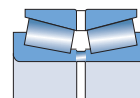




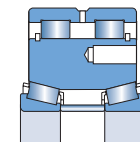
Printing machine cylinder bearings



Double row tapered roller bearings.....485



Decentralizing combination bearings.....487





Printing Machine Cylinder Bearings

As a type of ultra-precision rolling bearings, printing machine cylinder bearings are designed with decentralizing device, so as to meet the operation requirements.

Structural characteristics

Structure features of printing machine cylinder bearings

New-type printing machine cylinder bearing units are composed of multi axially-paired (arranged) ultra-precision rolling bearings, installed radial sleeves, eccentric sleeves, flanges, and other mechanical components. Such bearing units can perform the combined functions of their components and parts, thus leading to the easy installation and performance improvement of printing machine cylinders.

Types of bearing structures

(1)in the light of the numbers of layers of the radially-installed bearings: single-layer bearings, double-layer bearings, and three-layer bearings.

(2)in the light of the numbers of eccentric shafts of the bearings: single eccentric-shaft bearings, and double eccentric-shaft bearings.

(3)in the light of bearing types of inner bearing and outer bearing: double row tapered roller bearings & needle bearing combination, double row tapered roller bearings & double row tapered roller bearings combination, double (multi) row cylindrical roller bearings with conical-bore inner rings & double (multi) row cylindrical roller bearings, double (multi) row cylindrical roller bearings with conical-bore inner rings & single or double (multi) needle bearings.

Precision

Class P4, and Class P2.

Clearance

By the adjustment of clearance, double row tapered roller bearings can have optimal precision, and so can perform the combined functions of two kinds of bearings, i.e. cylindrical roller bearings, and thrust bearings. When being installed, the bearings with conical-bore inner rings, by the axial displacement of conical bore, can make radial displacement, in order to have optimal precision.

HRB can manufacture the high-precision printing machine cylinder bearings with inner rings of 1: 12 or 1: 30 conical bores.

Within printing machine, printing machine cylinder bearings are mainly installed on both sides of plate cylinder, of impression cylinder, or of rubber cylinder.

On the basis of the user requirements, **HRB** can manufacture the printing machine cylinder bearings with other dimensions and structures.

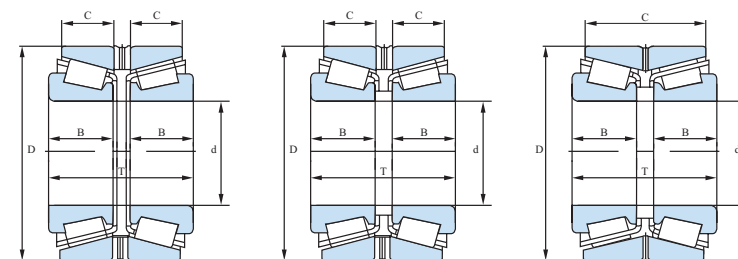
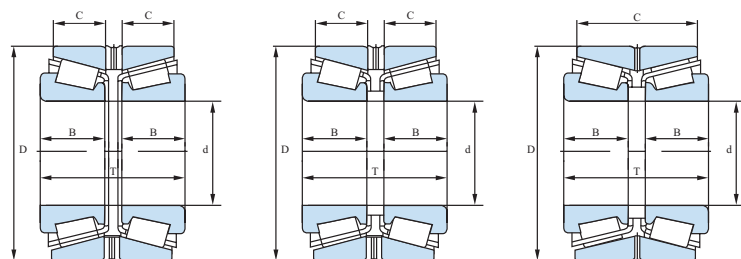


