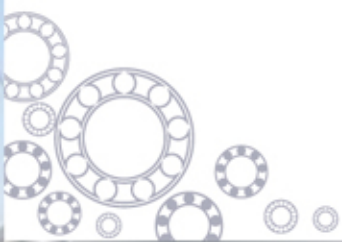




Tough Bearing For Tough Demands





Company Profile



KANKAI ENGINEERING CO. PVT. LTD. was established in 1998 at Rajkot (Gujarat - India) to manufacture specifically Spherical Roller Bearings. The company always held its conviction of manufacturing high quality, offering high performance Spherical Roller Bearings with higher speed and load capacities suitable for wide variety of industrial applications.

KECPL currently manufacturing various types of Spherical Roller Bearings used in Jaw Crusher, Steel Plant, Ball Mill, Stone Crushing, Pulverizer, Cement Plant, Oil Mill, Ginning Mill, Wind Mill, Paper Mill, Sugar Mill, Hammer Mill, Cone Crusher, Coal Crusher, Impact Crusher, Conveyors, Elevators, Reduction Gear Box, Pinion Stand, Railway & Ship Machineries, Mining Equipments, Construction machineries, Vibrating Equipments, Earth Moving Machineries, Other Heavy Machineries etc. in series of 21300, 22200, 22300, 23000, 23100, 23200, 24000, 24100 etc. and the company is planning to manufacture various types of Bearings such as Taper Roller Bearings, Cylindrical Roller Bearings & Needle Roller Bearings Series within coming five years.

KECPL is manufacturing every bearing in a KEC Brand. KEC Bearings have excellent acceptability of performance in India as well as in International Markets. The Company maintain the best quality of our products by using prime materials and adopting latest manufacturing technologies with sophisticated CNC Machines. We improve our product quality by continuous research and development activities in our plant.

Our KEC Branded Spherical Roller Bearings are well approved by various O.E., Heavy plant & Machineries, manufacturing various Mills like Sugar Mill, Rice Mill, Paper Mill, etc.

Company's Vision

To provide Excellent Quality and High Performance Bearings to the Globe using Standardized Techniques.

Company's Mission

To serve every user, High Satisfaction of Quality Bearings with respecting demand of KEC Brand Products around the Globe with affordable value of products.

Company's product range

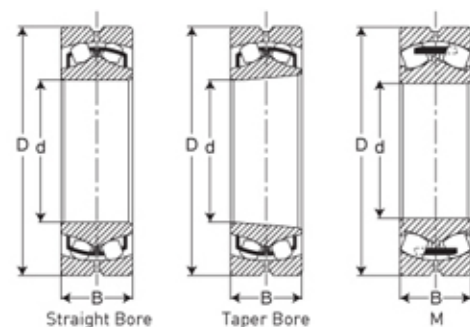
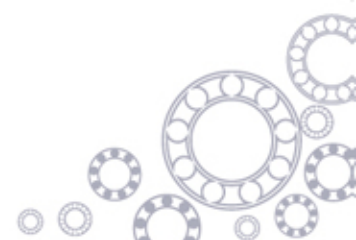
The company is manufacturing series of 21300, 22200, 22300, 23000, 23100, 23200, 24000, 24100, etc.

Why KEC Bearings?

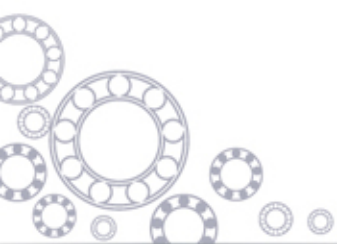
- KEC, with The Clients, is mutually Constructive and Strong based on the exemplary quality provided by the KECPL at every stage of manufacturing.
- The team consists of experts in Technical as well as in Market with Business Promotional Activities.
- KEC is always one step ahead in manufacturing, supplying and standardizing with full team efforts.



