

Mounting and Maintenance Instruction BD

- 1 The screw jack must not be overloaded.
- 2 The base on which the screw jack is mounted should be strong enough to carry the maximum load and should be rigid enough to prevent swings or turns on the supporting beam of the jack.
- 3 When mounting it is necessary to make sure that the screw jack is carefully adjusted and that connecting shafts and worm shafts are exactly aligned. When jacks, shafts, gear boxes, etc., have been connected, it should be possible to turn the main driving shaft by hand (provided that the jacks are unloaded). If there are no signs of seizure or misalignment, the jack system is now ready for normal operation.
- 4 The screw jack should have a longer length of stroke than is actually required of the application. Should it be necessary to use the total length of stroke, this must be done carefully. It is important that the spindle of the screw jack is not screwed beyond the closed height (see catalogue). Otherwise the worm gear could be severely damaged.
- 5 The screw jack spindle must not be permitted to collect dust or sand in the threads. If possible, the spindle should be retracted to the closed position when not in service.
- 6 Maximum wear for screw jacks type BD and BDL is reached when the thread thickness of the worm wheel or lifting nut is reduced to 50%. Worm wheel or lifting nut must then be replaced. For single threaded trapezoid spindles the permitted wear is $\frac{1}{4}$ of the lead. The customer should regularly check that the normal permitted wear is not exceeded.
- 7 If the screw jack is stored during a longer period, it should be kept in dry environment and protected from dirt and dust. After 5 years, the grease should be renewed.

Lubrication BD

Type of grease

At ambient temperature -30°C to +30°C:

BP	Energrease LS-EP2
Castrol	Spheerol EPL2
Esso	Beacon EP2
Gulf	Gulflex MP
Mobil	Mobilux EP2
Shell	Alvania EP grease 2 or Retinax A
SKF	Alfalub LGEP2
Texaco	Multifak EP2

At ambient temperature -45°C to -30°C:

Mobil	Mobil SHC32
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At ambient temperature +30°C to +70°C:

Mobil	Mobil SHC100 with Viton seal rings
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Lubrication Intervals

Normal Duty:	Every 30 h of duty ($v < 1000$ mm/min)
Ardous Duty:	Every 10 h of duty ($v > 1000$ mm/min)
Grease Renewal:	Every 400 h of duty

Grease Quantity in Screw Jack Body

<u>Size</u>	<u>Quantity</u>
BD/BDL/BDKL 27	0.3 kg
BDK 27	0.4 kg
BD/BDL/BDKL 40	0.5 kg
BDK 40	0.7 kg
BD/BDL/BDKL 58	0.9 kg
BDK 58	1.7 kg
BD/BDL/BDKL 66	1.2 kg
BDK 66	2.0 kg
BD/BDL 86	1.4 kg
BD/BDL 100	2.5 kg
BD/BDL 125	5.2 kg
BD/BDL 200	15 kg

On screw jacks type BDL and BDKL, the spindle should always be lubricated with a thin film of grease.