



High RPM Belt Drive Taper Bush V Sheaves & Timing Pulley

Technical Specifications

Conforming IS 3142



De forma dinámica equilibrado Acero polea de la correa

ال بكرات حزام أحزم ال صلب د يوي الـ توازن

Dynamiquement équilibrés acier Réa Poulies

HIC
UNIVERSAL
True Performance Rubbers





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Specification of Steel Sheave Pulleys

Classified under HS Code 8501



HIC Universal V-Belt Pulleys ensures more mileage form V-belt drive(s), in a way, pulley is made from superior quality graded cast iron, with grooves property machined with or without dynamic balancing that saves time in fixing & removal, eliminates re-building or surface, reboring & key-waying, avoids keeping inventory of pulleys interchange ability on many rotating items easier and possible and supersedes to IS: 3142, British BS 7620, German DIN 2211, **ISO 4183**, American ANSI IP - 20 for classical and wedge pulley, ANSI IP - 23 for narrow belt pulley, DIN 6885 for taper bush with metric bore quality standards.

Universal Timing pulleys ensures longer belt life with virtually **no slippage** and noiseless having **min. back lash**, in a way, **pulley** is made from steel or aluminium **material** with or without taper lock/bush as per customer's requirement, **machined** by generating topping cutters, used in engine camshaft, auto timing belt & other industrial pulley applications supersedes **DIN 5294, ISO 1940** quality standards.

About HIC

HIC International Co Inc, formed in **1988** manufacturing industrial **steel and rubber** products **ISO 9001** certified producer of Power Transmission Motor Fan Pulley Sheave Coupling, **Conveyor belt idler pulley**, **Hydraulic** hose valve, **Safety** rubber sheet mat quality exporters of HIC **Universal brand** to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.

Why HIC Universal Steel Sheave Pulleys?



Dynamically Balanced

Increases V Belt and Timing Belt Life

CNC Machined Grooves

Keep Belt Damages Negligible

Quick Fit Taper Bush System

Eases Fixing and Saves Removal Time

Low Heat Build-up

using Graded Cast iron and Sintered Steel Material

Minimal Vibration

Belt Rotation Drive Solution

Power transmission motion setting dynamic mechanical wheel CNC machined taper lock bush system v belt-pulley manufactured of graded cast iron G3000 GG and timing pulleys produced of steel plus aluminium material precision statically balanced drive-pulley sheaves made in India by HIC Universal.

HIC Universal Taper lock belt pulleys, v belt-pulley sheaves and timing pulleys are Original Choice by industrial blower motor and centrifugal pump manufacturers in *India, China, Mexico USA North America, Canada, Latin America, Germany, Sweden, Russia, Japan, South Korea, Scotland-UK, Singapore, Australia, South Africa, Philippines, Indonesia, Saudi Arabia and other Asian countries.*

RANGE of V Belt Pulley & Timing Pulleys

Belts Rotation HIC Drive Sheave



Dual Duty V Pulley with Taper Bush



Solid Hub V Grooved Pulleys



Timing Belt Pulley



Taper Bush



Roller Chain Sprockets

- ❖ **Taper Bush Dynamically Balanced Dual Duty v belt pulleys** A/SPA section 1 to 6 grooves 80~800mm pitch circle dia (pcd) or Outer Diameter ; B/SPB 1 to 6 belt grooves 125~1000 pcd ; C/SPC2~10 belts run groove 200~1250mm pcd .
- ❖ **Balanced General Purpose solid v belt pulleys** without taper bush **A** section 1 to 5 grooves 2~26 inch OD ; **B** section 1 to 5 grooves 2~40"od ; **C** section 3~8 belts groove 3~50" OD ; **D** section 3~12 belts groove 12~56" OD ; **E** section 5~15 belts groove 16~72" OD.
- ❖ **Taper Locking Bushes** weld on hubs sizes 1008 to 5050 up to 125 mm maximum bore size.
- ❖ Toothed Drive Belt 'XL' type (extra light duty) pulley
- ❖ Cogged Belt 'L' type (light duty) pulley
- ❖ Tooth Belt 'H' type (heavy duty) pulley
- ❖ Cog Belt 'XH' type (extra heavy duty) pulley
- ❖ Toothed Belt 'XXH' type (double extra heavy duty) pulley
- ❖ **Chain Sprockets** wheels single/double strand with knob 10~50 teeth's in sizes 3/8"-1/2"-5/8"-3/4"-1"-1-1/4"-1-1/2" pitch sizes.

A size Taper Bush V Pulley

Air Conditioning and Blower Drive Belt Pulleys Produced By HIC

Taper Bush pulley A-section v belt sizes used by drive manufacturers of air conditioning, blower motor producer for advantageous reason of taper bush shaft fixing pulleys being time-saving and prevents damage to pulley and motor bearings at the time of installation and belt replacement.