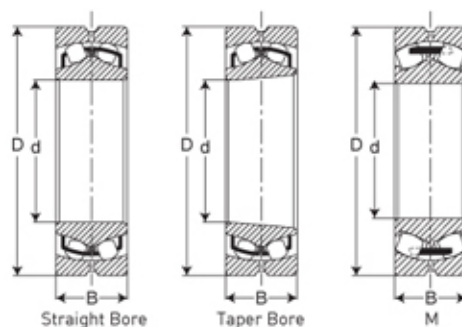
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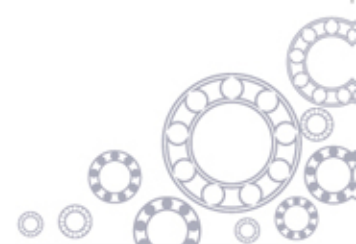
Bearing Number	Bearing Number	Bearing O.D. (mm)	Bearing Bore (mm)	Bearing Width (mm)	Bearing Weight (kg.)	Basic Load Rating		Limiting Speed	
						Dynamic (N)	Static (N)	Oil (rpm)	Grease (rpm)
21308	21308 M	90	40	23	0.710	82800	98000	5600	4500
21309	21309 M	100	45	25	0.950	101000	114000	5300	4300
21310	21310 M	110	50	27	1.200	120000	140000	4800	3600
21311	21311 M	120	55	29	1.600	138000	163000	4300	3400
21312	21312 M	130	60	31	1.950	161000	200000	3800	3000
21313	21313 M	140	65	33	2.450	184000	240000	3600	2800
21314	21314 M	150	70	35	3.000	207000	260000	3400	2600
21315	21315 M	160	75	37	3.550	235000	300000	3200	2400
21316	21316 M	170	80	39	4.200	258000	335000	3000	2200
21317	21317 M	180	85	41	5.000	293000	375000	2800	2000
21318	21318 M	190	90	43	5.800	322000	425000	2600	1900
22208	22208 M	80	40	23	0.520	73600	81500	7500	6000
22209	22209 M	85	45	23	0.560	77100	88000	6700	5300
22210	22210 M	90	50	23	0.600	84500	100000	6300	5000
22211	22211 M	100	55	25	0.820	99500	118000	5600	4500
22212	22212 M	110	60	28	1.100	122000	146000	5000	4000
22213	22213 M	120	65	31	1.450	148000	183000	4800	3800
22214	22214 M	125	70	31	1.550	148000	186000	4500	3600
22215	22215 M	130	75	31	1.650	158000	208000	4300	3400
22216	22216 M	140	80	33	2.050	176000	228000	4000	3200
22217	22217 M	150	85	36	2.550	210000	270000	3800	3000
22218	22218 M	160	90	40	3.400	252000	340000	3400	2600
22219	22219 M	170	95	43	4.000	282000	375000	3200	2400
22220	22220 M	180	100	46	4.850	311000	415000	3000	2200
22222	22222 M	200	110	53	7.000	408000	560000	2800	2000
22224	22224 M	215	120	58	8.700	466000	670000	2600	1900
22226	22226 M	230	130	64	11.000	546000	800000	2400	1800
22228	22228 M	250	140	68	14.000	610000	900000	2200	1700
22308	22308 M	90	40	33	1.000	115000	122000	5600	4500
22309	22309 M	100	45	36	1.350	138000	160000	4800	3800
22310	22310 M	110	50	40	1.850	176000	200000	4300	3400
22311	22311 M	120	55	43	2.350	199000	232000	4000	3200
22312	22312 M	130	60	46	2.950	235000	280000	3800	3000
22313	22313 M	140	65	48	3.550	253000	300000	3400	2600
22314	22314 M	150	70	51	4.300	311000	380000	3200	2400
22315	22315 M	160	75	55	5.250	345000	430000	3000	2200



