



Mr. Manish Bavishi

Owner of Supreme Engineers

Welcome to Supreme Engineers...

Supreme Engineers established in 1996 by Manish Bavishi (Mechanical Engineer) located at Ahmedabad, Gujarat India with strong aim & innovative ideas. We specialize in manufacturing and exporting various types of Mechanical Power Transmission metal components. Our infrastructure is capable of producing Non-Standard and Tailor-Made Timing Pulleys, Universal Joints, Gears, Couplings, Keyless Clampex, etc. even in small quantities and in the least lead time. We have the ability to manufacture a variety of custom products.

We are manufacturing Timing pulleys, Universal joints, Gears, Keyless Clampex and Customized Components. Supreme Engineers has the ability to manufacture a variety of custom made products. By controlling the entire design and manufacturing process, Supreme Engineers guarantees the quality, performance and delivery of the products. Our motto is "PRECISION + SPEED". Our goal is to provide the products you need in a fast, cost-effective and friendly manner.

COMPANY PROFILE

DESCRIPTION	DETAILS
Location & Shop	Located in city Ahmedabad, state Gujarat, Between two major cities of INDIA - Delhi & Mumbai. Fully equipped, Well-built Machine Shop with Staff Rooms & Canteen in 2500 Yards
Manufacturing	Unit -1 Timing Pulleys, Universal Joints, Keyless Clampex, Gears & Sprockets, Rack-Pinion, Couplings Unit -2 Ortho implants & similar complex & critical components for other industries too
Specialization	Production of non-standard components, even in small quantity with least lead time. To tie up with Machine Manufacturers, on Annual basis to produce the best results for both.
Team	We have a small but multi-skilled, highly trained technicians who undertake any task with high spirit & enthusiasm. Zero lead time as integrated staff quarters & canteen can start work at any time in 24 hrs
Experience	We are a young organization with a team who are unaffected with the adamant nature of the industry. We are flexible and versatile to handle vast range of components.
Industries	We make for machine builders of CNC machine tool maker, printing, plastic, Pharma, food & dairy, packaging, glass, textile, conveyors, Plywood, Tire Auto parts, Cement, Steel Pipes, Automation, Special Purpose Machines.
Export	Singapore , Australia, Philippines & Tanzania

INFRASTRUCTURE

UNIT-1 (MECH POWER TRANSMISSION COMPONENTS)

N	MACHINE	MAKE	CAPACITY	TYPE	QTY
1	CNC TURNING	MORI, WASINO & JYOTI	25 TO 600 MM	CNC	3
2	V M C	DMG,YCM	X 500 TO X 1200	CNC	2
3	GEAR HOBBING	W M W & CUGIR	4 & 6 MODULE	FULLY-AUTO	2
4	BORING MACHINE	WMW	90 MM	MANUAL	1
5	UNIVERSAL & SURFACE GRINDING	HI-LIFE, JONES-SHIPMAN	5-180 ID	AUTO	1 SET
6	CONVENTIONAL MACHINES	ONE SET	GENERAL	MANUAL	1 SET

UNIT-2 (ORTHO IMPLANTS & SIMILAR COMPONENTS)

1	SLIDING HEAD	CITIZEN L20	DIA 20 MM	5 AXIS	1
2	SLIDING HEAD	CITIZEN L25	DIA 25 MM	5 AXIS	1
3	SLIDING HEAD	HANWA 32	DIA 32 MM	5 AXIS	1
4	5 AXIS VMC	BROTHER	X 450	5 AXIS	1
5	AL PRESSURE DIE CASTING	INDIAN			1