Blower motor pulley Pitch circle diameter or Outer diam sizes manufactured **A section PCD** sizes 56, 60, 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 7 mm.

Taper Bush HIC Universal sizes produced for A section v belt pulley are 1008, 1108, 1210, 1215, 1310, 1610, 1615, 2012, 2517.

Weld on hubs or taper locking Bush as spare for v belt pulley also supplied.

Solid Hub Heavy Duty Sheaves engineered by HIC Universal to drive classical 'A' section v belts also produced.



AX Cogged Belt Automotive Pulley

Engine Drive V Belt Pulleys Produced By HIC

Cogged belt drive pulley AX-section v belt sheaves taper bush and general purpose sizes used by automotive engine crankshaft drives manufacturers.

Engine pulley Pitch circle diameter or Outer diam sizes manufactured **AX section PCD** sizes 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 7 mm.



SPA V Belt Fan Pulley

Dual Duty Drive Centrifugal Sheaves Produced by HIC

Centrifugal pulley SPA section wedge v belt sizes used by centrifugal clutch and centrifugal air fan equipment manufacturers.

Fan pulley Pitch circle diameter or Outer diam sizes manufactured SPA section PCD sizes 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 6 mm.**



XPA Belt Automotive Pulley

Metric Power Cogged Belt Drive V Sheaves Produced by HIC

Automotive drive belt pulley XPA section metric power cogged v belt sizes used by automotive original equipment manufacturers.

Automotive V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured XPA section PCD sizes 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 6 mm.**



B Size Belt Drive Shaft Pulley

Pulveriser, Compressor, Gin, Blower V-Sheaves Produced by HIC

Shaft pulley to drive classical B-section v belt with pulleys being keyed and bore finished to desired shaft size as well as with taper bush sheave sets used by manufacturers of pulveriser, air compressor motor, furnace blower drive system, cotton ginning machine producers and others.

V Groove pulley Pitch circle diameter or Outer diam sizes manufactured **B section PCD** sizes 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300, 335, 355 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 8 mm.



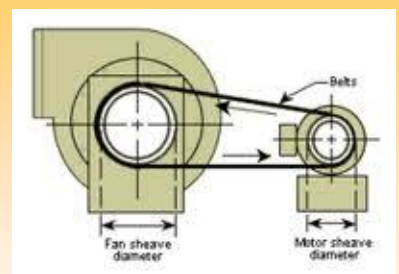
BX Section Vee Groove Marine Pulley

Centrifugal Pump, Engine Drive Sheaves Produced by HIC

Marine pulley to run BX-section size vee belt drive belt taper lock bush pulley for circulating and cooling water used by centrifugal pump manufacturers.

Also, **Fan pulley** cogged BX size fan belt driving taper bush for engine cooling also used by Cummins engine manufacturers.

V Groove pulley Pitch circle diameter or Outer diam sizes manufactured **BX section PCD** sizes 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300, 335, 355, 375, 400 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 8 mm.



SPB Belt Pump Pulley Taper Bush Fitted

Centrifugal Drive Wedge Friction-Belt Sheaves Produced by HIC

Centrifugal pump taper bush pulley SPB section wedge v belt sizes used by centrifugal pumps and water-spray pump manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured **SPB section PCD** sizes 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475, 500, 560 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 7 mm.

Allen key lock system taper bush sizes also produced.



XPB Cogged V Belt Pulley

Rotary Vane Pump Taper Bush Sheaves Produced by HIC

Rotary Vane pump taper bush system pulley XPB cogged wedge v belt sizes used by rotary vane pump v-belt driven vacuum pumps manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured **XPB section PCD** sizes 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, 6, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 7 mm.



C Section Belt Tea Packer Drive Pulley

Taper Bush Drive & Driven Pulleys Produced by HIC

Tea Packer v-belt pulley taper lock bush C section cross reference classical v belt sizes used by tea and coffee packer machine drive belt driven tea machinery manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured **C section PCD** sizes 75, 90, 100, 125, 150, 190, 200, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 2, 3, 4, 5, 6 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 11 mm.



CX Size Belt Gearbox Drive Pulley

V-Groove Driven Split Axle Pulleys Produced by HIC

Gearbox pulley to run CX- cross section size v groove belt driven by industrial gearboxes for transmitting rotation to the input shaft used by spur gearbox manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured **CX section PCD** sizes 140, 150, 160, 170, 180, 190, 200, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 2, 3, 4, 5, 6 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 11 mm.



SPC Belt Mine Pump Pulley

Slurry Pumps Drive Taper Bush V Sheaves Produced by HIC

Slurry pump pulley taper lock bush fitted CNC machined SPC section wedge v belt drive sizes used by mine slurry pumps and heavy duty water-pump manufacturers.

V-Belt pulley with or without taper bush system Pitch circle diameter or Outer diam sizes manufactured SPC section PCD sizes 200, 212, 224, 236, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 2, 3, 4, 5, 6 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 9 mm.



