

**HVD Distributors Pvt. Ltd**







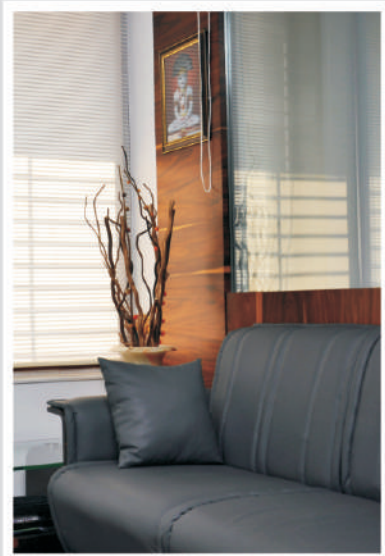
## About us

HVD Engineering LLP & HVD Distributors Pvt. Ltd specialise in the field of industrial bearings and are collaborating with one of the leading bearing manufacturers abroad. Mr. Vijay Dhami (CMD) is the founder of HVD Engineering LLP and HVD distributors Pvt Ltd, and has experience in this field for the past 30 years. Our existence in this field over the past 3 decades is due to our constant efforts in providing top quality products and efficient services by our dedicated team to the sole purpose of exceeding expectations of customers. HVD Distributors Pvt Ltd as an entity was founded in the year 2010 and HVD Engineering LLP was founded in 2016.

HVD Engineering LLP is a bearing manufacturing company partnered with Zhejiang XCC Group Co. Ltd. which produces and sells bearings internationally. HVD Engineering LLP also has its own brand of bearings under the name HVD. We also have a collaboration and have been manufacturing shafts under HVD brand. HVD Distributors Pvt. Ltd is a distribution house consisting agencies from well reputed companies. We take pride in dealing with products that have enabled us to aim higher with each passing year and improve our deliverables by working and partnering with firms internationally.

## Company Vision and Mission

Our existence over the past 30 years would not have been possible if we wouldn't aspire to be the best in the field and learning to tackle unexpected obstacles with our head held high. Dealing with unforeseen situations and challenging expectations seem impossible to deal without a passionate and hardworking team. HVD Group has been blessed to have a dedicated, well trained and experienced team in marketing, accounts and technical support that work tirelessly to meet industry expectations. Dealing with ever so challenging industries as Automotive, Pump, Automation, Machine tools, Packaging, Material Handling and so on, it requires constant support of our team members that has driven HVD Group to strive better in the coming years. We aim to reach out to the world and have the potential to work with clients national and internationally which is only possible when we deliver our services to esteemed customers while working towards surpassing their expectations.



## HVD BEARINGS

Deep groove ball bearings are bearing the most common type of bearing that is mainly used for pure radial loads, but also can stand radial load while small axial load. Deep groove ball bearing friction coefficient is small, but limiting speed is high. Deep groove ball bearing structure is simple, and manufacturing costs is low, widely used in transmission, instrumentation, motors, household electrical, internal combustion engines, transportation vehicles, agricultural machinery, construction machinery and engineering machinery.

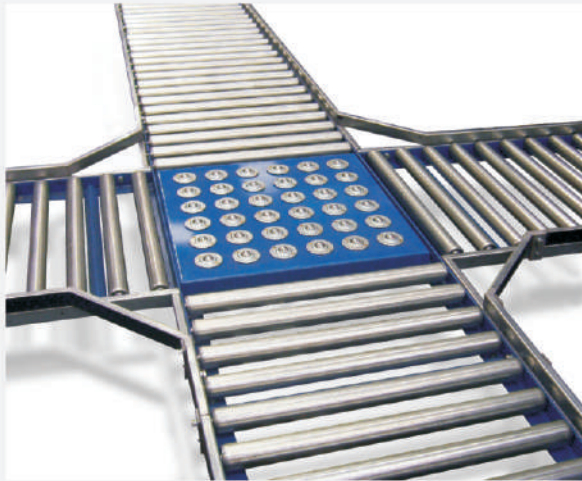


HVD spherical roller bearing consists of an outer ring with spherical raceway and an inner ring with double-raceway, one or two cages, and one group of spherical rollers. Due to the center of spherical raceway of outer ring which is coinciding with the center of bearing, this makes it have a self-aligning property. This kind of bearing can adjust angular error or deflection caused by the angle of the axle and bearing housing or axle bend. HVD spherical roller bearing has a high load carrying capacity for radial load and axle load in two directions.

