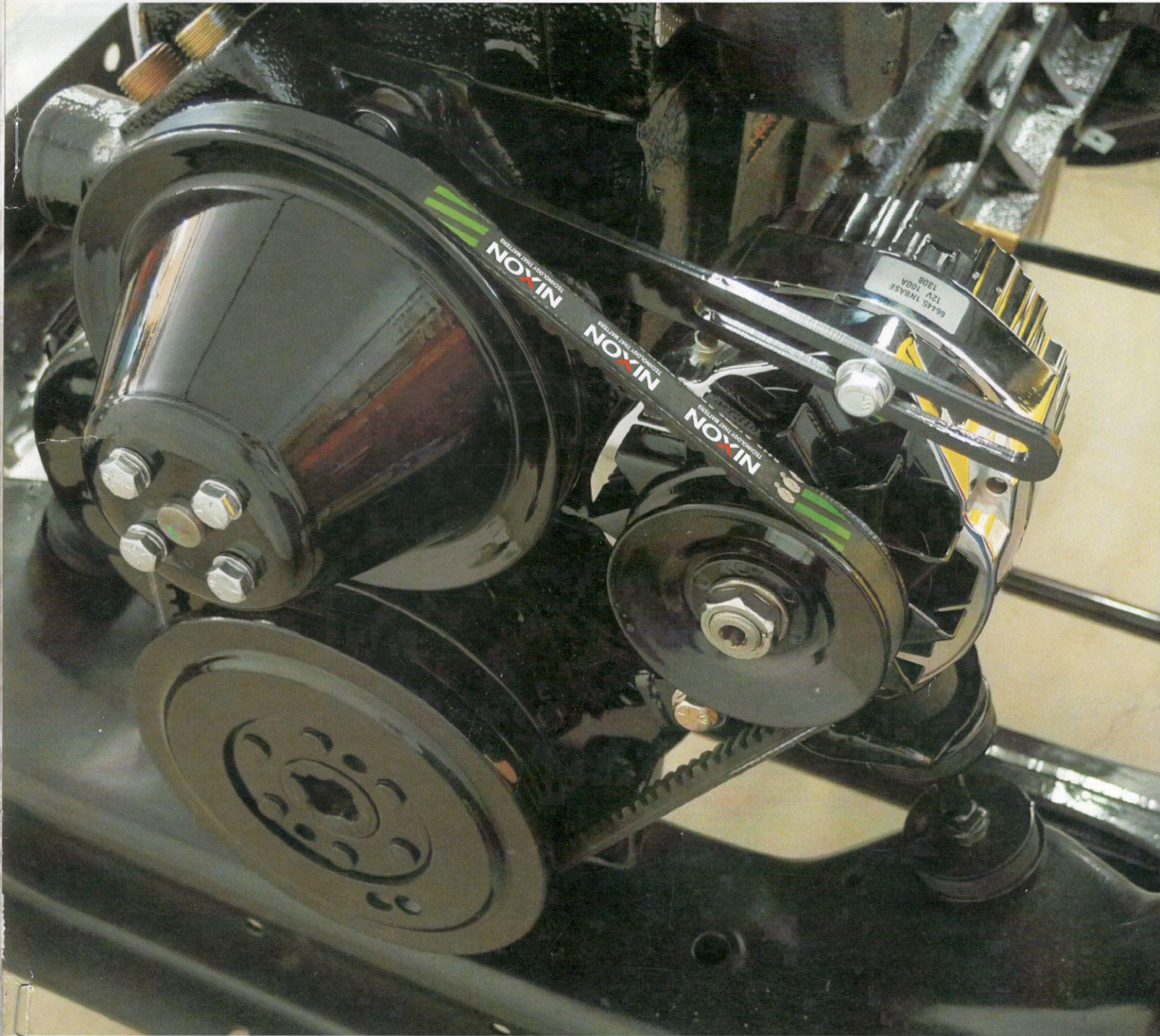


NIXON

TECHNOLOGY THAT MATTERS



V-BELTS
POLY V BELTS
RAWEDGE COGGED BELT

PROFILE

Established in 1975, NIRMAL an ISO 9001-2015 certified Indian Company with a belief that stands for achieving excellence through innovation in the power transmission industry. The company is growing consistently and has proved to be a force to reckon with.

CORPORATE VISION

- ★ We strive to be a part of each and every Indian and International Power driving Shaft.
- ★ Lots of mounts still unsurpassed and NIRMAL accept that challenge.
- ★ We have to upgrade and solidify the country's economy while we prosper and flourish in our business.