Supreme Engineers



www.supremeengineers.in

www.supremeengineer.com



1- MACHINE / ACE CNC TURNING

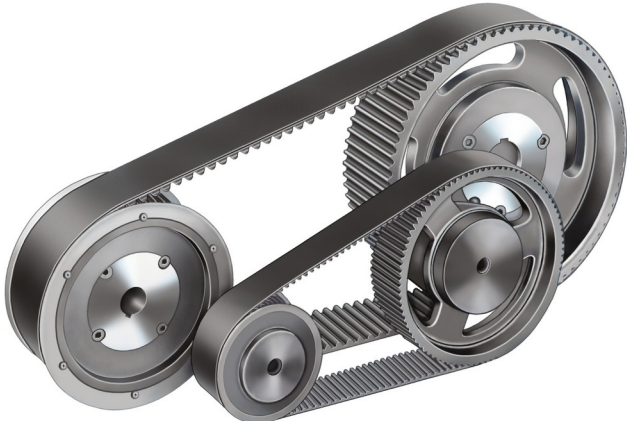


2- MACHINE / JYOTI / VMC 850



3- MACHINE / LATHE CUTTING

Main Products



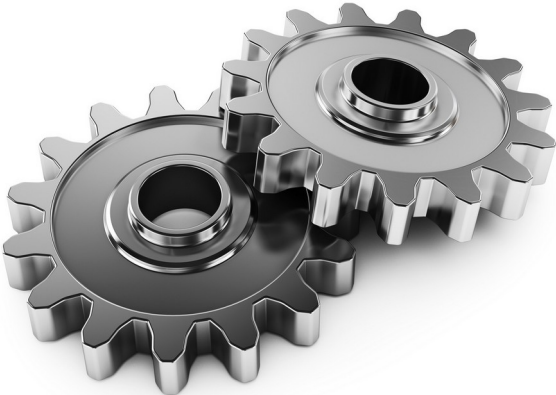
Timing Pulley



Universal Joints



Timing Belt



Gears

Other Products



COUPLING



KEYLESS CLAMPEX



RACK-PINION



POLY-V-PULLEY

Universal Joint - Types



SINGLE JOINT



DOUBLE JOINT



TELESCOPIC JOINT-1



TELESCOPIC JOINT-2

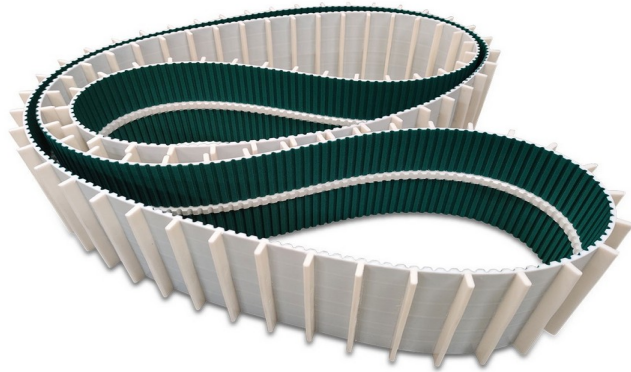
Timing Belt - Types



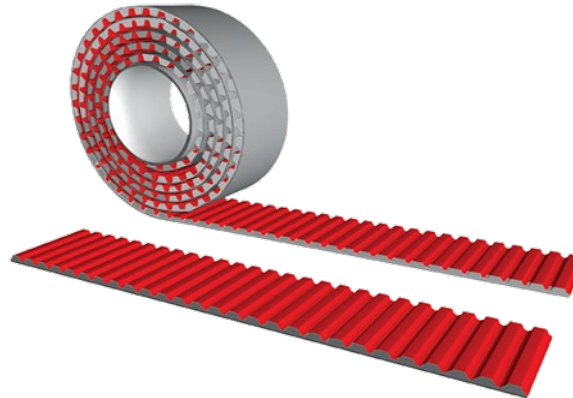
RUBBER BELT



PU BELT



PROFILE BELT



BACKING BELT

CNC Machinery – Products – As Per Drawing



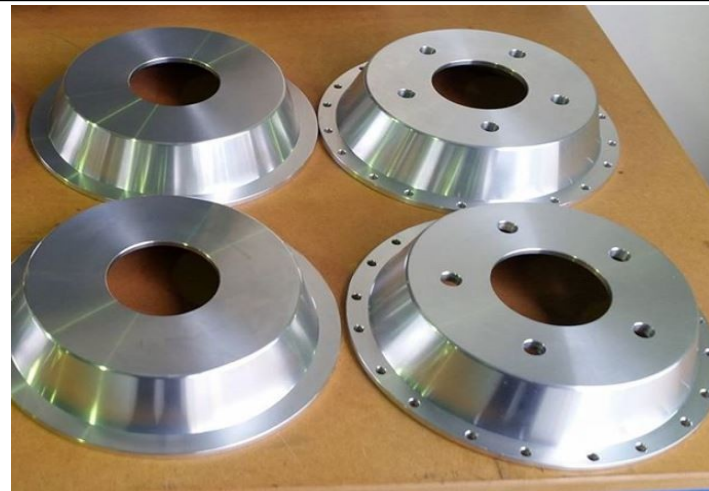
1



2



3



4

