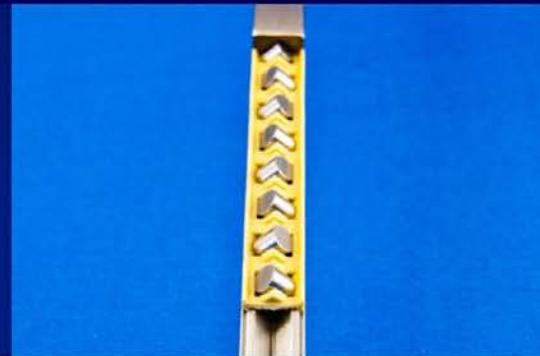


UNASIS

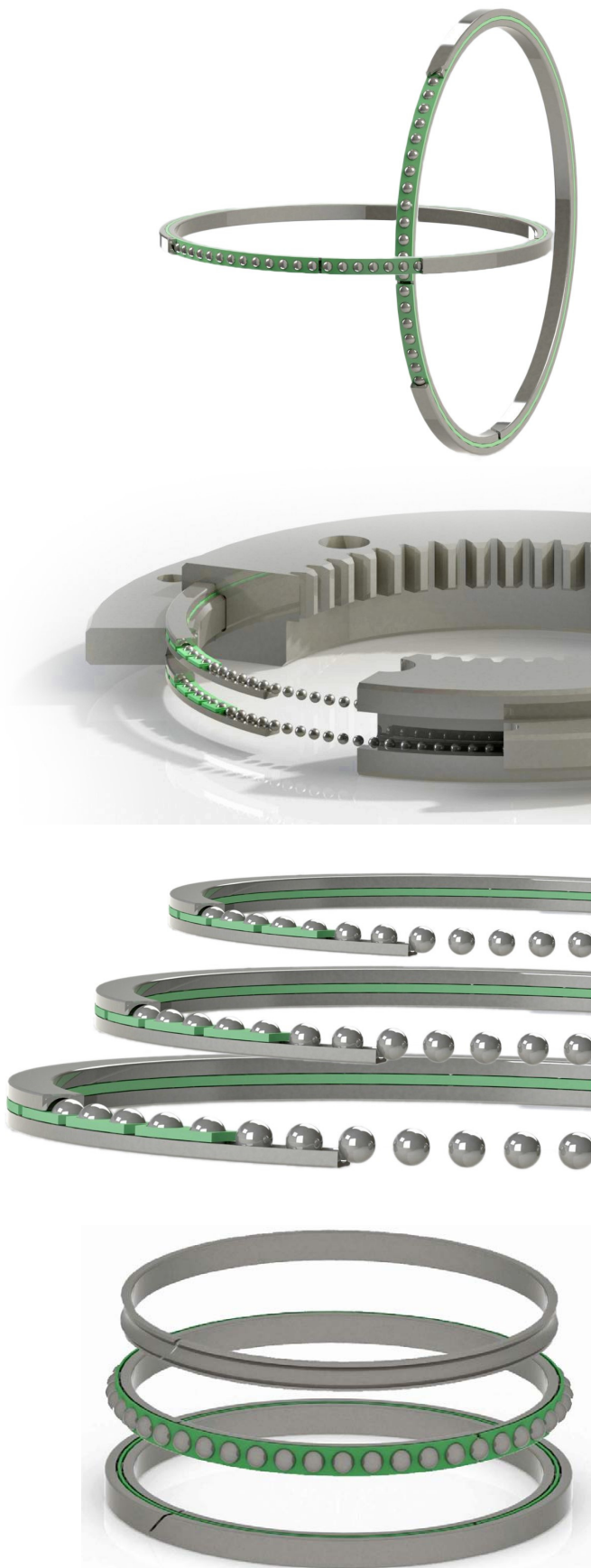
PRECISION BEARINGS



Thin Section
Thin Section
Product Range
Product Range



Table of Contents



Introduction	4
Special Features	5
Fitting Instructions	6
Angular Contact Configurations	8
Sealing Options	9
Thin Section Ball Bearings	10
Introduction	10
Part Numbering	11
Four Point Contact Bearings	12
Angular Contact Bearings	21
Radial Contact Bearings	24
Four Point Contact Metric Bearings	27
Four Point Contact Axial Bearings	31
Four Point Contact Axial Metric Bearings	38
Thin Section Roller Bearings.....	42
Introduction	42
Part Numbering	43
Four Point Contact Bearing	45
Angular Roller Bearing	46
Angular Axial Roller Bearing	48
Slewing Rings	50
Introduction	50
Part Numbering	51
Ball Bearing	52
Roller Bearing	55

Introduction

With an ever increasing number of applications demanding more from less, the Unasis split thin section range of bearings aims to bridge the gap providing a highly capable bearing in applications with restricted mass, cost and size.

Applicable to all most all industries imaginable, the table below offers just a snapshot of the some industries where Unasis bearings can be successfully implemented.

If you have an application or design which you think may benefit from a Unasis thin section bearing please contact us.

Medical Equipment	Industrial Machinery	Semi-conductor equipment
X-ray equipment	Rotary polishing equipment	Wafer fabrication manipulators
MRI Body Scanners	Rotary work holding tables	Sputter coating machinery
Surgical saws	Turntables	Converting equipment
Blood analysis equipment	Indexing tables	Wallpaper decorating machines
Surgical manipulators	Machine tools & lathe components	Screen printing equipment
Pharmaceutical equipment	Transmission gear and chain	Textile & Knitting machinery
Packing	Rotary unions & Rotary joints	Tire production equipment
Mixing vessels	Clutch backstops	Wire handling
Rotary Bottle Washing Machines	Gear boxes	Wire winding
Planetary Mixers	Robotics	Sensors
Oil & Gas	Base Bearing	Mounts for Sensors & Equipment
Rotary pipe cutting Equipment	Shoulder, Elbow & Wrist Joints	Instrument mounts
Orbital welding Equipment	Slip Rings	Gimbals & Gimbal assemblies
Orbital Inspection Machinery	Unions and control equipment	Radar equipment
Casing Machinery	Ultra High Vacuum Equipment	Radar drives
Clamping equipment	Rotary Arms	Satellite antennas & Pedestals
Down hole Pumps	Vacuum compatible rotary tables	Truck mounted communication equipment
Blow out protectors	Manipulators	Antenna pedestals
Rotary Clutches	Rotary Shutters	Packaging equipment
Valves	Valves	Labelling machines
Rotary actuators	Rotary Dewar outlet	Bottling equipment
Transmission gear and chain	Cryogenic equipment	Canning carousels
Rotary unions & Rotary joints	Liquid gas submerged pumps	Can decoration equipment
Clutch backstops	Rotary joints	Optical equipment
Renewable Energy & Recycling Equipment	Liquid Oxygen applications	Telescope bases
Wind Turbines	Valves	Camera mounts
Undersea Power Generation Turbines	Turrets	Security camera mounts
Wind Turbine Monitoring Equipment	Gun turrets	Optical drivers
Recycling Machinery	Gun Barrel Mounts	Laser sights
Electric Engine Components	Missile launchers	Optical lenses
Food processing machinery		Airborne camera mounts
Mixers		
Precision cutting machines		
Labelling equipment		

UNASIS Thin Section Bearings

Special Features

High Ball Compliment

Due to the revolutionary split race design, a higher than traditionally possible ball compliment is achievable resulting in the following benefits:

- ⇒ Higher rigidity
- ⇒ Greater dynamic and static load rating
- ⇒ More Durable
- ⇒ Reduced Radial Runout

Low Mass

The thin nature of the bearing coupled with increased load capacities when compared to a standard thin section bearings mean the mass of an application can be greatly reduced.

420C Stainless Standard

All Unasis split thin section bearings come with 420C stainless steel rings as standard.

- ⇒ High corrosion resistance
- ⇒ Reduced maintenance

Constant Cross Section

Unasis split thin section bearings have a constant cross section enabling solutions to be designed with a low profile despite large shaft bores.

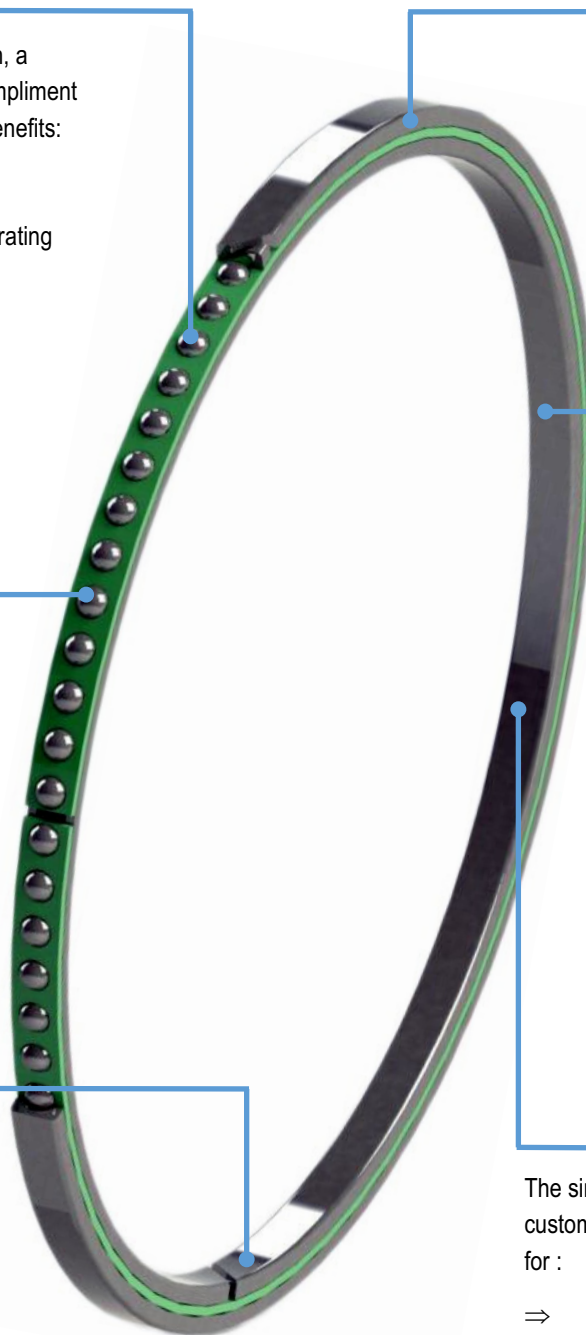
Split Races

A unique design in the bearing industry allowing application geometry never before possible with all the added benefits over a standard thin section bearing.

Highly Customisable

The simple design of the bearing offers a highly customisable bearing which includes options for :

- ⇒ Alternative ball type e.g. Ceramic balls
- ⇒ Different cage material options e.g. PEEK
- ⇒ Custom bore dimensions



Fitting Instructions

Split thin section bearings allow previously impossible assembly geometry's to be used. The unique design of these products allow either inner or outer ring to be seated in a groove on either the housing or the shaft. It is not possible to assemble the bearing if both rings are mounted in a groove, at least one retainer must be used.

To assemble the bearing using the recessed method above you will need to first fit the un-retained bearing ring. For this example we will assume this is the inner ring. There are two potential fitting methods:

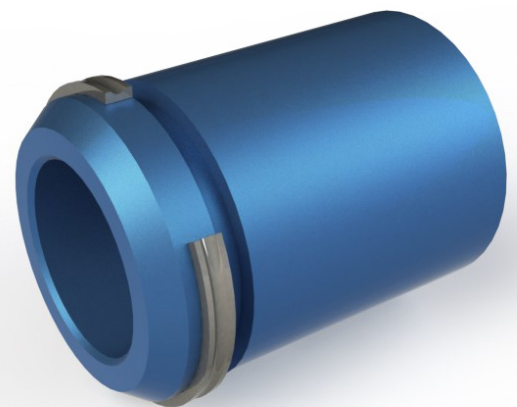
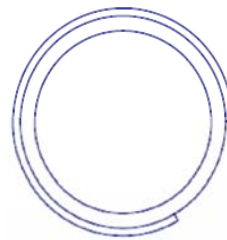
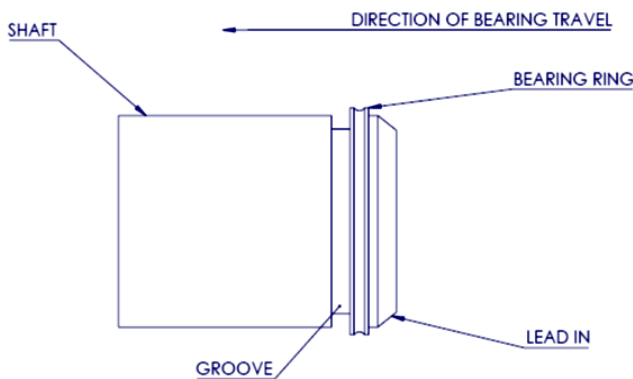
1. The preferred method is one in which the bearing is passed axially along the shaft until correctly located. See the drawing below 'preferred fitting method'.
2. An alternative method is to rotate the bearing onto the shaft well held in a helical form, the ring is manoeuvred into position in a similar manner to threading a nut onto a bolt. This method is only suitable if the bearing groove is sufficiently close to the shaft end. Please contact us for this distance in each application. See the drawing 'acceptable fitting method'.

The bearing split should not be passed radially over the shaft, this can cause permanent damage to the bearing due to excessive stress being exerted on the bearing ring. See the drawing 'unacceptable fitting method'.

Next the cage, balls and outer ring can be fitted before finally locating in the housing, the outer ring then must be retained, please consult us if you are unsure of a suitable retention method.

The required fitting tolerances for both shaft and housing can be provided, typically the shaft and housing fits would be h7 and H7 respectively

Preferred Fitting Method

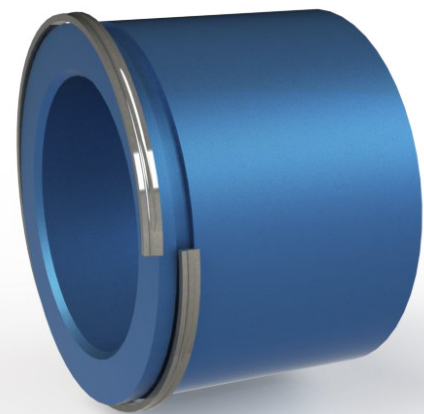
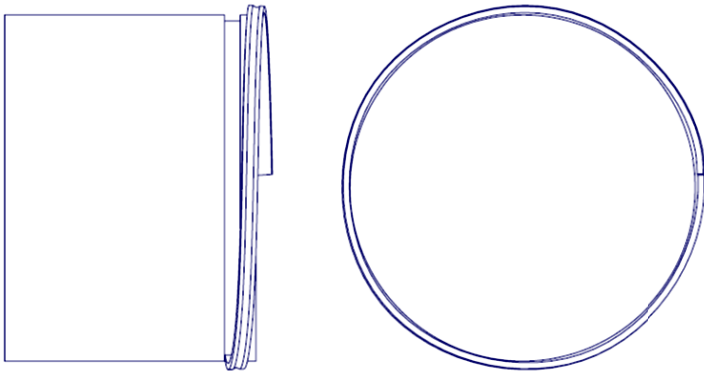


This method of fitting will not cause damage to the bearing.

The shaft should be machined with a suitable lead in to assist in fitting and cause minimal stress to the bearing ring.

UNASIS Thin Section Bearings

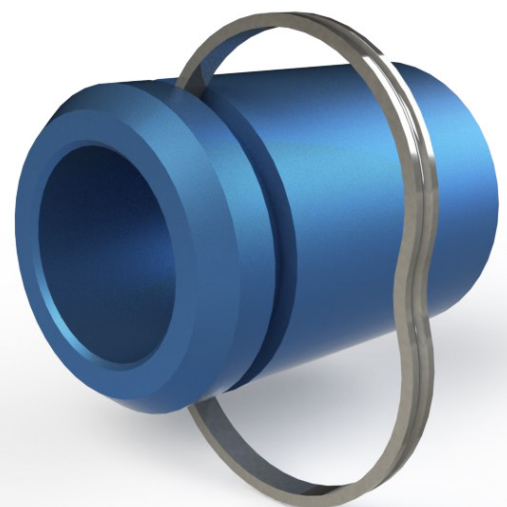
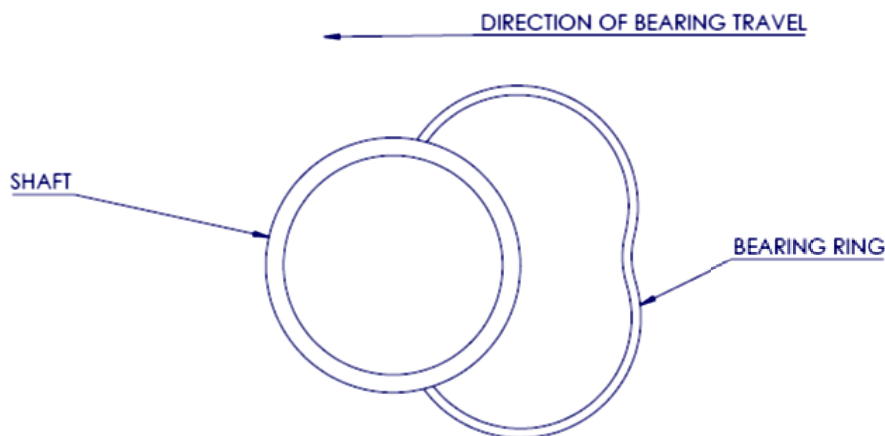
Acceptable Fitting Method



The bearing ring is rotated onto the shaft in a helical form.

The suitability of this method is dependant of the location of the groove with respect to the end of the shaft and bearing cross section

Unacceptable Fitting Method



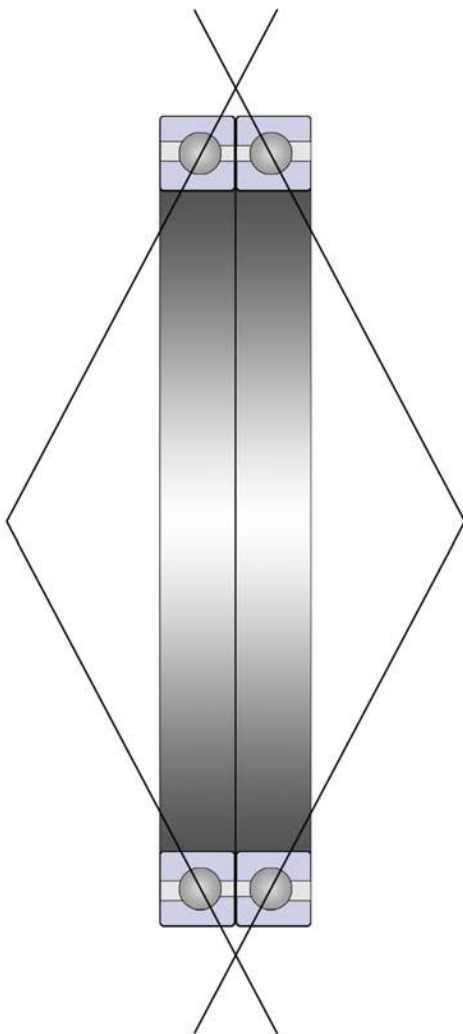
Fitting the bearing in this manner can take the material past its elastic limit leading to permanent deformation of the bearing ring. Bearings WILL become damaged if installed in this manner.

Angular Contact Configurations

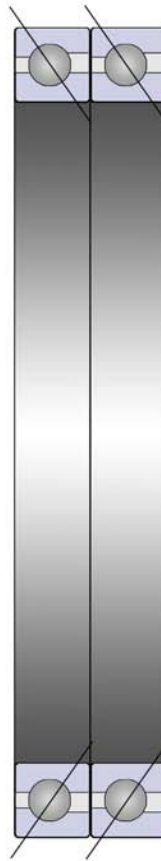
When using angular contact style bearings it is important to ensure the bearings are being mounted in the correct configuration for your application. Mounting orientation and required preload will be dictated by the resultant loads of each application. The below diagram show the simple configurations that will apply to many applications.

For more information on which orientation is best for your application please contact us.

