

# Self-Lube® product range

NSK manufactures several ranges of mounted units. These include Self-Lube®, our recognized standard, and recently introduced ranges such as Silver-Lube®, Life-Lube® and Molded-Oil™ units. In each type, there are two basic components, the insert and the housing.

## Self-Lube® bearing inserts

The Self-Lube® bearing insert, commonly known as a wide inner ring bearing, is designed to suit the wide range of housings offered by NSK in the Self-Lube® bearing family and is also suitable for applications where the user's own housing is preferred.

They are basically deep-groove ball bearings, to the popular 6200 series configuration, with integral design features making them more functional and versatile than standard ball bearings. The radial internal clearance is C3 for standard bearing inserts and bearings can be offered with either parallel or spherical outside diameter outer rings with the latter being the type fitted in the bearing unit. The integral design features of the bearing insert, such as shaft locking, sealing and lubrication, are explained in the following pages.

## Self-Lube® bearing units

The range of Self-Lube® bearing units offers a wide choice of cast iron, pressed steel, synthetic rubber, thermoplastic or stainless steel housings fitted with spherical outside diameter Self-Lube® bearing inserts. They will generally accommodate initial housing misalignment up to 0.030 radians but are not recommended for running misalignment in excess of 0.001 radians. The general housing types are pillow blocks, flange units, take-up units, cartridge units and hanger units. Choice is very much

determined by the requirements of the application, although the aesthetic appearance of the machine design is often an important consideration. Self-Lube® units have been designed to meet the needs of both criteria.

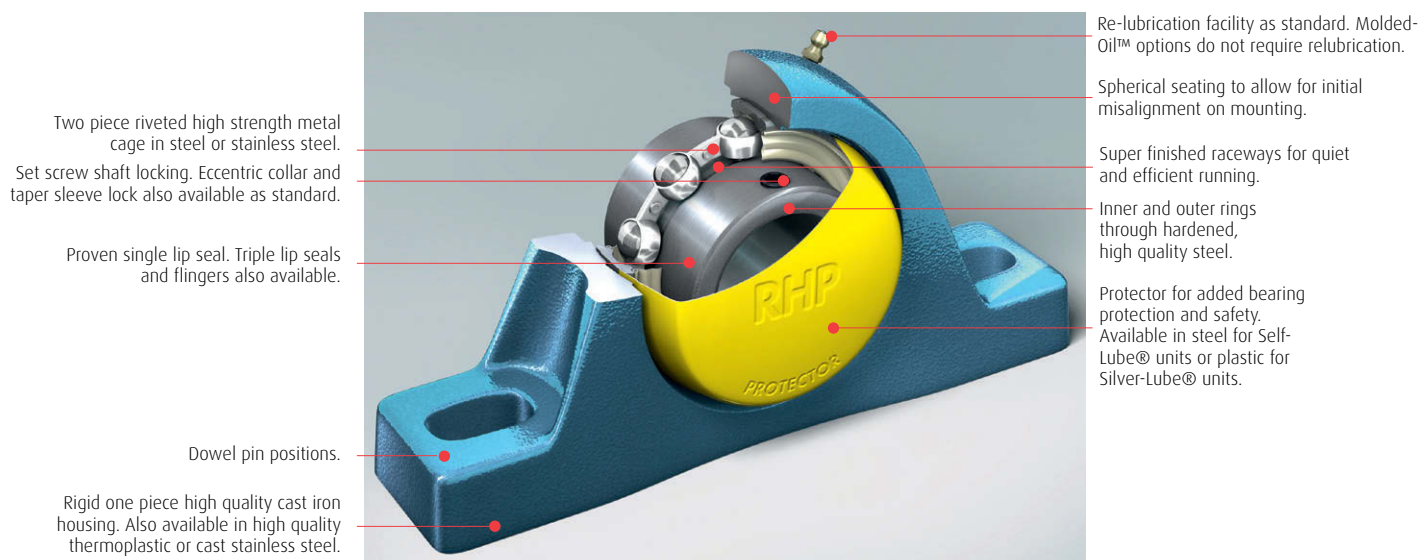
- › Cast iron unit castings are made from high-quality cast iron, and finished on unmachined surfaces with an electrostatic air-drying paint.
- › Pressed steel housings are made from mild steel strip, and are zinc plated.
- › Thermoplastic housings are moulded in highgrade PBT, a high quality thermoplastic polyester resin.
- › Stainless steel housings are made from austenitic stainless steel castings (SCS13).

