

# JASH GROUP



*Across the GLOBE*



**TAPER ROLLER BEARINGS**



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## About **JASH GROUP**

Since 1996, Jash Group has been a leading manufacturer of Taper Roller Bearings in India, transitioning from pioneer to a knowledge-driven exporter. Our bearings find applications in Heavy Commercial Vehicles, Light Commercial Vehicles, Earth Moving Vehicles, Tractors, Trolley Axles, and Diesel Engines in the Indian Replacement Market.

Utilizing advanced measurement and testing technology, we ensure rigorous quality checks on all our products. Committed to delivering the highest quality bearings at competitive prices, we offer comprehensive technical support and customer service to ensure our customers' satisfaction.

### *Jash Group of Companies*



# Vision , Mission & Values

## ■ Vision

*To be the leading global manufacturer of TaperRoller Bearings, providing our customers with the highest quality products at competitive prices, backed by comprehensive technical support and customer service.*

## ■ Mission

*To achieve our vision, we are committed to the following :*

- *Continuously innovating and improving our products and processes*
- *Investing in state-of-the-art technologies*
- *Building a strong team of experienced and qualified professionals*
- *Maintaining a culture of quality and excellence*

## ■ Values

- **Customer Focus:** *We use the most advanced manufacturing and testing technologies to ensure that our bearings meet the highest quality standards.*
- **Competitive prices:** *We offer our bearings at competitive prices, without compromising on quality.*
- **Comprehensive technical support:** *We offer comprehensive technical support to our customers, helping them to choose the right bearings for their needs.*
- **Excellent customer service:** *We are committed to providing our customers with excellent customer service.*

# Taper Roller Bearings

## Manufacturing Process

### RAW MATERIALS

SAE 52100 Steel meets global quality standards, serving as the primary material for AVB bearings, used in races and rolling components; cages are made of CRC and brass, and rollers from SAE 52100 / EN31 Steel per international specifications.

### FORGING & ANNEALING

Forging shapes SAE 52100 Steel with heat and force, ensuring precision, while annealing enhances bearing ductility for diverse forms.

### CNC TURNING

Automated CNC Machines precision-turn forged material, globally acclaimed for reliable performance, ensuring high productivity and accuracy in intricate component production.

### HEAT TREATMENT

Bearing elements, including races and rollers, undergo precise heat treatment, achieving  $60 \pm 2$  HRC hardness as per global standards, confirmed by a specialized tester.

### MAKING OF ROLLERS

Steel wires transformed into rollers through precision die-cutting, shaped into cylinders, and subjected to meticulous surface finishing and heat treatment.

### MAKING OF CAGES

Steel plates undergo precision press cutting, molded into conical shapes, bottom section trimmed, followed by turning process, and meticulous cutting for roller assembly.

### GRINDING

Automated grinding with precision control and compensation minimizes operator dependency, ensuring size accuracy and assessing various factors.

### FINISHED BEARINGS

Precision assembly adjusts internal clearance with varied taper roller sizes, securing them with riveted retainers, followed by cleaning, grease distribution, optional sealing, and rigorous testing for durability and performance pre-shipment.



# Taper Roller Bearings

*Taper roller bearings, essential in automotive and industrial systems, efficiently handle radial and axial loads, ensuring smooth operation and stability in wheel hubs, differentials, and gearboxes. Their precision design guarantees smooth rotation, vital for optimal performance and durability in gearboxes, axles, and wheel hubs.*

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
30205	25.00	52.00	16.25	0.15
30206	30.00	62.00	17.25	0.22
30207	35.000	72.000	18.250	0.320
30208	40.000	80.000	19.750	0.410
30209	45.000	85.000	20.750	0.460
30210	50.00	90.00	21.75	0.53
30211	55.00	100.00	22.75	0.69
30212	60.00	110.00	23.75	0.87
30213	65.00	120.00	24.75	1.10
30214	70.00	125.00	26.75	1.22
30215	75.00	130.00	27.25	1.35
30216	80.00	140.00	28.25	1.60
30218	90.00	160.00	32.50	2.55
30220	100.00	180.00	37.00	3.65
30305	25.00	62.00	18.25	0.26
30306	30.00	72.00	20.75	0.39



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
30307	35.00	80.00	22.75	0.52
30308	40.00	90.00	25.25	0.72
30309	45.00	100.00	27.25	0.97
30310	50.00	110.00	29.25	1.25
30311	55.00	120.00	31.50	1.53
30312	60.00	130.00	33.50	1.95
30313	65.00	140.00	36.00	2.40
30314	70.00	150.00	38.00	3.00
30315	75.00	160.00	40.00	3.57
30316	80.00	170.00	42.50	4.34
30318	90.00	190.00	46.50	5.56
31305 (21mm)	21.00	62.00	18.25	0.20
31305 (25 mm)	25.00	62.00	18.25	0.26
31309	45.00	100.00	27.25	0.95
31312 L	60.00	130.00	33.50	1.83
32005 X	25.00	47.00	15.00	0.11
32006 X	30.00	55.00	17.00	0.17
32007 X	35.00	62.00	18.00	0.22
32008 X	40.00	68.00	19.00	0.27