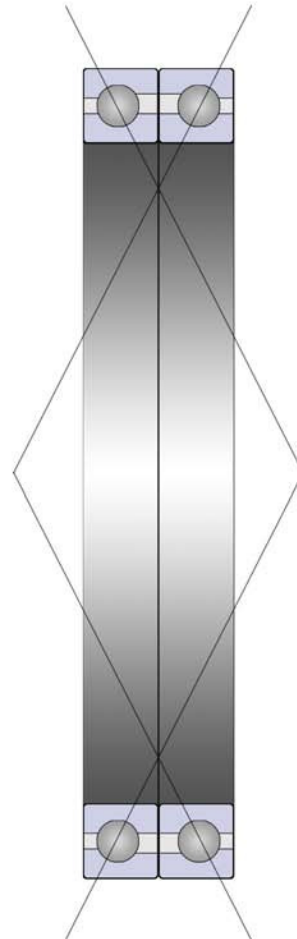
Back-to-back Configuration



Tandem Configuration

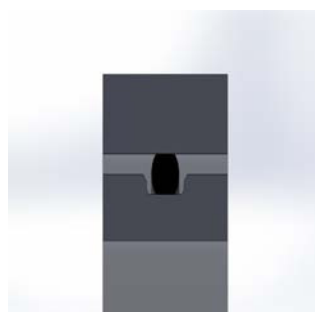


Face-to-face Configuration



UNASIS Thin Section Bearings

Sealing options



STATIC SEAL TYPE (R)

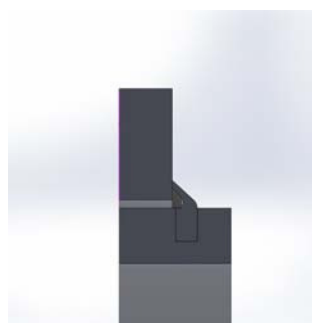
Required Space:

1.5mm x 2.7mm (R2)

2.3mm x 4.0mm (R3)

3.1mm x 5.4mm (R4)

Diameter Range: >200mm

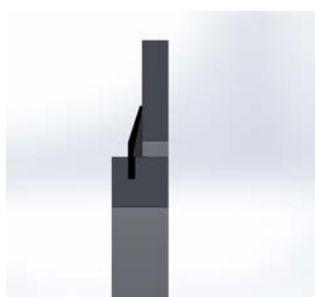


PROTECTED BEARING GAP SEAL

Low Space Requirement

7mm x 5mm (S7)

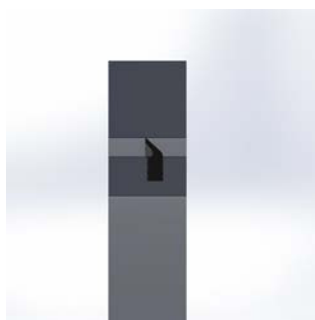
Diameter Range: >200mm



NORMAL LOW FRICTION SEAL

5mm x 13mm (S4)

Diameter Range: >200mm

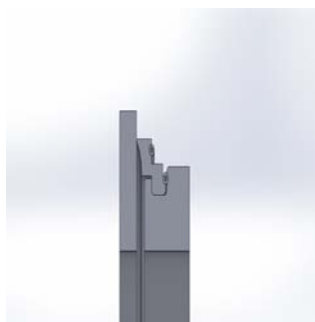


PROTECTED BEARING GAP SEAL

11mm x 9mm (S5)

Diameter Range: >400mm

Sealing materials are NBR (Nitrile Butane Rubber) as standard. Alternate materials such as Viton, Silicon and Neoprene are available on request. Please call to enquire.



HIGH PRESSURE GAP SEAL

Double Spring loaded Lip seal

Ideal for Oscillating Loads

9mm x 10mm (S6)

Diameter Range: >200mm

UNASIS Thin Section Ball Bearings

UNASIS thin section bearings are characterised by extremely thin walled bearing races that have split inner race, outer race and cage.

UNASIS thin section bearings are manufactured via a special linear grinding process which simultaneously profiles, hardens and bends the rings without mechanical work. Due to this process the rings remain open or split which allows the use of higher capacity cage strip, opposed to the traditional Conrad method installation and snap over cage. The split design allows the use of a ball cage with a reduced pitch spacing which gives an increased ball compliment. The result is a higher dynamic and static load rating compared to a traditional thin section bearing.

The standard UNASIS range of bearings have rings and balls manufactured from 420C (X46Cr13) Stainless Steel which provides an excellent corrosion resistance capability. The standard cage strip is made from an injection moulded Polyamide-12 polymer which is both lightweight and cost effective. Other cage materials are available on request such as PEEK..

By changing the materials used for the cage and balls UNASIS Thin Section Bearings can be adapted to work in a number of different applications. These include ultra high vacuum, clean room, medical and high temperature.

Features include:

Highly Corrosion Resistant

Low Maintenance

High Static and Dynamic Load Capacity

High Durability

High Rigidity

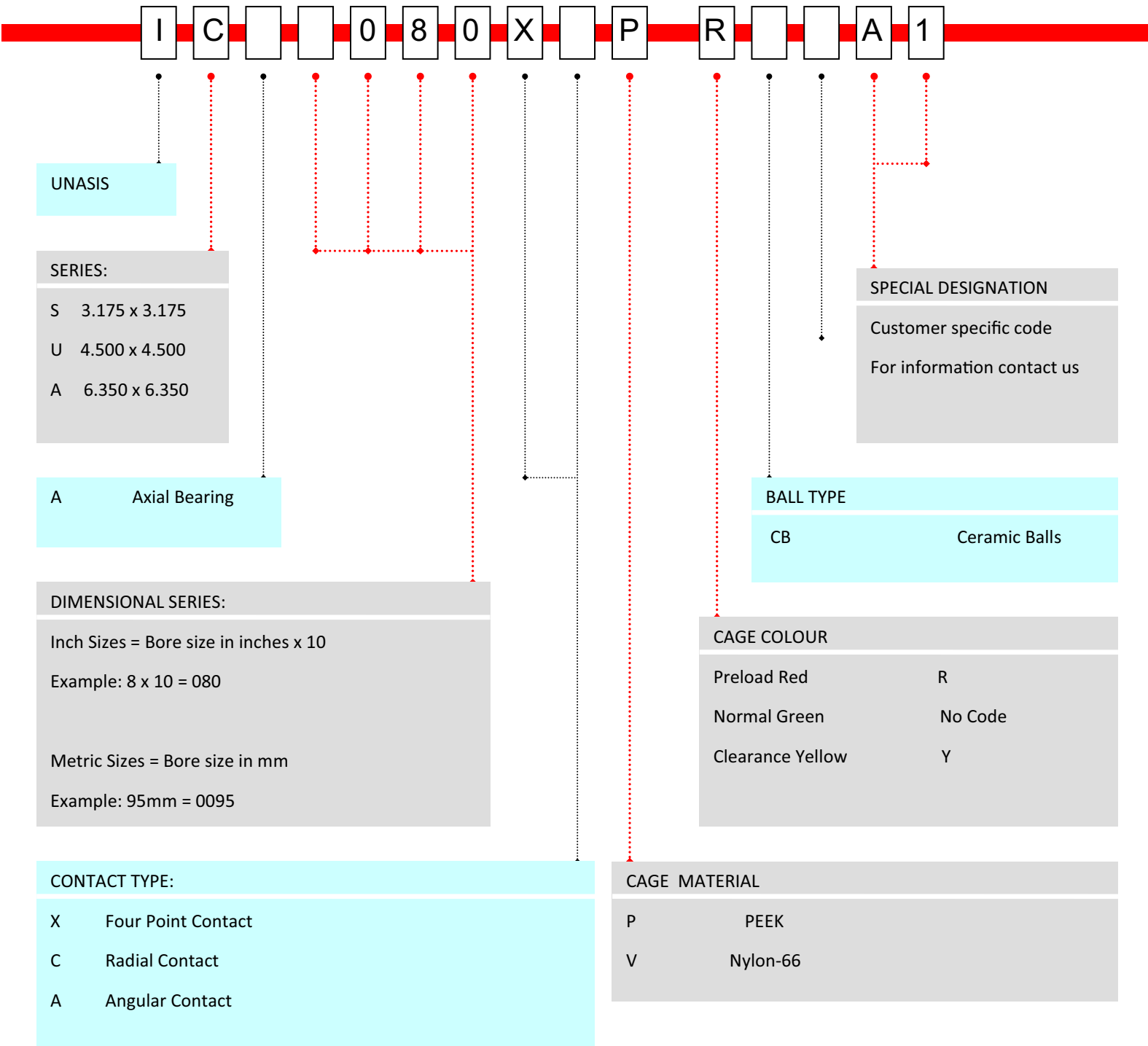
Low Mass

Easy to Install

Many Dimensions can be supplied on short lead times.

Thin Section Ball Bearings

Product Part Numbering System

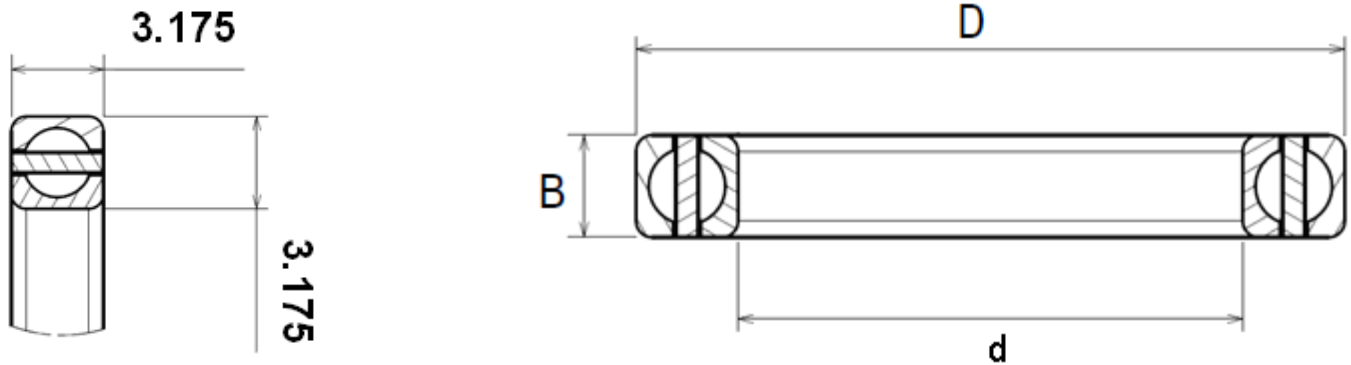


Four Point Contact Bearings



UNASIS Thin Section Ball Bearings

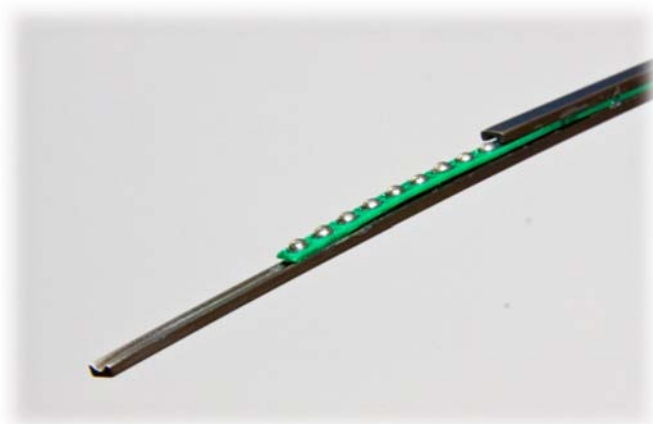
The IS***XV Standard Range



Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
							Axial		Radial	
		d	D	b			Dynamic	Static	Dynamic	Static
IS015XV	1 1/2	38.10	44.45	3.175	4010	0.007	1.23	4.0	1.12	1.6
IS020XV	2	50.80	57.15	3.175	3010	0.010	1.36	5.3	1.23	2.1
IS025XV	2 1/2	63.50	69.85	3.175	2400	0.013	1.47	6.6	1.33	2.6
IS030XV	3	76.20	82.55	3.175	2000	0.015	1.58	7.9	1.43	3.2
IS035XV	3 1/2	88.90	95.25	3.175	1720	0.017	1.67	9.2	1.51	3.7
IS040XV	4	101.60	107.95	3.175	1500	0.020	1.75	10.5	1.58	4.2
IS042XV	4 1/4	107.95	114.30	3.175	1410	0.021	1.79	11.2	1.59	4.5
IS045XV	4 1/2	114.30	120.65	3.175	1340	0.022	1.83	11.8	1.65	4.8
IS047XV	4 3/4	120.65	127.35	3.175	1270	0.023	1.87	12.5	1.68	5.0
IS050XV	5	127.00	133.35	3.175	1200	0.025	1.90	13.1	1.71	5.2
IS055XV	5.5	139.70	146.05	3.175	1090	0.028	1.96	14.4	1.77	5.8
IS060XV	6	152.40	158.75	3.175	1000	0.030	2.02	15.7	1.82	6.3
IS065XV	6.5	165.10	171.45	3.175	920	0.032	2.08	17.0	1.88	6.8
IS070XV	7	177.80	184.15	3.175	860	0.035	2.14	18.3	1.93	7.3
IS075XV	7.5	190.50	196.85	3.175	800	0.037	2.19	19.6	1.98	7.8
IS080XV	8	203.20	209.55	3.175	750	0.040	2.25	20.9	2.03	8.4
IS085XV	8 1/2	215.90	222.25	3.175	710	0.042	2.30	22.2	2.07	8.9
IS090XV	9	228.60	234.95	3.175	670	0.045	2.34	23.5	2.11	9.4
IS095XV	9.5	241.30	247.65	3.175	630	0.047	2.39	24.8	2.16	9.9
IS100XV	10	254.00	260.35	3.175	600	0.050	2.44	26.0	2.20	10.4
IS105XV	10.5	266.70	273.05	3.175	570	0.052	2.48	27.5	2.24	11.0
IS110XV	11	279.40	285.75	3.175	550	0.055	2.50	28.5	2.27	11.5
IS115XV	11.5	292.10	298.45	3.175	520	0.057	2.55	30.0	2.31	12.0
IS120XV	12	304.80	311.15	3.175	500	0.060	2.60	31.5	2.35	12.5
IS125XV	12.5	317.50	323.85	3.175	480	0.062	2.65	32.5	2.38	13.0
IS130XV	13	330.20	336.55	3.175	460	0.065	2.70	34.0	2.42	13.6

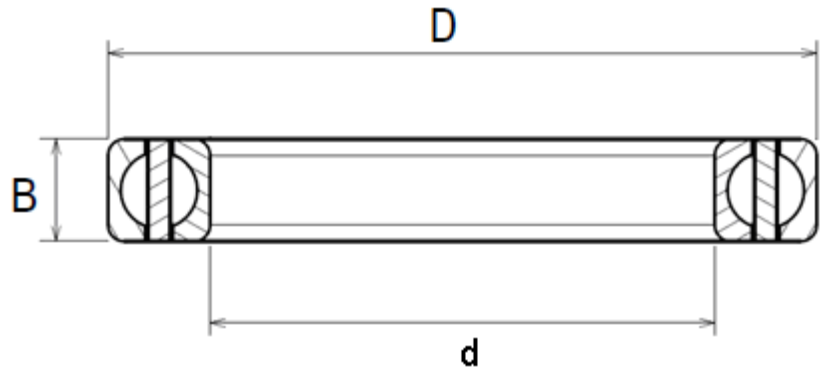
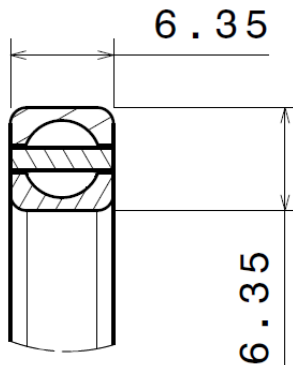
The IS***XV Standard Range

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
IS135XV	13 1/2	342.90	349.25	3.175	450	0.067	2.70	35.0	2.45	14.1
IS140XV	14	355.60	361.95	3.175	430	0.070	2.70	36.5	2.48	14.6
IS145XV	14.5	368.30	374.65	3.175	410	0.072	2.80	38.0	2.50	15.1
IS150XV	15	381.00	387.35	3.175	400	0.075	2.80	39.0	2.55	15.7
IS155XV	15.5	393.70	400.05	3.175	390	0.077	2.85	40.5	2.60	16.2
IS160XV	16	406.40	412.75	3.175	380	0.080	2.90	41.5	2.60	16.7
IS165XV	16.5	419.10	425.45	3.175	360	0.082	2.90	43.0	2.65	17.2
IS170XV	17	431.80	438.15	3.175	350	0.085	2.95	44.5	2.65	17.7
IS175XV	17.5	444.50	450.85	3.175	340	0.087	3.00	45.5	2.70	18.2
IS180XV	18	457.20	463.55	3.175	330	0.090	3.00	47.0	2.70	18.2
IS185XV	18 1/2	469.90	476.25	3.175	320	0.092	3.05	48.0	2.75	19.3
IS190XV	19	482.60	488.95	3.175	320	0.095	3.10	49.5	2.75	19.8
IS195XV	19 1/2	495.30	501.65	3.175	310	0.097	3.10	51.0	2.80	20.3
IS200XV	20	508.00	514.35	3.175	300	0.100	3.15	52.0	2.85	20.9
IS210XV	21	533.40	539.75	3.175	290	0.105	3.20	55.0	2.90	21.9
IS220XV	22	558.80	565.15	3.175	270	0.110	3.25	57.0	2.95	22.9
IS230XV	23	584.20	590.55	3.175	260	0.115	3.30	60.0	3.00	24.0
IS240XV	24	609.60	615.95	3.175	250	0.120	3.35	63.0	3.00	25.0
IS250XV	25	635.00	641.35	3.175	240	0.125	3.40	65.0	3.05	26.0
IS260XV	26	660.40	666.75	3.175	230	0.130	3.45	68.0	3.10	27.0
IS270XV	27	685.80	692.15	3.175	220	0.135	3.50	70.0	3.15	28.0
IS280XV	28	711.20	717.55	3.175	210	0.140	3.55	73.0	3.20	29.0
IS290XV	29	736.60	742.95	3.175	210	0.145	3.60	76.0	3.25	30.0
IS300XV	30	762.00	768.35	3.175	200	0.150	3.65	78.0	3.30	31.5



UNASIS Thin Section Ball Bearings

The IA***XV Standard Range



Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
IA020XV	2	50.80	63.50	6.35	3010	0.04	3.75	11.0	3.4	4.4
IA025XV	2 1/2	63.50	76.20	6.35	2400	0.05	4.10	13.7	3.7	5.5
IA030XV	3	76.20	88.90	6.35	2000	0.06	4.35	16.4	4.0	6.6
IA035XV	3 1/2	88.90	101.60	6.35	1720	0.07	4.60	19.2	4.2	7.7
IA040XV	4	101.60	114.30	6.35	1500	0.08	4.85	21.9	4.4	8.8
IA042XV	4 1/4	107.95	120.65	6.35	1410	0.09	4.95	23.1	4.5	9.2
IA045XV	4 1/2	114.30	127.00	6.35	1340	0.09	5.10	24.6	4.6	9.9
IA047XV	4 3/4	120.65	133.35	6.35	1270	0.10	5.10	26.0	4.7	10.3
IA050XV	5	127.00	139.70	6.35	1200	0.11	5.30	27.5	4.8	11.0
IA055XV	5 1/2	139.70	152.40	6.35	1090	0.11	5.50	30.0	5.0	12.0
IA060XV	6	152.40	165.10	6.35	1000	0.12	5.60	32.5	5.1	13.0
IA065XV	6 1/2	165.10	177.80	6.35	920	0.13	5.80	35.0	5.2	14.1
IA070XV	7	177.80	190.50	6.35	860	0.14	5.90	38.0	5.4	15.2
IA075XV	7 1/2	190.50	203.20	6.35	800	0.15	6.10	40.5	5.5	16.3
IA080XV	8	203.20	215.90	6.35	750	0.16	6.20	43.5	5.6	17.4
IA085XV	8 1/2	215.90	228.60	6.35	710	0.17	6.40	46.0	5.8	18.5
IA090XV	9	228.60	241.30	6.35	670	0.18	6.50	49.0	5.9	19.6
IA095XV	9 1/2	241.30	254.00	6.35	630	0.19	6.60	52.0	6.0	20.7
IA100XV	10	254.00	266.70	6.35	600	0.20	6.80	54.0	6.1	21.8
IA105XV	10 1/2	266.70	279.40	6.35	570	0.21	6.90	57.0	6.2	22.7
IA110XV	11	279.40	292.10	6.35	550	0.22	7.00	59.0	6.3	23.8
IA115XV	11 1/2	292.10	304.80	6.35	520	0.23	7.10	62.0	6.4	24.9
IA120XV	12	304.80	317.50	6.35	500	0.24	7.20	65.0	6.5	26.0
IA125XV	12 1/2	317.50	330.20	6.35	480	0.25	7.20	66.0	6.6	26.5
IA130XV	13	330.20	342.90	6.35	460	0.26	7.40	70.0	6.7	28.0
IA135XV	13 1/2	342.90	355.60	6.35	450	0.27	7.50	73.0	6.8	29.5
IA140XV	14	355.60	368.30	6.35	430	0.28	7.60	76.0	6.9	30.5