HVD taper roller bearings have tapered cone and cup between which taper rollers are arranged. Taper roller bearings are separable Bearing cone (including roller, cage and inner ring) and cup (outer ring) can be separated, therefore, it can be easily assembled on the bearing journal. Taper roller bearings are able to accommodate radial loads, unidirectional axial loads and combined loads of radial and axial. The axial load carrying capacity of taper roller bearings is largely determined by the contact angle, which corresponds to the raceway angle of the cup, the large the contact angle, the higher the axial load carrying capacity







As an incredibly versatile product, Always Ball Transfer Units are used across a diverse range of applications and industries – from subsea to aerospace. By offering custom design to suit customer specifications, we are constantly discovering new and exciting uses for ball transfer units.

With the widest selection in the world and over 75 years' experience, Always ball transfers are used in applications throughout industry. Often called a ball roller or transfer bearing, applications include air cargo ball decks, materials handling ball tables, glass processing, assembly lines and machine tables.

- ◆ Flange fixing units
- ◆ Thread fixing units
- ◆ Clamp Fixing
- ◆ Misc Units
- ◆ Base Fixing Units
- ◆ Mini Units

## Always Float-On Castors

Always Engineering is the market leading manufacturer of Ball Transfer Units. Float-On ball castors are used by the largest glass and sheet material processors in the world.

### Features

- ◆ Smooth movement of sheet materials
- ◆ Ball materials do not damage glass
- ◆ For use in both wet and dry conditions

### Material options

- ◆ Bright Zinc Plate – suitable for most applications
- ◆ Stainless Steel INOX – for use in the most arduous of conditions

### Ball Options

Sizes:

- ◆ 35mm diameter
- ◆ 50mm diameter

### Materials

- ◆ Red Polyurethane – hard wearing option for heavier loads and more arduous conditions.
- ◆ Black Rubber – suitable for most other applications.

### Features

- ◆ Zero offset allows instant change of direction
- ◆ Ball materials do not damage glass
- ◆ Can operate up to +800C
- ◆ Ideal for dry applications

### Material options

- ◆ Bright Zinc Plate – suitable for most applications
- ◆ Stainless Steel INOX – for use in the most arduous of conditions

### Ball Options

Sizes:

- ◆ 19mm diameter
- ◆ 24.5mm diameter

### Materials

- ◆ White Nylon – for delicate or polished surfaces
- ◆ Black Phenolic – where a high Shore hardness is required



Always Ball Transfer Units can be found in cargo facilities around the world. Fitted on ball decks and dollies, thier units allow for smooth and easy manual movement of ULDs and heavy cargo.

They also manufacture ball units that are used extensively in baggage handling.

Setting the industry benchmark, Always ball transfer units are the go-to option for specifiers of ball decks. Always units are currently in use with numerous express couriers, and having undergone successful testing have also been installed by several military clients.

Units are available for the most arduous uses, with slotted bases to allow for escape of debris and the ability to handle the heaviest air cargo containers.





Colson China is part of Colson Group; the Colson Group is a famous group in casters wheels industry. Headquartered in Chicago, since 1885, the first high quality caster was made by Colson US in Ohio plant, companies continue to grow quickly in the past one hundred years. For now, there are 27 companies around of 15 countries in the world to provide customers more than 35000 kinds of high quality, suitable for industry, special industry and commercial use of casters, single wheels.