QUALITY POLICY

- ★ Complete customer satisfaction.
- ★ Delivery in time.
- ★ Assurance of value for money.

STATEMENTS

- ★ High Quality
- ★ Easy Availability
- ★ Competitive price.
- ★ Customer-centric approach and striving for 100% customer satisfaction.
- ★ Extensive product range.
- ★ Long term commitment.
- ★ Offer highly differentiated product.
- ★ Developing the brand "NIXON".

NIRMAL is the only company in industry to have a well-established R&D unit and also believes in continuous Research and Development activities. A specialized wing for R&D ensures product up gradation and innovation in the existing product range. The Company has full-fledged quality control department to take care of quality aspects.

Our products are manufactured as per international standards with stringent tolerance norms & conforms to ISI standards as well which is marked on all our products. The product is suitable to perform under stringent & severe work conditions viz. smaller pulley diameters, oily & dusty environment, high temperatures etc.

Our extensive range of belts in wrap, cog & poly construction are widely accepted in the industry spread across automobile, agriculture, food, cement, power, steel, oil, mining, engineering & so on.

With a wide range of channel network spread across the country to service industry, we believe in the philosophy of partnering with our business partners for mutual growth & long term association. We also plan to expand our business overseas through our own subsidiary to catch hold of customers all over the world.

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"We Aim to Satisfy"

At Nixon the word satisfaction means many different things to many different people:

To our consumers, it means the best quality, product accompanied by benefits & services.

To our business associates, it means a sense of belonging.

To us, it is all-round development. The key to our success. The reason behind our Motto, "we aim to satisfy".

"Fitness of the Purpose"

V-Belt are today expected to perform well under stringent / server conditions such as over loaded drive, smaller pulley, higher temperature, uneven load, oily and dusty environment. Development in machine design and the application of new technology has also resulted in higher demands. These demands can only be met by a V-belt specially designed to suit severe operating conditions. Our product has been well received by almost all segments of industries... Crusher, Plastics, Power Generators, Textiles, Harvesters, Steel, Rolling Mills, Sugar, Cements and other sectors.

NIXON Insignia

Where Quality Touches Infinity"

What makes a pioneer stand out in any field is the Quality. NIXON believes in this dictum. At all level, all components dual check system and micro control measures are followed. Our state-of the

-art technology has in-built system to eliminate flaws. Each ingredient of the end-product is critically examined by a team of experts, using sophisticated instruments and techniques to ensure an uncompromising standard of quality.

"NIXON Service"

We provide comprehensive technical support to our valued customers. Our application engineers offer assistance into operational problems and suggest solutions. Prompt satisfactory service after-sales is assured.

"Constructions, Features & Advantages"

Right Set:

NIXON V -Belts are match free belts subject to precise length control, do not require matching & any number of belts of the same size can be used to make a set.

Polyster-Cotton Blended Jacket

The cover is impregnated with a specially formulated polychloroprene synthetic rubber to ensure superior flexibility, better traction and high resistance to wear, oil, heat and static charge.

Specially Treated HMLS Reinforcing Cords

These high modulus and low stretch polyester cords ensure higher power transmitting capacity and enable the belts to carry higher loads with minimum stretch.

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The Unique Floater Ply

This specially formulated synthetic rubber ply gives required adhesion to the cords, dissipates heat, resist frictions between cords and maintain cushioning effect.

A Resilient Compression Zone

A Special Tough "n" Flex Base Compound is developed for compression Zone, to give high flex life and better heat dissipation because of high resilience. This also makes the belt fatigue and heat resistant.

Nixon V-Belt

Features:

- Excellent transverse rigidity and flexibility to prevent bucking at minimum diameter settings where belt stress is more
- Firm gripping action in contact areas provide positive traction for precise & immediate response
- High power transmission than regular range of belts
- Longer service life
- Facilitates smooth running without excessive vibrations
- Specific belt design for maximum longitudinal flexibility

Nixon Raw-edge Cogged Belts

Features:

Oil resistant and antistatic

- Maximum recommended belt speed is 30 m/s
- High power transmission capacity than wrap belts
- Superior transverse stiffness & high wear resistance
- Suitable for drives with small pulley diameters, high ambient temperature and speed
- Temperature range: -25°C to +100°C

One Shot Tensioning

NIXON V-Belts are built right from the start to ensure negligible elongation during operation and little shrinkage in stores. With our belts, on a properly designed drives, only one shot tensioning is sufficient.