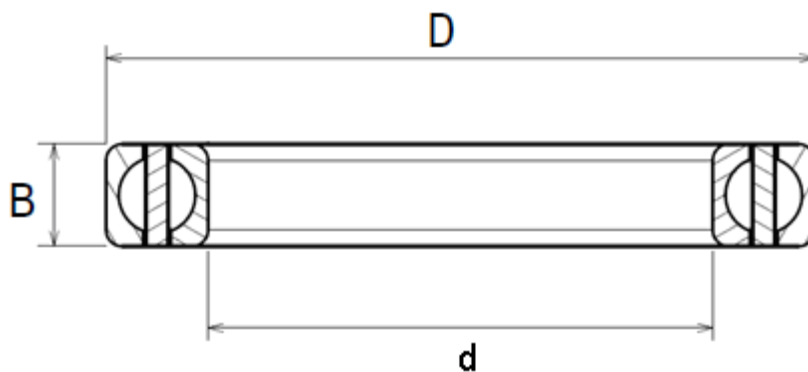
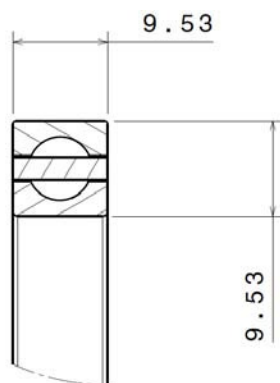
The IA***XV Standard Range

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
IA145XV	14 1/2	368.30	381.00	6.35	410	0.29	7.70	78.0	7.0	31.5
IA150XV	15	381.00	393.70	6.35	400	0.30	7.80	81.0	7.1	32.5
IA155XV	15 1/2	393.70	406.40	6.35	390	0.31	7.90	84.0	7.1	33.5
IA160XV	16	406.40	419.10	6.35	380	0.32	8.00	86.0	7.2	34.5
IA165XV	16 1/2	419.10	431.80	6.35	360	0.33	8.10	89.0	7.3	35.5
IA170XV	17	431.80	444.50	6.35	350	0.34	8.20	92.0	7.4	37.0
IA175XV	17 1/2	444.50	457.20	6.35	340	0.35	8.30	95.0	7.5	38.0
IA180XV	18	457.20	469.90	6.35	330	0.36	8.40	97.0	7.6	39.0
IA185XV	18 1/2	469.90	482.60	6.35	320	0.37	8.40	100.0	7.6	40.0
IA190XV	19	482.60	495.30	6.35	320	0.38	8.50	103.0	7.7	41.0
IA195XV	19 1/2	495.30	508.00	6.35	310	0.39	8.60	105.0	7.8	42.0
IA200XV	20	508.00	520.70	6.35	300	0.40	8.70	108.0	7.8	43.0
IA210XV	21	533.40	546.10	6.35	290	0.41	8.80	113.0	8.0	45.5
IA220XV	22	558.80	571.50	6.35	270	0.43	9.00	119.0	8.1	47.5
IA230XV	23	584.20	596.90	6.35	260	0.45	9.10	124.0	8.2	49.5
IA240XV	24	609.60	622.30	6.35	250	0.47	9.30	130.0	8.4	52.0
IA250XV	25	635.00	647.70	6.35	240	0.49	9.40	135.0	8.5	54.0
IA260XV	26	660.40	673.10	6.35	230	0.51	9.50	140.0	8.6	56.0
IA270XV	27	685.80	698.50	6.35	220	0.53	9.70	146.0	8.7	58.0
IA280XV	28	711.20	723.90	6.35	210	0.55	9.80	151.0	8.7	60.0
IA290XV	29	736.60	749.30	6.35	210	0.57	9.90	156.0	9.0	63.0
IA300XV	30	762.00	774.70	6.35	200	0.59	10.10	162.0	9.1	65.0



UNASIS Thin Section Ball Bearings

The IC***XV Standard Range



Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
IC040XV	4	101.60	120.65	9.53	1500	0.18	9.3	37.0	8.5	14.7
IC042XV	4 1/4	107.95	127.00	9.53	1410	0.19	9.6	39.5	8.7	15.8
IC045XV	4 1/2	114.30	133.35	9.53	1340	0.20	9.7	41.0	8.8	16.5
IC047XV	4 3/4	120.65	139.70	9.53	1270	0.21	10.0	44.0	9.0	17.5
IC050XV	5	127.00	146.05	9.53	1200	0.22	10.1	45.5	9.1	18.2
IC055XV	5.5	139.70	158.75	9.53	1090	0.24	10.6	51.0	9.6	20.3
IC060XV	6	152.40	171.45	9.53	1000	0.26	10.9	55.0	9.8	22.1
IC065XV	6.5	165.10	184.15	9.53	920	0.28	11.2	60.0	10.1	23.9
IC070XV	7	177.80	196.85	9.53	860	0.30	11.5	64.0	10.4	25.5
IC075XV	7.5	190.50	209.55	9.53	800	0.32	11.7	68.0	10.6	27.5
IC080XV	8	203.20	222.25	9.53	750	0.34	12.0	73.0	10.9	29.0
IC085XV	8 1/2	215.90	234.95	9.53	710	0.36	12.2	77.0	11.1	31.0
IC090XV	9	228.60	247.65	9.53	670	0.38	12.5	82.0	11.3	32.5
IC095XV	9.5	241.30	260.35	9.53	630	0.39	12.8	87.0	11.6	35.0
IC100XV	10	254.00	273.05	9.53	600	0.41	13.0	91.0	11.8	36.5
IC105XV	10.5	266.70	285.75	9.53	570	0.43	13.3	96.0	12.0	38.5
IC110XV	11	279.40	298.45	9.53	550	0.45	13.5	100.0	12.2	4.0
IC115XV	11.5	292.10	311.15	9.53	520	0.47	13.7	105.0	12.4	42.0
IC120XV	12	304.80	323.85	9.53	500	0.49	13.9	109.0	12.6	43.5
IC130XV	13	330.20	349.25	9.53	460	0.53	14.3	118.0	12.9	47.0
IC140XV	14	355.60	374.65	9.53	430	0.56	14.7	127.0	13.3	51.0
IC150XV	15	381.00	400.05	9.53	400	0.60	15.1	136.0	13.6	54.0
IC160XV	16	406.40	425.45	9.53	380	0.64	15.4	145.0	13.9	58.0
IC170XV	17	431.80	450.85	9.53	350	0.68	15.7	154.0	14.2	62.0
IC180XV	18	457.20	476.25	9.53	330	0.72	16.1	163.0	14.5	65.0
IC190XV	19	482.60	501.65	9.53	320	0.76	16.4	172.0	14.8	69.0

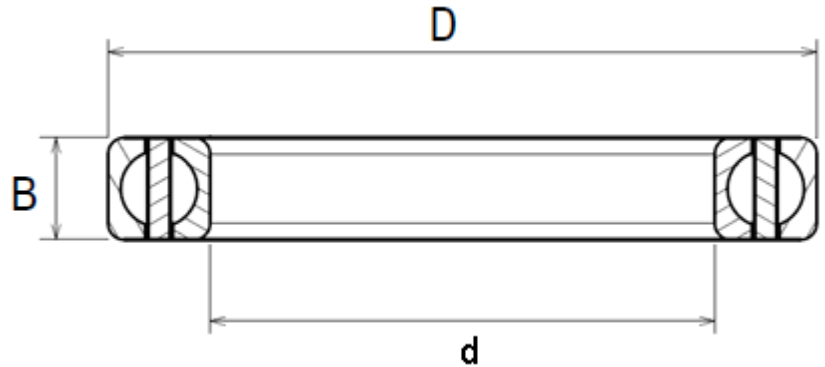
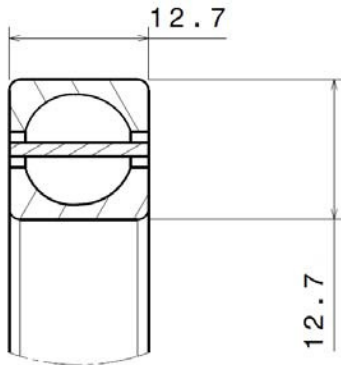
The IC***XV Standard Range

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
IC200XV	20	508.00	527.05	9.53	300	0.79	16.7	181.0	15.1	72.0
IC210XV	21	533.40	552.45	9.53	290	0.83	17.0	190.0	15.4	76.0
IC220XV	22	558.80	577.85	9.53	270	0.87	17.3	199.0	15.6	79.0
IC230XV	23	584.20	603.25	9.53	3+0	0.91	17.6	208.0	15.9	83.0
IC240XV	24	609.60	628.65	9.53	250	0.95	17.9	217.0	16.1	87.0
IC250XV	25	635.00	654.05	9.53	240	0.98	18.1	226.0	16.4	90.0
IC260XV	26	660.40	679.45	9.53	230	1.02	18.4	235.0	16.6	94.0
IC270XV	27	685.80	704.85	9.53	220	1.06	18.7	245.0	16.9	98.0
IC280XV	28	711.20	730.25	9.53	210	1.10	18.9	255.0	17.1	101.0
IC290XV	29	736.60	755.65	9.53	210	1.14	19.1	260.0	17.3	105.0
IC300XV	30	762.00	781.05	9.53	200	1.18	19.3	270.0	17.5	108.0
IC310XV	31	787.40	806.45	9.53	190	1.22	19.6	280.0	17.7	112.0
IC320XV	32	812.80	831.85	9.53	190	1.26	19.8	290.0	17.9	116.0
IC330XV	33	838.20	857.25	9.53	180	1.30	20.0	300.0	18.1	119.0
IC340XV	34	863.60	882.65	9.53	180	1.34	20.3	305.0	18.5	123.0



UNASIS Thin Section Ball Bearings

The ID***XV Standard Range



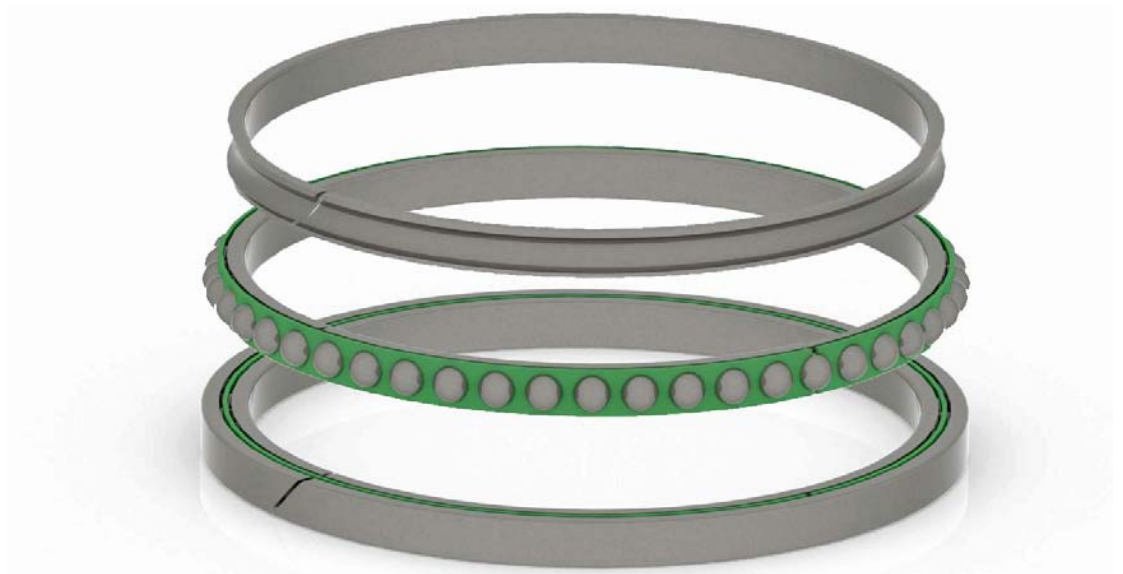
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
							Axial		Radial	
		d	D	b			Dynamic	Static	Dynamic	Static
ID040XV	4	101.60	127.00	12.70	1500	0.334	18.3	59.0	16.6	23.7
ID042XV	4 1/4	107.95	133.35	12.70	1410	0.353	18.9	64.0	17.2	25.5
ID045XV	4 1/2	114.30	139.70	12.70	1340	0.371	19.4	68.0	17.6	27.0
ID047XV	4 3/4	120.65	146.05	12.70	1270	0.390	19.5	70.0	17.7	28.0
ID050XV	5	127.00	152.40	12.70	1200	0.408	20.0	75.0	18.2	30.0
ID055XV	5.5	139.70	165.10	12.70	1090	0.445	20.6	81.0	18.7	32.5
ID060XV	6	152.40	177.80	12.70	1000	0.482	21.5	90.0	19.5	36.0
ID065XV	6.5	165.10	190.50	12.70	920	0.519	22.1	97.0	20.0	39.0
ID070XV	7	177.80	203.20	12.70	860	0.557	22.6	104.0	20.5	41.5
ID075XV	7.5	190.50	215.90	12.70	800	0.594	23.3	112.0	21.2	45.0
ID080XV	8	203.20	228.60	12.70	750	0.631	23.8	119.0	21.6	47.5
ID085XV	8 1/2	215.90	241.30	12.70	710	0.663	24.2	126.0	22.0	50.0
ID090XV	9	228.60	254.00	12.70	670	0.705	24.9	135.0	22.6	54.0
ID095XV	9.5	241.30	266.70	12.70	630	0.742	25.5	141.0	22.9	57.0
ID100XV	10	254.00	279.40	12.70	600	0.779	25.5	148.0	23.3	59.0
ID105XV	10.5	266.70	292.10	12.70	570	0.816	26.5	157.0	23.9	63.0
ID110XV	11	279.40	304.80	12.70	550	0.853	26.5	163.0	24.2	65.0
ID115XV	11.5	292.10	317.50	12.70	520	0.891	27.0	170.0	24.5	68.0
ID120XV	12	304.80	330.20	12.70	500	0.928	28.5	179.0	25.0	72.0
ID130XV	13	330.20	355.60	12.70	460	1.002	29.0	192.0	25.2	77.0
ID140XV	14	355.60	381.00	12.70	430	1.076	30.0	208.0	26.5	83.0
ID150XV	15	381.00	406.40	12.70	400	1.150	30.5	223.0	27.0	89.0
ID160XV	16	406.40	431.80	12.70	380	1.225	31.5	237.0	27.0	95.0
ID170XV	17	431.80	457.20	12.70	350	1.299	32.0	250.0	28.5	101.0
ID180XV	18	457.20	482.60	12.70	330	1.373	32.5	270.0	29.0	107.0
ID190XV	19	482.60	508.00	12.70	320	1.447	33.0	280.0	29.5	112.0

The ID***XV Standard Range

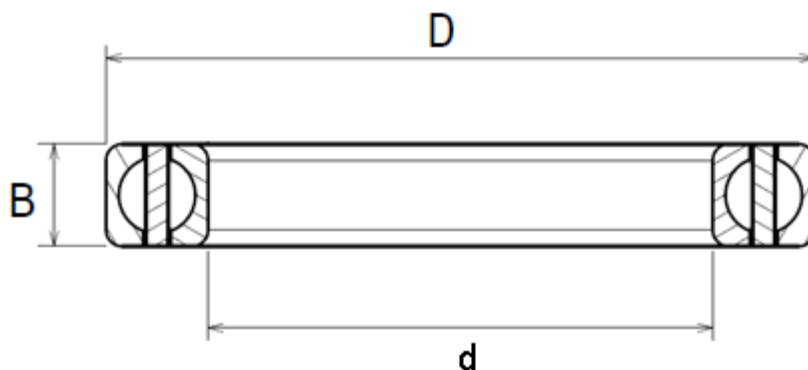
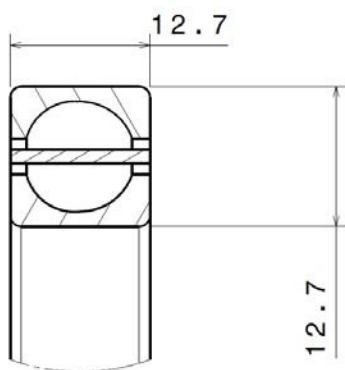
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
ID200XV	20	508.00	533.40	12.70	300	1.521	33.5	295.0	30.0	119.0
ID210XV	21	533.40	558.80	12.70	290	1.596	34.5	310.0	30.5	124.0
ID220XV	22	558.80	584.20	12.70	270	1.670	34.5	325.0	31.0	130.0
ID230XV	23	584.20	609.60	12.70	260	1.744	35.5	340.0	31.5	136.0
ID240XV	24	609.60	635.00	12.70	250	1.812	36.0	355.0	32.0	142.0
ID250XV	25	635.00	660.40	12.70	240	1.892	36.5	370.0	32.5	148.0
ID260XV	26	660.40	685.80	12.70	230	1.967	36.5	385.0	33.0	154.0
ID270XV	27	685.80	711.20	12.70	220	2.041	37.0	400.0	33.5	159.0
ID280XV	28	711.20	736.60	12.70	210	2.115	37.5	415.0	34.0	166.0
ID290XV	29	736.60	762.00	12.70	210	2.189	38.0	430.0	34.5	172.0
ID300XV	30	762.00	787.40	12.70	200	2.264	38.5	445.0	34.5	177.0
ID310XV	31	787.40	812.80	12.70	190	2.338	39.0	460.0	35.0	183.0
ID320XV	32	812.80	838.20	12.70	190	2.412	39.5	475.0	35.5	190.0
ID330XV	33	838.20	863.60	12.70	180	2.486	39.5	485.0	36.0	195.0
ID340XV	34	863.60	889.00	12.70	180	2.560	40.0	500.0	36.5	201.0
ID400XV	40	1016.0	1041.4	12.70	155	3.012	43.4	588.0	39.6	237.0
ID405XV	40 1/2	1028.8	1054.1	12.70	150	3.049	43.7	596.0	39.8	240.0
ID417XV	41 3/4	1060.5	1085.9	12.70	145	3.143	44.3	614.0	40.5	247.0
ID420XV	42	1066.8	1092.2	12.70	140	3.162	44.5	618.0	40.6	249.0