Product Range



Bearing Number	Bearing Number	Bearing O.D. (mm)	Bearing Bore (mm)	Bearing Width (mm)	Bearing Weight (kg.)	Basic Load Rating		Limiting Speed	
						Dynamic (N)	Static (N)	Oil (rpm)	Grease (rpm)
22316	22316 M	170	80	58	6.200	374000	455000	2800	2000
22317	22317 M	180	85	60	7.250	420000	520000	2600	1900
22318	22318 M	190	90	64	8.600	477000	610000	2400	1800
22319	22319 M	200	95	67	10.000	518000	670000	2400	1800
22320	22320 M	215	100	73	13.000	610000	800000	2200	1700
22322	22322 M	240	110	80	18.000	725000	965000	2000	1600
-	-	-	-	-	-	-	-	-	-
-	23022 M	170	110	45	3.750	267000	440000	3000	2200
-	23024 M	180	120	46	4.200	305000	510000	2800	2000
-	23026 M	200	130	52	6.100	374000	610000	2600	1900
-	23028 M	210	140	53	6.550	397000	680000	2400	1800
-	23030 M	225	150	56	7.950	432000	750000	2200	1700
-	23032 M	240	160	60	9.700	506000	880000	2200	1700
-	-	-	-	-	-	-	-	-	-
-	23120 M	165	100	52	4.400	322000	490000	2800	2000
-	23122 M	180	110	56	5.550	374000	585000	2600	1900
-	23124 M	200	120	62	7.800	449000	695000	2400	1800
-	23126 M	210	130	64	8.550	489000	780000	2200	1700
-	23128 M	225	140	68	10.500	546000	900000	2000	1800
-	23130 M	250	150	80	16.000	725000	1200000	1800	1400
-	-	-	-	-	-	-	-	-	-
-	23218 M	160	90	52	4.600	311000	440000	2600	1900
-	23220 M	180	100	60	6.700	414000	600000	2200	1700
-	23222 M	200	110	70	9.700	518000	765000	2000	1600
-	23224 M	215	120	76	12.000	610000	930000	1900	1500
-	23226 M	230	130	80	14.000	690000	1060000	1700	1300
-	23228 M	250	140	88	18.500	799000	1250000	1600	1200
-	-	-	-	-	-	-	-	-	-
-	24024 M	180	120	60	5.400	374000	670000	2000	1600
-	24026 M	200	130	69	7.950	477000	815000	1900	1500
-	24028 M	210	140	69	8.450	495000	900000	1800	1400
-	24030 M	225	150	75	10.500	654000	1040000	1700	1300
-	24032 M	240	160	80	13.000	656000	1200000	1500	1100
-	-	-	-	-	-	-	-	-	-
-	24122 M	180	110	69	6.850	460000	750000	1400	1000
-	24124 M	200	120	80	10.000	575000	950000	1200	900
-	24126 M	210	130	80	11.000	587000	1000000	1200	900
-	24128 M	225	140	85	13.000	673000	1160000	1100	850
-	24130 M	250	150	100	19.500	897000	1530000	1000	800



INNER RING

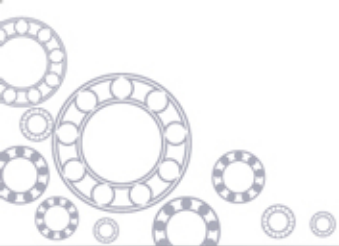
Bore		Tolerances		Deviation of Single Inner width		Single width of Inner Ring for paired mounting		Inner Ring Width variation	Radial Runout of Inner Ring in assembled Bearing
d		Δd_{mp}		ΔB_{1s}		ΔB_{1s}		V_{B1s}	K_{1s}
Over	Incl	high	low	low	high	low	high	Min.	Max.
mm		μ		μ		μ		μ	μ
2.5	10	0	-8	0	-120	0	-250	15	10
10	18	0	-8	0	-120	0	-250	20	10
18	30	0	-10	0	-120	0	-250	20	13
30	50	0	-12	0	-120	0	-250	20	15
50	80	0	-15	0	-150	0	-380	25	20
80	120	0	-20	0	-200	0	-380	25	25
120	180	0	-25	0	-250	0	-500	30	30
180	250	0	-30	0	-300	0	-500	30	40
250	315	0	-35	0	-350	0	-500	35	50

OUTER RING

Outer Diameter		Tolerances		Deviation of single Outer Ring width		Sigle width of Outer Ring for paired mounting		Outer Ring Width variation	Radial Runout of Outer Ring in assembled Bearing
D		ΔD_{mp}		Δc_s		Δc_{1s}		V_{c_s}	K_{c_s}
Over	Incl	high	low	low	high	low	high	Min.	Max.
mm		μ		μ		μ		μ	μ
6	18	0	-8						15
18	30	0	-9						15
30	50	0	-11						20
50	80	0	-13	Values are identical to those for Inner Ring of same bearing		Values are identical to those for Inner Ring of same bearing		Values are	25
80	120	0	-15					identical to those	35
120	150	0	-18					for Inner Ring of same bearing	40
150	180	0	-25						45
180	250	0	-30						50
250	315	0	-35						60

