

SHRINK DISC



High torque and axial load transmission

Required contact pressure between shaft and hub can be generated

by using the proper number and size of screws. Elimination of keys and keyways

Machining costs are reduced, notch effect is practically eliminated, full

shaft cross selection can be utilized.

loosening the locking screws

Unaffected by fluctuating or reversing loads Shrink Disc connection is absolutely tigt and free of backlash.

Axial and angular adjustability Precise and easily timing and positioning of the hub on the shaft. This connection can be easily released by simply

Since the fitting tolerances are relatively large, the connection is easily broken as the hub relaxes to its original diameter. The Shrink Disc

connection can be made and released as often as required.

That is in the same way as with the conventional shrink fit.

Torque is transmitted directly from shaft to hub or vice versa.

True running is not affected by the Shrink Disc Neither the manufacturing accuracy of the shrink disc nor uneven

tightening of the locking screws has any effect on true running of the

dw

mm

125

130

135

mm

175

185

Type

175-91

185-91

Mt

Nm

40000

44000

48000

Pax

640000

677000 711000

N.

Weight

kg

22

37

41

67

82

102

118

131

186

204

204

239

260

316

408

420

505

575

mm

85

85

85

103 54

107

119

132

140

140

155

159

159

163

163

184

192

192

213

213

mm

300 65

330

connection.



								195-91	195	135 140 145	55000 60000 65000	815000 857000 895000	350
								200-91	200			928000	350
Typo	d	dw	Mt	Pax	D	Н	Weight	220-91	220	140 150 155	65000 76000 815000	1013000 1052000	370
Type 24-92	mm 24	mm 19	Nm 170	N 17000	mm 50	mm 18	kg 0.2	240-91	240	150 155	78000 84000	1040000 1084000	405
30-92	30	20 21	210 250	21000 23800	60	20	0.3	260-91	260	160	90000	1125000	430
38-92	36	24 25 26	300 340 380	25000 27200 29200	65	22	0.4	180-91	280	160 165 170	100000 108000 116000	1250000 1309000 1365000	460
44-92	44	28 30	440 570	31400 38000	80	24	0.6	300-91	300	170	120000	1412000	485
50-92	50	31 34 35	630 710 780	40550 41800 44600	90	26	0.8	320-91	320	180 190	138000 156000	1533000 1642000	520
55-02	55	36 38	880 940	47800 49500	100	29	1.1	340-91	340	190 200	164000 184000	1726000 1840000	570
62-92	62	40 42	1160 1380	58000 65700	110	29	1.3	250-91	350	210	204000		590
68-02	68	42 45 48	1160 1520 1880	55300 67600 78300	115	29	1.4	360-91	360	210 220 230	217000 245000 273000	2062000 2227000 2374000	590
75-92	75	48 50	1750 2000	73000 80000	138	31	1.7	380-91	380	230 240	262000 29000	2278000 2442000	645
80-92	80	52 50 55	2250 1850 2500	86500 74000 91000	145	31	1.9	390-91	390	245	308000		660
90-92	90	60 55	3150 2400	105000 87300	155	38	3.3	420-91	420	240 250	306000 340000	2720000	690
100-92	100	60 65	3200 3950	106700 121500	170	43	4.7	440-91	440	260 250	374000 394000	2877000 3152000	750
110-92	110	60 65 70	3200 3900 4600	106700 120000 131500	185	49	5.9	460-91	460	260 270	430000 466000		770
125-92	125	65 70	4750 6000	146200 171400	215	53	8.3	480-91	480	270 280	458000 500000	3393000 3572000	800
140-91	140	75 70	7250 6000	193400 171400	230	58	10	500-91	500	285	521000	3656000	850
155-91	155	75 80 75	7500 8000 7200	200000 225000 192000	263	62	15			280 290 295	507000 560000 572000	3622000 3793000 3878000	
165-91	165	80 85 85 90	9000 10800 11000 13000	225000 254100 258800 288900	290	68	22			290 300 310	590000 640000 690000	4069000 4267000 4452000	
		95 95 100 105	15000 15100 17600 20100	315800 317900 352000 382900						300 310 320	660000 710000 760000	4900000 4580000 4750000	
		105 110 115 115	22000 25000 28000 31000	419000 454500 487000 539000						330 340 350	780000 840000 900000	4727000 4940000 5143000	
		120 125	35000 39000	583000 624000						340 350 360	890000 960000 1030000	5235000 5846000 5722000	

5. For easy positioning the contact surfaces of the shaft and hub (dia) should be oiled (On these surfaces no MoS, should be used.

tightening torque.

Otherwise deformations may occur.

M5

4

M6

12

INSTALLATION

- 6. Before final tightening of the screws both thrust rings should be squarely positioned by preloading the locking scres.
- 7. Finally the locking screws have to be tightened clockwise (not in adiametrically opposite sequence). The screws have to be tightened in two, three or more stages up to the indicated

1. The contact area for the Shrink Disc on the hub extension has to be cleaned and greased. 2. Distance pieces which have been used for shipping purposes only must be removed. 3. Do not tighten screws before the Shrink Disc is positioned on the hub extension.

4. Before the Shrink Disc and hub and are positioned on the shaft, do not start to tighten the screws.

Inner ring

360

370

380

380 390

400

400

410

420

1000000

1070000 1140000

1200000

1270000

1340000

1440000

1520000

1600000

M20

490

M24

840

M24

1250

5556000 5784000

0000000

6316000

6513000

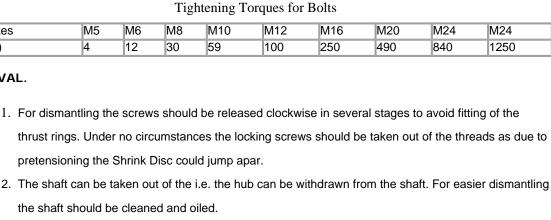
6700000

7200000 7415000

7619000

Hub Shaft **Bolt Sizes** TA(Nm) REMOVAL.

Front thrust ring Rear thrust ring Locking Screw



3. The Shrink Disc can now be removed from the hub extension.

CLEANING AND RE-LUBRICATION After having been in use Shrink Discs should dismantled and cleaned. The cones have been lubricated with greases containing MoS (e.g. Molykote G Rapid) if the working surfaces are not damaged, they have to be

relubricated with Molykote BR2 Also the screws (threads and contact areas for the heads) have to be

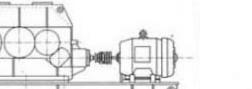
Please let us know what your specific shalt -hub connection problems are and we shall be very happy to work out detailed recommendations without any obligation. Just a sketch with your requirements and

lubricated with Molykote BR 2. **Technical Assistance**

- 3. Shaft speed 4. Grade of shaft and hub material

2. Shaft diameter (dw)

5. Operating temperature.

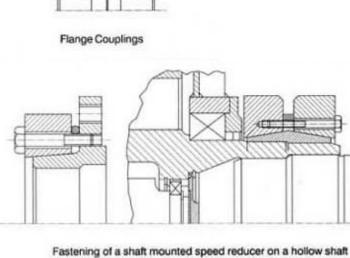


specifications including following information:

1. Maximum torque and axial load to be transmitted



Drive Shaft Joint



Fastening of a large gear by a divided

Shrink - Disc

11, VASTA HOUSE, GR. FLOOR, JANMABOOMI MARG,