Angular Contact Bearings



The ID***AV Standard Range



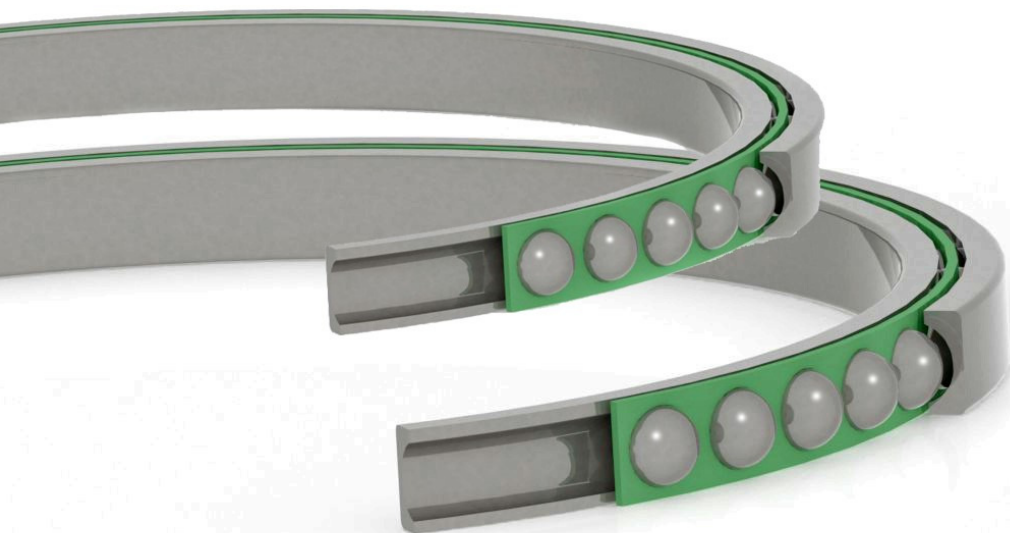
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
ID040AV	4	101.60	127.00	12.70	3300	0.334	19.3	59.0	10.2	11.9
ID042AV	4 1/4	107.95	133.35	12.70	3100	0.353	19.9	64.0	10.5	12.7
ID045AV	4 1/2	114.30	139.70	12.70	2930	0.371	20.5	68.0	10.8	13.6
ID047AV	4 3/4	120.65	146.05	12.70	2780	0.390	20.6	70.0	10.9	14.1
ID050AV	5	127.00	152.40	12.70	2640	0.408	21.2	75.0	11.2	15.0
ID055AV	5.5	139.70	165.10	12.70	2400	0.445	21.8	81.0	11.5	16.3
ID060AV	6	152.40	177.80	12.70	2200	0.482	22.7	90.0	12.0	18.1
ID065AV	6.5	165.10	190.50	12.70	2030	0.519	23.3	97.0	12.3	19.4
ID070AV	7	177.80	203.20	12.70	1880	0.557	23.8	104.0	12.6	20.7
ID075AV	7.5	190.50	215.90	12.70	1760	0.594	24.6	112.0	13.0	22.5
ID080AV	8	203.20	228.60	12.70	1650	0.631	25.0	119.0	13.2	23.8
ID085AV	8 1/2	215.90	241.30	12.70	1550	0.663	25.5	126.0	13.5	25.0
ID090AV	9	228.60	254.00	12.70	1470	0.705	26.5	135.0	13.9	27.0
ID095AV	9.5	241.30	266.70	12.70	1390	0.742	26.5	141.0	14.1	28.5
ID100AV	10	254.00	279.40	12.70	1320	0.779	27.0	148.0	14.3	29.5
ID105AV	10.5	266.70	292.10	12.70	1260	0.816	28.0	157.0	14.7	31.5
ID110AV	11	279.40	304.80	12.70	1200	0.853	28.0	163.0	14.9	32.5
ID115AV	11.5	292.10	317.50	12.70	1150	0.891	28.5	170.0	15.1	34.0
ID120AV	12	304.80	330.20	12.70	1100	0.928	29.3	179.0	15.4	36.0
ID130AV	13	330.20	355.60	12.70	1010	1.002	30.0	192.0	15.7	38.5
ID140AV	14	355.60	381.00	12.70	940	1.076	30.5	208.0	16.2	41.5
ID150AV	15	381.00	406.40	12.70	880	1.150	31.5	223.0	16.6	44.5
ID160AV	16	406.40	431.80	12.70	820	1.225	32.0	237.0	17.0	47.5
ID170AV	17	431.80	457.20	12.70	780	1.299	33.0	250.0	17.4	50.0
ID180AV	18	457.20	482.60	12.70	730	1.373	33.5	270.0	17.8	54.0
ID190AV	19	482.60	508.00	12.70	690	1.447	34.5	280.0	18.1	56.0
ID200AV	20	508.00	533.40	12.70	660	1.521	35.0	295.0	18.4	59.0

UNASIS Thin Section Ball Bearings

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
							Axial		Radial	
		d	D	b			Dynamic	Static	Dynamic	Static
ID210AV	21	533.40	558.80	12.70	630	1.596	35.5	310.0	18.7	62.0
ID220AV	22	558.80	584.20	12.70	600	1.670	36.0	325.0	19.0	65.0
ID230AV	23	584.20	609.60	12.70	570	1.744	37.0	340.0	19.4	68.0
ID240AV	24	609.60	635.00	12.70	550	1.812	37.5	355.0	19.6	71.0
ID250AV	25	635.00	660.40	12.70	530	1.892	38.0	370.0	19.9	74.0
ID260AV	26	660.40	685.80	12.70	510	1.967	38.5	385.0	20.3	77.0
ID270AV	27	685.80	711.20	12.70	490	2.041	39.0	400.0	20.5	80.0
ID280AV	28	711.20	736.60	12.70	470	2.115	39.5	415.0	20.8	83.0
ID290AV	29	736.60	762.00	12.70	450	2.189	40.0	430.0	21.1	86.0
ID300AV	30	762.00	787.40	12.70	440	2.264	40.5	445.0	21.3	89.0
ID310AV	31	787.40	812.80	12.70	430	2.338	41.0	460.0	21.6	92.0
ID320AV	32	812.80	838.20	12.70	410	2.412	41.5	475.0	21.8	95.0
ID330AV	33	838.20	863.60	12.70	400	2.486	42.0	485.0	22.0	97.0
ID340AV	34	863.60	889.00	12.70	390	2.560	42.5	500.0	22.3	101.0
ID400AV	40	1016.0	1041.4	12.70	330	3.012	46.1	588.0	24.2	119.0
ID405AV	40 1/2	1028.7	1054.1	12.70	330	3.049	46.4	596.0	24.3	120.5
ID417AV	41 3/4	1060.5	1085.9	12.70	320	3.143	47.1	614.0	24.7	124.0
ID420AV	42	1066.8	1092.2	12.70	315	3.162	47.3	618.0	24.8	125.0

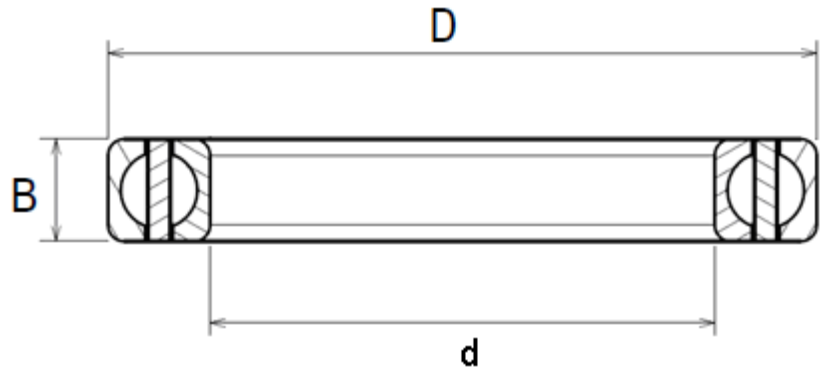
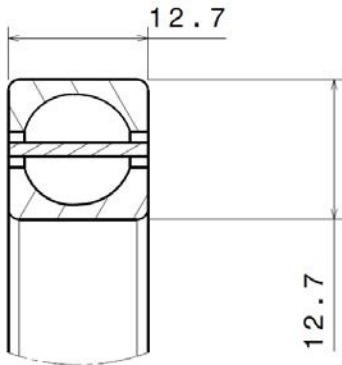


Radial Contact Bearings



UNASIS Thin Section Ball Bearings

The ID***CV Standard Range



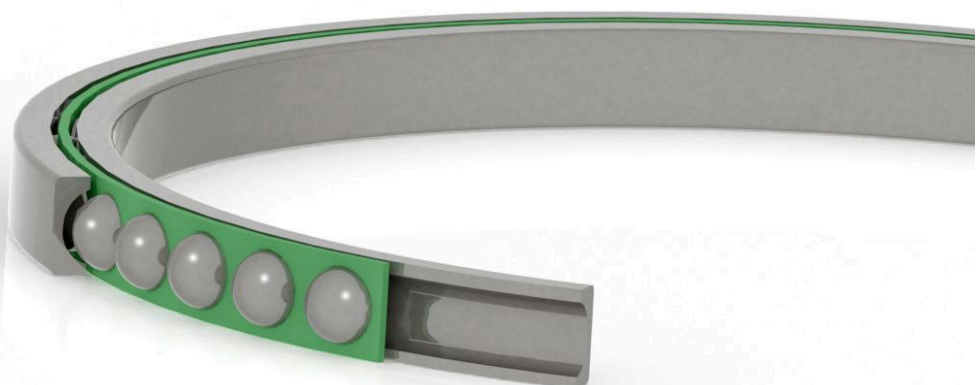
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
							Axial		Radial	
		d	D	b			Dynamic	Static	Dynamic	Static
ID040CV	4	101.60	127.00	12.70	3300	0.334	N/A	N/A	14.2	16.2
ID042CV	4 1/4	107.95	133.35	12.70	3100	0.353	N/A	N/A	14.7	17.4
ID045CV	4 1/2	114.30	146.05	12.70	2930	0.371	N/A	N/A	15.1	18.7
ID047CV	4 3/4	120.65	152.40	12.70	2780	0.390	N/A	N/A	15.2	19.3
ID050CV	5	127.00	158.75	12.70	2640	0.408	N/A	N/A	15.7	20.6
ID055CV	5.5	139.70	171.45	12.70	2400	0.445	N/A	N/A	16.1	22.5
ID060CV	6	152.40	177.80	12.70	2200	0.482	N/A	N/A	16.9	24.9
ID065CV	6.5	165.10	190.50	12.70	2030	0.519	N/A	N/A	17.3	27.0
ID070CV	7	177.80	203.20	12.70	1880	0.557	N/A	N/A	17.7	28.5
ID075CV	7.5	190.50	215.90	12.70	1760	0.594	N/A	N/A	18.3	31.0
ID080CV	8	203.20	228.60	12.70	1650	0.631	N/A	N/A	18.7	33.0
ID085CV	8 1/2	215.90	241.30	12.70	1550	0.663	N/A	N/A	19.0	35.0
ID090CV	9	228.60	254.00	12.70	1470	0.705	N/A	N/A	19.6	37.5
ID095CV	9.5	241.30	266.70	12.70	1390	0.742	N/A	N/A	19.9	39.5
ID100CV	10	254.00	279.40	12.70	1320	0.779	N/A	N/A	20.2	41.5
ID105CV	10.5	266.70	292.10	12.70	1260	0.816	N/A	N/A	20.7	44.0
ID110CV	11	279.40	304.80	12.70	1200	0.853	N/A	N/A	21.0	45.5
ID115CV	11.5	292.10	317.50	12.70	1150	0.891	N/A	N/A	21.3	47.5
ID120CV	12	304.80	330.20	12.70	1100	0.928	N/A	N/A	21.7	50.0
ID130CV	13	330.20	355.60	12.70	1010	1.002	N/A	N/A	22.2	54.0
ID140CV	14	355.60	381.00	12.70	940	1.076	N/A	N/A	22.9	58.0
ID150CV	15	381.00	406.40	12.70	880	1.150	N/A	N/A	23.5	63.0
ID160CV	16	406.40	431.80	12.70	820	1.225	N/A	N/A	24.0	66.0
ID170CV	17	431.80	457.20	12.70	780	1.299	N/A	N/A	24.6	71.0
ID180CV	18	457.20	482.60	12.70	730	1.373	N/A	N/A	25.0	75.0
ID190CV	19	482.60	508.00	12.70	690	1.447	N/A	N/A	25.5	79.0
ID200CV	20	508.00	533.40	12.70	660	1.521	N/A	N/A	26.0	83.0

UNASIS Thin Section Ball Bearings

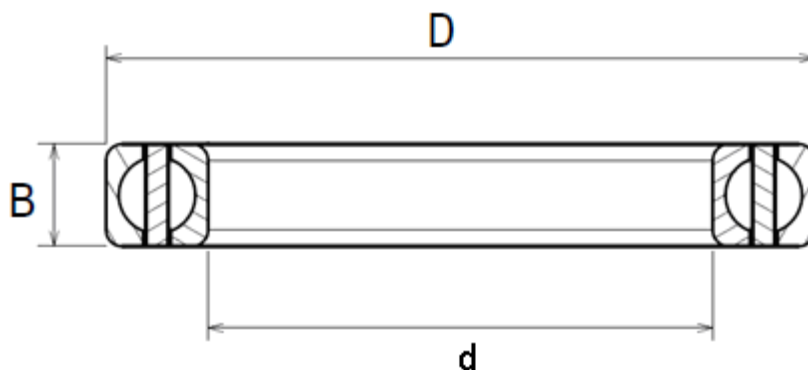
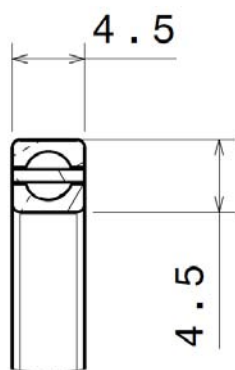
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
		d	D	b			Axial		Radial	
							Dynamic	Static	Dynamic	Static
ID210CV	21	533.40	558.80	12.70	630	1.596	N/A	N/A	26.5	87.0
ID220CV	22	558.80	584.20	12.70	600	1.670	N/A	N/A	27.0	91.0
ID230CV	23	584.20	609.60	12.70	570	1.744	N/A	N/A	27.5	96.0
ID240CV	24	609.60	635.00	12.70	550	1.812	N/A	N/A	28.0	100.0
ID250CV	25	635.00	660.40	12.70	530	1.892	N/A	N/A	28.0	104.0
ID260CV	26	660.40	685.80	12.70	510	1.967	N/A	N/A	28.5	108.0
ID270CV	27	685.80	711.20	12.70	490	2.041	N/A	N/A	29.0	112.0
ID280CV	28	711.20	736.60	12.70	470	2.115	N/A	N/A	29.5	117.0
ID290CV	29	736.60	762.00	12.70	450	2.189	N/A	N/A	30.0	121.0
ID300CV	30	762.00	787.40	12.70	440	2.264	N/A	N/A	30.0	125.0
ID310CV	31	787.40	812.80	12.70	430	2.338	N/A	N/A	30.5	129.0
ID320CV	32	812.80	838.20	12.70	410	2.412	N/A	N/A	31.0	133.0
ID330CV	33	838.20	863.60	12.70	400	2.486	N/A	N/A	31.0	137.0
ID340CV	34	863.60	889.00	12.70	390	2.560	N/A	N/A	31.5	142.0
ID400CV	40	1016.0	1041.4	12.70	330	3.012	N/A	N/A	34.2	167.0
ID405CV	40 1/2	1028.7	1054.1	12.70	330	3.049	N/A	N/A	34.4	169.0
ID417CV	41 3/4	1060.5	1085.9	12.70	320	3.143	N/A	N/A	34.9	174.0
ID420CV	42	1066.8	1092.2	12.70	315	3.162	N/A	N/A	35.0	175.5



Four Point Contact Metric Bearings



The IU****XV Standard Metric Range



Part Number	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
						Axial		Radial	
	d	D	b			Dynamic	Static	Dynamic	Static
IU0035XV	35	44	4.5	4360	0.014	2.50	6.60	2.28	2.65
IU0040XV	40	49	4.5	3820	0.016	2.65	7.60	2.41	3.05
IU0045XV	45	54	4.5	3390	0.018	2.80	8.60	2.50	3.45
IU0050XV	50	59	4.5	3050	0.020	2.85	9.30	2.60	3.75
IU0055XV	55	64	4.5	2780	0.022	2.90	10.30	2.70	4.10
IU0060XV	60	69	4.5	2550	0.024	3.00	11.30	2.80	4.50
IU0065XV	65	74	4.5	2350	0.025	3.10	12.00	2.85	4.80
IU0070XV	70	79	4.5	2180	0.027	3.20	13.00	2.90	5.20
IU0075XV	75	84	4.5	2040	0.029	3.30	14.00	3.00	5.60
IU0080XV	80	89	4.5	1910	0.031	3.40	15.00	3.10	6.00
IU0085XV	85	94	4.5	1800	0.033	3.45	15.70	3.10	6.30
IU0090XV	90	99	4.5	1700	0.035	3.55	16.70	3.20	6.70
IU0095XV	95	104	4.5	1610	0.037	3.60	17.70	3.25	7.10
IU0100XV	100	109	4.5	1530	0.039	3.70	18.70	3.35	7.50
IU0110XV	110	119	4.5	1390	0.043	3.80	20.10	3.45	8.20
IU0120XV	120	129	4.5	1270	0.047	3.90	22.40	3.55	9.00
IU0130XV	130	139	4.5	1170	0.051	4.00	24.10	3.65	9.60
IU0140XV	140	149	4.5	1090	0.055	4.15	26.00	3.75	10.40
IU0150XV	150	159	4.5	1020	0.059	4.25	28.00	3.85	11.10
IU0160XV	160	169	4.5	950	0.062	4.35	30.00	3.95	11.90
IU0170XV	170	179	4.5	900	0.066	4.45	31.50	4.00	12.60
IU0180XV	180	189	4.5	850	0.070	4.55	33.50	4.10	13.40
IU0190XV	190	199	4.5	800	0.074	4.65	35.00	4.25	14.10
IU0200XV	200	209	4.5	760	0.078	4.65	37.00	4.25	14.80
IU0210XV	210	219	4.5	730	0.082	4.80	39.00	4.35	15.20
IU0220XV	220	229	4.5	690	0.086	4.85	40.50	4.40	16.20
IU0230XV	230	239	4.5	660	0.090	4.95	42.50	4.50	17.00
IU0240XV	240	249	4.5	640	0.094	5.00	44.50	4.55	17.70

UNASIS Thin Section Ball Bearings

Part Number	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
	d	D	b			Axial		Radial	
						Dynamic	Static	Dynamic	Static
IU0250XV	250	259	4.5	610	0.098	5.10	46.50	4.65	18.50
IU0260XV	260	269	4.5	590	0.102	5.20	48.00	4.70	19.20
IU0270XV	270	279	4.5	570	0.106	5.30	50.00	4.75	20.00
IU0280XV	280	289	4.5	550	0.110	5.30	52.00	4.80	20.70
IU0290XV	290	299	4.5	530	0.113	5.40	54.00	4.90	21.50
IU0300XV	300	309	4.5	510	0.117	5.50	55.00	4.95	22.20
IU0310XV	310	319	4.5	490	0.121	5.50	57.00	5.00	23.00
IU0320XV	320	329	4.5	480	0.125	5.60	59.00	5.10	23.60
IU0330XV	330	339	4.5	460	0.129	5.70	61.00	5.10	24.40
IU0340XV	340	349	4.5	450	0.133	5.70	63.00	5.20	25.00
IU0350XV	350	359	4.5	440	0.137	5.80	65.00	5.20	26.00
IU0360XV	360	369	4.5	420	0.141	5.80	67.00	5.30	26.50
IU0370XV	370	379	4.5	410	0.145	5.90	68.00	5.30	27.50
IU0380XV	380	389	4.5	400	0.149	6.00	70.00	5.40	28.00
IU0390XV	390	399	4.5	390	0.153	6.00	72.00	5.40	29.00
IU0400XV	400	409	4.5	380	0.157	6.10	74.00	5.50	29.50
IU0410XV	410	419	4.5	370	0.161	6.10	76.00	5.50	30.50
IU0420XV	420	429	4.5	360	0.165	6.20	78.00	5.60	31.00
IU0430XV	430	439	4.5	360	0.169	6.20	80.00	5.60	32.00
IU0440XV	440	449	4.5	350	0.173	6.30	81.00	5.70	32.50
IU0450XV	450	459	4.5	340	0.177	6.30	83.00	5.70	33.00
IU0460XV	460	469	4.5	330	0.181	6.40	85.00	5.80	34.00
IU0470XV	470	479	4.5	320	0.185	6.40	87.00	5.80	34.50
IU0480XV	480	489	4.5	320	0.189	6.50	89.00	5.90	35.50
IU0490XV	490	499	4.5	310	0.193	6.50	90.00	5.90	36.00
IU0500XV	500	509	4.5	310	0.197	6.60	92.00	5.90	37.00
IU0510XV	510	519	4.5	300	0.201	6.60	94.00	6.00	37.50
IU0520XV	520	529	4.5	290	0.205	6.70	96.00	6.00	38.50
IU0530XV	530	539	4.5	290	0.209	6.70	98.00	6.10	39.00
IU0540XV	540	549	4.5	280	0.213	6.80	100.00	6.10	40.00
IU0550XV	550	559	4.5	280	0.217	6.80	102.00	6.20	40.50
IU0560XV	560	569	4.5	270	0.221	6.90	103.00	6.20	41.50
IU0570XV	570	579	4.5	270	0.225	6.90	105.00	6.20	42.00
IU0580XV	580	589	4.5	260	0.229	6.90	107.00	6.30	43.00
IU0590XV	590	599	4.5	260	0.233	7.00	109.00	6.30	43.50
IU0600XV	600	609	4.5	250	0.237	7.00	111.00	6.40	44.50
IU0610XV	610	619	4.5	250	0.241	7.10	113.00	6.40	45.00
IU0620XV	620	629	4.5	250	0.245	7.10	115.00	6.40	46.00

