

## Curved-Tooth Gear Couplings BOS II made from Polyamide/Sintered Metal

**Material:** Sleeve part: polyamide 6.6.  
Hub parts: sintered metal, black oxide finish.

**Bore tolerance H7 with keyways DIN 6885/1 and set screws (2 screws per hub).**

**Hubs with \* are pre-bored, without keyway and without set screw threads.**

Axial displacement = max.  $\pm 2$  mm per hub.  
Angular displacement = max.  $\pm 1^\circ$  per hub.  
Radial displacement = max. 0.3 mm at 1500 min<sup>-1</sup>.  
The permissible displacement values are dependent on power and speed.

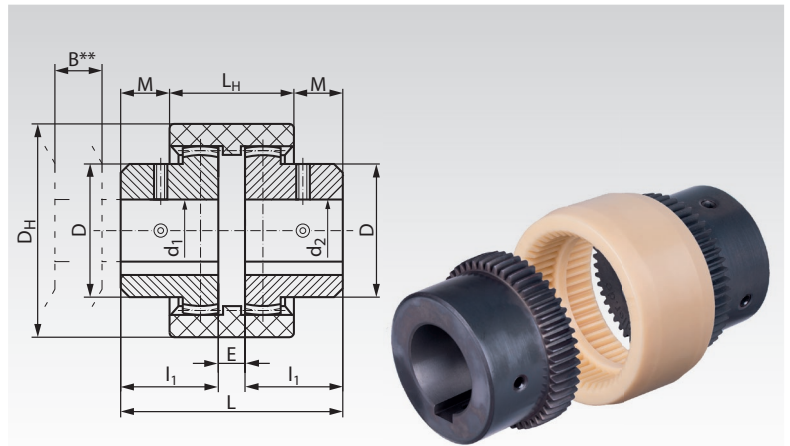
Temperature range: -40°C to +80°C,  
short time up to +120°C.

**All 3 parts have to be ordered separately.**

**Other sizes and bores on request.**

Ordering Details: e.g. for coupling Size 14,  
with bore 8mm and bore 10mm:

1 Item Product No. 607 614 08 Hub, size 14, bore 8mm  
1 Item Product No. 607 614 10 Hub, size 14, bore 10mm  
1 Item Product No. 607 614 00 Sleeve, size 14



Position of set screws:  
1 x on opposite of keyway, 1 x 90° displaced.

Product No. Hub	Size	Hub-bore d <sub>1</sub> / d <sub>2</sub>	Product No. Sleeve	Torque normal Nm	Torque peak Nm	Speed max. min <sup>-1</sup>	D mm	D <sub>H</sub> mm	B** mm	I <sub>1</sub> mm	E mm	L mm	L <sub>H</sub> mm	M mm	Weight Hub g	Weight Sleeve g
607 614 01*	14	5*	607 614 00	12	22	13000	25	41	14	20	9	49	37	6	80	25
607 614 08	14	8	607 614 00	12	22	13000	25	41	14	20	9	49	37	6	80	25
607 614 10	14	10	607 614 00	12	22	13000	25	41	14	20	9	49	37	6	80	25
607 614 12	14	12	607 614 00	12	22	13000	25	41	14	20	9	49	37	6	80	25
607 614 14	14	14	607 614 00	12	22	13000	25	41	14	20	9	49	37	6	80	25
607 619 01*	19	10*	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 10	19	10	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 12	19	12	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 14	19	14	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 15	19	15	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 16	19	16	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 619 19	19	19	607 619 00	18	30	11000	32	48	14	21	9	51	37	7	100	35
607 624 01*	24	10*	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 12	24	12	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 14	24	14	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 15	24	15	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 16	24	16	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 19	24	19	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 20	24	20	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35
607 624 24	24	24	607 624 00	24	36	10000	36	52	13,5	21	13	55	40	7,5	150	35

\* Hubs pre-bored, without keyway, set screw threads and screws.

\*\* B is the minimum dimension by which a machine part has to be moved in order to demount one of the coupled units in vertical direction.

### General

When running the coupling in, the outer layer of the plastic teeth is worn away. The resulting flocculent abrasion is not to be interpreted as wear. Simple mounting - no maintenance - low weight - long service life.

### Mounting

Align shafts, put feather keys into the shafts, push hubs onto the shafts. Push the hubs into the sleeve part, until you reach length L. The distance between the shafts should be measure E. Then the set screws have to be tightened firmly.