INNER RING

Bore		Tolerances for Tapered Bore 1:12		Bore Diameter Variation	Deviation of Bore at the large end - Deviation Bore at the Nominal end	
d		Δd_{mp}		V_{dp}	$\Delta d_{1mp} - \Delta d_{mp}$	
Over	Incl	high	low	Max.	high	low
mm		μ		μ	μ	μ
18	30	21	0	13	21	0
30	50	25	0	15	25	0
50	80	30	0	19	30	0
80	120	35	0	25	35	0
120	150	40	0	31	40	0
180	250	46	0	38	46	0
250	315	52	0	44	52	0



Technical Data

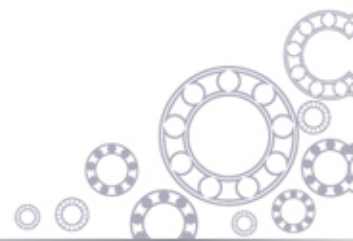


RADIAL INTERNAL CLEARANCES OF SPHERICAL ROLLER BEARING WITH CYLINDRICAL BORE

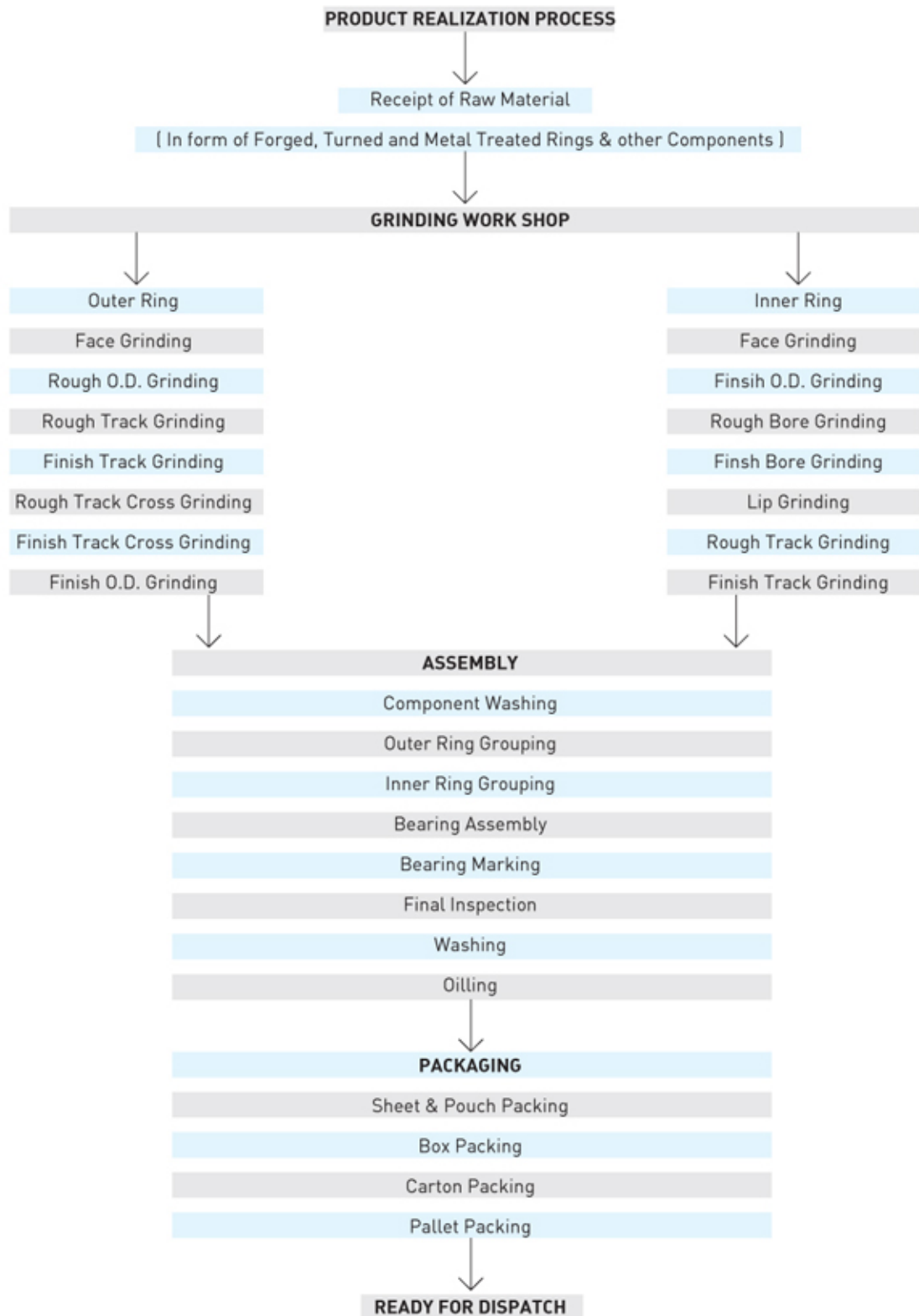
Bore Diameter		Radial Internal Clearance									
d		C2		Normal		C3		C4		C5	
Over	Incl	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
mm		μ		μ		μ		μ		μ	
18	24	10	20	20	35	35	45	45	60	60	75
24	30	15	25	25	40	40	55	55	75	75	95
30	40	15	30	30	45	45	60	60	80	80	100
40	50	20	35	35	55	55	75	75	100	100	125
50	65	20	40	40	65	65	90	90	120	120	150
65	80	30	50	50	80	80	110	110	145	145	180
80	100	35	60	60	100	100	135	135	180	180	225
100	120	40	75	75	120	120	160	160	210	210	260
120	140	50	95	95	145	145	190	190	240	240	300
140	160	60	110	110	170	170	220	220	280	280	350
160	180	65	120	120	180	180	240	240	310	310	390
180	200	70	130	130	200	200	260	260	340	340	430