XPC Belt Excavator Drive Pulley

Komatsu, Caterpillar Engine Taper Bush V Sheaves Produced by HIC

Excavator pulley taper lock bush fitted CNC machined XPC cogged metric v belt drive sizes used by Komatsu excavator engine and Caterpillar excavator manufacturers.

V-Belt pulley with or without taper bush system Pitch circle diameter or Outer diam sizes manufactured XPC section PCD sizes 190, 200, 212, 224, 236, 250, 265, 280, 300, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 2, 3, 4, 5, 6 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 9 mm.



D Section Belt Drive Cone Pulley

Metal Machinery Run Cast Iron V Sheaves Produced by HIC

Cone pulley CNC machined statically and also dynamically balanced manufactured of graded cast iron to run D classical section size v belts used by metalworking machinery manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured D section OD sizes 300, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 3, 4, 5, 6, 7, 8 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 11 mm.



E Section CNC Machined Flywheel Belt Pulley

Rolling Mill Machine Drive V Sheaves Produced by HIC

Flywheel pulley CNC machined graded cast iron statically and also dynamically balanced to run E classical section size v belts used by high torque drive rolling mill machine manufacturers.

V-Belt pulley Pitch circle diameter or Outer diam sizes manufactured E section OD sizes 450, 475, 500, 560, 630, 800, 1000, 1250 up to 1600 mm, Sheave Groove numbers 4, 5, 6, 7, 8, 9 to 16, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 16 mm.



SPZ Belt Drive Compressor Pulley

Atlas Copco Rotary Compressors V Sheaves Produced by HIC

Compressor pulley taper bush fitted for assembling - disassembling ease **SPZ** section wedge v belt drive sizes used by Atlas Copco and Hertz-Kompressoren rotary screw compressor manufacturers.

V-belt pulley Pitch circle diameter or Outer diam sizes manufactured **SPZ section** **PCD** sizes 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 4 mm.



XPZ Cogged Belt Shearing Machine Pulley

CNC Machined V Drive Sheaves Produced by HIC

Shearing Machine pulley taper bush fitted CNC machined XPZ cogged metric v belt drive sizes used by bloom cutting shearing machine manufacturers.

Cogged belt pulley Pitch circle diameter or Outer diam sizes manufactured **XPZ section** **PCD** sizes 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, 5, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size, **OD** = PCD + 4 mm.



3V Narrow Belt Truck Pulley

Cooling Systems Cast Iron CNC Machined V Sheaves Produced by HIC

Truck pulley graded cast iron CNC machined 3V narrow v belt drive sizes used by truck cooling systems manufacturers.

Narrow belt pulley Pitch circle diameter or Outer diam sizes manufactured **3V section PCD** sizes 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



5V Belt Lathe Machine Drive Pulley

Taper Bush Fitted V Sheaves Produced by HIC

Lathe Machine pulley taper-lock bush fitted CNC machined 5V narrow v belt drive sizes used by CNC turning lathe machine tool manufacturers.

Narrow v pulley Pitch circle diameter or Outer diam sizes manufactured **5V section PCD** sizes 140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 800 mm, Sheave Groove numbers 2, 3, 4, 5 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



8V Profile Narrow Belt Pulley

Wood Processing Equipment Drive V Sheaves Produced by HIC

Narrow v belt pulley 8V profile section taper-lock bush fitted CNC machined used by wood processing equipment manufacturers.

Narrow belt pulley Pitch circle diameter or Outer diam sizes manufactured **8V section** **PCD** sizes 315, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, 1000 up to 1500 mm, Sheave Groove numbers 4, 5, 6, 7, 8 to 12, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



3VX Cogged Belt Vacuum Pump Pulley

CNC Machined Drive Narrow V Sheaves Produced by HIC

Vacuum Pump pulley graded cast iron CNC machined 3VX cogged narrow v belt drive sizes used by vacuum pump machine manufacturers.

Cogged Narrow belt pulley Pitch circle diameter or Outer diam sizes manufactured **3VX section** **PCD** sizes 63, 67, 71, 75, 80, 85, 90, 95, 100, 112, 125, 132, 140, 150, 160, 170, 180, 190, 200, 250, 265, 280 up to 630 mm, Sheave Groove numbers 1, 2, 3, 4, to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



5VX Cogged Belt Ice Feed Pulley

Tube Machine Drive Narrow V Sheaves Produced by HIC

Ice Feed narrow belt pulley graded cast iron CNC machined 5VX cogged v belt drive sizes used by ice preparation tube machine manufacturers.

Narrow cogged belt pulley Pitch circle diameter or Outer diam sizes manufactured **5VX section PCD** sizes 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, Sheave Groove numbers 2, 3, 4, 5 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



3PK Serpentine Belt Water Pump Pulley

Multi Rib Belts Drive V Sheaves Produced by HIC

Water Pump pulley CNC machined graded cast iron 3PK multi rib serpentine belt drive sizes used by water pumps manufacturers.

