

# TECHNICAL SPECIFICATIONS FOR BACK-UP ROLLERS WITH PIVOT

**DISTITEC**



- 1 – Outer ring
- 2 – Washer
- 3 – Distance ring
- 4 – O-Ring
- 5 – Seeger
- 6 – Pressure spring
- 7 – Pivot
- 8 – Radial roller cage
- 9 – Thrust bearing
- 10 – V-ring

Back-up rollers with pivot for metal flattening machines and straightening plates have the following characteristics:

The **outer ring** is supplied in 100Cr6/100CrMo7 core hardened steel (UNI 3097) that can reach hardness 60+2 HRC. Once seen the condition of coupling with working cylinders, the degree of hardness can be reduced to 53 HRC for those bearings for the flattening of very thin sheets. The profile of the outer ring is usually cambered in order to optimize the distribution of the applied load.

The **pivot** is made in two different steel types, according to dimension and shape: Core hardened steel UNI 100Cr6 / 100CrMo7, case hardened steel UNI 18NiCrMo5. In both cases the degree of hardness is 60-HRC. The bearings have a grease lubrication system and are supplied already pre-lubricated. The lubrication system foresees both the entrance and the exit of grease. They can be supplied also in Long-life execution.

The **sealing system** is very efficient, it does not allow outer agents (such as, dust, mill scale, humidity) to enter the back-up roll; at the same time, it prevents the leakage of grease.

Precision class is P0; on request the rollers can be manufactured with precision class P5 or P6.

On request, they can be manufactured in stainless steel.



These DISTITEC products are very specific and can perform various executions.

For this reason we prefer not to provide a list of products, but assess each individual customer's request.

In the table below we indicated a range of production, in relation to the size that our machines allow us to perform.

In the images below, some designs ever built.



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

Production Range	d	D	B	C	H
	[mm]				
Minimum size	12	25,5	30	32	61,5
Maximum size	120	400	250	270	440