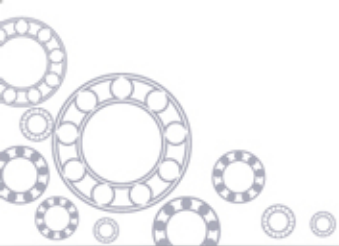
RADIAL INTERNAL CLEARANCES OF SPHERICAL ROLLER BEARING WITH TAPERED BORE

Bore Diameter		Radial Internal Clearance									
d		C2		Normal		C3		C4		C5	
Over	Incl	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
mm		μ		μ		μ		μ		μ	
24	30	20	30	30	40	40	55	55	75	-	-
30	40	25	35	35	50	50	65	65	85	85	105
40	50	30	45	45	60	60	80	80	100	100	130
50	65	40	55	55	75	75	95	95	120	120	160
65	80	50	70	70	95	95	120	120	150	150	200
80	100	55	80	80	110	110	140	140	180	180	230
100	120	65	100	100	135	135	170	170	220	220	280
120	140	80	120	120	160	160	200	200	260	260	330
140	160	90	130	130	180	180	230	230	300	300	380
160	180	100	140	140	200	200	260	260	340	340	430
180	200	110	160	160	220	220	290	290	370	370	470
200	285	120	180	180	250	250	320	320	410	410	520



PROCESS MAPPING OF QUALITY MANAGEMENT SYSTEM





Applications



Applications

Steel Plants, Rolling Mills, Cement Plants, Ball Mill, Hammer Mill, Pulverizers, Conveyors, Kiln, Jaw Crusher, Vibrating/Shaker Screen, Sugar Mills, Ginning Mill, Oil Mill, Solvent Plants, Reduction Gear Box, Earth moving Machineries, Heavy Machineries, Mining Equipments, Construction Machineries, Defense Equipments, Railway & Ship Equipments, Heavy Generators, Elevators, Pinion Stands, Coal Crushers, Stone Crushers, etc...



• Steel Plants



• Vibrating /
Shaker Screen



• Heavy Machineries



• Rolling Mills



• Sugar Mills



• Mining Equipments



• Ball Mill



• Ginning Mills



• Defense Equipments



• Hammer Mill



• Oil Mills



• Railway Equipments



• Pulverizers



• Reduction
Gear Box



• Heavy Generators



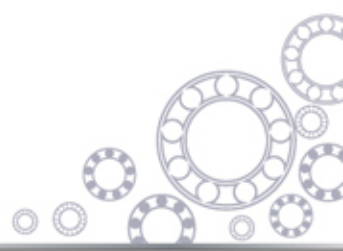
• Jaw Crusher



• Earth Moving
Machineries



• Pinion Stands



Team

Mr. Tulsibhai Meghani

Managing Director of the Company is having more than 15 years of experience in developing Spherical Roller Bearings.

Mr. Arvindbhai Meghani

Chief Executive looks after company's commercial, legal and financial matters, etc.