Multi rib belt pulley Pitch circle diameter or Outer diam sizes manufactured **3PK multi rib section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, Sheave Groove numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



4PK Fan Belt Multi Rib Pulley

Automotive Exhaust Fans Drive V Pulleys Produced by HIC

Exhaust Fan pulley CNC machined graded cast iron 4PK serpentine multi rib belt drive sizes used by auto exhaust fan manufacturers.

Serpentine belt pulley Pitch circle diameter or Outer diam sizes manufactured **4PK multi rib section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, Sheave Groove numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



5PK Poly V Belt Automotive Pulley

Engine Serpentine Belts Drive Pulleys Produced by HIC

Poly V belt pulley CNC machined graded cast iron multi rib grooved 5PK serpentine belt drive sizes used by automobile engine manufacturers.

Automotive belt pulley Pitch circle diameter or Outer diam sizes manufactured **5PK multi rib section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, Sheave Groove numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



6PK Rib Belt Fitness Machine Pulley

Elliptical Trainer Eqpt. Drive Multi V Pulleys Produced by HIC

Multi Rib belt pulley CNC machined graded cast iron 6PK Poly V multiple rib design drive sizes used by elliptical trainer and fitness equipment manufacturers.

Fitness Machine pulley Pitch circle diameter or Outer diam sizes manufactured **6PK multi rib section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, multi Sheave Groove numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.

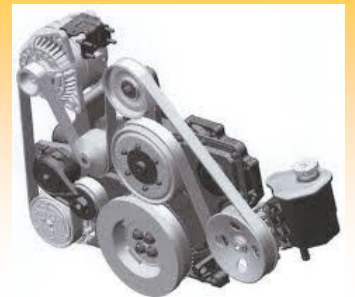


7PK Automotive Belt Drive Ribbed Pulley

Toyota, Volvo Fan Belt Drive Pulleys Produced by HIC

Ribbed belt pulley CNC machined graded cast iron multiple rib 7PK drive sizes used by Toyota, Volvo automotive manufacturers.

Automotive pulley Pitch circle diameter or Outer diam sizes manufactured **7PK fan belt section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, Sheave Groove numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



8PK V Ribbed Belt Automotive Pulley

Mercedes, BMW Drive Serpentine Belt Pulleys Produced by HIC

V-Ribbed belt pulley CNC machined graded cast iron multiple rib 8PK fan driving sizes used by Mercedes, BMW automotive manufacturers.

Serpentine pulley for automotive drive Pitch circle diameter or Outer diam sizes manufactured **8PK fan belt section PCD** sizes 75, 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300 up to 1000 mm, **Sheave Groove** numbers 1, 2, 3, 4 to 10, **Bore** pilot or bore finished to exact size MM, keyed to desired w x d keyway size.



RA Banded Belt Centrifugal Clutch Pulley

Go Kart Drive V Pulleys Produced by HIC

Centrifugal Clutch v-belt pulley CNC machined 'A' profile banded RA sizes used by Go Karts engine manufacturers.

Go Kart pulley Pitch circle diameter or Outer diam sizes manufactured **RA banded section PCD** sizes 80, 85, 90, 95, 100,112, 125, 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300, 315, 335, 355, 375, 400 up to 1000 mm, Sheave Groove Spacing RMA standard only mm 15.9, **Bore** pilot or hole finished to exact size MM, keyed to desired w x d keyway size.



Banded wedge belt pulley RSPA section, minimum PCD mm 100 and Sheave Groove Spacing ISO standard only mm 15 is recommended.

RB Banded Belt Turbine Pulley

Pump Motor and Vertical Shaft Drive Pulleys Produced by HIC

Turbine pulley CNC machined 'B' profile drive banded belt RB sizes mounted on vertical shaft used by turbine pump motor manufacturers.

Pump pulley Pitch circle diameter or Outer diam sizes manufactured **RB banded section PCD** sizes 132,140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, 300, 315, 335, 355, 375, 400, 450, 500 up to 1000 mm, Sheave Groove Spacing RMA and ISO standards Both mm 19.0, **Bore** pilot or hole finished to exact size MM, keyed to desired w x d keyway size.

Banded wedge belt pulley RSPB section, minimum PCD mm 160 and Sheave Groove Spacing ISO standard only mm 19 is recommended.



RC Banded Belt Crusher Pulley

Quarry Crushers Vertical Shaft Drive Pulleys Produced by HIC

Banded Belt pulley CNC machined 'C' profile friction drive belt RC sizes mounted on vertical shaft used by quarry impact crusher manufacturers.

Crusher pulley Pitch circle diameter or Outer diam sizes manufactured **RC banded section PCD** sizes 212, 224, 236, 250, 265, 280, 300, 315, 335, 355, 375, 400, 450, 475, 500, 560, 630, 800, up to 1250 mm, Sheave Groove Spacing RMA and ISO standards Both mm 25.5, **Bore** pilot or hole finished to exact size MM, keyed to desired w x d keyway size.

