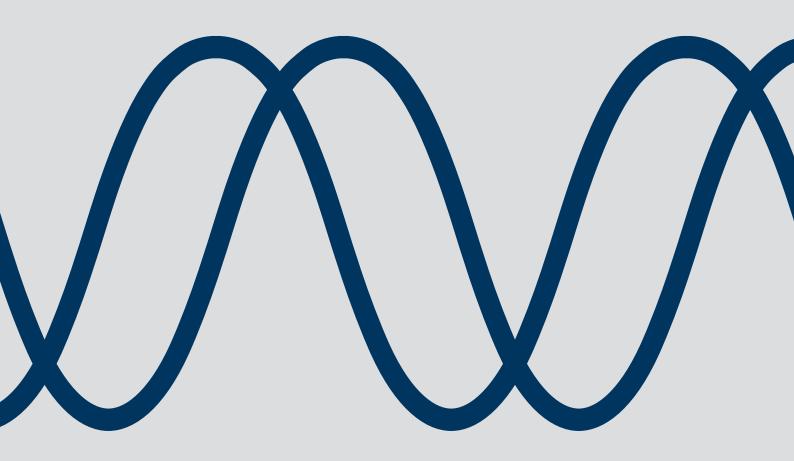
LEINE 🗳 LINDE



Recommended mating shafts HOLLOW SHAFT ENCODERS

SERIES 500, 600, 700, 800, 900

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Please, note: More extensive mounting instructions are delivered with each encoder.

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ES OF HOLLOW SHAFTS	4
STATOR COUPLING G RING	4 4 4
	5
hout stator coupling) (with/without stator coupling) r coupling and stator coupling eyway	5 5 6 6 7 7 8 8 8 8 9 9 9 9 9 9 9 9
	10
	10 10
	10 10

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1 Fixing principles for different types of hollow shafts

1.1 Blind hollow shaft with clamping ring and stator coupling

If space is limited radially, a good solution is to choose an encoder with a blind hollow shaft. This feature makes an axial output possible, which avoids adding anything to the radius. To prevent the encoder rotating with the shaft, it is fitted with a flexible stator coupling, which has also been designed to add as little as possible to the radius.

- Key characteristic: Minimal radial space
- Fixing: Clamping ring
- Available in the 600 and 500 serie

1.2 Through-going hollow shaft with clamping ring

This assembly is the most space-efficient axially. The encoder's hollow shaft is mounted directly on to the mating shaft, meaning there are no protruding shafts or intermediate couplings taking up valuable space. A clamping ring is used to fix the encoder to the mating shaft.

- Key characteristic: Short build length
- Fixing: Clamping ring
- Available in the 800, 700, 600 and 500 series

1.3 Blind hollow shaft with axial fixing screw

A common fixing solution is to secure the encoder's hollow shaft to the mating shaft using an axial screw. With a prepared mating shaft, assembly can be performed quickly and easily, during both manufacture of the machine and servicing. This solution also facilitates the process of centering the encoder to the mating shaft.

- Key characteristic: Easily accessible assembly
- Fixing: Axial screw
- Available in the 800 and 500 series



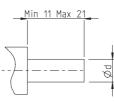


Recommended mating shafts HOLLOW SHAFT ENCODERS

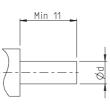
2 Mating shafts

2.1 500 series

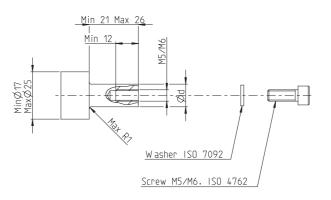
2.1.1 Blind hollow shaft with clamping ring (with/without stator coupling)



2.1.2 Through-going hollow shaft with clamping ring (with/without stator coupling)



2.1.3 Blind hollow shaft with axial fixing screw





Dimensions [mm]

Ød	Tolerance
8	js6
10	js6
12	js6
14	js6
15	js6

Dimensions [mm]

Ød	Tolerance
8	js6
10	js6
12	js6
14	js6
15	js6

Dimensions [mm]

Ød	Tolerance
12	js6

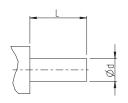
When a 26 mm mating shaft is used the recommended screw length is 20 mm. If the shaft is made shorter the length of the screw must be prolonged accordingly so that minimum 9 mm thread is in use.

