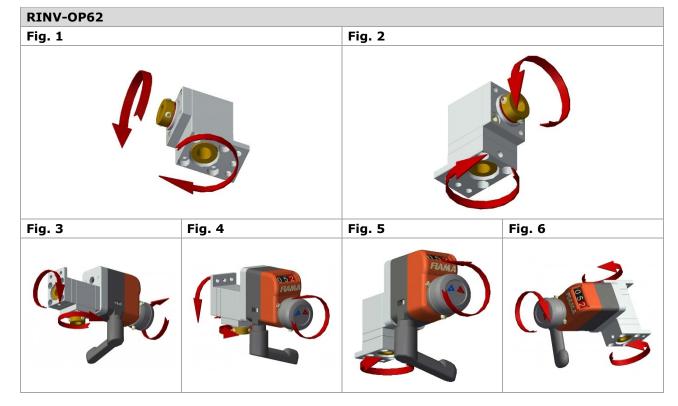
Control Sensors



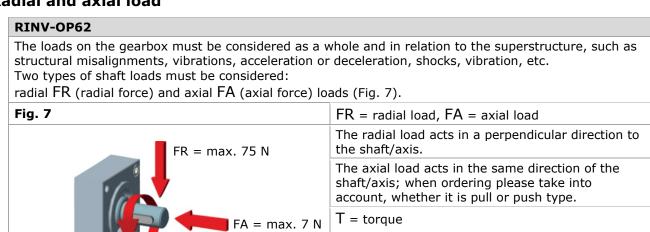
Datasheet

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Mounting positions Version examples



Radial and axial load



Mounting

The RINV-OP is supplied in the version (standard) as shown in the dimension drawing. To change the mounting position of the two flanges (flange on OP side and fixing flange for RINV-OP on machine side), remove the two fixing screws, turn the two flanges to the desired position and retighten the fixing screws.

To fix the machine side, insert the shaft into the hollow shaft RINV-OP, fix the flange to the fixed part of the machine and tighten the set screws through the flange bores.

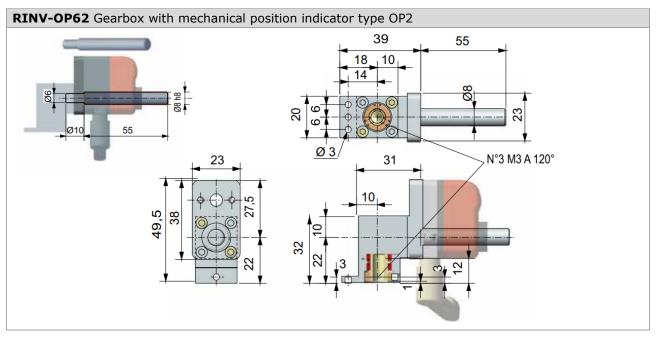
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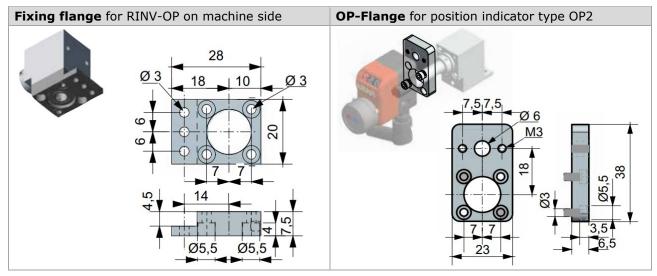
T = max. 2,5 Nm

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Version with dimension drawings





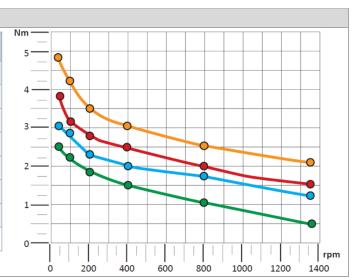
All dimensions in mm

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Efficiency diagrams and tables

(Output torque with ratio 1 (1:1)					
	OUTPUT TORQUE WITH RATIO 1/1 - Drehmoment mit Übersetzung 1/1					
	• TM dc	• TR dc	🔵 Тм dsp	• TR dsp	rpm	
	3,8	2,5	4,9	3,2	50	
	3,3	2,2	4,3	2,9	100	
	2,7	1,8	3,5	2,3	200	
	2,4	1,6	3,1	2,1	400	
	2	1,3	2,6	1,7	800	
	1,6	1,1	2,1	1,4	1400	
				Efficiency - Le	eistung = 90%	



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Glossary				
F _R	Radial load			
FA	Axial load			
R	Force			
Т	Torque			
Τ _M	Maximum torque			
TR	Recommended torque			
TA	Actual torque			
To	Output torque			
TI	Input torque			
Pn	Power			
Ν	Newton			
Nm	Newton meter			
fu	Factor of use			
i	Gear ratio			
rpm	Revolutions per minute (rpm)			
n1	Entry shaft			
n2	Outlet shaft			
dc	Straight bevel gears			
dsp	Spiral bevel gears			
М	Solid shaft			
F	Hollow shaft			
D	Through hollow shaft			

Areas of application

Packaging, food, pharmaceutical, plastic, wood, sheet metal, glass, winding, construction road machines, also on traditional machines and special applications in metal construction, lifting technology, conveyor technology, linear technology, special plant engineering, etc.

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Further accessories can be found in the Mechanics catalogue. Please contact our service department for further information or questions.

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Measure

Gearbox with flange **RINV-OP62**

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Ordering example

Туре

RINV-OP62 -1:1

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Reduction ratio 1:1 = 1:1 (standard)

Length shaft 1)

35 = with rotary knob (optional)



¹⁾ Specify length only if it differs from the standard. Further lengths are available on request.



Sensors

The manufacturer reserves the right to make changes to the products that it deems necessary for their improvement without prior notice.

Indicate

Control

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Measure