Banded wedge belt pulley RSPC section, minimum PCD mm 224 and Sheave Groove Spacing ISO standard only mm 25.5 is recommended.

Banded V grooved belt pulley that are used for large pulsating load drives, **v-pulley groove spacing** must be proper to ensure trouble-free performance and HIC Universal specializes in manufacture of banded belt pulleys in India.



Maximum of 5 numbers v belts are used in 1 band.
For 6 belts, 2 bands of 3 are used in manufacturing.
For 8 belts, 2 bands of 4 are used in manufacturing.
For 9 belts, 1 band of 4 and 1 band of 5 are used in manufacturing.

Dynamic Balancing of Belt Pulley

Two-Plane Balance of Drive Pulleys Sheaves Tested by HIC

Drive belts to run at high speeds > 3,000 rpm or > 30 m/s requires **dynamic balancing of belt pulley** sheaves, systematic dynamic test performed on sheave balancing machine in HIC's workshop.

Compute dynamic balancing, whether desirable, by following formula:- $RPM = 15,500 / \sqrt{(D.F.)}$

Where, D = pulley Diameter in inches ; F = Face Width of belt pulley in inches

Resultant RPM is maximum suggested operating RPM for a belt pulley or sheave with a single plane balance.

Two-plane Balance is recommended in case belt pulley is to run at a very higher speed.



Order Quantity Minimums

Numbers of HIC Belt Pulleys and Chain Sprockets Supplied

V belt pulley, Taper Bush pulley, Taper Bush with metric bore, QD bushed v-pulley, Banded belt sheaves, Narrow belt pulleys, Dual Duty v sheaves, Wedge section belts drive sheaves, cast iron pulleys, dynamically balanced pulley sheave Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Flat belt pulley, Mild Steel Flat mount sheaves, Flat pulleys with collars Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Timing pulley, Mild Steel Timing sheaves, Taper Bush timing pulley, Aluminium timing pulleys Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Chain Sprocket, Double chain sprocket, Single roller chain sprocket Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Packed in sea-worthy jute or HDPE bags or wooden box-crate.



Nomenclature of V Belt Pulley

Diameter, Grooves and Dual Duty Taper Bush to Drive Industrial Belt: Technical Data



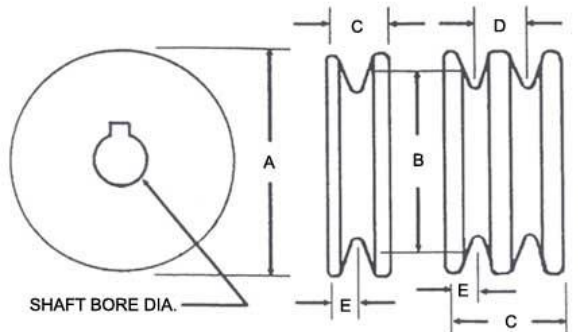
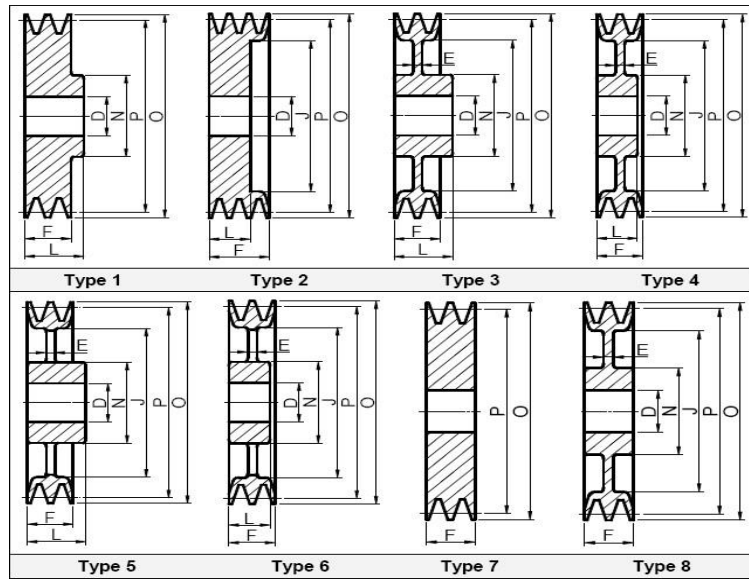
Industrial Pulley for use with A/SPA Section Belts					Industrial Pulley for use with A/SPA Section Belts					Industrial Pulley for use with A/SPA Section Belts				
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type
80	2	1215	32	6	90	2	1615	42	3	100	2	1615	42	6
	3	1215	32	6		3	1615	42	3		3	1615	42	6
	4	1210	32	6		4	1610	42	6		4	1610	42	6
	5	1108	28	6		5	1108	28	6		5	1610	42	6
85	2	1215	32	6	95	2	1615	42	3	106	2	2012	50	6
	3	1215	32	6		3	1615	42	3		3	1615	42	6
	4	1210	32	6		4	1610	42	6		4	1610	42	6
	5	1108	28	6		5	1610	42	6		5	1610	42	6
Industrial Pulley for use with A/SPA Section Belts					Industrial Pulley for use with A/SPA Section Belts					Industrial Pulley for use with B/SPB Section Belts				
Pitch Dia	No. Of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type
112	2	1610	42	6	315	2	2517	60	4	180	2	2012	50	6
	3	2012	50	6		3	3020	75	8		3	2517	60	6
	4	2012	50	6		4	3020	75	7		4	2517	60	3
	5	2012	50	6		5	3535	90	8		5	3020	75	3
118	2	1610	42	6	400	2	2517	60	4	190	2	2517	60	1
	3	2012	50	6		3	3020	75	4		3	2517	60	6
	4	2012	50	6		4	3020	75	5		4	2517	60	3
	5	2012	50	6		5	3535	90	4		5	3020	75	3
125	2	1610	42	2	Industrial Pulley for use with B/SPB Section Belts					200	2	2517	60	1
	3	2012	50	2							3	2517	60	2
	4	2012	50	2							4	3020	75	2
	5	2012	50	2							5	3020	75	2
132	2	1610	42	2	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	212	2	2517	60	1
	3	2012	50	2							3	2517	60	2
	4	2517	60	2							4	3020	75	2
	5	2517	60	2							5	3020	75	2
				6						3020	75	2		