## Additional products

NSK recognizes the need for 'tailor made' solutions and is always willing to help customers who have a requirement for something out of the ordinary.

## Dynamic load ratings

The NSK dynamic load ratings given in this catalog and the relationship between these and bearing fatigue life are based on ISO standard 281.

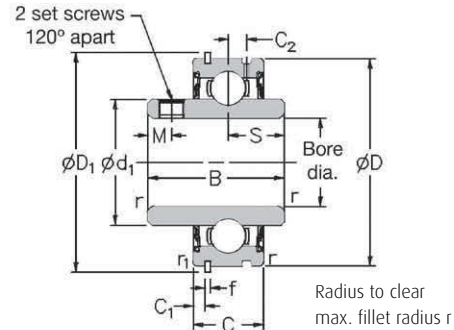


# Self-Lube<sup>®</sup> bearing inserts complete with snap ring

## 1100CG Series

### 1100CG

With parallel outside diameter and integral set screw lock



Shaft diameter		RHP designation	Dimensions (mm)												ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches	1100CG Series	D	D1	C	C1	C2	B	s	d1	f	M	r	r1	dynamic Cr newtons	static Cor newtons	rev/min	kg
20		<b>1120-20CG</b>	47.000	52.68	15.88	2.39	4.17	31.00	12.73	28.30	1.12	5.00	1.00	0.50	12800	6650	6700	0.23
	3/4	<b>1120-3/4CG</b>																
25		<b>1125-25CG</b>	52.000	57.81	19.05	2.39	4.39	34.10	14.33	34.00	1.12	5.00	1.00	0.50	14000	7880	6250	0.31
	7/8	<b>1125-7/8CG</b>																
	15/16	<b>1125-15/16CG</b>																
	1	<b>1125-1CG</b>																
30		<b>1130-30CG</b>	62.000	67.69	22.22	3.18	5.10	38.10	15.93	40.30	1.70	5.00	1.00	0.50	19500	11300	5300	0.42
	1 1/8	<b>1130-1 1/8CG</b>																
	1 1/16	<b>1130-1 1/16CG</b>																
35		<b>1135-35CG</b>	72.000	78.51	23.81	3.18	5.61	42.90	17.53	46.90	1.70	6.50	1.00	1.00	25700	15300	4500	0.61
	1 1/4	<b>1135-1 1/4CG</b>																
	1 3/8	<b>1135-1 3/8CG</b>																
	1 7/8	<b>1135-1 7/8CG</b>																
40		<b>1140-40CG</b>	80.000	86.51	27.78	3.18	6.22	49.20	19.03	52.40	1.70	8.00	1.00	1.00	32500	19900	4000	0.91
	1 1/2	<b>1140-1 1/2CG</b>																
45		<b>1145-45CG</b>	85.000	91.51	27.78	3.18	6.52	49.20	19.04	57.40	1.70	8.00	1.00	1.00	32500	20500	3700	1.05
	1 5/8	<b>1145-1 5/8CG</b>																
	1 11/16	<b>1145-1 11/16CG</b>																
	1 3/4	<b>1145-1 3/4CG</b>																
	1 7/8	<b>1150-1 7/8CG</b>	90.000	96.49	28.58	3.18	6.72	51.59	19.10	62.40	2.46	10.00	1.00	1.00	35000	23200	3400	1.10
	1 15/16	<b>1150-1 15/16CG</b>																
55		<b>1155-55CG</b>	100.00	106.50	30.16	3.18	7.43	55.60	22.20	68.90	2.46	10.00	1.00	1.00	43500	29200	3100	1.50
	2	<b>1155-2CG</b>																
	2 3/16	<b>1155-2 3/16CG</b>																

Please check availability