The headquarters of Colson China is located in Guangzhou, currently has three Plants of Colson Caster Guangzhou Ltd., Jarvis Caster Guangzhou Ltd., and Nantong Logic Wheel Ltd. in China. Since the first plant of Colson Caster Guangzhou Ltd. Was established in 1994, the company's business continues to grow, products are mainly sold to all over the United States, Europe, Southeast Asia and China. Colson China has obtained ISO9001:2000 certificate and ROHS certificate of UN, the quality of its products are all conformed to ISO and NSF standard.

## The solutions provider in casters and wheels

– Global leader offering the broadest product portfolio.

– A diverse and experienced global team of over 1,600 employees. – Solutions from 40 lbs. / 18kgs. to 100,000 lbs. / 45,000kgs., serving a vast range of heavy, medium, light duty and medical applications. – Privately held by Sentinel Capital Partners

## Differentiation and value-add

– Product Depth & Breadth. Value Creation. Global Manufacturing. Service Excellence.  
– The Globalleader In Casters And Wheels.

**Colson offers products in various brands.**



When you're facing a linear motion requirement - whether it's general machinery, optical equipment or high-precision measurement machines - NB has your solution. Our experts applied their decades of experience to designing and manufacturing award-winning linear rails, slides, bearings, and guides for a vast array of industry needs. To offer one of the best product ranges in the business, we combine compact size, high-load capacity, flexible mounting options and high resistance to demanding environments. Let NB be your partner for world-class linear guides and rails that unlock your maximum potential for efficiency and reliability.

## Choosing the Right Linear Motion Solution

Whatever your linear motion problem, we have the right solution. You may need extremely high precision or rigidity to adverse conditions. Or, maybe you're looking for a compact linear slide and guide system to reduce your machine size. Even if you need a combination all of these characteristics, we have you covered. Choose NB for:

- High load bearing capacity thanks to our multiple-point, omnidirectional ball bearing loading
- Compact block assemblies with low height and optional wide body mounting surfaces
- All-steel construction with various grades of stainless-steel and corrosion-resistant coatings
- A multitude of dust and high-temperature features for use in adverse conditions
- High-precision rail machining that limits friction provides long service life
- Retained, recirculating-ball options for easy installation
- Your choice of tapped or countersunk mounting holes to accommodate all of your devices

You can incorporate NB linear guides and rails in a variety of machines. Many of our linear slides and guides include permanent lubrication that increases the life of your system and reduces downtime. With NB, you can enjoy increased efficiency thanks to high linear transitions, high loads, extreme precision and limited maintenance.

The **NB SLIDE GUIDE** is a high-precision and high-rigidity linear guide designed to utilize the motion of rolling elements. They have numerous advantageous characteristics including low friction, no stick/slip, and smooth linear motion even under high load conditions. Since they can maintain their high-efficiency and high-functionality characteristics for an extended period of time, they meet a wide range of needs, from general industrial to precision machinery.



The **NB BALL SPLINE** is a linear motion mechanism utilizing the recirculating motion of ball elements. It can be used in a wide variety of applications including robotics and transport type equipment.

The **NB ROTARY BALL SPLINE** can be used for both rotational and linear motion. It can be used in SCARA robots, the vertical shaft of assembly equipment, and tool changers and loaders.

The **NB BALL SCREW SPLINE** combines ball screw and ball spline on a single shaft, allowing linear actuation, torque transfer, and rotational motion with a single compact assembly. It can be used in SCARA robots, the vertical shaft of assembly equipment, and tool changers and loaders.

The **NB SLIDE BUSH** is a Linear Ball Bushing utilizing the recirculating motion of ball elements. This consists of the outer cylinder and a ball retainer that guide the circulation of the ball elements, resulting in smooth linear motion. Moreover, NB SLIDE BUSH is fully compatible with a variety of Linear Shaft types. Pillow Block Units and Flanged Bushings provide excellent installation environments.