This provides major advantages in:

- Better Length Stability
- Reduced down time
- Longer Life



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NIXON Automotive Ribbed / Poly-V Belts

Features:

- Trapezoid faced ribs on a fibre reinforced rubber matrix for higher power transmission offering good resistance to wear and tear, facilitating quiet running
- Reduced vibrations, shock absorber, low stretch and an excellent behaviour under heavy load conditions
- Extremely flexible, capable to work on small pulley diameters and serpentine drives
- Oil and heat resistant, long service life, suitable for HEMM applications

Standards: Conforms to ISO 9981, 9982, RMA IP 26 standards

Product Range:

- Entire range of Ribbed / Poly V-Belts for all vehicle engines
- EPDM construction Belts are also available

Idlers :

Grooved or Flat Pully idlers are used:

- i) to provide take-up for fixed centre drives.
- ii) to break up long spans where belt whipping is a problem.
- iii) to clear obstruction and to turn corners as in mules pulley drive. Inside idlers must use a grooved pulley, preferably on the driven. on the slack side of the drive. The idler pulley should at least be of the same diameter as that of the smaller pulley on the drive and should be positioned as close as possible to the larger pulley.

Flat idler pulleys should be at least one and half times that Of small pulley diameter and are recommended only with V-belt dives and not with wedge-belt drives.

INSTALLATION AND OPERATION OF BELT DRIVES

STORAGE :

Belts should be stored in cool and dry place,

Belts should preferably be hung on crescents-shaped pegs.

Bets should not be stored in heavy bent and distorted condition.

INSTALLATION :

In assembling a drive, the motor or prime mover should be moved towards the driven. unit and the belts should be placed in the grooves by hand. Under no circumstances should belts be forced on to puley with spanners. screwdrivers or such implements.

BELT TENSIONING

Measure the belt span length and calculate the deflection as per conditions 1, or condition 2 (Ref.Flg. 4) Tension the drive so as to match the deflection force as per table below, New drives should be tensioned to the near higher values. After the drive has run for about 24 hours, check the belt tension and adjust if necessary.

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Section	Width mm	Thickness mm		BELT SIZE RANGE	Belt Length		Lp-Li mm	La-Li mm	La-Lp mm	Do-Dp mm	Minimum Pulley Pitch Diameter, Dp mm.	
					mm	Inch						
CLASSICAL BELTS												
A	13	x	8	Li	15 - 224	381 - 5690	15 - 224	36	50	14	7.0	75
B	17	x	11	Li	20 - 538	508 - 13665	18 - 350	43	69	26	9.0	125
C	22	x	14	Li	36 - 658	914 - 16713	34 - 800	56	88	32	12.0	200
D	32	x	19	Li	88 - 658	2235 - 16713	75 - 800	79	119	40	16.0	350
E	38	x	23	Li	180 - 698	4572 - 17729	180 - 800	92	145	53	20.0	500
HEXAGONAL BELTS												
BB	17	x	14	Li Le	62 - 122	1575 - 3099 1847 - 3879	70 - 150	43			9.0	125
LIGHT DUTY BELTS												
FHP (3L)	9.5	x	5.5	Le	2170 - 2450	432 - 1372	17 - 54		36			38
WEDGE BELTS												
SPZ	10	x	8	Lp	600 - 4250	600 - 4250		37	50	13	4.2	63
SPA	13	x	10	Lp	690 - 4250	690 - 4250		45	63	18	6.0	90
SPB	16	x	13	Lp	1225 - 18800	1225 - 18800		60	82	22	7.3	160
SPC	22	x	18	Lp	1900 - 18800	1900 - 18800		83	113	30	10.0	224
Belts for Harvesting Combines												
HL	45	x	20	Lp	2500 - 3700	2500 - 3700		84	126	42	13.2	147
HM	50	x	22	Lp	2100 - 5300	2100 - 5300		90	138	48	15.2	168
Power Cord) Flat Belts)	75-175	x	6	Li	2800 - 5300	2800 - 5300	110 - 210		38			75
Branded Belts												
2HB, 3HB, 5HB 2 / 3 / 4 / 5 H 5V	Section 'B' Section '5V'			Li La	1900 - 4000 1000 - 2500	1900 - 4000 2540 - 6350	75 - 160 100 - 250		95		9.0	125 30
Narrow V-Belts												
3V	9.7	x	8	La	240 - 1600	610 - 4060	24 - 160		50			67
5V	15	x	13	La	950 - 2500	2410 - 6350	95 - 250		82			180
8V	25	x	23	La	1020 - 7400	2590 - 18800	102 - 740		145			315
Automotive Narrow V-Belts												
9.5	9.5	x	8	La	610 - 4250	610 - 4250			50			63
12.5	12.5	x	10	La	710 - 4250	710 - 4250			63			90

Note : Li- Belt inside Length; La- Belt Outside Length; Lp- Belt Pitch Length; On- Pulley Outside Dia; Dp= Pulley Pitch Dia.