UNASIS Thin Section Ball Bearings

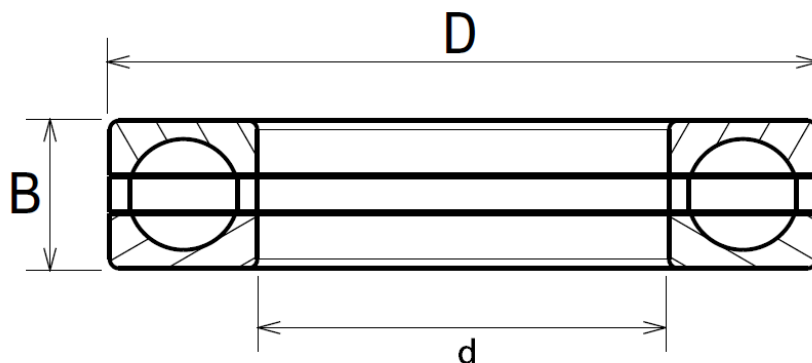
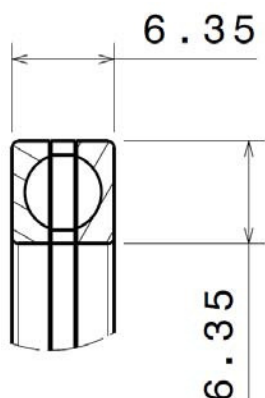
Part Number	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)			
	d	D	b			Axial		Radial	
						Dynamic	Static	Dynamic	Static
IU0630XV	630	639	4.5	240	0.249	7.20	116.00	6.50	46.50
IU0640XV	640	649	4.5	240	0.253	7.20	118.00	6.50	47.50
IU0650XV	650	659	4.5	235	0.257	7.30	120.00	6.60	48.20
IU0660XV	660	669	4.5	230	0.261	7.30	122.00	6.60	49.00
IU0670XV	670	679	4.5	230	0.265	7.40	124.00	6.70	49.70
IU0680XV	680	689	4.5	225	0.269	7.40	125.00	6.70	50.50
IU0690XV	690	699	4.5	220	0.273	7.50	127.00	6.80	51.20
IU0700XV	700	709	4.5	220	0.277	7.50	129.00	6.80	51.90
IU0710XV	710	719	4.5	215	0.281	7.60	131.00	6.80	52.70
IU0720XV	720	729	4.5	215	0.285	7.60	133.00	6.90	53.40
IU0730XV	730	739	4.5	210	0.289	7.70	135.00	6.90	54.20
IU0740XV	740	749	4.5	210	0.293	7.70	137.00	7.00	54.90
IU0750XV	750	759	4.5	205	0.297	7.80	138.00	7.00	55.70
IU0760XV	760	769	4.5	205	0.300	7.80	140.00	7.10	56.40
IU0770XV	770	779	4.5	200	0.304	7.90	142.00	7.10	57.10
IU0780XV	780	789	4.5	200	0.308	7.90	144.00	7.20	57.90
IU0790XV	790	799	4.5	195	0.312	8.00	146.00	7.20	58.60
IU0800XV	800	809	4.5	195	0.316	8.00	148.00	7.30	59.40



Four Point Contact Axial Bearings



The IAA***XV Standard Range



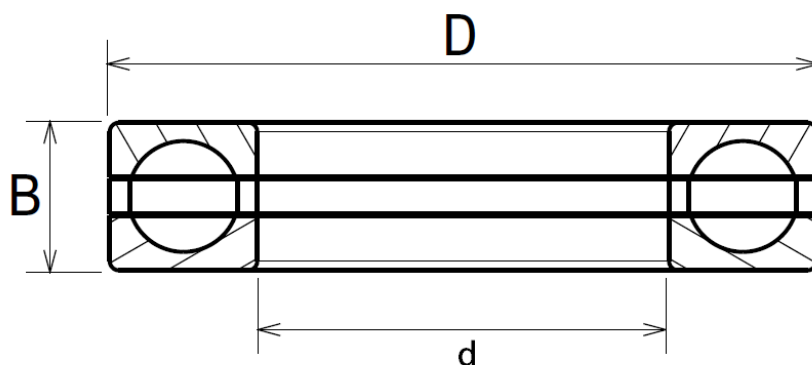
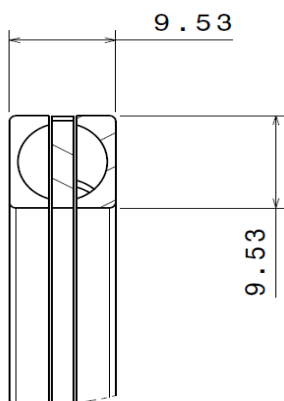
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Dynamic	Static
IAA040XV	4	101.60	114.30	6.35	1500	0.08	7.9	43.8
IAA042XV	4 1/4	107.95	120.65	6.35	1410	0.09	8.0	46.2
IAA045XV	4 1/2	114.30	127.00	6.35	1340	0.09	8.3	49.2
IAA047XV	4 3/4	120.65	133.35	6.35	1270	0.10	8.3	52.0
IAA050XV	5	127.00	139.70	6.35	1200	0.11	8.6	55.0
IAA055XV	5 1/2	139.70	152.40	6.35	1090	0.11	8.9	60.0
IAA060XV	6	152.40	165.10	6.35	1000	0.12	9.1	65.0
IAA065XV	6 1/2	165.10	177.80	6.35	920	0.13	9.4	70.0
IAA070XV	7	177.80	190.50	6.35	860	0.14	9.6	76.0
IAA075XV	7 1/2	190.50	203.20	6.35	800	0.15	9.9	81.0
IAA080XV	8	203.20	215.90	6.35	750	0.16	10.1	87.0
IAA085XV	8 1/2	215.90	228.60	6.35	710	0.17	10.4	92.0
IAA090XV	9	228.60	241.30	6.35	670	0.18	10.6	98.0
IAA095XV	9 1/2	241.30	254.00	6.35	630	0.19	10.7	104.0
IAA100XV	10	254.00	266.70	6.35	600	0.20	11.1	108.0
IAA105XV	10 1/2	266.70	279.40	6.35	570	0.21	11.2	114.0
IAA110XV	11	279.40	292.10	6.35	550	0.22	11.4	118.0
IAA115XV	11 1/2	292.10	304.80	6.35	520	0.23	11.5	124.0
IAA120XV	12	304.80	317.50	6.35	500	0.24	11.7	130.0
IAA125XV	12 1/2	317.50	330.20	6.35	480	0.25	11.7	132.0
IAA130XV	13	330.20	342.90	6.35	460	0.26	12.0	140.0
IAA135XV	13 1/2	342.90	355.60	6.35	450	0.27	12.2	146.0
IAA140XV	14	355.60	368.30	6.35	430	0.28	12.4	152.0
IAA145XV	14 1/2	368.30	381.00	6.35	410	0.29	12.5	158.0
IAA150XV	15	381.00	393.70	6.35	400	0.30	12.7	162.0
IAA155XV	15 1/2	393.70	406.40	6.35	390	0.31	12.8	168.0

UNASIS Thin Section Ball Bearings

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Axial	
							Dynamic	Static
IAA160XV	16	406.40	419.10	6.35	380	0.32	13.0	172.0
IAA165XV	16 1/2	419.10	431.80	6.35	360	0.33	13.2	178.0
IAA170XV	17	431.80	444.50	6.35	350	0.34	13.3	184.0
IAA175XV	17 1/2	444.50	457.20	6.35	340	0.35	13.5	190.0
IAA180XV	18	457.20	469.90	6.35	330	0.36	13.7	194.0
IAA185XV	18 1/2	469.90	482.60	6.35	320	0.37	13.7	200.0
IAA190XV	19	482.60	495.30	6.35	320	0.38	13.8	206.0
IAA195XV	19 1/2	495.30	508.00	6.35	310	0.39	14.0	210.0
IAA200XV	20	508.00	520.70	6.35	300	0.40	14.1	216.0
IAA210XV	21	533.40	546.10	6.35	290	0.41	14.3	226.0
IAA220XV	22	558.80	571.50	6.35	270	0.43	14.6	238.0
IAA230XV	23	584.20	596.90	6.35	260	0.45	14.8	248.0
IAA240XV	24	609.60	622.30	6.35	250	0.47	15.1	260.0
IAA250XV	25	635.00	647.70	6.35	240	0.49	15.3	270.0
IAA260XV	26	660.40	673.10	6.35	230	0.51	15.4	280.0
IAA270XV	27	685.80	698.50	6.35	220	0.53	15.8	292.0
IAA280XV	28	711.20	723.90	6.35	210	0.55	15.9	302.0
IAA290XV	29	736.60	749.30	6.35	210	0.57	16.1	312.0
IAA300XV	30	762.00	774.70	6.35	200	0.59	16.4	324.0



The ICA***XV Standard Range



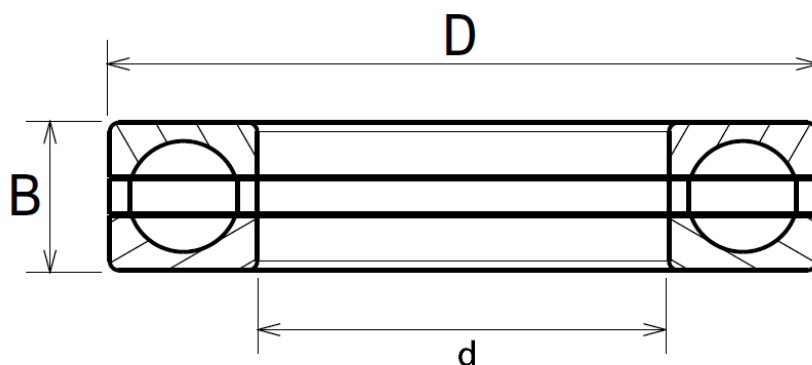
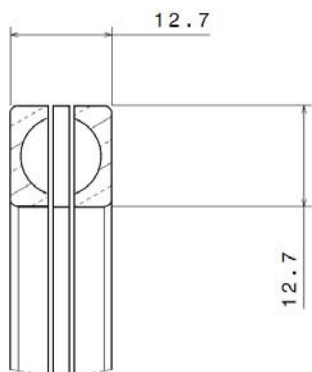
Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Dynamic	Static
ICA070XV	7	177.80	196.85	9.53	860	0.30	18.70	128.00
ICA075XV	7.5	190.50	209.55	9.53	800	0.32	19.00	136.00
ICA080XV	8	203.20	222.25	9.53	750	0.34	19.50	146.00
ICA085XV	8 1/2	215.90	234.95	9.53	710	0.36	19.80	154.00
ICA090XV	9	228.60	247.65	9.53	670	0.38	20.30	164.00
ICA095XV	9.5	241.30	260.35	9.53	630	0.39	20.80	174.00
ICA100XV	10	254.00	273.05	9.53	600	0.41	21.10	182.00
ICA105XV	10.5	266.70	285.75	9.53	570	0.43	21.60	192.00
ICA110XV	11	279.40	298.45	9.53	550	0.45	21.90	200.00
ICA115XV	11.5	292.10	311.15	9.53	520	0.47	22.30	210.00
ICA120XV	12	304.80	323.85	9.53	500	0.49	22.60	218.00
ICA130XV	13	330.20	349.25	9.53	460	0.53	23.20	236.00
ICA140XV	14	355.60	374.65	9.53	430	0.56	23.90	254.00
ICA150XV	15	381.00	400.05	9.53	400	0.60	24.50	272.00
ICA160XV	16	406.40	425.45	9.53	380	0.64	25.00	290.00
ICA170XV	17	431.80	450.85	9.53	350	0.68	25.50	308.00
ICA180XV	18	457.20	476.25	9.53	330	0.72	26.20	326.00
ICA190XV	19	482.60	501.65	9.53	320	0.76	26.70	344.00
ICA200XV	20	508.00	527.05	9.53	300	0.79	27.10	362.00
ICA210XV	21	533.40	552.45	9.53	290	0.83	27.60	380.00
ICA220XV	22	558.80	577.85	9.53	270	0.87	28.10	398.00
ICA230XV	23	584.20	603.25	9.53	260	0.91	28.60	416.00
ICA240XV	24	609.60	628.65	9.53	250	0.95	29.10	434.00
ICA250XV	25	635.00	654.05	9.53	240	0.98	29.40	452.00
ICA260XV	26	660.40	679.45	9.53	230	1.02	29.90	470.00
ICA270XV	27	685.80	704.85	9.53	220	1.06	30.40	490.00

UNASIS Thin Section Ball Bearings

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Axial Dynamic	Static
ICA280XV	28	711.20	730.25	9.53	210	1.10	30.70	510.00
ICA290XV	29	736.60	755.65	9.53	210	1.14	31.00	520.00
ICA300XV	30	762.00	781.05	9.53	200	1.18	31.40	540.00
ICA310XV	31	787.40	806.45	9.53	190	1.22	31.90	560.00
ICA320XV	32	812.80	831.85	9.53	190	1.26	32.20	580.00
ICA330XV	33	838.20	857.25	9.53	180	1.30	32.50	600.00
ICA340XV	34	863.60	882.65	9.53	180	1.34	33.00	610.00



The IDA***XV Standard Range



Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Dynamic	Static
IDA070XV	7	177.80	203.20	12.70	860	0.557	36.7	208.0
IDA075XV	7.5	190.50	215.90	12.70	800	0.594	37.9	224.0
IDA080XV	8	203.20	228.60	12.70	750	0.631	38.7	238.0
IDA085XV	8 1/2	215.90	241.30	12.70	710	0.663	39.3	252.0
IDA090XV	9	228.60	254.00	12.70	670	0.705	40.5	270.0
IDA095XV	9.5	241.30	266.70	12.70	630	0.742	41.4	282.0
IDA100XV	10	254.00	279.40	12.70	600	0.779	41.4	296.0
IDA105XV	10.5	266.70	292.10	12.70	570	0.816	43.1	314.0
IDA110XV	11	279.40	304.80	12.70	550	0.853	43.1	326.0
IDA115XV	11.5	292.10	317.50	12.70	520	0.891	43.9	340.0
IDA120XV	12	304.80	330.20	12.70	500	0.928	44.7	358.0
IDA130XV	13	330.20	355.60	12.70	460	1.002	46.3	384.0
IDA140XV	14	355.60	381.00	12.70	430	1.076	47.1	416.0
IDA150XV	15	381.00	406.40	12.70	400	1.150	48.8	446.0
IDA160XV	16	406.40	431.80	12.70	380	1.225	49.6	474.0
IDA170XV	17	431.80	457.20	12.70	350	1.299	51.2	500.0
IDA180XV	18	457.20	482.60	12.70	330	1.373	52.0	510.0
IDA190XV	19	482.60	508.00	12.70	320	1.447	52.8	560.0
IDA200XV	20	508.00	533.40	12.70	300	1.521	53.6	590.0
IDA210XV	21	533.40	558.80	12.70	290	1.596	54.4	620.0
IDA220XV	22	558.80	584.20	12.70	270	1.670	56.1	650.0
IDA230XV	23	584.20	609.60	12.70	3+0	1.744	56.1	680.0
IDA240XV	24	609.60	635.00	12.70	250	1.812	57.7	710.0
IDA250XV	25	635.00	660.40	12.70	240	1.892	58.5	740.0
IDA260XV	26	660.40	685.80	12.70	230	1.967	59.3	770.0
IDA270XV	27	685.80	711.20	12.70	220	2.041	60.1	800.0
IDA280XV	28	711.20	736.60	12.70	210	2.115	60.9	830.0

UNASIS Thin Section Ball Bearings

Part Number	Shaft size (inches)	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
		d	D	b			Axial	
							Dynamic	Static
IDA290XV	29	736.60	762.00	12.70	210	2.189	61.8	860.0
IDA300XV	30	762.00	787.40	12.70	200	2.264	62.6	890.0
IDA310XV	31	787.40	812.80	12.70	190	2.338	63.4	920.0
IDA320XV	32	812.80	838.20	12.70	190	2.412	64.2	950.0
IDA330XV	33	838.20	863.60	12.70	180	2.486	64.2	970.0
IDA340XV	34	863.60	889.00	12.70	180	2.560	65.0	1000.0
IDA400XV	40	1016.00	1041.40	12.70	155	3.012	70.5	1175.0
IDA405XV	40 1/2	1028.70	1054.10	12.70	150	3.049	71.0	1190.0
IDA417XV	41 3/4	1060.45	1085.85	12.70	145	3.143	72.0	1230.0
IDA420XV	42	1066.80	1092.20	12.70	140	3.162	72.2	1235.0

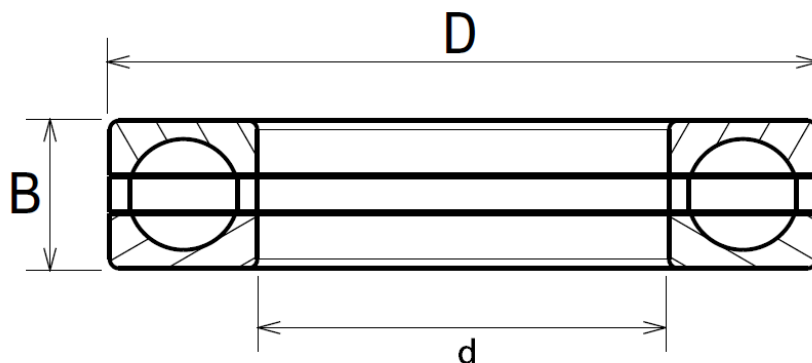
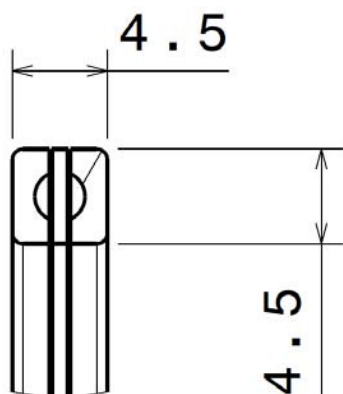


Four Point Contact Axial Metric Bearings



UNASIS Thin Section Ball Bearings

The IUA****XV Standard Metric Range



Part Number	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
	d	D	b			Axial	
						Dynamic	Static
IUA0090XV	90.000	99.000	4.500	1700	0.035	5.80	33.40
IUA0095XV	95.000	104.000	4.500	1610	0.037	5.85	35.40
IUA0100XV	100.000	109.000	4.500	1530	0.039	6.00	37.40
IUA0110XV	110.000	119.000	4.500	1390	0.043	6.20	40.80
IUA0120XV	120.000	129.000	4.500	1270	0.047	6.30	44.80
IUA0130XV	130.000	139.000	4.500	1170	0.051	6.50	48.20
IUA0140XV	140.000	149.000	4.500	1090	0.055	6.70	52.00
IUA0150XV	150.000	159.000	4.500	1020	0.059	6.90	56.00
IUA0160XV	160.000	169.000	4.500	950	0.062	7.10	60.00
IUA0170XV	170.000	179.000	4.500	900	0.066	7.20	63.00
IUA0180XV	180.000	189.000	4.500	850	0.070	7.40	67.00
IUA0190XV	190.000	199.000	4.500	800	0.074	7.60	70.00
IUA0200XV	200.000	209.000	4.500	760	0.078	7.60	74.00
IUA0210XV	210.000	219.000	4.500	730	0.082	7.80	78.00
IUA0220XV	220.000	229.000	4.500	690	0.086	7.90	81.00
IUA0230XV	230.000	239.000	4.500	660	0.090	8.00	85.00
IUA0240XV	240.000	249.000	4.500	640	0.094	8.10	89.00
IUA0250XV	250.000	259.000	4.500	610	0.098	8.30	93.00
IUA0260XV	260.000	269.000	4.500	590	0.102	8.45	96.00
IUA0270XV	270.000	279.000	4.500	570	0.106	8.60	100.00
IUA0280XV	280.000	289.000	4.500	550	0.110	8.60	104.00
IUA0290XV	290.000	299.000	4.500	530	0.113	8.80	108.00
IUA0300XV	300.000	309.000	4.500	510	0.117	9.00	110.00
IUA0310XV	310.000	319.000	4.500	490	0.121	9.00	114.00
IUA0320XV	320.000	329.000	4.500	480	0.125	9.10	118.00
IUA0330XV	330.000	339.000	4.500	460	0.129	9.30	122.00