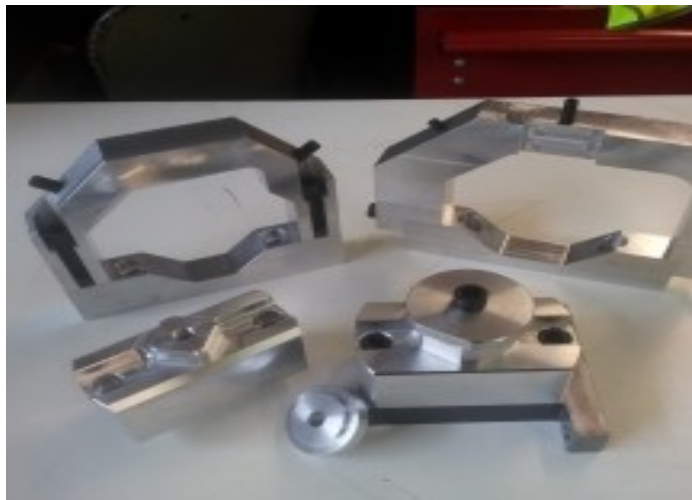
VMC Machinery - Products - As Per Drawing



1



2



3



4

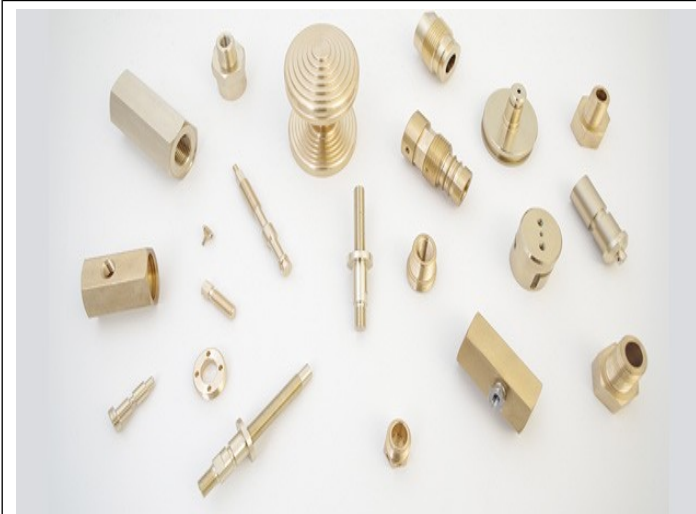
Sliding - Products - As Per Drawing



1



2



3

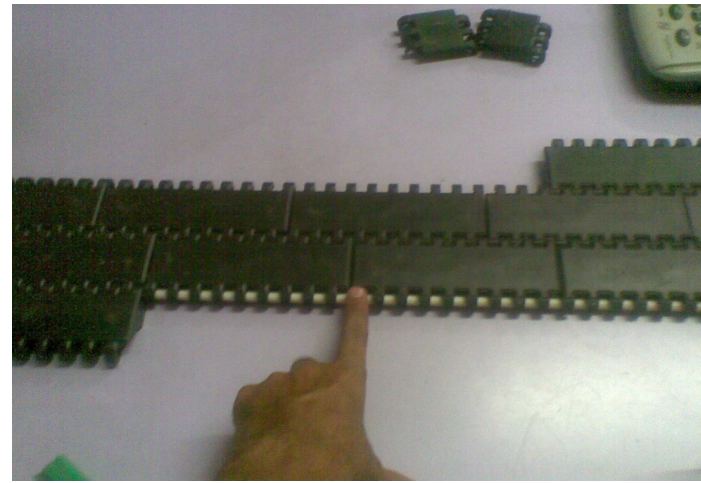


4

Ru-ubber - Products - As Per Drawing



1



2



3



4

Quality is controlled by

Team	Young organization with a team-versatile to handle critical components for machine makers.
Machine shop	CNC and automatic machine are considered as essential, so are installed since long, at our end.
Material	Good quality start with tested material, leads to perfect results after heat treatment.
Toolings	Proven toolings with LICENSEE hobs, to ensure correct tooth profile.
Inspection	We believe, not only instruments, but also jigs, fixtures and gauges, is essential.

