



VINDEX INDUSTRIES

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QR for website

“We prioritize quality over quantity.”



about company

Vindex, an Indian producer and supplier of mechanical and industrial engineering equipment for the textile and automotive was founded in 1985.

- **Experience -**

We have a lot of expertise making spindles for textile sector chenille, ring spinning, and twisting equipment.

- **Location, area and capacity -**

Surendranagar, Gujarat State, is the location to VINDEX, which has well-equipped workshops and a competent workforce with an installed capacity of 1,20,000 pieces per year. Surendranagar is 120 kilometres from Ahmedabad.

- **Research and development -**

Our ability to produce high performance precision spindles for the textile industry with remarkable perfection and accuracy is a result of our substantial R&D efforts, well-equipped workshop, and adaptable work force. For all kinds of textile yarns, we manufacture machine spindles for spinning, doubling, twisting, and chenille.

- **Customer focus -**

The customer, the environment, and our responsive strategy will determine future growth and development. Vindex will continue to set the standard for spindle technology in terms of high productivity & precision with these duties at the helm.

- **Marketing network -**

For the purpose of providing top-notch marketing services, the company has created and is continually growing its agent/representative network throughout India and beyond.

- **Export -**

Our spindles are utilised as original equipment by manufacturers of textile machines and have been standardised by several top mills. They are sold both directly and indirectly to nations in Europe and the Far East.

- **Quality Management -**

In spite of the fact that we lack an ISO certification, we nonetheless adhere to all mandatory documents for a quality management system.



vindex 3200 series

3200 series spinning spindle design combines the advanced foreign technological advantages and our own characteristics, it's suitable for processing cotton, silk, chemical fibre, blended warp and weft.

This series spinning spindle adopts an integral structure. The lower part which connects elastic tube with spiral groove and matches coil spring has good function of self-adjusted and smooth operation. With steel wharves, the spindle meets textile enterprises' requirements of higher speed and lower energy consumption. It prolongs period of oil replenishment and reduces the costs because of improved insert structure.

High-quality structure design and advanced manufacturing technology ensures long period of high rotation accuracy and less deformation of insert. Footsteps can install with spindle rail co-ordinately according to customers' requirements.

Recommended for speeds: 8000~17000RPM

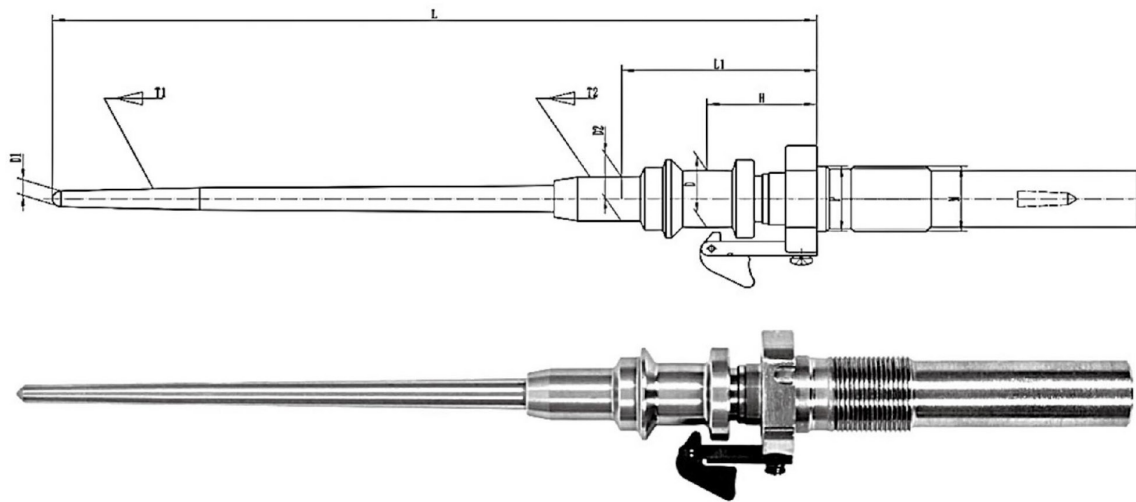
3200 series insert





vindex 3200 series

Model	D	H	L	L1	D1 x T1	D2 x T2	Installation size
3203-C	Ø 22	35	244.5	62.5	Ø 6 x 0.055	Ø 16.94 x 0.01	M25 x 1.5
3203-C-20.5	Ø 20.5		&				P25
3201-C	Ø 22		213.5		Ø 4.15 x 0.042	Ø 16.34 x 0.01	(M24-P24 to be marked)
3202-C	Ø 22		233.5		Ø 5 x 0.04	Ø 16.34 x 0.01	
3206-C	Ø 22	28	224.5	55	Ø 5 x 0.0392	Ø 16.34 x 0.025	