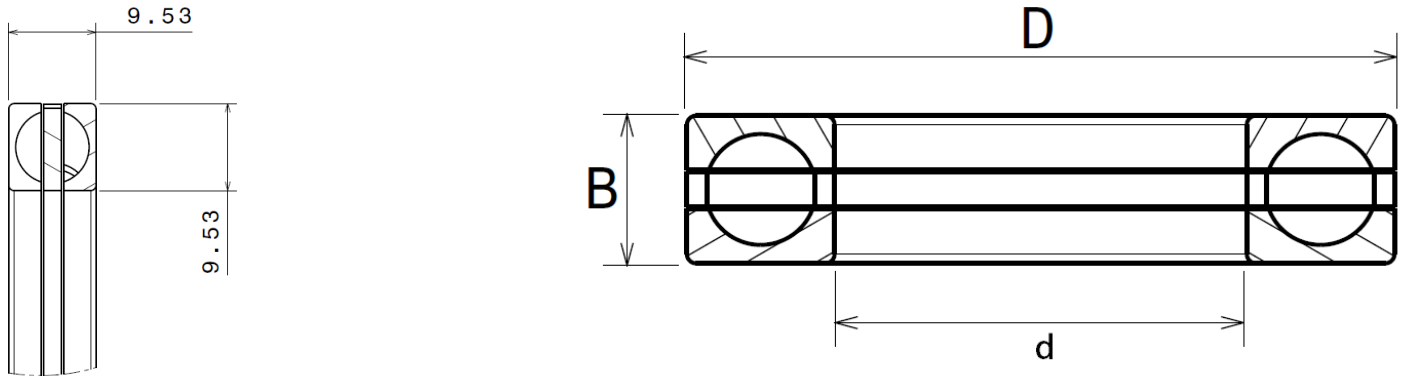
UNASIS Thin Section Ball Bearings

Part Number	Dimensions (mm)			Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
	d	D	b			Axial	
						Dynamic	Static
IUA0340XV	340.000	349.000	4.500	450	0.133	9.30	126.00
IUA0350XV	350.000	359.000	4.500	440	0.137	9.40	130.00
IUA0360XV	360.000	369.000	4.500	420	0.141	9.40	134.00
IUA0370XV	370.000	379.000	4.500	410	0.145	9.60	136.00
IUA0380XV	380.000	389.000	4.500	400	0.149	9.75	140.00
IUA0390XV	390.000	399.000	4.500	390	0.153	9.75	144.00
IUA0400XV	400.000	409.000	4.500	380	0.157	9.90	148.00
IUA0410XV	410.000	419.000	4.500	370	0.161	9.90	152.00
IUA0420XV	420.000	429.000	4.500	360	0.165	10.10	156.00
IUA0430XV	430.000	439.000	4.500	360	0.169	10.10	160.00
IUA0440XV	440.000	449.000	4.500	350	0.173	10.20	162.00
IUA0450XV	450.000	459.000	4.500	340	0.177	10.20	166.00



UNASIS Thin Section Ball Bearings

The ICA***XV Standard Metric Range



Part Number	Dimensions (mm)				Speed (rpm)	Mass (kg)	Basic Load Ratings (kN)	
	R	d	D	b			Axial Dynamic	Static
ICA0195XV	195.000	185.500	204.500	9.525	820	0.300	18.80	131.70
ICA0260XV	260.000	250.500	269.500	9.525	610	0.400	21.80	177.80
ICA0295XV	295.000	285.500	304.500	9.525	530	0.480	23.30	202.70
ICA0395XV	395.000	385.500	404.500	9.525	400	0.620	27.00	273.90
ICA0520XV	520.000	510.500	529.500	9.525	300	0.820	31.20	362.40
ICA0690XV	690.000	680.500	699.500	9.525	220	1.100	36.00	483.10
ICA0720XV	720.000	710.500	729.500	9.525	210	1.150	36.80	504.40
ICA0722XV	722.000	712.500	731.500	9.525	210	1.160	36.90	505.80
ICA0875XV	875.000	865.500	884.500	9.525	180	1.400	40.60	614.50
ICA0880XV	880.000	870.500	889.500	9.525	180	1.410	40.70	618.00
ICA1090XV	1090.000	1080.500	1099.500	9.525	140	1.740	45.40	767.00
ICA1230XV	1230.000	1220.500	1239.500	9.525	130	1.970	48.20	866.00
ICA1410XV	1410.000	1400.500	1419.500	9.525	110	2.260	51.60	994.00

R = RUNNING CIRCLE
DIAMETER



UNASIS Thin Section Roller Bearings

UNASIS split thin section roller bearings consist of cylindrical rollers arranged to form either a cross roller type or an angular roller type.

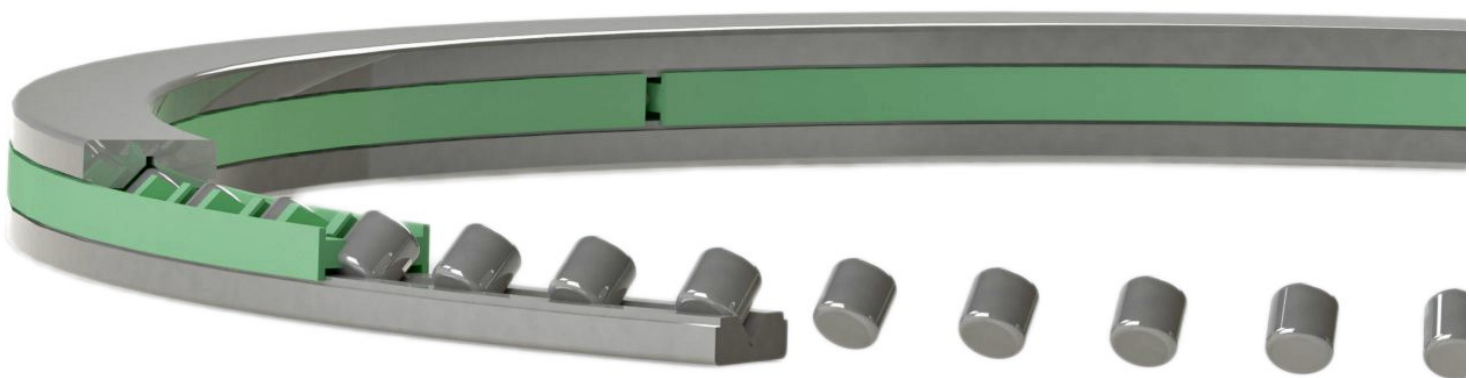
The split cross roller bearings see the rollers arranged alternately at 90° angles to each other to produce a four point contact arrangement in a roller bearing. The load is shared across both roller faces to further increase not only capacity but also rigidity within the bearing assembly. The rollers can be alternatively arranged on the same 90° axis to provide an angular contact style roller bearing arrangement.

UNASIS split thin section roller bearings utilise the same split ring design as the ball bearings. This non Conrad assembly method again allows the closer pitch spacing of the rolling elements giving a greater compliment of rollers in this unique bearing shape.

The bearing rings are machined at the ends of the races on both inner and outer ring to provide a profile for the cage to be guided in. The cage is alternately designed to have a T shape at each end which creates a natural labyrinth that seals and protects against the ingress of contamination which could lead to premature bearing failure. It also helps contain the lubrication within the assembly.

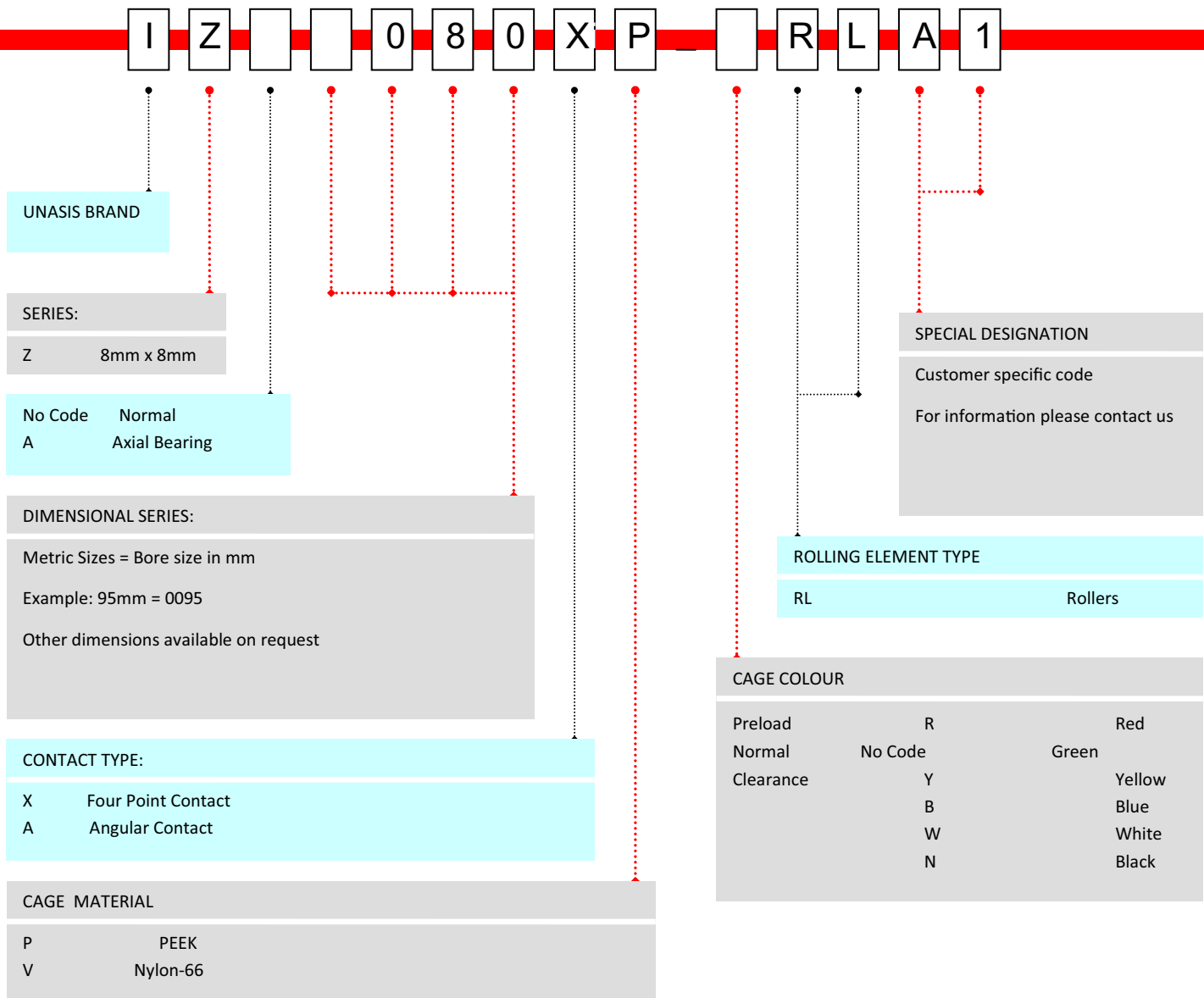
The maximum number of rollers is used in each bearing; therefore the elastic deformation of a cross roller bearing is very small resulting in a very stiff and rigid arrangement once in application. This stiffness can be controlled by roller size selection which would either increase preload or clearance depending on the application requirements.

This versatility means the UNASIS thin section roller bearings can be tailored to each application individually.

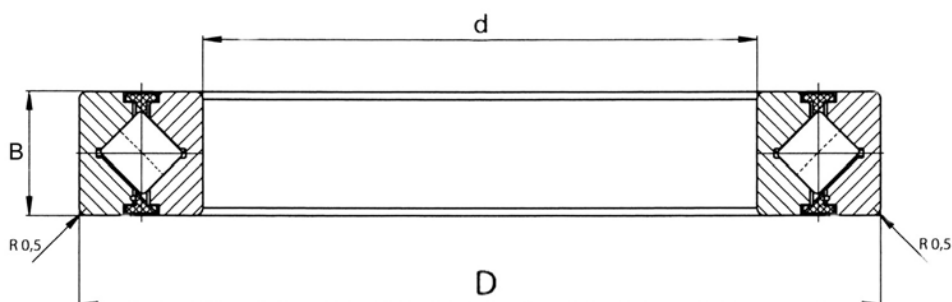
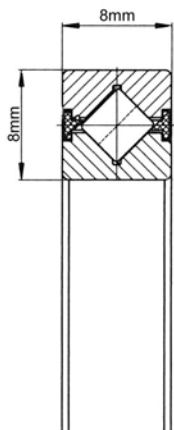


UNASIS Thin Section Roller Bearings

Product Part Numbering System



The IZ****XV-RL Standard Range

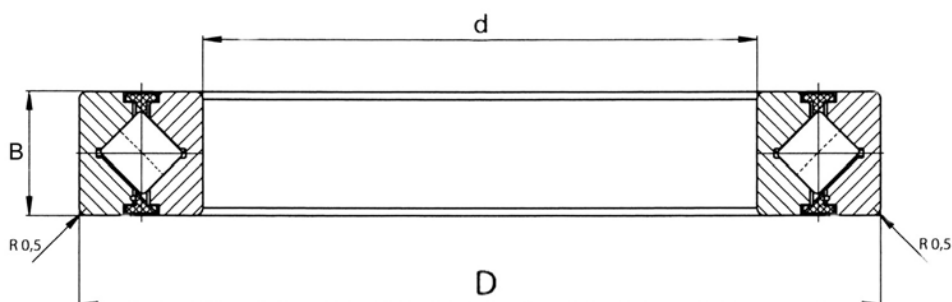
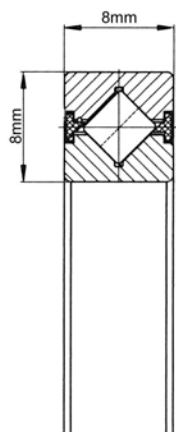


Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial		Radial	
					Dynamic	Static	Dynamic	Static
IZ0080XV-RL	80	96	8	0.11	6.00	30.00	4.30	12.00
IZ0090XV-RL	90	106	8	0.12	6.40	33.00	4.50	13.30
IZ0100XV-RL	100	116	8	0.13	6.90	38.00	4.90	15.10
IZ0110XV-RL	110	126	8	0.14	7.20	41.00	5.10	16.40
IZ0120XV-RL	120	136	8	0.16	7.60	45.50	5.40	18.20
IZ0130XV-RL	130	146	8	0.17	7.90	48.50	5.60	19.50
IZ0140XV-RL	140	156	8	0.18	8.10	52.00	5.80	20.70
IZ0150XV-RL	150	166	8	0.20	8.50	56.00	6.10	22.60
IZ0160XV-RL	160	176	8	0.21	8.70	60.00	6.20	23.80
IZ0170XV-RL	170	186	8	0.22	9.00	63.00	6.40	25.00
IZ0180XV-RL	180	196	8	0.23	9.30	67.00	6.60	27.00
IZ0190XV-RL	190	206	8	0.25	9.50	70.00	6.80	28.00
IZ0200XV-RL	200	216	8	0.26	9.70	74.00	6.80	29.50
IZ0210XV-RL	210	226	8	0.27	10.10	78.00	7.20	31.50
IZ0220XV-RL	220	236	8	0.29	10.30	81.00	7.30	32.50
IZ0230XV-RL	230	246	8	0.30	10.50	84.00	7.40	34.00
IZ0240XV-RL	240	256	8	0.31	10.80	89.00	7.70	35.50
IZ0250XV-RL	250	266	8	0.33	11.00	92.00	7.80	37.00
IZ0260XV-RL	260	276	8	0.35	11.20	95.00	7.90	38.00
IZ0270XV-RL	270	286	8	0.37	11.50	100.00	8.10	40.00
IZ0280XV-RL	280	296	8	0.39	11.60	103.00	8.90	41.00
IZ0290XV-RL	290	306	8	0.41	11.80	106.00	8.40	42.50
IZ0300XV-RL	300	316	8	0.43	12.10	111.00	8.60	44.50
IZ0310XV-RL	310	326	8	0.45	12.30	114.00	8.70	45.50
IZ0320XV-RL	320	336	8	0.47	12.40	117.00	8.80	47.00
IZ0330XV-RL	330	346	8	0.49	12.70	122.00	9.00	48.50

UNASIS Thin Section Roller Bearings

Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial		Radial	
					Dynamic	Static	Dynamic	Static
IZ0340XV-RL	340	356	8	0.50	12.90	125.00	9.10	50.00
IZ0350XV-RL	350	366	8	0.52	13.00	128.00	9.20	51.00
IZ0360XV-RL	360	376	8	0.53	13.20	133.00	9.40	53.00
IZ0370XV-RL	370	386	8	0.55	13.40	136.00	9.50	54.00
IZ0380XV-RL	380	396	8	0.56	13.50	139.00	9.60	56.00
IZ0390XV-RL	390	406	8	0.58	13.90	144.00	9.80	57.00
IZ0400XV-RL	400	416	8	0.59	14.00	147.00	9.90	59.00
IZ0410XV-RL	410	426	8	0.61	14.10	150.00	10.00	60.00
IZ0420XV-RL	420	436	8	0.62	14.40	154.00	10.20	62.00
IZ0430XV-RL	430	446	8	0.64	14.50	157.00	10.30	63.00
IZ0440XV-RL	440	456	8	0.65	14.80	162.00	10.50	65.00
IZ0450XV-RL	450	466	8	0.67	14.90	165.00	10.60	66.00
IZ0460XV-RL	460	476	8	0.68	15.10	168.00	10.70	67.00
IZ0470XV-RL	470	486	8	0.70	15.30	173.00	10.90	69.00
IZ0480XV-RL	480	496	8	0.71	15.40	176.00	10.90	70.00
IZ0490XV-RL	490	506	8	0.73	15.60	179.00	11.00	72.00
IZ0500XV-RL	500	516	8	0.74	15.80	184.00	11.20	74.00

The IZ****AV-RL Standard Range

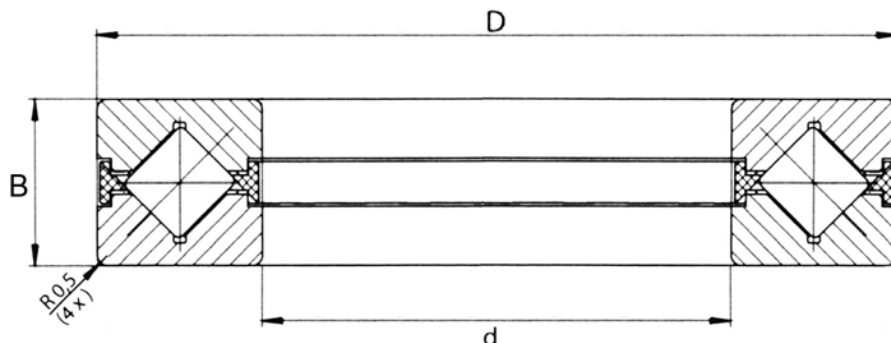
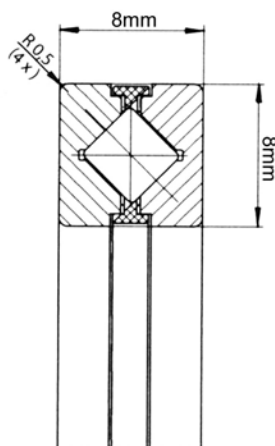


Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial		Radial	
					Dynamic	Static	Dynamic	Static
IZ0080AV-RL	80	96	8	0.11	10.10	60.00	4.30	12.00
IZ0090AV-RL	90	106	8	0.12	10.80	66.00	4.50	13.30
IZ0100AV-RL	100	116	8	0.13	11.70	76.00	4.90	15.10
IZ0110AV-RL	110	126	8	0.14	12.20	85.00	5.10	16.40
IZ0120AV-RL	120	136	8	0.16	12.80	91.00	5.40	18.20
IZ0130AV-RL	130	146	8	0.17	13.40	97.00	5.60	19.50
IZ0140AV-RL	140	156	8	0.18	13.70	104.00	5.80	20.70
IZ0150AV-RL	150	166	8	0.20	14.40	112.00	6.10	22.60
IZ0160AV-RL	160	176	8	0.21	14.70	120.00	6.20	23.80
IZ0170AV-RL	170	186	8	0.22	15.20	126.00	6.40	25.00
IZ0180AV-RL	180	196	8	0.23	15.70	134.00	6.60	27.00
IZ0190AV-RL	190	206	8	0.25	16.10	140.00	6.80	28.00
IZ0200AV-RL	200	216	8	0.26	16.40	148.00	6.80	29.50
IZ0210AV-RL	210	226	8	0.27	17.10	156.00	7.20	31.50
IZ0220AV-RL	220	236	8	0.29	17.40	162.00	7.30	32.50
IZ0230AV-RL	230	246	8	0.30	17.70	168.00	7.40	34.00
IZ0240AV-RL	240	256	8	0.31	18.30	178.00	7.70	35.50
IZ0250AV-RL	250	266	8	0.33	18.60	184.00	7.80	37.00
IZ0260AV-RL	260	276	8	0.35	18.90	190.00	7.90	38.00
IZ0270AV-RL	270	286	8	0.37	19.40	200.00	8.10	40.00
IZ0280AV-RL	280	296	8	0.39	19.60	206.00	8.90	41.00
IZ0290AV-RL	290	306	8	0.41	19.90	212.00	8.40	42.50
IZ0300AV-RL	300	316	8	0.43	20.40	222.00	8.60	44.50
IZ0310AV-RL	310	326	8	0.45	20.80	228.00	8.70	45.50
IZ0320AV-RL	320	336	8	0.47	21.00	234.00	8.80	47.00
IZ0330AV-RL	330	346	8	0.49	21.50	244.00	9.00	48.50