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Recommended mating shafts HOLLOW SHAFT ENCODERS

2.2 600 series

2.2.1 Blind hollow shaft with clamping ring and stator coupling



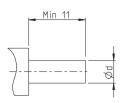
Dimensions	RHA	series	[mm]
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Ød	Tolerance	L = Min/Max
12	g7	11 / 21 mm

Dimensions IHA series [mm]

Ød	Tolerance	L = Min/Max
12	g7	11 / 31 mm

2.2.2 Through-going hollow shaft with clamping ring and stator coupling

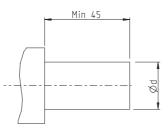


Dimensions [mm]

Ød	Tolerance
12	g7

2.3 700 series

2.3.1 Through-going hollow shaft with clamping ring



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Dimensions

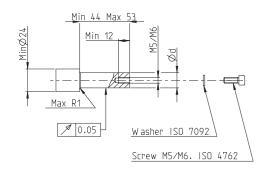
Ød	Tolerance
12 mm	g6
14 mm	gб
16 mm	gб
20 mm	g6
25 mm	gб
5/8 inch	gб
3/4 inch	gб
1 inch	gб

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Recommended mating shafts HOLLOW SHAFT ENCODERS

2.4 800 series

2.4.1 Blind hollow shaft with axial fixing screw

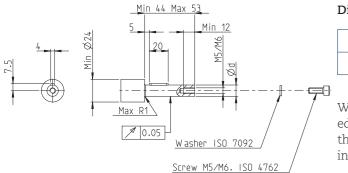


Dimensions [mm]

Ød	Tolerance
12	js6
16	js6

When a 53 mm mating shaft is used the recommended screw length is 16 mm. If the shaft is made shorter the length of the screw must be prolonged accordingly so that minimum 9 mm thread is in use.

2.4.2 Blind hollow shaft with axial fixing screw and keyway

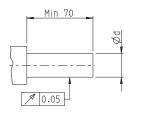


)im	ensions	[mm]
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Ød	Tolerance
12	js6

When a 53 mm mating shaft is used the recommended screw length is 16 mm. If the shaft is made shorter the length of the screw must be prolonged accordingly so that minimum 9 mm thread is in use.

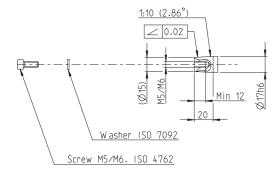
2.4.3 Through-going hollow shaft with clamping ring



Dime	nsions

Ød	Tolerance
1 inch	gб
25 mm	g6

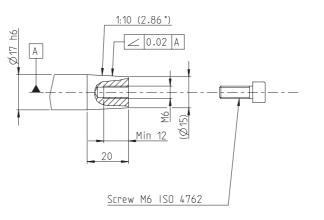
2.4.4 Taper hollow shaft with axial fixing screw



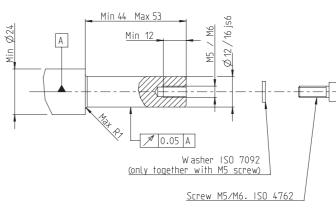
Recommended screw length 25 mm, minimum 8 mm thread in use.

2.5 900 series

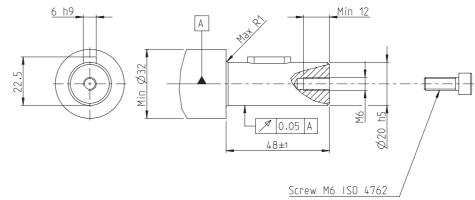
2.5.1 Taper hollow shaft with axial fixing screw



2.5.2 Blind hollow shaft with axial fixing screw



2.5.3 Blind hollow shaft with axial fixing screw and keyway



Recommended screw length 25 mm, minimum 8 mm thread in use. Max screw head diameter 10,5 mm.

When a 53 mm mating shaft is used the recommended screw length is 16 mm. If the shaft is made shorter the length of the screw must be prolonged accordingly so that minimum 9 mm thread is in use. Max screw head and washer diameter 10,5 mm.

Recommended screw length 16 mm, minimum 9 mm thread in use. Max screw head diameter 10,5 mm.

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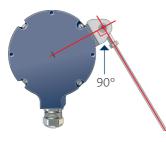
3 Shaft runout (all series)

Check the encoder's radial runout with slow rotation of complete assembly. The runout should not exceed 0.1 mm, as this may shorten the encoder's service life or influence the system accuracy.



4 Torque arms (800 and 700 series)

Fix the encoder with an insulated torque arm. It must be fitted at 90 degrees angle to the direction of the bracket, for optimum accuracy of measurement.



4.1 Accessory torque arms (to be ordered separately)

4.1.2 Mounting with M6 torque arm

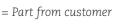
Part number 01208014 (800 or 700 series)



4.1.3 Alt. mounting with M5 torque arm

Part number 01208013 (800 series)











The best encoders are those you never have to think about. Those that simply do their job - year after year. Leine & Linde develops and manufactures customised encoder solutions for demanding environments, advanced measuring systems for accurate feedback of speed and position.

LEINE LINDE

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