vindex 4000 series

The insert of 4000 series spinning spindle according to advanced HF structure principle, connects metal elastic tube and with lengthwise buffer component. It has good effects of longitudinal vibration buffer and lateral self-adjusting center, which keeps more loading, less vibration, lower noise, longer life.

The spindle adopts advanced connecting structure of upper part. The upper part has good rigidity and strong ability of deformation resistance. Production according to international manufacturing standards improves the performance of complete spindle. The spindle operates more smoothly while full load or half load. The smallest diameter of spindle pulley could be 18.5mm; this can make it adapt to high speed and low consumption. Spindle will be more stable when it operates with steel footstep.

Steel footstep avoids coil leakage and breakage caused by casting flaw. Clean lubricant prolongs spindle life, Advanced structure design keeps long period of oil replenishment and low maintenance costs.

This series spinning spindle is suitable for auto-doffing. With quality bobbin, the max operating speed of bare spindle is 18000rpm, and the max operating speed of aluminium plug spindle is 20000rpm.

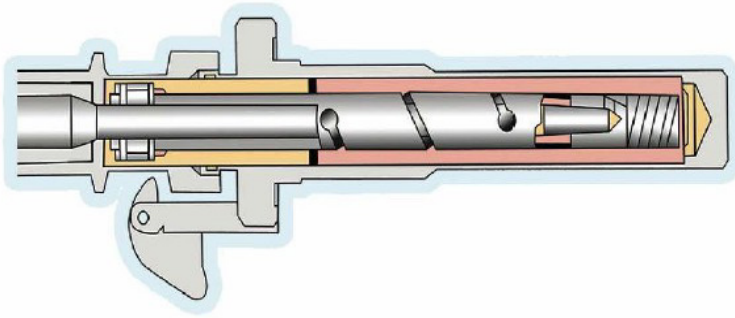
High-precision processing, advanced manufacturing technology and strict quality controlment ensures the accuracy of insert making. It makes the spindle more stable and suitable for high speed.

Optimum structural design and reasonable manufacturing technology ensure high rotation accuracy and less deformation of elastic tube for a long time.

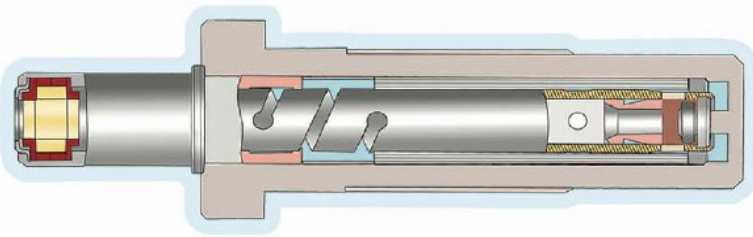
We can design and manufacture the spindle for other specifications suitable for various kinds of spinning frame according to customers' requirements. Footsteps can install with spindle rail co-coordinately.

