

### Exalto Thrust bearings

The double row roller bearing with spherical roller bearing is the best combination for thrust bearings. Due to the thrust bearing the thrust is transmitted to the vessel's construction and the gearbox and engine will be spared.

Exalto supplies the following housing constructions:

- Separate, for mounting on the foundation, with a mounting base at the bottom or side of the housing.
- Separate, for mounting with a flange to the engine room bulkhead.
- As one part with the stern tube shafts, for mounting with a flange to the engine room bulkhead.

The thrust bearings are available from shafts Ø 60 mm.

Prices and sizes on request.

### SKF Plummer block roller bearing unit

Exalto offers two types of plummer block roller bearings:

- Type ST: with tapered withdrawal split type sleeve, which is mounted into a recess in the shaft.
- Type SR: with tapered clamp-on non-split type, which is mounted directly on the shaft.

The plummer block roller bearing can transmit the thrust and strength of the draught directly to the ship, so the gearbox and engine will be spared. The bearing should be filled with oil up to 1/3 of bottom roller height. Available up to 100 mm. Other sizes are available on request.

#### Type ST

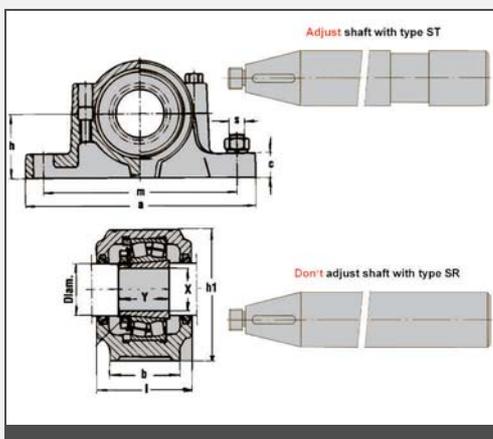
For transmitting thrust.  
All dimensions in mm.

Shaft diam. (mm)	h	l	a	b	c	m	h1	b	X	Y	Cat. no.
25	50	77	185	52	22	150	87	52	22	31	81210
30	50	82	185	52	22	150	92	52	27	35	81220
35	60	90	205	60	25	170	112	60	32	46	81230
40	70	95	255	70	28	210	127	70	37	50	81240
45	70	105	255	70	30	210	133	70	42	55	81250
50	80	110	275	80	30	230	148	80	47	59	81260

#### Type SR

All dimensions in mm.

Shaft diam. (mm)	h	l	a	b	c	m	h1	s	Cat. no.
25	50	77	185	52	22	150	87	M10	81215
30	50	82	185	52	22	150	92	M10	81225
35	60	90	205	60	25	170	112	M12	81235
40	70	95	255	70	28	210	127	M16	81245
45	70	105	255	70	30	210	133	M16	81255
50	80	110	275	80	30	230	148	M16	81265



### Maximum allowable thrust

Relation between the engines rating and the rotations per minute with the plummer block roller bearing.

Shaft diam. (mm)*	Engine rating (kW)	Shaft rpm**	Thrust (kN)	Shaft diam. (mm)*	Engine rating (kW)	Shaft rpm**	Thrust (kN)
25	50	2500	2.5	65	270	2000	19.0
30	60	2500	3.0	70	305	2000	21.4
35	125	2500	6.0	75	350	1500	24.5
40	160	2500	8.0	80	400	1500	28.0
45	200	2500	10.0	85	450	1500	31.5
50	185	2000	13.0	90	520	1500	36.4
55	200	2000	14.0	100	600	1500	42.0
60	235	2000	16.5				

\*L10h = 5000 hours.

\*\*With less rpm the lifetime will increase.

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