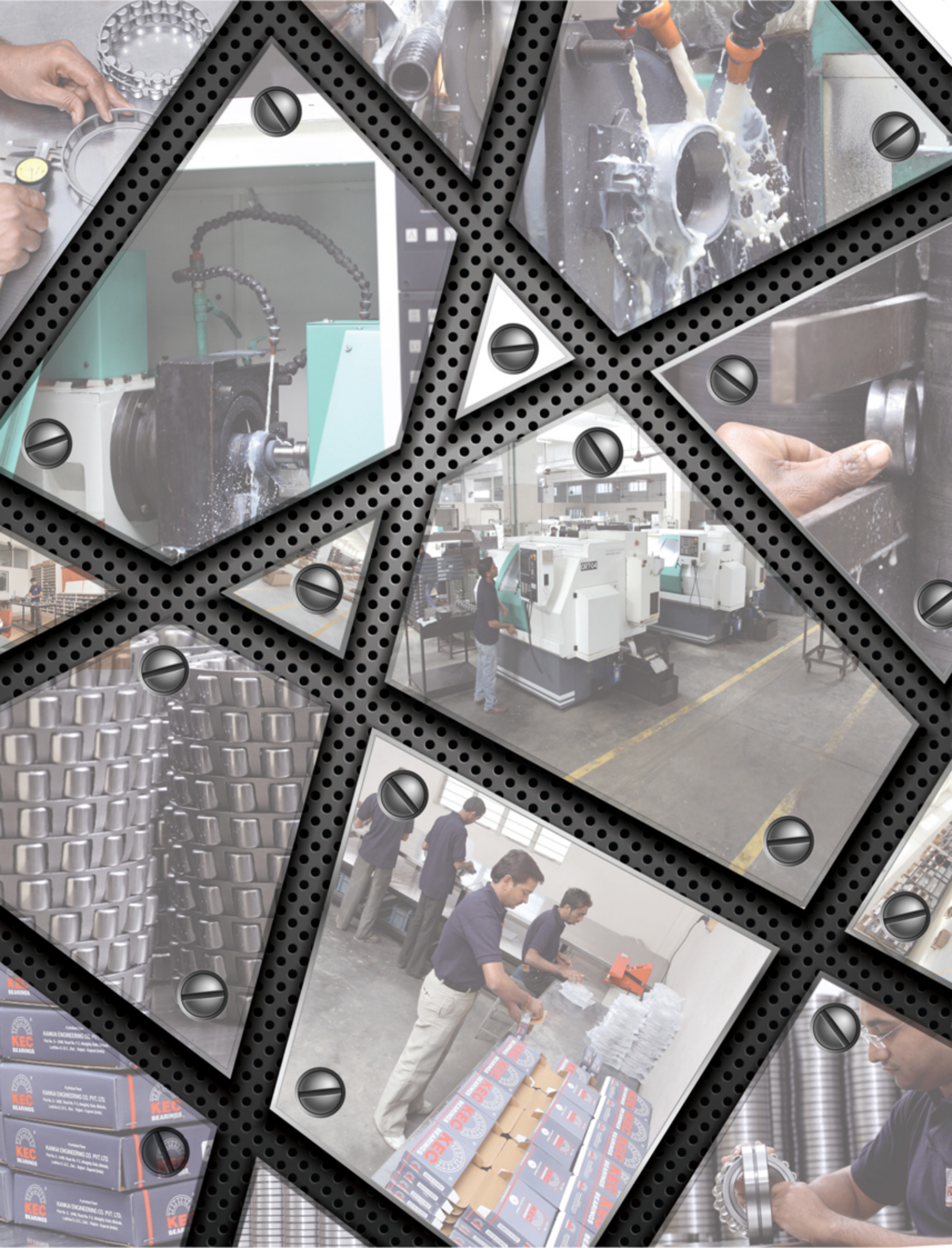
Mr. Mehul Viradia

Technical Director is B-Tech Mechanical and having more than 5 years experience in Bearing Industry. He is always involved in creative research and development with its rich experience, high skilled staff and the latest equipments.

Mr. Dhaval Meghani

Business Head is an MBA, handling Domestic and International Markets. He is well experience to introduce the company and its products.

So team of KEC is perfect to suit & understand market and customer's demand to improve the Quality and Management.





Manufacturer & Exporter of Spherical Roller Bearings

kankai Engineering Co. Pvt. Ltd.

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Ph.: +91 2827 294551, 294552 **E-mail:** info@kecbearings.com **Website:** www.kecbearings.com