Harbin Bearing
Group Corporation



Printing machine cylinder bearings

Double row tapered



Designations	Boundary dimensions			
	d	D	B	C
	mm			
PTD350211X2	55	100	21	42.862
80KBE11	80	115	24	41
PTD64450-PTD64700	114.3	177.8	41.275	30.162
PTD74525-PTD74850	133.35	215.9	47.625	34.925
E32924JS	120	165	29	56
32932T90/DBG010	160	220	38	74
PTD352932	160	220	38	74
PTD180R18	180	250	45	34
PTD32940/DB	200	280	51	96
PTDM241549-PTDM241510	204.788	282.1	57.945	108.076

Boundary dimensions		Basic load ratings		Mass (reference)
T	Hx	Cr	Cor	
mm		kN		kg
52.388	—	170	239	1.67
57	—	130	259	1.68
91.5	—	405	767	7.4
110	—	55.4	1102	13.5
68	—	295	635	4.03
90	—	452	1052	9.23
90	—	452	1052	9.47
106	—	471	1275	14.4
120	—	736	1723	24.1
131.89	—	918	2078	24.8

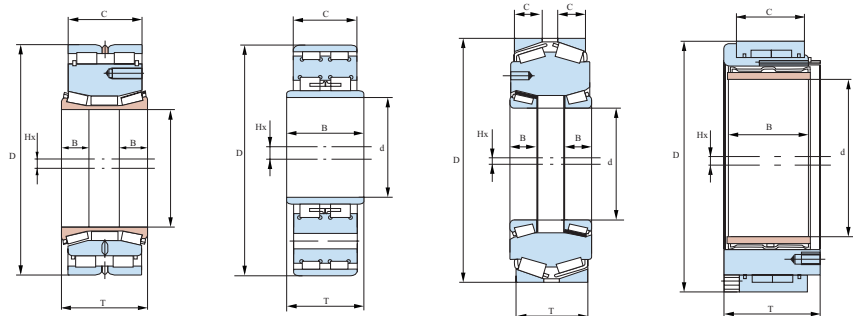


Harbin Bearing
Group Corporation



Printing machine cylinder bearings

Decentralizing combination

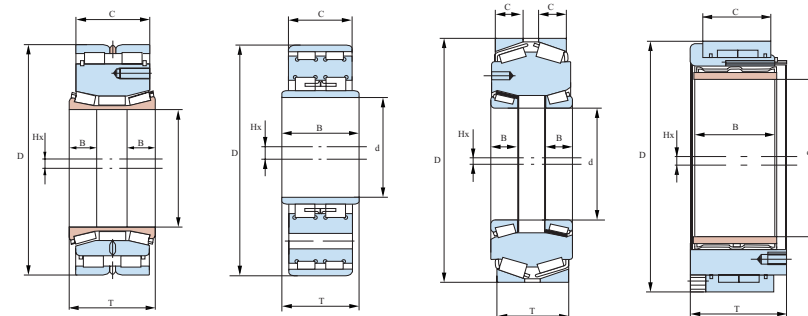


Three rings
decentralizing
combination

Three rings
decentralizing
cylinder

Three rings
decentralizing
taper

Three rings
decentralizing
needle



Three rings
decentralizing
combination

Three rings
decentralizing
cylinder

Three rings
decentralizing
taper

Three rings
decentralizing
needle

Designations	Boundary dimensions			
	d	D	B	C
	mm			
SBX0437-2RS	19.05	42	16.7	12
PCU62-08K	62	150	48	42
RAS15	80	150	24	45
EA241A	80	140	24	57
PCU90-06-10	90	210	37	46.5
PTU114-07	114.3	220	26	23
PTU120-10	120	235	29	78
PCU120-06	120	190	65	54
PTU140-07	140	300	32	39

Boundary dimensions		Basic load ratings		Mass (reference)
T	Hx	Cr	Cor	
mm		kN		kg
24.5	0.45	9.38	5.05	0.12
48	8	112	172	4.19
57	5.5	130	259	4.37
57	5	130	259	3.83
54	16	224	140	6.74
80	7	234	503	12.6
90	10	295	635	16
76	6	160	581	8.3
110	7	343	749	35.7