vindex 4000 series

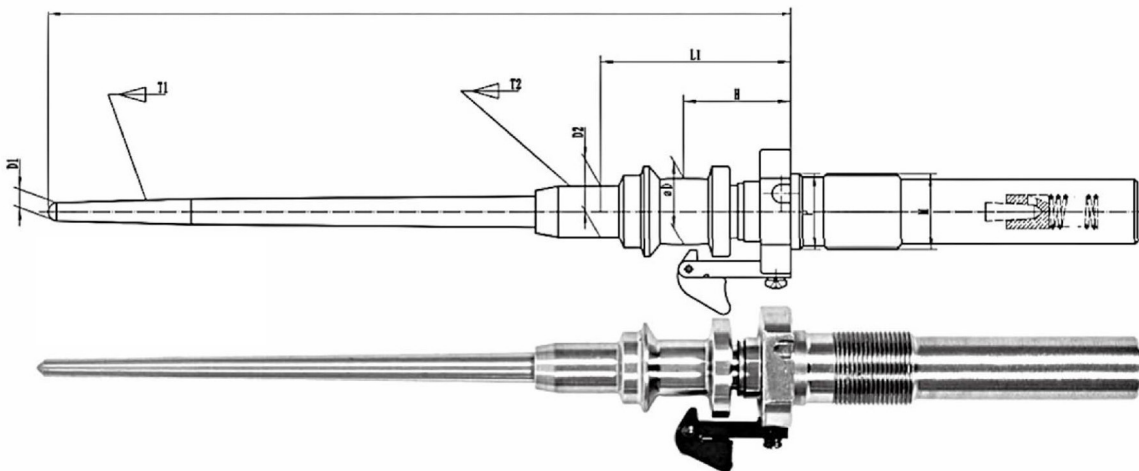
- 4200 insert (HF type)



- HP-S 68 inserts



- 4200
4100 - series

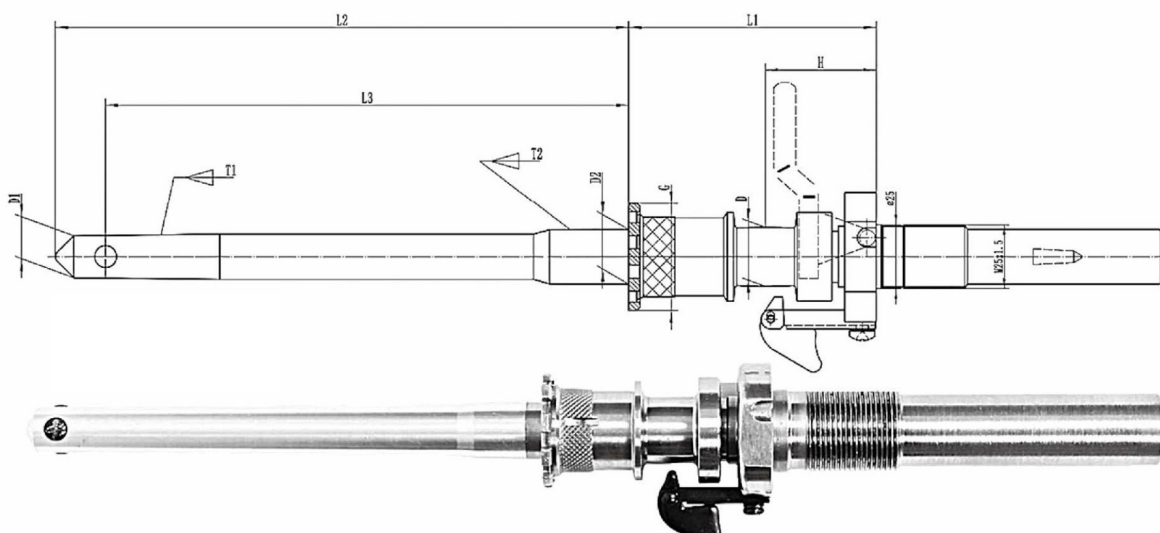




vindex 4000 series

Model	D	H	L	L1	D1 x T1	D2 x T2	Installation size
4103-19	Ø 19	35	244.5	62.5	Ø 6 x 0.055	Ø 16.94 x 0.01	M25 x 1.5
4203-C	Ø 22						P25.5
4203-C-20.5	Ø 20.5						M25 x 1.5
4204-CE	Ø 20.2	34	253.5	60	Ø 6 x 0.052	Ø 17.78 x 0.01	P26
20.2(RY5)			249.5				
			244.5				
			240.5	64			