Used in a number of industrial fields, such as transportation equipment, food processing equipment and semiconductor equipment, NB SLIDE BUSH have been endorsed by many of our clients as "standard parts for linear motion".







Name "THK" stands for "Toughness," "High Quality," and "Know-how." We aim to contribute to the improvement of society and development of industry by focusing on these three principles in our technology development and product manufacturing processes. On this site, we will take the opportunity to introduce a variety of technologies and products that we have developed.

#### LM Guides

THK solved the problem, previously considered too difficult, of linear motion with rolling contact by applying its unique technological capabilities, and in 1972, it became the first company in the world to develop and commercialize the Linear Motion (LM) Guide. Our linear motion system enabled rapid improvements in the accuracy, speed and labor-saving potential of advanced mechatronic instruments. With THK's LM Guides, machine tools and industrial robots become capable of ultra-precise operations, and semiconductor-manufacturing devices can operate in submicron units. More recently, the system has been applied in liquid crystal manufacturing lines, railway carriages, assistive vehicles, medical equipment, skyscrapers and residences, and amusement devices. The use of LM Guides has truly expanded beyond all prior boundaries.



#### Linear Bush

The Linear Bush is a linear guide used in combination with a LM shaft that has a cylindrical shaft. This product makes linear movements with a minimum of frictional resistance to provide highly accurate and supple movement.



#### Ball Screw

The Ball Screw is a high-efficiency feed screw with the ball making a rolling motion between the screw axis and the nut. Compared with a conventional sliding screw, this product has drive torque of one-third or less, making it most suitable for saving drive motor power.



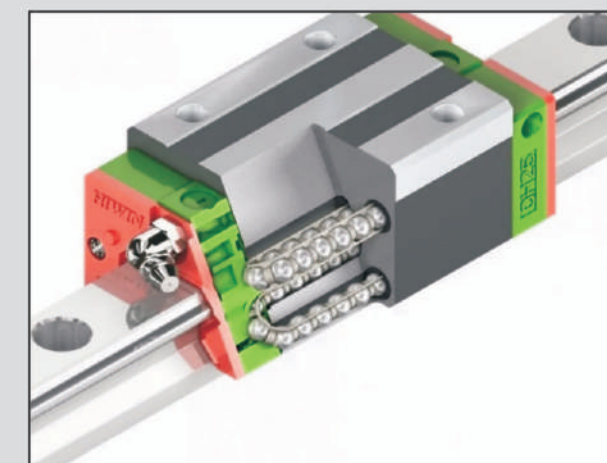
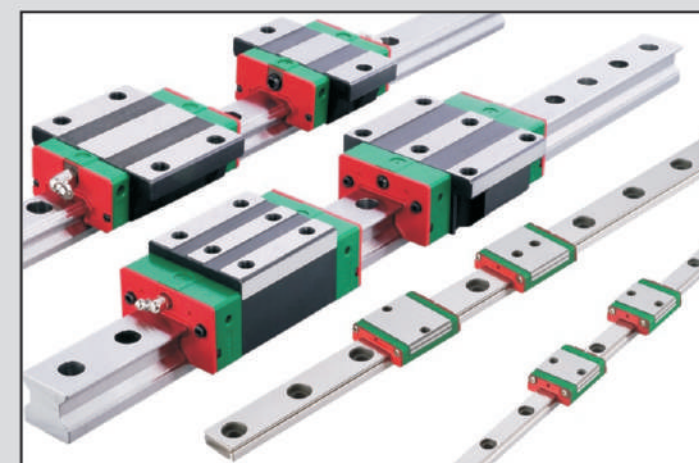
#### Link Ball

The Link Ball is a spherical slide bearing with a ball stud that provides smooth operation with a minimal clearance. With superb abrasion resistance and large oscillating angle, this product is suitable for the link motion mechanism of various types of automated machines.