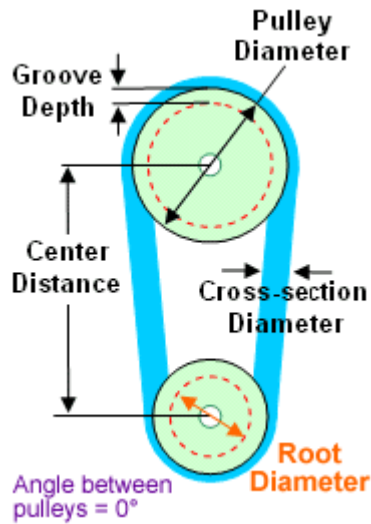
140	2	2012	50	6	125	2	1610	42	6	224	2	2517	60	1
	3	2517	60	2		3	1610	42	6		3	2517	60	2
	4	2517	60	2		4	2012	50	3		4	3020	75	2
	5	2517	60	2		5	2012	50	3		5	3020	75	2
	6				6	2012	50	3	6	3020	75	2		
150	2	2012	50	6	132	2	1610	42	6	236	2	2517	60	1
	3	2517	60	2		3	1610	42	6		3	2517	60	2
	4	2517	60	2		4	2012	50	3		4	3020	75	2
	5	2517	60	2		5	2012	50	2		5	3020	75	2
	6				6	2012	50	3	6	3020	75	2		
160	2	2012	50	6	140	2	1610	42	6	250	2	2517	60	8
	3	2517	60	2		3	1610	42	6		3	3020	75	2
	4	2517	60	2		4	2012	50	3		4	3020	75	2
	5	2517	60	2		5	2012	50	2		5	3020	75	2
	6				6	2517	60	3	6	3020	75	2		
180	2	2012	50	2	150	2	1610	42	6	280	2	2517	60	8
	3	2517	60	2		3	2012	50	6		3	3020	75	7
	4	2517	60	2		4	2012	50	3		4	3020	75	7
	5	3020	75	2		5	2517	60	2		5	3535	90	7
	6				6	2517	60	2	6	3535	90	7		
200	2	2517	60	8	160	2	2012	50	6	315	2	3020	60	8
	3	2517	60	3		3	2517	60	6		3	3020	75	7
	4	3020	75	2		4	2517	60	3		4	3535	90	8
	5	3020	75	2		5	2517	60	3		5	3535	90	7
	6				6	2517	60	2	6	3535	90	7		
250	2	2517	60	8	170	2	2012	50	6	355	2	2517	75	4
	3	2517	60	7		3	2517	60	6		3	3020	75	5
	4	3020	75	7		4	2517	60	3		4	3535	90	8
	5	3020	75	7		5	3020	75	3		5	3535	90	7
	6				6	3020	75	2	6	3535	90	7		
Industrial Pulley for use with B/SPB Section Belts					Industrial Pulley for use with C/SPC Section Belts					Industrial Pulley for use with C/SPC Section Belts				
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type
400	2	3020	75	4	236	4	3535	90	3	425	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	7
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	3535	90	5		7	3535	90	3		7	4545	110	7
	6	3535	90	5	8	3535	90	3	8	5050	125	7		
500	2	3020	75	4	250	4	3535	90	3	450	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	5
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	3535	90	5		7	3535	90	3		7	5050	125	7
	6	4040	100	5	8	3535	90	3	8	5050	125	7		