Free Set V11 Belts are precision-built high performance Belts having very low tension decay and possess very high torsional stiffness.

Free Set V11 ensures higher tensile strength alongwith very low elongation, enhanced resistance to oil and heat with antistatic properties.

Length Tolerances :

Belts Length		(inch)	Tolerance in Length, mm
upto	1900 mm	(upto - 73)	± 1
1 901	- 3150 mm	(74 - 122)	± 2
3151	- 5000 mm	(123 - 195)	± 3
5001	- 9000 mm	(196 - 352)	± 4
9001	- 12500 mm	(353 - 489)	± 5
12501	- 16000 mm	(490 - 626)	± 6
16001	- 20320 mm	(627 - 800)	± 7

Free Set V11 Belts are manufactured as per above length tolerances and are measured within stipulated time-frame under controlled storage conditions. However all V-belts shrink during storage which varies with varying climatic conditions and period of storage. This shrinkage is a reversible process and Free Set V11 belts would resume their original length after initial run. Also this does not affect the working performance of Free Set V11 belts in and way.

List of Customers in Government Sector

- Steel Authority of India Limited, Durgapur
- South Eastern Coalfield Limited Dhanpur Dist.-Shandol M.P.
- Kota Super Thermal Power Station Kota, Rajasthan
- NTPC Limited Dadri Gautam Budh Nagar U.P.
- Nuclear Power Corporation of India Ltd. Narora, Distt. Bulandshar U.P.
- Maharashtra State Power Generation Company Limited Khaperkheda Nagpur Maharashtra
- Maharashtra State Power Generation Koradi Thermal Power Station, Koradi Dist Nagpur Maharashtra
- Damodar Valley Corporation Burdwan, West Bengal
- Ordnance Factory Muradnagar, U.P.
- Bharat Cooking Coal Limited Dhanbad, Jharkhand
- Madhya Pradesh Power Generating Company Limited Distt. Umaria M.P.
- Indian Oil Corporation Ltd, Vadodara, Jawaharnagar
- Chhattisgarh State Power Generation Co. Ltd. Janjgir-Champa
- South Eastern Coalfields Limited, Dankuni coal Complex, Hooghly
- Gujrat State Road Transport Corporation

List of Customers in Private Sector

- Bhatia Wine Merchants Pvt Ltd.(Seagram's Drinks)
- Narmada Drinks Pvt Ltd. (Coca Cola)
- Sri Krishna Pharmaceuticals Ltd.
- KSK Mahanadi Power Company Ltd.
- Shakti Bhog Foods Ltd.
- Bajaj Sons Limited, Haridwar (U.K.)

PRODUCT RANGE

- CLASSICAL V-BELTS
- HEXAGONAL V-BELTS
- HIGH POWER NARROW V-BELTS
- S.S. WEDGE V-BELTS
- AGRICULTURE V-BELTS
- BANDED V-BELTS (MULTIPLE TYPE)
- BANDED V-BELTS (NARROW TYPE)
- RAW EDGE COGGED BELTS
- VARIABLE SPEED BELTS (WRAPPED & COGGED TYPE)
- HARVESTER COMBINE BELT
- POLY V-BELTS

SUGGSSION

- Use Standard V-Pulley.
- Ensure proper Tension. After the drive has been running for 30 minutes, the tension should be checked and readjusted. If required.
- Belts operating at an elevated temperature above 70 C, should be checked periodically.
- Do not expose the belts to oil, heat and hazardous chemicals.
- Ensure proper Alignment, if required realign the drive.
- Lubricate the Bearing regularly.
- V-Belt should be hanged on racks. Avoid storing the belts in bend condition.
- Belt should be stored in a cool and dry place and storage area should be ventilated.
- Ensure correct number of belts. The following tables shows the detrimental effect of under belting.

Mfd. by:

NIRMAL TRANS BELTS (P) LTD.

Regd. Off. : A-61, Teachers Colony, Samaypur, Delhi-110042
Unit I : Plot No. 192, HSIIDC Industrial Estate, Barhi, Sonapat (HR)
Unit II : Plot No. 248, HSIIDC Industrial Estate, Barhi, Sonapat (HR)
Unit III : Plot No. 434, HSIIDC Industrial Estate, Barhi, Sonapat (HR)
Ph. : 9899408820