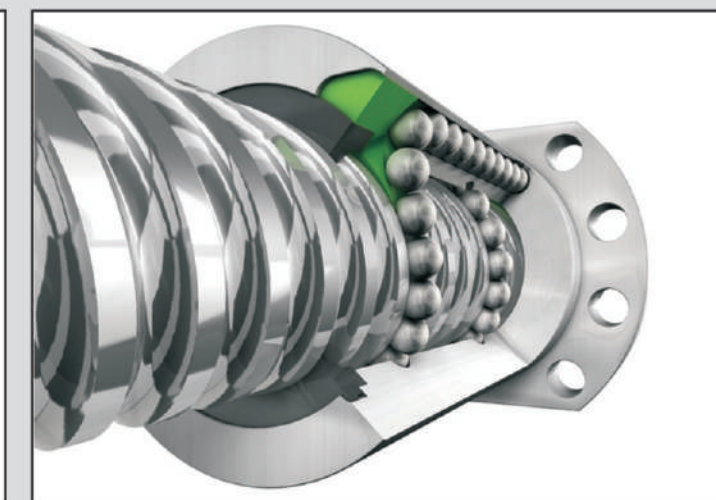


**Linear guideways** provide linear motion by re-circulating rolling elements between a profiled rail and a bearing block. The coefficient of friction on a linear guideway is only 1/50 compared to a traditional slide and they are able to take loads in all directions. With these features, a linear guideway can achieve high precision and greatly enhanced moving accuracy.

**Hiwin Corporation** offers multiple linear guideway series, each featuring different options for sizes, loading capabilities, accuracies, and more.



**Ballscrews** consist of a screw spindle and a nut integrated with rolling elements that cycle through a return mechanism. Ballscrews convert rotary motion into linear motion, and are most commonly used in industrial machinery and precision machines. Hiwin Corporation provides a wide range of ballscrew configurations to satisfy your special application requirements. Hiwin has the capability of producing JIS C0 class ground ballscrews, and DIN 5 class (up to 23 microns) for precision rolled ballscrews. Ballscrew O.D. ranging from 4mm to 120mm, and with Dm-N values up to 220,000.





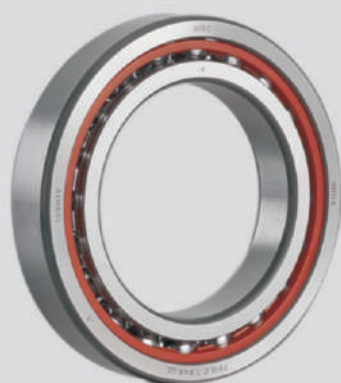
## SUPER PRECISION BEARINGS

NRB-IBC Bearings Pvt Ltd is a joint venture of NRB Industrial Bearings Ltd, India and IBC Wälzlager GmbH, Switzerland. IBC Wälzlager manufactures super precision bearings mainly for the aerospace and machine tool industries.

NIBC is the first and only manufacturer of precision bearings in India. We have a manufacturing plant in Shendra, Aurangabad and provide customers with application support, after sales support, faster delivery and competitive prices.

### SPINDLE BEARINGS (WITH STEEL & CERAMIC BALL)

- Precision class P4A
- Contact angle 15° & 25°
- Phenolic resin cages for Spindle Bearings
- Preload as per customer requirement (L,M,H)
- Availability as per your requirement in set of 2 bearings (DUL)  
3 bearings (TUL)  
4 bearings (QUL)
- Size range : 7003 - 7018  
7202 - 7215  
71904 - 71918
- Sealed Bearings available



### BALL SCREW SUPPORT BEARINGS

- Precision class P4A
- Contact angle 60°
- Polyamide cages for ball screw support bearings
- Preload as per customer requirement (L,M,H)
- Sealed Bearings available
- Availability as per your requirement in set of 2 bearings (DUL)  
3 bearings (TUL)  
4 bearings (QUL)  
5 bearings (PUL)
- Size range : BS17M47 - BS20M47, B25M52  
BS25M62 - BS30M62  
BS30M72 - BS35M72 - BS40M72  
BS40M90 - BS40M100 - BS50M100  
BS50M90 - BS45M100  
BS35M100