Model	D	H	L1	L2	L3	G	D1 x T1	D2 x T2
4210R-20.5	Ø 20.5	35	75	183	167	Ø 35	Ø 14.12 x 0.0263	Ø 18.61 x 0.065
4110R-19	Ø 19							
4211FA-20.5	Ø 20.5		78	180.5	165		Ø 13.18 x 0.022	Ø 17.10 x 0.022
4111TA-19	Ø 19							
4211FB-20.5	Ø 20.5			188.6			Ø 12.92 x 0.0233	Ø 17.00 x 0.0233
4111FB-19	Ø 19							
4211MA	Ø 22			169.5	152.5		Ø 16.27 x 0.0156	Ø 18.78 x 0.0156
4212K	Ø 24		75	204	189	Ø 39	Ø 17.15 x 0.0263	Ø 22.15 x 0.0263





vindex 7000 series

This 7000 series spinning spindle is a kind of high-speed and high-performance spindle, which is equipped with the novel HPS-68 insert independently developed by our company. The HPS-68 insert incorporates both a roller neck bearing and a convex footstep bearing, the convex footstep bearing consists of a radial bearing which functions hydrodynamically and an axial plane-thrust bearing to absorb the axial forces. As the inner diameter of the neck bearing is 6.8 mm, it has been possible to reduce the whorl diameter to even smaller. The blade is very short and consequently extremely rigid. The forces acting radially in the area of the footstep bearing are absorbed by a genuine hydrodynamic radial bearing. The spheropoint of the blade runs on a free-sitting flat disc, which resists axial forces. The entire footstep bearing is housed in an elastic sleeve, even the slightest eccentric movements are damped by means of the oil coil. Neck bearing geometry which has been modified in the micro-range lends additional stability to spindle operation. The use of sophisticated new-type advanced and applicable production lines with mature modern equipment ensures a high degree of precision. Very little play, held to close tolerances, is provided in neck and footstep bearings, and this has a positive influence on spindle running. Such a footstep bearing design offers substantial advantages in particular for high speeds and axial loads.

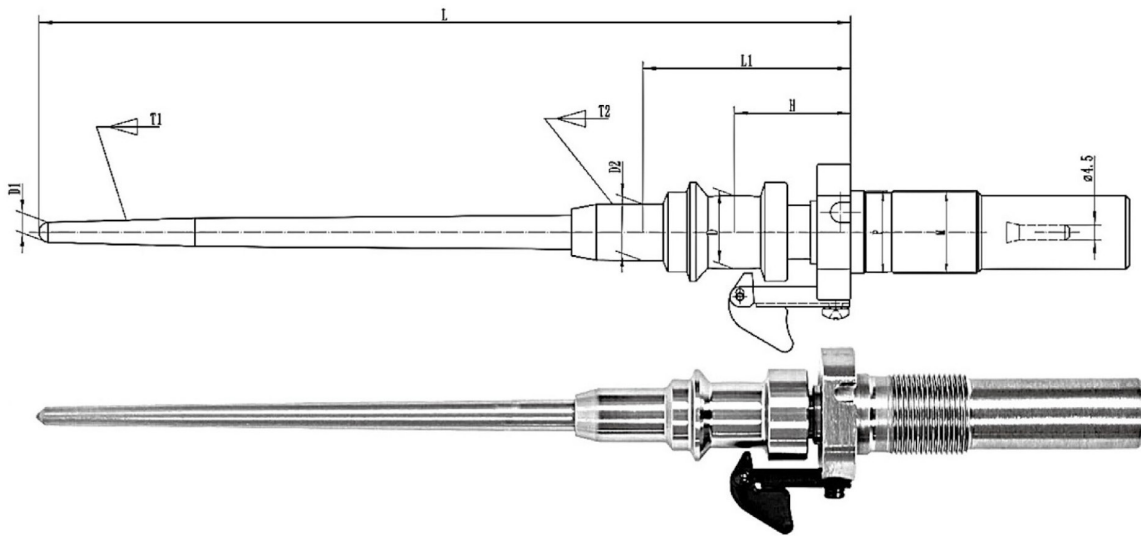
The aluminium rod made of high-strength and superhard aluminium alloy is held by the spindle blade and the wharves from inside and outside, has good rigidity, cannot loosen to move, and thus can effectively resist external impact deformation. The spindle insert adopts reliable axial overload protection to resist impact without subsidence and is suitable for push-down pipe insertion of integral auto-doffing. The optimized design of the yarn cutter leads to high doffing yarn reserve rate. The use of a yarn gripper can realize doffing with zero winding and no end yarns. The accurate fit between the spindle bolster and the rail of the spinning frame ensures good verticality of the spindle to realize non-correction installation.