UNASIS Thin Section Roller Bearings

Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial		Radial	
					Dynamic	Static	Dynamic	Static
IZ0340AV-RL	340	356	8	0.50	21.80	250.00	9.10	50.00
IZ0350AV-RL	350	366	8	0.52	22.00	256.00	9.20	51.00
IZ0360AV-RL	360	376	8	0.53	22.20	266.00	9.40	53.00
IZ0370AV-RL	370	386	8	0.55	22.60	272.00	9.50	54.00
IZ0380AV-RL	380	396	8	0.56	22.80	278.00	9.60	56.00
IZ0390AV-RL	390	406	8	0.58	23.50	288.00	9.80	57.00
IZ0400AV-RL	400	416	8	0.59	23.70	294.00	9.90	59.00
IZ0410AV-RL	410	426	8	0.61	23.80	300.00	10.00	60.00
IZ0420AV-RL	420	436	8	0.62	24.30	308.00	10.20	62.00
IZ0430AV-RL	430	446	8	0.64	24.50	314.00	10.30	63.00
IZ0440AV-RL	440	456	8	0.65	25.00	324.00	10.50	65.00
IZ0450AV-RL	450	466	8	0.67	25.20	330.00	10.60	66.00
IZ0460AV-RL	460	476	8	0.68	25.50	336.00	10.70	67.00
IZ0470AV-RL	470	486	8	0.70	25.90	346.00	10.90	69.00
IZ0480AV-RL	480	496	8	0.71	26.00	352.00	10.90	70.00
IZ0490AV-RL	490	506	8	0.73	26.40	358.00	11.00	72.00
IZ0500AV-RL	500	516	8	0.74	26.70	368.00	11.20	74.00

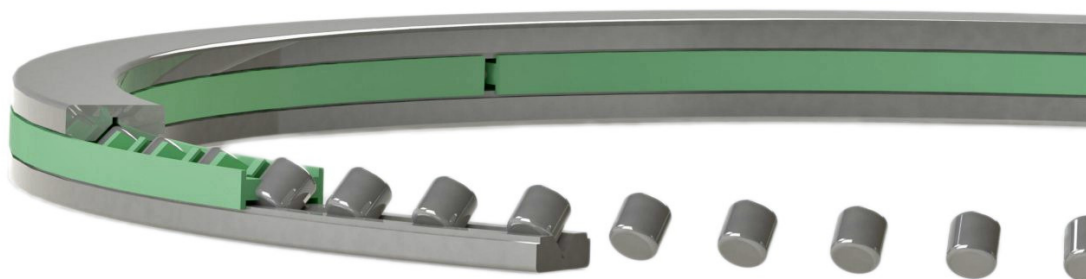
The IZA****AV-RL Standard Range



Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial		Radial	
					Dynamic	Static	Dynamic	Static
IZA0150AV-RL	150	166	8	0.20	14.40	112.00	6.10	22.60
IZA0160AV-RL	160	176	8	0.21	14.70	120.00	6.20	23.80
IZA0170AV-RL	170	186	8	0.22	15.20	126.00	6.40	25.00
IZA0180AV-RL	180	196	8	0.23	15.70	134.00	6.60	27.00
IZA0190AV-RL	190	206	8	0.25	16.10	140.00	6.80	28.00
IZA0200AV-RL	200	216	8	0.26	16.40	148.00	6.80	29.50
IZA0210AV-RL	210	226	8	0.27	17.10	156.00	7.20	31.50
IZA0220AV-RL	220	236	8	0.29	17.40	162.00	7.30	32.50
IZA0230AV-RL	230	246	8	0.30	17.70	168.00	7.40	34.00
IZA0240AV-RL	240	256	8	0.31	18.30	178.00	7.70	35.50
IZA0250AV-RL	250	266	8	0.33	18.60	184.00	7.80	37.00
IZA0260AV-RL	260	276	8	0.35	18.90	190.00	7.90	38.00
IZA0270AV-RL	270	286	8	0.37	19.40	200.00	8.10	40.00
IZA0280AV-RL	280	296	8	0.39	19.60	206.00	8.90	41.00
IZA0290AV-RL	290	306	8	0.41	19.90	212.00	8.40	42.50
IZA0300AV-RL	300	316	8	0.43	20.40	222.00	8.60	44.50
IZA0310AV-RL	310	326	8	0.45	20.80	228.00	8.70	45.50
IZA0320AV-RL	320	336	8	0.47	21.00	234.00	8.80	47.00
IZA0330AV-RL	330	346	8	0.49	21.50	244.00	9.00	48.50
IZA0340AV-RL	340	356	8	0.50	21.80	250.00	9.10	50.00
IZA0350AV-RL	350	366	8	0.52	22.00	256.00	9.20	51.00
IZA0360AV-RL	360	376	8	0.53	22.20	266.00	9.40	53.00
IZA0370AV-RL	370	386	8	0.55	22.60	272.00	9.50	54.00
IZA0380AV-RL	380	396	8	0.56	22.80	278.00	9.60	56.00
IZA0390AV-RL	390	406	8	0.58	23.50	288.00	9.80	57.00
IZA0400AV-RL	400	416	8	0.59	23.70	294.00	9.90	59.00

UNASIS Thin Section Roller Bearings

Part Number	Dimensions (mm)			Mass (kg)	Basic Load Ratings (kN)			
	d	D	b		Axial Dynamic	Static	Radial Dynamic	Static
IZA0410AV-RL	410	426	8	0.61	23.80	300.00	10.00	60.00
IZA0420AV-RL	420	436	8	0.62	24.30	308.00	10.20	62.00
IZA0430AV-RL	430	446	8	0.64	24.50	314.00	10.30	63.00
IZA0440AV-RL	440	456	8	0.65	25.00	324.00	10.50	65.00
IZA0450AV-RL	450	466	8	0.67	25.20	330.00	10.60	66.00
IZA0460AV-RL	460	476	8	0.68	25.50	336.00	10.70	67.00
IZA0470AV-RL	470	486	8	0.70	25.90	346.00	10.90	69.00
IZA0480AV-RL	480	496	8	0.71	26.00	352.00	10.90	70.00
IZA0490AV-RL	490	506	8	0.73	26.40	358.00	11.00	72.00
IZA0500AV-RL	500	516	8	0.74	26.70	368.00	11.20	74.00



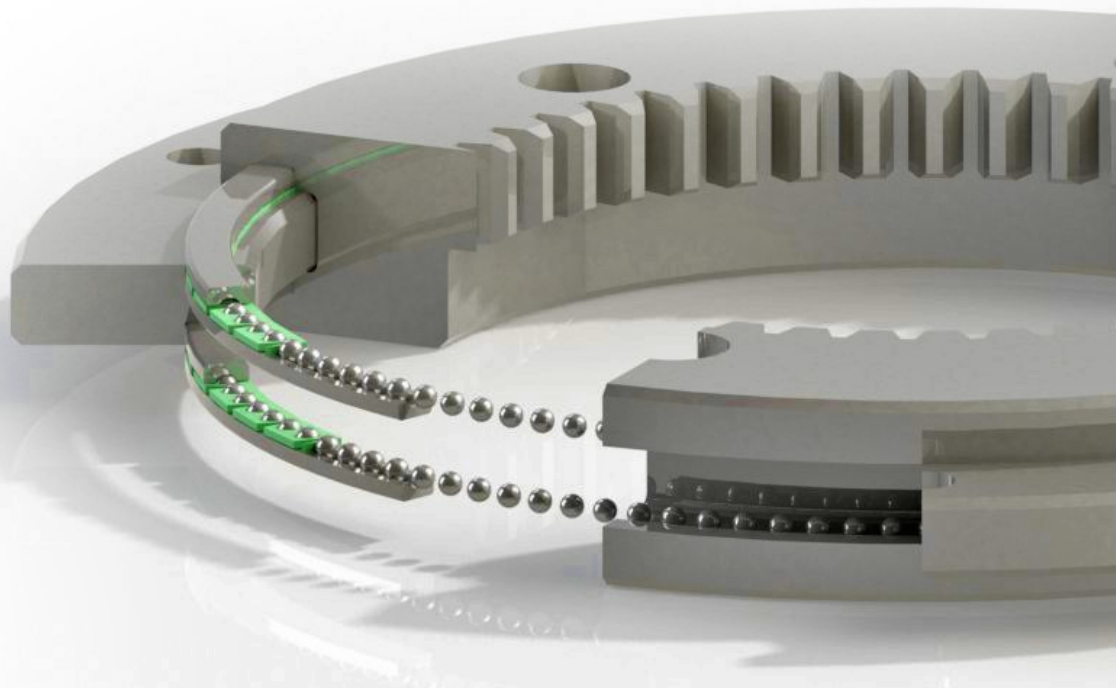
UNASIS Slewing Bearings

Due to the increase in the automated industry there is now a high demand for space-saving and weight saving bearing solutions. The UNASIS thin section bearing ranges help to service this market but in order to further simplify the process we have introduced a range of lightweight, pre-greased, ready to assemble bearing units. Both easy to mount and easy to maintain the IKT and IPT bearings are able to be mounted via inner or outer ring.

Comprising of either two four point contact ball bearings or a single cross roller bearing the IKT and IPT are able to withstand axial loads, radial loads, and moment loads with out issues. UNASIS Slewing bearings are available ungeared, internally geared or externally geared to suit your application.

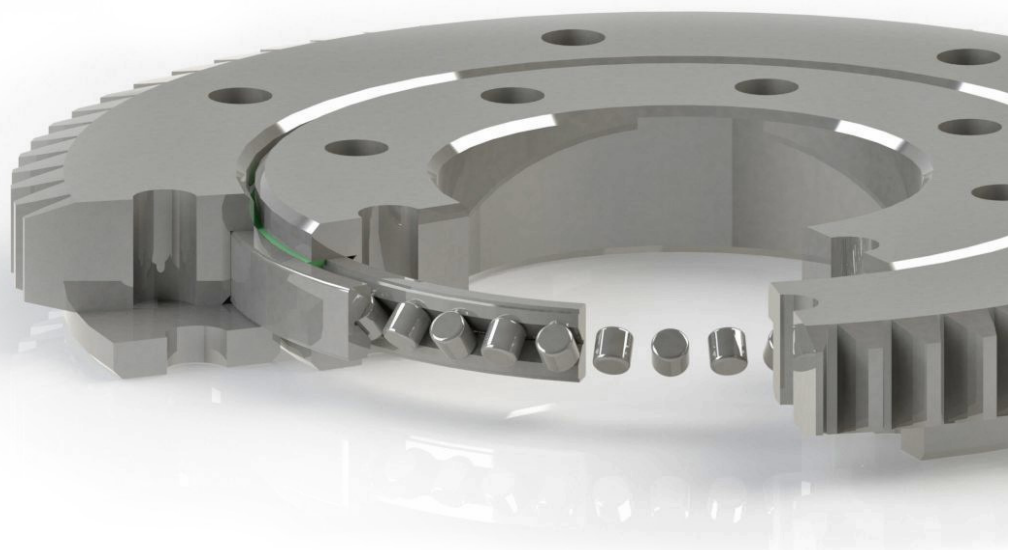
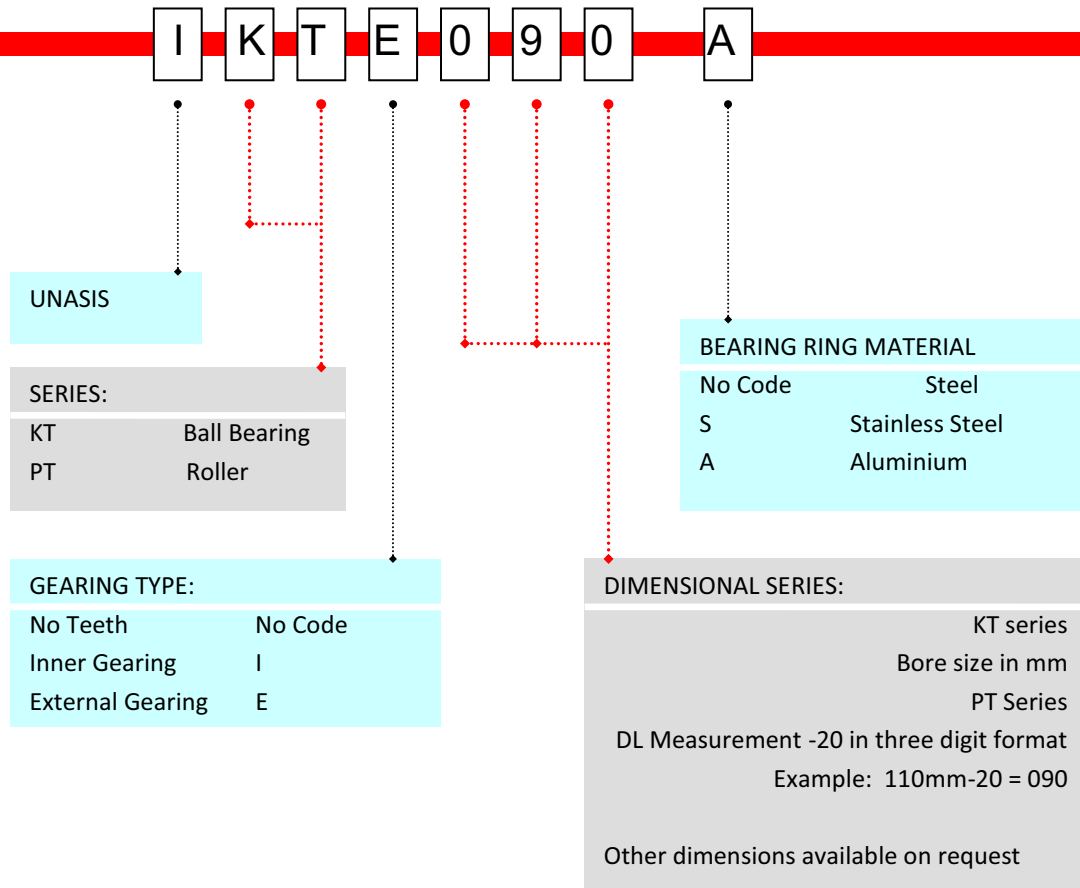
The IKT and IPT housings are available in various materials and gearing arrangements depending on your requirements. They are available in standard Steel, Stainless Steel and Aluminium all of which are available ungeared, internally geared or externally geared to suit your application.

All types of configurations are available on short lead times.

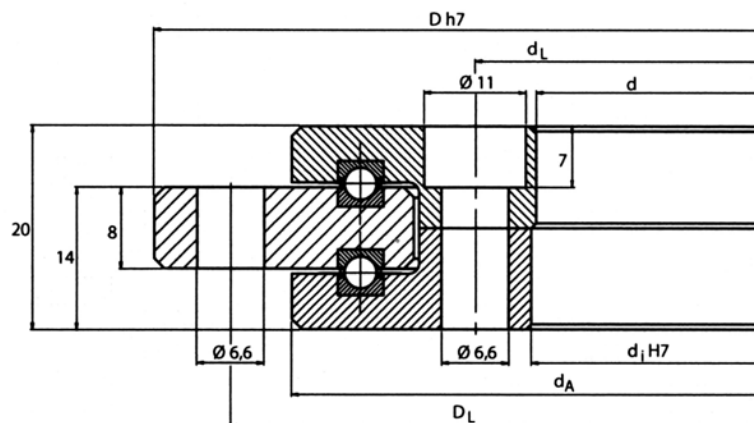


UNASIS Slewing Bearings

Product Part Numbering System



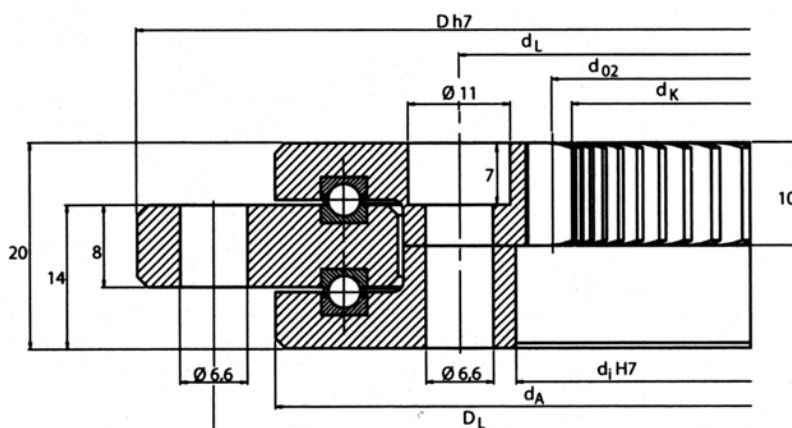
The IKT*** Standard Range



Part Number	Dimensions (mm)						Number of bores	Mass (kg)		Basic Load Ratings (kN)			
	d	d _i	d _A	d _L	D	D _L		Steel	Aluminium	Axial		Radial	
IKT100	100	101	148	115	175	160	6	1.7	0.70	Dynamic	Static	Dynamic	Static
IKT150	150	151	198	165	225	210	8	2.3	1.00	7.4	67.0	6.7	26.8
IKT200	200	201	248	215	275	260	10	3	1.20	8.0	85.0	7.3	34.0
IKT250	250	251	298	265	325	310	12	3.6	1.50	8.6	104.0	7.8	41.4
IKT300	300	301	348	315	375	360	16	4.2	1.80	9.3	122.0	8.3	48.8
IKT350	350	351	398	365	425	410	18	4.9	2.10	9.8	140.0	8.8	56.0
IKT400	400	401	448	415	475	460	20	5.5	2.30	10.1	160.0	9.1	64.0
IKT450	450	451	498	465	525	510	24	6.1	2.60	10.6	178.0	9.6	71.0

UNASIS Slewing Bearings

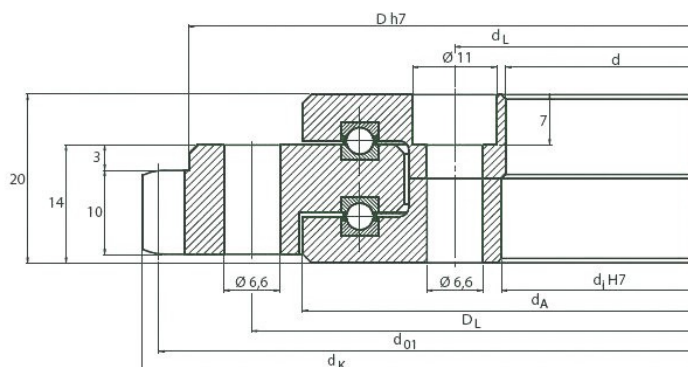
The IKTI*** Standard Range



Part Number								Basic Load Ratings (kN)					
	Dimensions (mm)						Number of bores	Mass (kg)		Axial		Radial	
	d	d _i	d _A	d _L	D	D _L		Steel	Aluminium	Dynamic	Static	Dynamic	Static
IKTI100	100	101	148	115	175	160	6	1.80	0.80	6.5	48.2	5.9	19.2
IKTI150	150	151	198	165	225	210	8	2.40	1.10	7.4	67.0	6.7	26.8
IKTI200	200	201	248	215	275	260	10	3.10	1.30	8.0	85.0	7.3	34.0
IKTI250	250	251	298	265	325	310	12	3.70	1.60	8.6	104.0	7.8	41.4
IKTI300	300	301	348	315	375	360	16	4.30	1.90	9.3	122.0	8.3	48.8
IKTI350	350	351	398	365	425	410	18	5.00	2.20	9.8	140.0	8.8	56.0
IKTI400	400	401	448	415	475	460	20	5.60	2.40	10.1	160.0	9.1	64.0
IKTI450	450	451	498	465	525	510	24	6.20	2.70	10.6	178.0	9.6	71.0

Part Number	Pitch Circle Diameter	Number of Teeth	Tip Circle Diameter	Module	Maximum Permissible Tooth Force (N)					
					Mass (kg)		Steel		Aluminium	
	d ₀₂	Z	d _K	mm	Steel	Aluminium	F _z norm	F _z max	F _z norm	F _z max
IKT1100	94	47	90	2	1.80	0.80	935.00	2040.00	680.00	1885.00
IKT1150	144	72	140	2	2.40	1.10	950.00	2080.00	695.00	1915.00
IKT1200	194	97	190	2	3.10	1.30	970.00	2115.00	705.00	1950.00
IKT1250	244	122	240	2	3.70	1.60	985.00	2140.00	715.00	1980.00
IKT1300	294	147	290	2	4.30	1.90	1000.00	2180.00	730.00	2015.00
IKT1350	344	172	340	2	5.00	2.20	1020.00	2220.00	740.00	2050.00
IKT1400	394	197	390	2	5.60	2.40	1040.00	2260.00	755.00	2090.00
IKT1450	444	222	440	2	6.20	2.70	1055.00	2300.00	765.00	2120.00