### CYLINDRICAL ROLLER BEARINGS

- Precision grade - SP (P5 class, C1 clearance)
- Taper bore (K) - 1:12
- Lubrication holes : W33 outer ring with mechanical lubrication groove and loop holes.
- Size range : NN/NNK : 3006 to 3016



### NRB-IBC Bearings Pvt Ltd

Dhannur, 2nd Floor, 15, Sir P.M Road, Fort, Mumbai 400001, India  
(022) 2270 4206 ; +919823137441; hemant.sapre@nibc.in

**PRECISION IN MOTION**

## SJS Slewing Bearings

SJS Four-point contact bearings introduces the new compact precision table "SJS Table Series", a rotary table bearing to provide high performance circular motion in as small a package as possible. SJS bearings are current available in sizes up to 300mm OD. The precision table consists of two through hardened or induction hardened, standard bearing steel races, a special polymer spacer and complement of super precision steel balls. The specially designed raceways increase load capacity and stiffness in moment loading while guaranteeing high precision long service lifetime and very low coefficient of friction. These bearings can also be supplied with specially designed spring steel seals depending upon application.



Sr. No.	Bearing No.	Bearing I.D. (mm)	Bearing O.D. (mm)	Bearing Width (mm)	PCD OUTER (mm)	PCD INNER (mm)	THREAD SIZE	Load Capacity	No. of Holes on		Bearing weight Kgs.
									Outer	Inner	
1	SJS 10	48	112	20.25	97	63	M6	1100	8	8	1
2	SJS 13	62	138	22	120	80	M8	2100	8	8	1.25
3	SJS 15	50.8	152	41.3	133.25	69.85	M10	3950	8	8	4.5
4	SJS 20	100	200	50	180	120	M10	6150	16	8	8
5	SJS 25	125	250	50	230	150	M12	8350	16	8	10
6	SJS 30	145	300	50	270	175	M16	10350	16	8	15
7	SJS 30 With GEAR	145	410	50	270	175	M16	10350	16	8	30

Load carrying capacity is certified by M/SGS (I) Pvt. Ltd (subsidiary of Societe Generale de Surveillance, Geneva, Switzerland - World leaders for verification, testing & certification for Turn Table Applications. Above bearings can also be used for Cantilever load applications.

For further details, please visit our website: "[www.hvddistributors.com](http://www.hvddistributors.com)"





## Shafts



We hereby introduce ourselves as Manufacturer-Suppliers of Chrome Plated Bars/ Rods with/without Induction Hardening from various materials - Stainless Steel AISI 440C, en 8, en 19, en 24, en 31, en 8 d grade, etc... We maintain tolerance as per customers requirement and also in g6, g 8, h7, h6 etc.

Hard Chrome bars are generally produced from steel bars combining high strength with excellent machining ability & weld ability and Tolerance on bar diameter to ISO f7.



EN 8 D/C- 45 HARD CHROME PLATED BARS SIZE LIST								
Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0	Dia mm 0
8	15.875/5/8"	22.22/7/8"	31.75/1 1/4"	40	57.15/2 1/4"	75	100	150
10	16	25	32	44.45/1 3/4"	60	76.2/3"	101.6/4"	
12	18	25.4/1"	35	45	63	80	120	
12.7/1/2"	19.05/3/4"	28	36	50	63.5/2 1/2"	85	125	
14	20	28.56/1 1/8"	38	50.8/2"	65	90	130	
15	22	30	38.1/1 1/2"	56	70	95	140	

### Related Specifications

Steel Number	Steel Name	Grade	BS 970 1955	BS 970 1983
1.1191	C45E	Chrome Bar	En8D	080A42
1.5217	20MnV6	Chrome Bar	En14A	150M 19

### Typical Chemical Analysis - Reference only

C	Si	Mn	S	P	Al	Cr	V	Fe
42/50	40max	0.5/0.8	.035max	.025max	.02/05	.20	.10/20	Bal
22max	.10/50	1.3/1.7	.035max	.025max	.02/05	.20	.10/20	Bal

Hard Chrome Plated Steel Bars are designed to meet your specific needs for piston rod material in Hydraulic and Pneumatic Cylinders and other applications. Most advanced techniques of surface removal, polishing and hard chrome plating are used in manufacturing the above bars.