The spindle is targeted at domestic and foreign high-level customers, is widely applied to high-speed spinning, spinning high-quality yarns, compact spinning, integral auto-doffing and speed increase reform of a spinning frame, and the highest working speed of the spindle can reach to 25000rpm. The aluminium plug can be adjusted in type and size according to customer's requirements to allow customers to fit different types and sizes of bobbins.



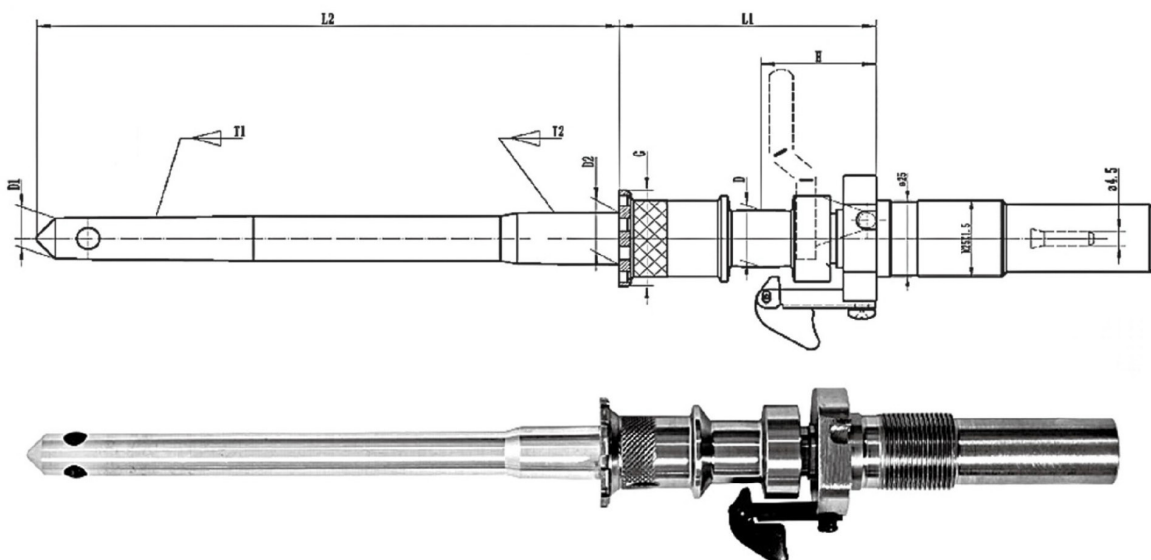
vindex 7000 series

7100 - series



Model	D	H	L	L1	D1 x T1	D2 x T2	Installation size
7103-E-19	Ø 19	35	244.5	62.5	Ø 6 x 0.055	Ø 16.94 x 0.01	M25 x 15.5 P25
7103-E-20.2	Ø 20.2						
7103-E-20.5	Ø 20.5						

Model	D	H	L1	L2	L3	G	D1 x T1	D2 x T2
7110R-20.5	Ø 20.5	35	75	183	167	Ø 35	Ø 14.12 x 0.0263	Ø 18.61 x 0.065
7110R -19	Ø 19		78					
7111FA -20.5	Ø 20.5			180.8	165		Ø 13.18 x 0.022	Ø 17.10 x 0.022
7111FA -19	Ø 19							
7111MA -20.5	Ø 19			169.5	152.5		Ø 16.27 x 0.0156	Ø 18.78 x 0.0156