The IKTE*** Standard Range

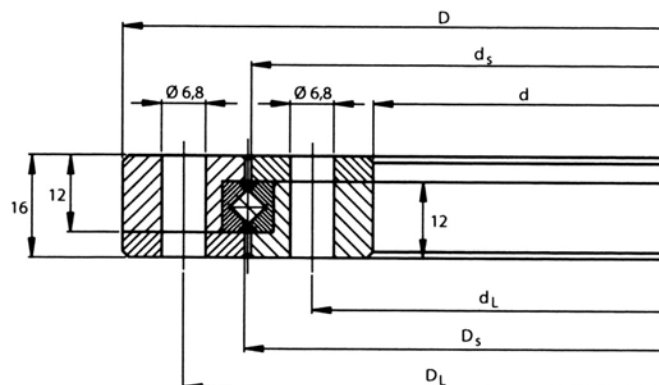


Part Number	Dimensions (mm)						Number of bores	Mass (kg)		Basic Load Ratings (kN)			
	d	d _i	d _A	d _L	D	D _L		Steel	Aluminium	Axial		Radial	
										Dynamic	Static	Dynamic	Static
IKTE100	100	101	148	115	175	160	6	2.30	0.90	6.5	48.2	5.9	19.2
IKTE150	150	151	198	165	225	210	8	2.90	1.20	7.4	67.0	6.7	26.8
IKTE200	200	201	248	215	275	260	10	3.60	1.40	8.0	85.0	7.3	34.0
IKTE250	250	251	298	265	325	310	12	4.20	1.70	8.6	104.0	7.8	41.4
IKTE300	300	301	348	315	375	360	16	4.85	2.00	9.3	122.0	8.3	48.8
IKTE350	350	351	398	365	425	410	18	5.49	2.30	9.8	140.0	8.8	56.0
IKTE400	400	401	448	415	475	460	20	6.13	2.50	10.1	160.0	9.1	64.0
IKTE450	450	451	498	465	525	510	24	6.77	2.80	10.6	178.0	9.6	71.0

Part Number	Pitch Circle Diameter	Number of Teeth	Tip Circle Diameter	Module	Mass (kg)		Maximum Permissible Tooth Force (N)			
	d ₀₂		d _K		Steel	Aluminium	Steel		Aluminium	
		Z		mm			Fz norm	Fz max	Fz norm	Fz max
IKTE100	182	91	186	2	2.30	0.90	1000.00	2180.00	730.00	2015.00
IKTE150	232	116	236	2	2.90	1.20	1010.00	2200.00	735.00	2030.00
IKTE200	282	141	286	2	3.60	1.40	1015.00	2210.00	740.00	2040.00
IKTE250	332	166	336	2	4.20	1.70	1025.00	2230.00	745.00	2060.00
IKTE300	382	191	386	2	4.85	2.00	1035.00	2255.00	750.00	2080.00
IKTE350	432	216	436	2	5.49	2.30	1045.00	2275.00	760.00	2100.00
IKTE400	482	241	486	2	6.13	2.50	1050.00	2285.00	765.00	2110.00
IKTE450	532	266	536	2	6.77	2.80	1060.00	2310.00	770.00	2130.00

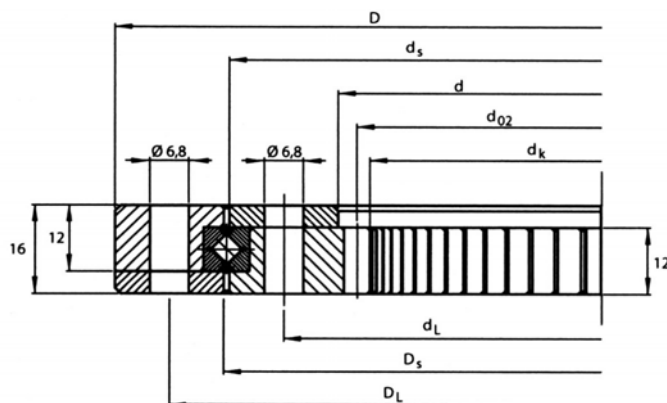
UNASIS Slewing Bearings

The IPT*** Standard Range



Part Number	Dimensions (mm)						Number of bores		Mass (kg)	Basic Load Ratings (kN)			
	d	D	d _s	D _s	d _L	D _L	Inner Ring	Outer Ring		Axial		Radial	
							S _z	S _z		Dynamic	Static	Dynamic	Static
IPT090	51	129	89	91	70	110	8x45°	8x45°	1.35	6.1	30.0	4.3	12.0
IPT100	61	139	99	101	80	120	8x45°	8x45°	1.50	6.4	33.0	4.5	13.3
IPT110	71	149	109	111	90	130	8x45°	8x45°	1.65	6.9	38.0	4.9	15.1
IPT120	81	159	119	121	100	140	8x45°	8x45°	1.80	7.2	41.0	5.1	16.4
IPT130	91	169	129	131	110	150	8x45°	8x45°	1.95	7.6	45.5	5.4	18.2
IPT140	101	179	139	141	120	160	8x45°	8x45°	2.10	7.9	48.5	5.6	19.5
IPT150	111	189	149	151	130	170	8x45°	8x45°	2.25	8.3	52.0	5.8	20.7
IPT160	121	199	159	161	140	180	8x45°	8x45°	2.40	8.5	56.0	6.1	22.6
IPT170	131	209	169	171	150	190	8x45°	10x36°	2.55	8.7	60.0	6.2	23.8
IPT180	141	219	179	181	160	200	8x45°	10x36°	2.70	9.0	63.0	6.4	25.0
IPT190	151	229	189	191	170	210	8x45°	10x36°	2.85	9.3	67.0	6.6	27.0
IPT200	161	239	199	201	180	220	8x45°	10x36°	3.00	9.5	70.0	6.8	28.0
IPT210	171	249	209	211	190	230	10x36°	10x36°	3.15	9.7	74.0	6.9	29.5
IPT220	181	259	219	221	200	240	10x36°	10x36°	3.30	10.1	78.0	7.2	31.5
IPT230	191	269	229	231	210	250	10x36°	10x36°	3.45	10.3	81.0	7.3	32.5
IPT240	201	279	239	241	220	260	10x36°	10x36°	3.60	10.5	84.0	7.4	34.0
IPT250	211	289	249	251	230	270	10x36°	10x36°	3.75	10.8	89.0	7.7	35.5
IPT260	221	299	259	261	240	280	10x36°	12x30°	3.90	11.0	92.0	7.8	37.0
IPT270	231	309	269	271	250	290	10x36°	12x30°	4.05	11.2	95.0	7.9	38.0
IPT280	241	319	279	281	260	300	10x36°	12x30°	4.20	11.5	100.0	8.1	40.0
IPT290	251	329	289	291	270	310	10x36°	12x30°	4.35	11.6	103.0	8.3	41.0
IPT300	261	339	299	301	280	320	12x30°	12x30°	4.50	11.8	106.0	8.4	42.5
IPT310	271	349	309	311	290	330	12x30°	12x30°	4.65	12.1	111.0	8.6	44.5
IPT320	281	359	319	321	300	340	12x30°	12x30°	4.80	12.3	114.0	8.7	45.5
IPT330	291	369	329	331	310	350	12x30°	12x30°	4.95	12.4	117.0	8.8	47.0

The IPTI*** Standard Range

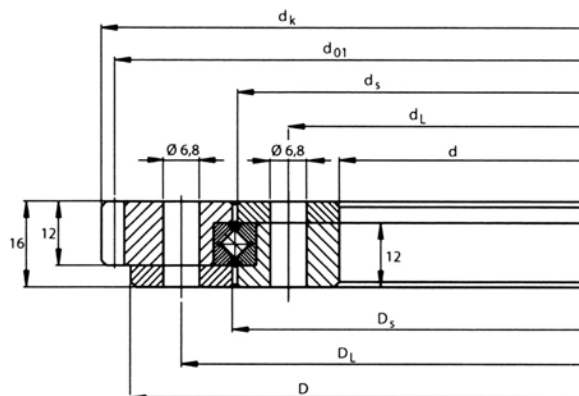


Part Number	Dimensions (mm)						Number of bores		Mass (kg)	Basic Load Ratings (kN)			
	d	D	d _s	D _s	d _L	D _L	Inner Ring S _z	Outer Ring S _z		Axial		Radial	
										Dynamic	Static	Dynamic	Static
IPTI090	51	129	89	91	70	110	8x45°	8x45°	1.35	6.1	30.0	4.3	12.0
IPTI100	61	139	99	101	80	120	8x45°	8x45°	1.50	6.4	33.0	4.5	13.3
IPTI110	71	149	109	111	90	130	8x45°	8x45°	1.65	6.9	38.0	4.9	15.1
IPTI120	81	159	119	121	100	140	8x45°	8x45°	1.80	7.2	41.0	5.1	16.4
IPTI130	91	169	129	131	110	150	8x45°	8x45°	1.95	7.6	45.5	5.4	18.2
IPTI140	101	179	139	141	120	160	8x45°	8x45°	2.10	7.9	48.5	5.6	19.5
IPTI150	111	189	149	151	130	170	8x45°	8x45°	2.25	8.3	52.0	5.8	20.7
IPTI160	121	199	159	161	140	180	8x45°	8x45°	2.40	8.5	56.0	6.1	22.6
IPTI170	131	209	169	171	150	190	8x45°	10x36°	2.55	8.7	60.0	6.2	23.8
IPTI180	141	219	179	181	160	200	8x45°	10x36°	2.70	9.0	63.0	6.4	25.0
IPTI190	151	229	189	191	170	210	8x45°	10x36°	2.85	9.3	67.0	6.6	27.0
IPTI200	161	239	199	201	180	220	8x45°	10x36°	3.00	9.5	70.0	6.8	28.0
IPTI210	171	249	209	211	190	230	10x36°	10x36°	3.15	9.7	74.0	6.9	29.5
IPTI220	181	259	219	221	200	240	10x36°	10x36°	3.30	10.1	78.0	7.2	31.5
IPTI230	191	269	229	231	210	250	10x36°	10x36°	3.45	10.3	81.0	7.3	32.5
IPTI240	201	279	239	241	220	260	10x36°	10x36°	3.60	10.5	84.0	7.4	34.0
IPTI250	211	289	249	251	230	270	10x36°	10x36°	3.75	10.8	89.0	7.7	35.5
IPTI260	221	299	259	261	240	280	10x36°	12x30°	3.90	11.0	92.0	7.8	37.0
IPTI270	231	309	269	271	250	290	10x36°	12x30°	4.05	11.2	95.0	7.9	38.0
IPTI280	241	319	279	281	260	300	10x36°	12x30°	4.20	11.5	100.0	8.1	40.0
IPTI290	251	329	289	291	270	310	10x36°	12x30°	4.35	11.6	103.0	8.3	41.0
IPTI300	261	339	299	301	280	320	12x30°	12x30°	4.50	11.8	106.0	8.4	42.5
IPTI310	271	349	309	311	290	330	12x30°	12x30°	4.65	12.1	111.0	8.6	44.5
IPTI320	281	359	319	321	300	340	12x30°	12x30°	4.80	12.3	114.0	8.7	45.5
IPTI330	291	369	329	331	310	350	12x30°	12x30°	4.95	12.4	117.0	8.8	47.0

UNASIS Slewing Bearings

Part Number	Pitch Circle Diameter	Number of Teeth	Tip Circle Diameter	Module	Maximum Permissible Tooth Force (N)	
	d ₀₂	Z	d _k	mm	F _z norm	F _z max
IPTI090	44	22	40	2	1005	2010
IPTI100	54	27	50	2	1020	2040
IPTI110	64	32	60	2	1035	2070
IPTI120	74	37	70	2	1050	2100
IPTI130	84	42	80	2	1065	2130
IPTI140	94	47	90	2	1080	2160
IPTI150	104	52	100	2	1095	2190
IPTI160	114	57	110	2	1110	2220
IPTI170	124	62	120	2	1125	2250
IPTI180	134	67	130	2	1140	2280
IPTI190	144	72	140	2	1155	2310
IPTI200	154	77	150	2	1170	2340
IPTI210	164	82	160	2	1185	2370
IPTI220	174	87	170	2	1200	2400
IPTI230	184	92	180	2	1215	2430
IPTI240	194	97	190	2	1230	2460
IPTI250	204	102	200	2	1245	2490
IPTI260	214	107	210	2	1260	2520
IPTI270	224	112	220	2	1275	2550
IPTI280	234	117	230	2	1290	2580
IPTI290	244	122	240	2	1305	2610
IPTI300	254	127	250	2	1320	2640
IPTI310	264	132	260	2	1335	2670
IPTI320	274	137	270	2	1350	2700
IPTI330	284	142	280	2	1365	2730

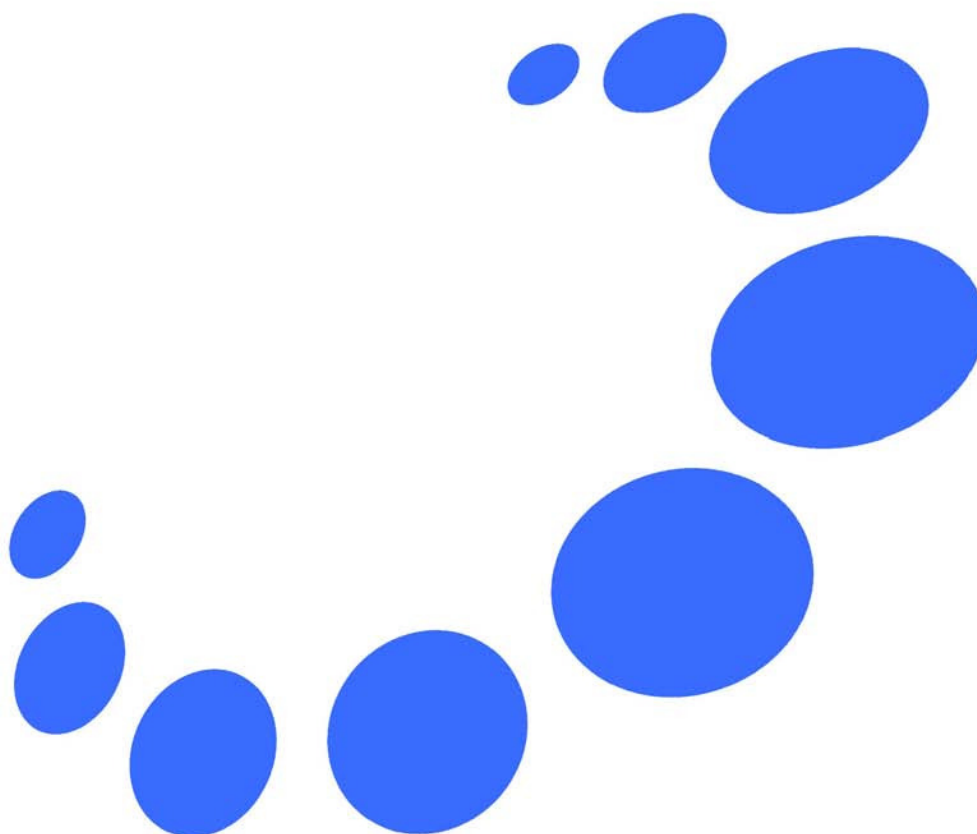
The IPTE*** Standard Range



Part Number	Dimensions (mm)						Number of bores		Mass (kg)	Basic Load Ratings (kN)			
	d	D	d _s	D _s	d _L	D _L	Inner Ring S _z	Outer Ring S _z		Axial Dynamic	Axial Static	Radial Dynamic	Radial Static
IPTE090	51	129	89	91	70	110	8x45°	8x45°	1.35	6.1	30.0	4.3	12.0
IPTE100	61	139	99	101	80	120	8x45°	8x45°	1.50	6.4	33.0	4.5	13.3
IPTE110	71	149	109	111	90	130	8x45°	8x45°	1.65	6.9	38.0	4.9	15.1
IPTE120	81	159	119	121	100	140	8x45°	8x45°	1.80	7.2	41.0	5.1	16.4
IPTE130	91	169	129	131	110	150	8x45°	8x45°	1.95	7.6	45.5	5.4	18.2
IPTE140	101	179	139	141	120	160	8x45°	8x45°	2.10	7.9	48.5	5.6	19.5
IPTE150	111	189	149	151	130	170	8x45°	8x45°	2.25	8.3	52.0	5.8	20.7
IPTE160	121	199	159	161	140	180	8x45°	8x45°	2.40	8.5	56.0	6.1	22.6
IPTE170	131	209	169	171	150	190	8x45°	10x36°	2.55	8.7	60.0	6.2	23.8
IPTE180	141	219	179	181	160	200	8x45°	10x36°	2.70	9.0	63.0	6.4	25.0
IPTE190	151	229	189	191	170	210	8x45°	10x36°	2.85	9.3	67.0	6.6	27.0
IPTE200	161	239	199	201	180	220	8x45°	10x36°	3.00	9.5	70.0	6.8	28.0
IPTE210	171	249	209	211	190	230	10x36°	10x36°	3.15	9.7	74.0	6.9	29.5
IPTE220	181	259	219	221	200	240	10x36°	10x36°	3.30	10.1	78.0	7.2	31.5
IPTE230	191	269	229	231	210	250	10x36°	10x36°	3.45	10.3	81.0	7.3	32.5
IPTE240	201	279	239	241	220	260	10x36°	10x36°	3.60	10.5	84.0	7.4	34.0
IPTE250	211	289	249	251	230	270	10x36°	10x36°	3.75	10.8	89.0	7.7	35.5
IPTE260	221	299	259	261	240	280	10x36°	12x30°	3.90	11.0	92.0	7.8	37.0
IPTE270	231	309	269	271	250	290	10x36°	12x30°	4.05	11.2	95.0	7.9	38.0
IPTE280	241	319	279	281	260	300	10x36°	12x30°	4.20	11.5	100.0	8.1	40.0
IPTE290	251	329	289	291	270	310	10x36°	12x30°	4.35	11.6	103.0	8.3	41.0
IPTE300	261	339	299	301	280	320	12x30°	12x30°	4.50	11.8	106.0	8.4	42.5
IPTE310	271	349	309	311	290	330	12x30°	12x30°	4.65	12.1	111.0	8.6	44.5
IPTE320	281	359	319	321	300	340	12x30°	12x30°	4.80	12.3	114.0	8.7	45.5
IPTE330	291	369	329	331	310	350	12x30°	12x30°	4.95	12.4	117.0	8.8	47.0

UNASIS Slewing Bearings

Part Number	Pitch Circle Diameter	Number of Teeth	Tip Circle Diameter	Module	Maximum Permissible Tooth Force (N)	
	d ₀₂	Z	d _k	mm	F _z norm	F _z max
IPTE090	136	68	140	2	1170	2340
IPTE100	146	73	150	2	1175	2350
IPTE110	156	78	160	2	1180	2360
IPTE120	166	83	170	2	1185	2370
IPTE130	176	88	180	2	1190	2380
IPTE140	186	93	190	2	1195	2390
IPTE150	196	98	200	2	1200	2400
IPTE160	206	103	210	2	1205	2410
IPTE170	216	108	220	2	1210	2420
IPTE180	226	113	230	2	1215	2430
IPTE190	236	118	240	2	1220	2440
IPTE200	246	123	250	2	1225	2450
IPTE210	256	128	260	2	1230	2460
IPTE220	266	133	270	2	1235	2470
IPTE230	276	138	280	2	1240	2480
IPTE240	286	143	290	2	1245	2490
IPTE250	296	148	300	2	1250	2500
IPTE260	306	153	310	2	1255	2510
IPTE270	316	158	320	2	1260	2520
IPTE280	326	163	330	2	1265	2530
IPTE290	336	168	340	2	1270	2540
IPTE300	346	173	350	2	1275	2550
IPTE310	356	178	360	2	1280	2560
IPTE320	366	183	370	2	1285	2570
IPTE330	376	188	380	2	1290	2580



This catalogue has been produced with a great amount of care and attention, all data has been checked for its accuracy. However, no liability can be assumed for any incorrect or incomplete data.

Due to the constant development and expansion of the product range, we reserve the right to make modifications without prior notice.

All rights reserved. Reproduction in whole or in part without authorization is prohibited.