630	2	3030	75	4	265	4	3535	90	3	475	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	5
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	4040	100	4		7	3535	90	3		7	5050	125	7
	6	4040	100	5		8	3535	90	3		8	5050	125	7
800	2	3030	75	4	280	4	3535	90	3	500	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	5
	4	4040	100	4		6	3535	90	3		6	4545	110	5
	5	4040	100	4		7	3535	90	3		7	5050	125	7
	6	4545	110	5		8	3535	90	3		8	5050	125	7
1000	3	4040	100	4	300	4	3535	90	7	530	4	4040	100	5
	4	4040	100	4		5	3535	90	7		5	4545	110	5
	5	4545	110	4		6	3535	90	7		6	5050	125	5
	6	4545	100	5		7	3535	90	7		7	5050	125	7
						8	4040	100	3		8	5050	125	7
Industrial Pulley for use with C/SPC Section Belts					315	4	3535	90	7	560	4	4040	100	5
						5	3535	90	7		5	4545	110	5
						6	3535	90	7		6	5050	125	5
						7	3535	90	7		7	5050	125	5
						8	4040	100	3		8	5050	125	5
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	335	4	3535	90	7	630	4	4545	110	4
						5	3535	90	7		5	5050	125	5
						6	3535	90	7		6	5050	125	5
						7	3535	90	7		7	5050	125	5
						8	4040	100	3		8	5050	125	5
200	4	3020	75	3	355	4	3535	90	7	800	4	5050	125	4
	5	3535	90	3		5	3535	90	7		5	5050	125	5
	6	3535	90	3		6	3535	90	7		6	5050	125	5
	7	3535	90	3		7	4040	90	7		7	5050	125	5
	8	3535	90	3		8	4040	100	3		8	5050	125	5
212	4	3020	75	3	375	4	3535	90	7	1000	4	5050	125	4
	5	3535	90	3		5	3535	90	7		5	5050	125	5
	6	3535	90	3		6	4040	100	7		6	5050	125	5
	7	3535	90	3		7	4040	100	7		7	5050	125	5
	8	3535	90	3		8	4045	110	7		8	5050	125	5
224	4	3535	90	3	400	4	3535	90	5	1250	4	5050	125	4
	5	3535	90	3		5	3535	90	5		5	5050	125	5
	6	3535	90	3		6	4040	100	7		6	5050	125	5
	7	3535	90	3		7	4545	110	7		7	5050	125	5
	8	3535	90	3		8	4545	110	7		8	5050	125	5



- A. Outside Diameter
- B. Nominal Diameter
- C. Overall Width
- D. Center to Center of Grooves
- E. Center of Groove to Rear Face



Drive and Driven Pulleys Length Estimation

Dual Duty Taper Bush Pulleys

Face Width of Cone Bush Pulley: Technical Specifications



<i>Face Width Of Duo Applications Cone Bush Pulleys</i>							
<i>No. of V Belt Grooves</i>							
Belt Section	2	3	4	5	6	7	8
A	35	50	65	80	-	-	-
B	44	63	82	101	120	-	-
C	-	-	111	136	162	187	213

Nomenclature of Taper Bush

Weld on Hubs for Belt Pulley Dimension in MM: Technical Specifications



Cone & Bush size	1008	1108	1210	1215	1310	1610	1615	2012	2517	2525	3020	3030	3535	3525	4040	4545	5050
Nominal dia at large end of cone	35.0	38.0	47.5	47.5	51.0	57.0	57.0	70.0	85.5	85.5	108.0	108.0	127.0	127.0	146.0	162.0	177.5
face width	22	22	25	38	25	25	38	32	45	65	51	76	65	89	102	114	127
minimum bore	9	9	11	11	14	14	14	14	16	19	25	35	48	35	40	55	70
maximum bore	25	28	32	32	35	42	42	50	60	60	75	75	90	90	100	110	125

Notes: CONE WEDGE Bushes are stocked to suit standard metric and imperial shafts. All keyways are as per relevant ISI standards bores can be provided against customer's requirements.

WELDABLE HUBS for Steel Pulleys, Sprockets, Fans, Agitators, etc are also available with cone bushes for quick fitting. Advantages are same as in Quick Fit Pulleys with Cone Bushes.

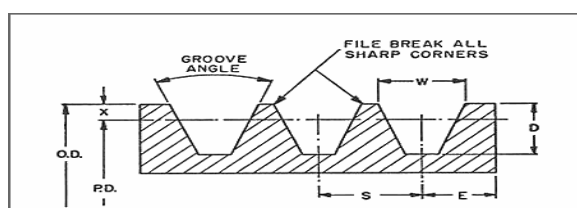
Standard Weldable Hubs with Cone Bushes are off the shelf for shaft sizes up to 125 mm dia.