These hard chrome plated bars being available in standard sizes, chemistries and plating thickness, have convinced many design engineers to put HVD Steel Bars to work in construction, material - handling equipment, farm equipment, industrial machinery and almost anywhere, where precision, top quality Piston rods are required.

## Pillow Block

A pillow block usually refers to a housing with an included anti-friction bearing. A pillow block refers to any mounted bearing wherein the mounted shaft is in a parallel plane to the mounting surface, and perpendicular to the center line of the mounting holes, as contrasted with various types of flange blocks or flange units. A pillow block may contain a bearing with one of several types of rolling elements, including ball, cylindrical roller, spherical roller, tapered roller, or metallic or synthetic bushing. The type of rolling element defines the type of pillow block.

We, HVD offer blocks in various brands and also in stainless steel and fibre material as per customer's needs.



## NSK RHP

NSK was founded in 1916 and produced the first ball bearings made in Japan. Since then, the company has spearheaded the development of bearings in Japan. NSK now offers a full range of bearings and sells them worldwide. NSK bearings have contributed greatly to the growth of many industries and to the advancement of mechanical technology. Now, the company has the largest share of the bearings market in Japan and is one of the largest bearing suppliers in the world.

NSK has used its expertise in precision machining technology, refined through years of bearing manufacturing, to diversify into:

### Products

- ◆ Angular Contact Super Precision Ball Bearing
- ◆ Cylindrical Roller Bearing
- ◆ Precision Deep Groove Ball Bearing
- ◆ Spherical Roller Bearing
- ◆ Thrust Ball Bearing



## Schaeffler Group / FAG / INA / LUK

The Schaeffler Group is a leading manufacturer of rolling bearings and linear products worldwide as well as renowned supplier to the automotive industry. In India, with its three strong brands – INA, FAG and Luk – the Schaeffler Group has emerged as a leading development and engineering partner for its customers ensuring cost effective local production, rapid delivery service, seamless application engineering and sales support.

### FAG

FAGFAG Bearings India Limited was incorporated in 1962. Since January 2002 FAG has been integrated into a strong network because that is when FAG, together with INA and LuK formed the Schaeffler Group. INA and FAG became the world's second largest rolling bearing manufacturer. On July 7th, 2017 It was renamed to 'Schaeffler India Limited'



### INA

Needle roller bearings have a long track record as proven machine elements for the design of radially compact bearing arrangements with very high load-carrying capacity. In X-lite configuration, they now have an up to 50% longer service life.

