



## Specializing in Precision Spherical Roller Bearings

Custom Precision Bearings offers a full line of Spherical Roller Bearings to fulfill the precision run out needs for the printing, coating, laminating industry as well as specialty tapes, films and foils. From as small as 50mm bore to as large as 180mm bore. At Custom Precision Bearings all of our bearings are custom built, so we can offer tolerances ranging from .000050 T.I.R. to .0002 T.I.R. with reduced internal clearance to meet the customer specifications. We are also equipped to sound check bearings for vibration and operating decibel levels.

### ENGINEERING SUPPORT

A full range of engineering services are available from Custom Precision Bearings, Inc. For customers using our precision spherical roller bearings, we will be happy to review your application to be sure the proper bearing has been selected. We can also provide recommendations for such things as fitting practice and lubrication. In addition, we can provide a more extensive analysis involving bearings of all types (ball, cylindrical roller, tapered roller, needle roller, as well as spherical roller) on a consulting basis where required. We have available tested computer programs to analyze bearing and lubricant performance, shaft deflections, and thermal characteristics. To assist you in application development or in troubleshooting field problems, we have the experience to evaluate used bearings from your test program or from your machine in the field, to determine suitability or to resolve problems.

### PRECISION ROLL ASSEMBLIES

Custom Precision Bearings also has experience in designing complete roll assemblies, including chrome plated coating rolls, chill rolls, and rubber covered nip rolls. In addition, we have experienced sources we can use to supply complete precision roll assemblies ready to bolt in place on your machine, or we can supply a complete set of detailed drawings for your own manufacture. Please contact us for quotation to meet your requirements.

### FEATURES

1. Reduced Clearances
2. High Point, Pre-Load, and Take Up Clearly Marked
3. Segregated Rollers and Individually Matched Components
4. Accuracy of Down to 25 Millionths
5. No Minimums on Orders
6. Shorter Lead Times
7. Each Bearing Hand Checked 3 Times
8. 100% Satisfaction Guarantee

### BENEFITS

1. Accurate Consistent Rotation
2. Insures Proper Installation
3. Increased Bearing Life
4. Insures Your Product Consistency
5. \$\$\$ Savings
6. Decreased Downtime for You
7. Insures Consistency, Quality, and Run-Out
8. Quality Workmanship and Materials

# CPB Bearing Product List

	Available T.I.R.	Bore Size mm/in.	OD mm/in.	Width mm/in.	Load Rating	Weight/lbs.	
<b>222 Series</b>	210	.000050 to .00020	50/1.9685	90/3.5433	23/.9055	22400	3.6
	211	.000050 to .00020	55/2.1653	100/3.9370	25/.9842	26000	1.7
	212	.000050 to .00020	60/2.3622	110/4.3307	28/1.1023	33500	2.2
	213	.000050 to .00020	65/2.5590	120/4.7244	31/1.2204	39000	3.2
	214	.000050 to .00020	70/2.7559	125/4.9212	31/1.2204	39000	3.6
	215	.000050 to .00020	75/2.9527	130/5.1181	31/1.2204	39000	4.3
	216	.000050 to .00020	80/3.1496	140/5.5118	33/1.2992	49000	7
	217	.000050 to .00020	85/3.3464	150/5.9055	36/1.4173	58500	5.4
	218	.000050 to .00020	90/3.5433	160/6.2992	40/1.5748	64000	7
	219	.000050 to .00020	95/3.7401	170/6.6929	43/1.6929	71000	8.5
	220	.000050 to .00020	100/3.9370	180/7.0866	46/1.8110	80000	10.4
	222	.000050 to .00020	110/4.3307	200/7.8740	53/2.0866	102000	15.7
	226	.000050 to .00020	130/5.1181	230/9.0551	64/2.5196	143000	22.9
	230	.000050 to .00020	150/5.9055	270/10.6299	73/2.8740	190000	37.5
236	.000075 to .00020	180/7.0866	320/12.5984	86/3.3858	255000	62.8	
<b>223 Series</b>	310	.000050 to .00020	50/1.9685	110/4.3307	40/1.5748	42500	3.7
	311	.000050 to .00020	55/2.1653	120/4.7244	43/1.6929	50000	4.4
	312	.000050 to .00020	60/2.3622	130/5.1181	46/1.8110	58500	6.1
	313	.000050 to .00020	65/2.5590	140/5.5118	48/1.8897	65500	7.8
	314	.000050 to .00020	70/2.7559	150/5.9055	51/2.0078	72000	9.3
	315	.000050 to .00020	75/2.9527	160/6.2992	55/2.1653	83000	11.0
	316	.000050 to .00020	80/3.1496	170/6.6929	58/2.2834	93000	13
	317	.000050 to .00020	85/3.3464	180/7.0866	60/2.3622	102000	15
	319	.000050 to .00020	95/3.7401	200/7.8740	67/2.6377	125000	20
	320	.000050 to .00020	100/3.9370	215/8.4645	73/2.8740	146000	25
	322	.000050 to .00020	110/4.3307	240/9.4488	80/3.1496	180000	38
	<b>230 Series</b>	024	.000050 to .00020	120/4.7244	180/7.0866	46/1.8110	81500
026		.000050 to .00020	130/5.1181	200/7.8740	52/2.0472	102000	12.8
028		.000075 to .00020	140/5.5118	210/8.2677	53/2.0866	108000	13.4
030		.000075 to .00020	150/5.9055	225/8.8582	56/2.2047	118000	16.5
034		.000075 to .00020	170/6.6929	260/10.2362	67/2.6377	375000	26.5

\*For applications requiring temperatures exceeding 170° F or speeds in excess of 180rpm please contact our engineering department.

\*Precautions have been taken to ensure the accuracy of this information. CPB is not responsible or liable for any errors or omissions.

**CUSTOM PRECISION BEARINGS, INC.**

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