So is exported...



PRECISION + SPEED

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LOCATION MAP



NO-22, DRIVE-IN TENEMENTS,
BEHIND DRIVE-IN CINEMA,
OPP.: GOYAL RAW HOUSE,
AHMEDABAD-380 054.
(GUJARAT - INDIA)

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UNIVERSAL JOINTS

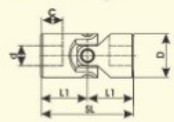
Application and Type :

Universal Joint Provide a simple method to connect two shafts, whose axes are inclined at an angle, Extendable type joints are used, when the angle varies during rotation. (Shaft is moving up & down)

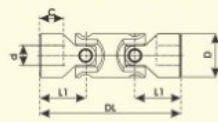
Advantage :

Misalignment between two coupled Shaft, would not only damage the coupling but also damage the bearing and the total drive system's failure, While Universal Joints absorb the misalignment and save the drive system. Thus Universal Joints avoid the need of precise alignment & reduce the assembly cost.

Precision single Joint S

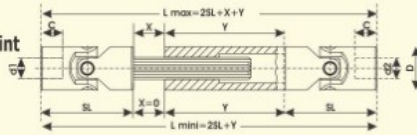


Precision Double Joint DL



Extendable Joint

Bridging bigger shaft distances



Finish bores :



DIA	BORE	SINGLE	DOUBLE	C	Li	a	b
20 to 25	10	70	105	14	35	4	13.80
26 to 35	14	90	135	18	45	6	18.30
36 to 45	18	110	165	23	55	6	22.80
46 to 55	22	124	195	30	62	8	28.30
56 to 65	28	144	225	34	72	10	33.30

Lock-Pin Type



Standard Application

Offset Pin Type



Better Lock Pin

Ball Type



Heavy load, Slow RPM
Easy to install & remove

Bearing Type



Medium torque, High RPM and smooth drive



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TIMING PULLEY

Application :

Positive drive - Ideal for Indicating, Counting and Synchronizing Drive System.

Advantage :

Timing belt drive combines the advantages of geared, chain and V-belt drive, while eliminates the troubles of above drives.

Range :

It cover the range from 0.1 to 120 HP and 100 to 10000 RPM

Material :

Metal - En 8, Casting, Aluminium, SS 316
Non metal - Nylocast, Fiber, Derlin

Classification & Profile :



Timing Pitch	ht	hs
MXL	2.03	0.51 1.14
XL	5.08	1.27 2.3
L	9.52	1.90 3.6
H	12.70	2.29 4.3
XH	22.22	6.35 11.2

Syncro Pitch	ht	hs
T 2.5	2.5	0.70 1.30
T 5	5	1.20 2.20
T 10	10	2.50 4.50
T 10 SE	10	3.40 4.50
T 20	20	5.00 8.00

HTD Pitch	ht	hs
3M	3	1.2 2.4
5M	5	2.1 3.6
8M	8	3.4 5.6
14M	14	6.1 10.0
20M	20	9.0 13.2

Comparison :

DRIVE FACTORS	CHAIN	V-BELT	GEARS	TIMING BELT	FLAT
SLIPPAGE & BACKLASH	COMP	HIGH	MID.	NIL	HIGH
NOISE & VIBRATION	HIGH	MID.	HIGH	LOW	MID.
SPACE & WEIGHT	MORE	MORE	MORE	LESS	MORE
REQUIRE LUBE SYSTEM	YES	NO	YES	NO	NO

Polychain

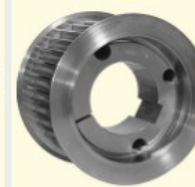


Nylon+SS 316

HTD



HTD Taperlock



No runout

Aluminium



With keyless

DESIGN DATA :

Center Distance : Desired : _____ Mini : _____ Maxi : _____
 Ratio / Speed : Desired : _____ Mini : _____ Maxi : _____
 HP / KW / Load : Connected : _____ Normal : _____ Peak : _____
 Fixed Centers : Yes / No : _____ (Is Idler Acceptable)



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MORE INFO

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