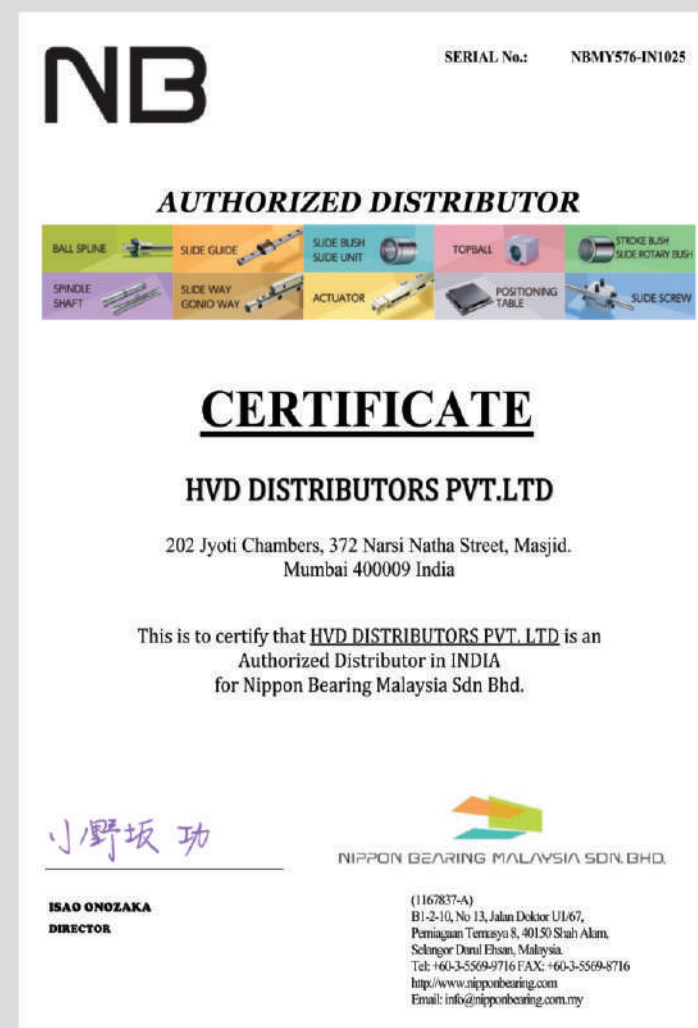
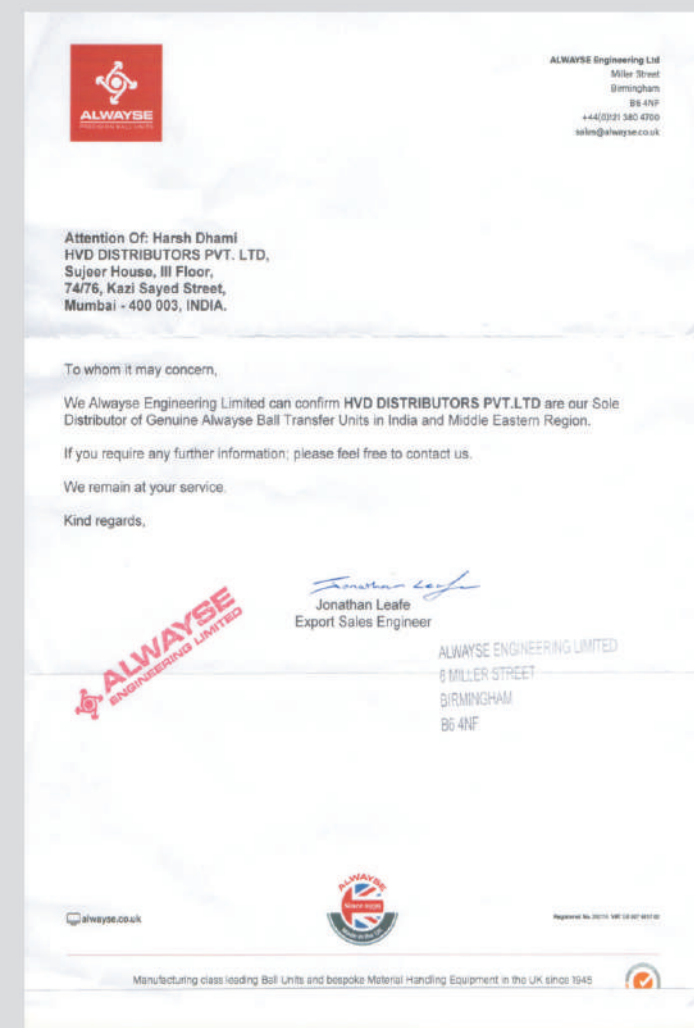
Cam rollers are similar in their construction to single and double-row support rollers, except that the raceway is formed by a heavy-section roller stud with a fixing thread and lubrication hole.







OUR ESTEEM PARTNERS







**HVD Distributors Pvt. Ltd.**



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#### **Channel Partners**

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Kolkata | Ludhiana