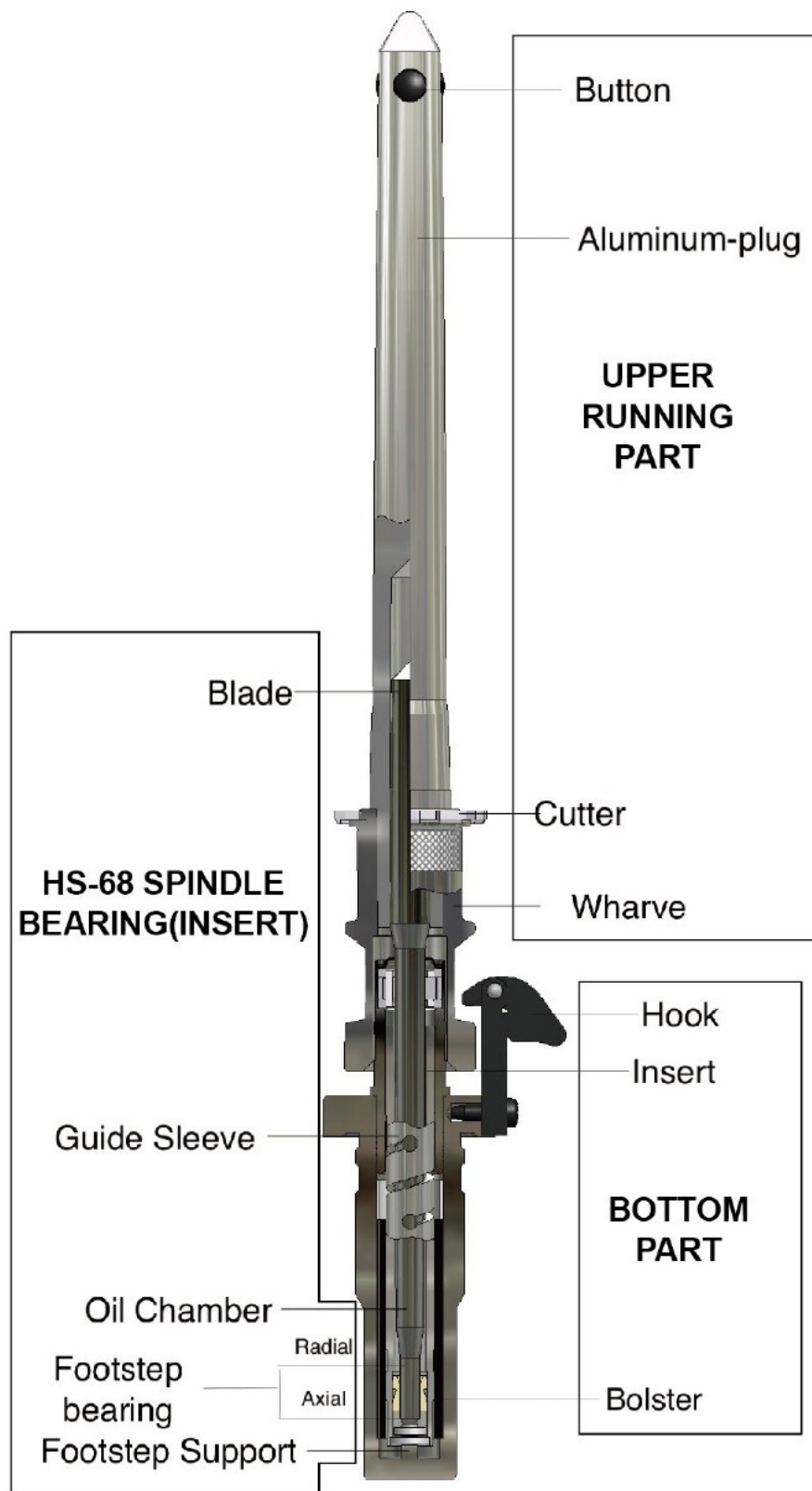


features

The Vindex novel high-speed and high-performance spindle adopts innovated designs of HPS-68 insert incorporating both a roller neck bearing and a spheropoint (convex) footstep bearing, the convex footstep bearing consisting of a radial bearing which functions hydrodynamically and an axial plane-thrust bearing to absorb the axial forces, the diameter of the neck bearing being reduced to $\varnothing 6.8\text{mm}$, the distance between the neck bearing and the footstep bearing being reduced to 100mm, and further reduction of the wharves diameter, and etc., has been granted a lot of patents for our technologies. Compared with the conventional common spindle incorporating the cone-point (conical-tip, pointed) footstep bearing, such innovated designs naturally have the structural advantages of stable operation, no axial displacement, less friction wear, high load supporting capability, better consistency, etc. Vindex has further developed the excellent performances of these genes by means of advanced and applicable technical equipment and fine manufacture -

- Extremely stable operation, particularly applicable to high speed.
- Less energy consumption, low noise, oil and labour saving, yield increasing.
- Long service life, stable performance, and better consistency.
- Simple and convenient installation, use and maintenance.







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Manufacturer & Exporter

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