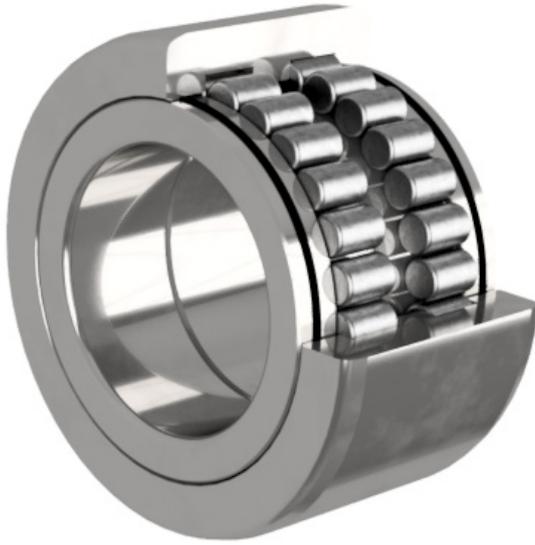


TECHNICAL SPECIFICATIONS FOR PRESSURE ROLLS



- 1 – Outer ring
- 2 – Inner ring
- 3 – Cylindrical roller
- 4 – FKM O-Ring

Pressure rolls have the following technical characteristics:

The **outer** and **inner rings** are usually made of 100CrMo7 (UNI 3097) hardened steel, steel with the best resistance to wear due to fatigue.

The **outer ring**, of great thickness, has three integral edges. It also has a very wear-resistant diametrical outer surface

The **inner ring** is in two parts, each equipped with an integral flange, designed to withstand the strong axial loads that accompany radial loads.

Some executions provide for the bainitic hardening heat treatment in cases where the application is particularly subjected to shocks.

The suffixes to be added in this case are:

- BH1 - Bainitic hardening for both rings;
- BH2 - Bainitic hardening only for the outer ring.

Some executions require the use of 18NiCrMo5 (UNI 7846) case hardening steel.

The surface hardness that can be achieved for these parts is 60 + 2 HRc.

These bearings, normally working in the presence of high temperatures, are always subjected to stabilization treatment for use up to 250 ° C.

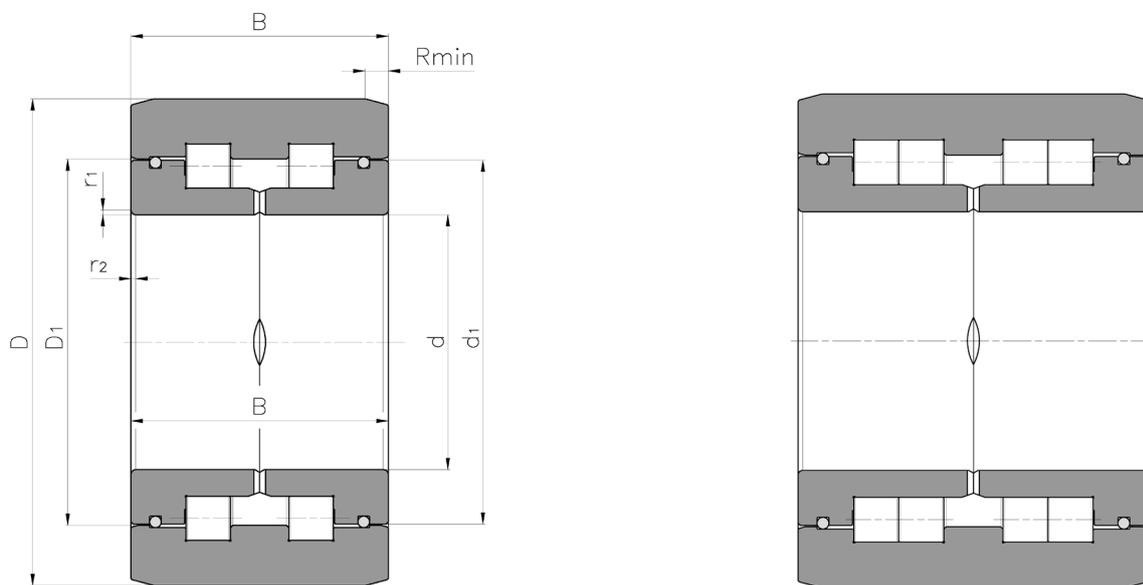
The **O-rings** (FKM), inserted in a special groove of the inner ring edges, make the bearing non-separable and prevent the contamination from the outside and the leakage of the lubricant. The material allows it to be used up to 250 ° C.



The **pressure rollers** basically derive from full complement double row cylindrical roller bearings. In some cases, they can be four-row, full complement cylindrical rollers

Originally, the pressure rollers were designed to be used on the continuous furnaces of sintering and pelletizing plants.

These units, ready for assembly, are also suitable for all applications where high loads are present and the direction of rotation often reverses, or in applications where there are low speeds.



	d	d1	D	D1	B	r1,r2 min	R min	C	C0	Cw	C0w	Weight
	[mm]							[kN]				[Kg]
DSRP 1000	110	157	210	158	110	2	10x15°	402	610	255	325	20
DSRP 1001	120	157	158	210	114	4	10x15°	550	915	330	455	19
DSRP 1002	140	187	250	188	114	3	13,5x17°	825	1400	512	750	25
DSRP 1003	140	187	280	188	114	3	13,5x15°	915	1460	671	1000	34
DSRP 1004	160	195	250	197	140	3	13,5x17°	2100	4400	1100	1830	26

C = Radial dynamic load rating
C0 = Radial static load rating

Cw= Radial dynamic load rating as a roller
C0w= Radial static load rating as a roller

SUFFIX

BH1 = Bainitic hardening on inner and outer ring

BH2 = Bainitic hardening on outer ring

For any further request or technical information, please consult our technical department