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
32009 X	45.00	75.00	20.00	0.33
32010	50.00	80.00	20.00	0.37
32011	55.00	90.00	23.00	0.55
32012	60.00	95.00	23.00	0.58
32013 X	65.00	100.00	23.00	0.62
32014	70.00	110.00	25.00	0.82
32015	75.00	115.00	25.00	0.87
32016	80.00	125.00	29.00	1.25
32017	85.00	130.00	29.00	1.33
32018	90.00	140.00	32.00	1.71
32019	95.00	145.00	32.00	1.79
32020 X	100.00	150.00	32.00	1.85
32022	110.00	170.00	38.00	2.96
32024	120.00	180.00	32.00	3.28
32205	25.00	52.00	19.25	0.19
32206	30.00	62.00	21.25	0.28
32207	35.00	72.00	24.25	0.43
32208	40.00	80.00	24.75	0.51
32209	45.00	85.00	24.75	0.56





# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
30210	50.00	90.00	24.75	0.60
32211	55.00	100.00	26.75	0.83
32212	60.00	110.00	29.75	1.12
32212 X	60.00	110.00	29.75	1.12
32213	65.00	120.00	32.75	1.47
32214	70.00	125.00	33.25	1.56
32215	75.00	130.00	33.25	1.65
32216	80.00	140.00	35.25	2.10
32217	85.00	150.00	38.50	2.52
32218	90.00	160.00	42.50	3.30
32219	95.00	170.00	45.50	3.96
32220	100.00	180.00	49.00	4.90
32221	105.00	190.00	53.00	6.07
32222	110.00	200.00	56.00	7.10
32224	120.00	215.00	61.50	9.15
32226	130.00	230.00	67.75	11.70
32305	25.00	62.00	25.25	0.36
32306	30.00	72.00	28.75	0.54
32307	35.00	80.00	32.75	0.72



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
32308	40.00	90.00	35.25	1.01
32309	45.00	100.00	38.25	1.36
32310	50.00	110.00	42.25	1.78
32311	55.00	120.00	45.50	2.34
32312	60.00	130.00	48.50	2.80
32313	65.00	140.00	51.00	3.49
32314 A	70.00	150.00	54.00	4.10
32315	75.00	160.00	58.00	5.40
32316	80.00	170.00	61.50	6.36
32924	120.00	165.00	29.00	1.77
33010	50.00	80.00	24.00	0.46
33011	55.00	90.00	27.00	0.67
33012	60.00	130.00	33.50	1.95
33013	65.00	100.00	27.00	0.77
33019	95.00	145.00	39.00	2.24
33020	100.00	150.00	39.00	2.50
33021	105.00	160.00	43.00	3.10
33022	110.00	170.00	47.00	3.85
33109	45.00	80.00	26.00	0.56



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
33111	55.00	95.00	30.00	0.88
33112	60.00	100.00	30.00	0.88
33113	65.00	110.00	34.00	1.28
33115	75.00	125.00	37.00	1.73
33116	80.00	130.00	37.00	1.82
33117	85.00	140.00	41.00	2.50
33118	90.00	150.00	45.00	3.03
33205	25.00	52.00	22.00	0.21
33206	30.00	62.00	25.00	0.36
33207	35.00	72.00	28.00	0.51
33208	40.00	80.00	32.00	0.72
33209	45.00	85.00	32.00	0.79
33210	50.00	90.00	32.00	0.84
33211	55.00	100.00	35.00	1.20
33212	60.00	110.00	38.00	1.50
33213	65.00	120.00	41.00	1.90
33214	70.00	125.00	41.00	2.04
33215	75.00	130.00	41.00	2.27
33216	80.00	140.00	46.00	2.85



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
33217	85.00	150.00	49.00	3.70
33220	100.00	180.00	63.00	6.73
02474/20	28.575	68.262	22.225	0.408
02872/20	28.575	73.025	22.225	0.47
104949/10	50.80	82.00	21.98	0.41
104949/11	50.80	82.55	21.98	0.41
14131/276	33.338	69.012	19.845	0.34
15100/250	25.40	63.50	20.638	0.32
15123/245	31.750	62.00	18.161	0.24
1988/22	28.58	57.15	19.85	0.21
212049/10	66.68	122.24	38.10	1.84
212049/11	66.68	122.24	38.10	1.84
218248/10	89.97	146.98	40.00	2.52
220149/10	99.98	156.98	42.00	2.84
24780/20	41.28	76.20	22.23	0.42
25590/20	45.618	82.931	23.812	0.53
27687	82.55	125.41	25.40	1.05
31594/20	34.93	76.20	29.37	0.62



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
3188/20	31.75	72.626	29.997	0.60
320/332	32.00	58.00	19.050	0.29
331257	40.00	95.00	27.25	0.88
368/362	50.800	88.900	20.638	0.500
3780/20	50.800	93.264	30.162	0.830
3782/3720	44.450	93.264	30.164	0.940
37425/625	107.95	158.75	23.02	1.33
39581/20	57.15	112.71	30.16	1.36
3982/20	63.500	112.712	30.162	1.12
3984/20	66.675	112.712	30.162	1.14
3490/20	38.10	79.38	29.37	0.64
414/418	38.100	88.500	26.988	0.82
42687/20	76.20	127.00	30.162	1.45
462/453	57.150	104.775	30.162	1.03
47487/20	69.85	120.00	32.55	1.46
482/472	69.850	120.00	29.795	1.27
48548/10	34.93	65.09	18.03	0.26
497/492	85.725	133.350	30.162	1.38
497/493	85.725	136.525	26.769	1.55



# Taper Roller Bearings

Series	Bore Diameter (mm)	Outer Diameter (mm)	T Size (mm)	Weight (kg)
50KW	50.00	93.264	30.162	0.809
50KW2A	49.987	114.300	44.450	2.171
501349/10	41.275	73.431	19.812	0.331
518445	88.90	152.40	39.69	2.77
528946	105.00	170.00	38.00	3.35
534565	70.00	130.00	57.00	2.69
533/32	44.450	111.125	38.100	1.85
539/32	53.98	111.13	38.10	1.62
565/562	63.500	130.048	36.170	2.20
566/63	69.85	127.00	36.51	1.87
57414	40.99	67.98	18.00	0.252
575/572	76.20	139.99	36.51	2.32
580/72	82.55	139.99	36.51	2.10
603049/11	45.24	77.79	19.84	0.36
6379/6320	65.09	135.76	53.98	3.50
67048/10	31.75	58.88	15.88	0.19
683/72	95.25	168.28	41.28	3.60
801346/10	38.10	82.55	29.37	0.75
803149/10	44.45	88.90	30.16	0.86
803146/10	41.28	88.90	30.16	0.88
804846/10	47.63	95.25	30.16	0.96
84548/10	25.40	57.15	19.43	0.23
903249/10	44.45	95.25	30.96	0.95



# Applications of Taper Roller Bearings



Taper roller bearings are essential in automotive transmissions, heavy machinery, and conveyor systems, excelling in handling radial and axial loads.



 Ceramic Machinery



 Agricultural Equipments



 Food Machinery



 Construction Machinery



 Conveyor Belt



 Cement Industries



 Rolling Mill

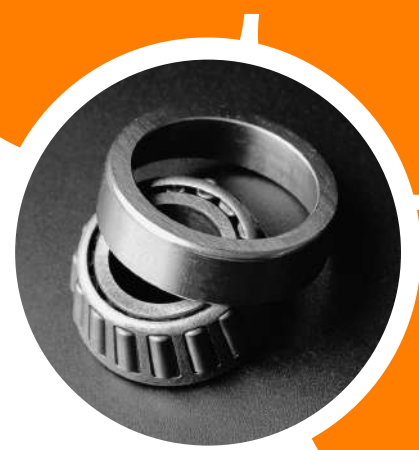


 Plastic Machinery



 Textile Machinery

# Get In Touch



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## HEAD OFFICE



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, Rajkot-360004, Gujarat, INDIA.



## MANUFACTURING UNITS



Plot. No: 20 to 22 & 40 to 42,  
Kishan Industrial Area, NH-27,  
At:Bharudi, Rajkot-360311



Plot No: 116 , Kishan Industrial  
Area, NH-27, At:Bharudi,  
Dist:Rajkot-360311



Plot No.: 48 , Kishan Industrial  
Area, NH-27, At:Bharudi,  
Dist:Rajkot-360311



Plot No.: 15 , Kishan Industrial  
Area, NH-27, At: Bharudi,  
Dist:Rajkot-360311



Survey No.:39/1 Plot No.: 3,  
Ganga Forging Gate, Balaji Ind.  
Area , At:Shapar-Veraval,  
Dist:Rajkot-360024



Oorja Industrial Park, Survey  
No. 36/1,37/1,37/2, Plot No. 1/3,  
At: Shapar-Veraval, Dist:Rajkot-  
260024



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