Taper Bush

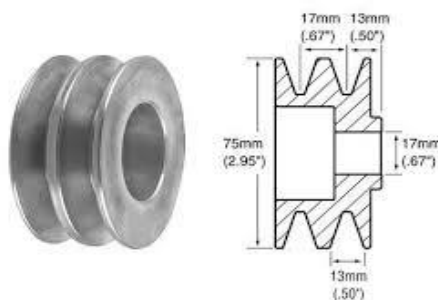


Universal Weld on Hub



V Groove Pulley Dimensions

Pitch Dia and Groove Angle of Classical and Wedge Belt Sheaves: Technical Specifications



v Belt Groove Cross-Section	Pulley pitch Diameter dp (mm)	Groove Angle A Degree $\pm 0.5^\circ$	Minimum Top width of groove g (mm)	Minimum Groove depth below outside diameter hg (mm)	Centre to centre of grooves sg (mm)	Edge of Pulley to first Groove Centre (mm)
SPZ	up to 80 over 80	34 38	9.7 9.9	11.0	12+0.3	8.0+1.0
A SPA	up to 118 over 118	34 38	13.0 13.3	13.8	15+0.3	10.0+2.0 -1.0
B SPB	up to 190 over 190	34 38	16.6 16.9	17.5	19+0.4	12.5+2.0 -1.0
C SPC	up to 315 over 315	34 38	22.7 22.9	23.8	25.5+0.5	17+2.0 -1.0
D	up to 475 over 475	36 38	32.2 32.6	28.0	37.0+0.6	24.0+3.0 -1.0
E	Up to 630 over 630	36 38	38.3 38.6	33.0	44.5+0.7	29+4.0 -1.0

When the pulley are to be used for v-belt sections A, B or C only, dimension hg may be reduced by 20%

Notes: [Dynamic Balancing of pulleys undertaken please](#) and our lab Test Certificate is provided

Nomenclature of Poly V Pulleys

Diameter, J L Section Type and Taper Bush Sheaves Sizes: Technical Specifications



4 Groove "J" Section Poly V Pulleys					
C=13.5					
O. D	Type	Bush	A	B	D
20	1	-	-	22.5	5.0
25	1	-	-	22.5	5.0
30	1	-	-	22.5	9.5
35	1	-	-	22.5	9.5
40	1	-	-	22.5	12.0
45	1	-	-	22.5	12.0
50	1	-	-	22.5	12.0
56	7	1108	50	23.0	-
60	7	1108	50	23.0	-
63	7	1108	50	23.0	-
67	7	1108	50	23.0	-
71	7	1108	60	23.0	-
75	7	1108	60	23.0	-
80	7	1310	70	26.0	-
85	7	1310	70	26.0	-
90	7	1610	82	26.0	-
95	7	1610	82	26.0	-

4 Groove "J" Section Poly V Pulleys					
C=13.5					
O. D	Type	Bush	A	B	D
100	7	1610	82	26.0	-
106	7	1610	88	26.0	-
112	7	1610	90	26.0	-
118	7	1610	90	26.0	-
125	8	1610	90	26.0	-
132	8	1610	90	26.0	-
140	8	1610	90	26.0	-
160	8	2012	110	32.0	-
180	6	2012	110	32.0	-
200	6	2012	110	32.0	-
224	6	2012	110	32.0	-
250	9	2012	110	32.0	-
280	9	2012	110	32.0	-
315	9	2012	110	32.0	-
355	9	2517	120	45.0	-
400	9	2517	120	45.0	-

Nomenclature of Poly V Pulleys

8 Groove "J" Section					
C=23					
O. D	Type	Bush	A	B	D
20	1	-	-	32	5.0
25	1	-	-	32	5.0
30	1	-	-	32	9.5
35	1	-	-	32	9.5
40	1	-	-	32	12.0
45	1	-	-	32	12.0
50	1	-	-	32	12.0
56	3	1108	-	23	-
60	3	1108	-	23	-
63	3	1108	-	23	-
67	3	1108	-	23	-
71	3	1108	-	23	-
75	3	1108	-	23	-
80	7	1310	70	26	-
85	7	1310	70	26	-
90	7	1610	82	26	-
95	7	1610	82	26	-

8 Groove "J" Section					
C=23					
O. D	Type	Bush	A	B	D
100	7	1610	82	26	-
106	7	1610	88	26	-
112	7	1610	90	26	-
118	7	1610	90	26	-
125	8	1610	90	26	-
132	8	1610	90	26	-
140	8	1610	90	26	-
160	8	2012	110	32	-
180	6	2012	110	32	-
200	6	2012	110	32	-
224	6	2012	110	32	-
250	9	2012	110	32	-
280	9	2012	110	32	-
315	9	2012	110	32	-
355	9	2517	120	45	-
400	9	2517	120	45	-

Nomenclature of Poly V Pulleys

12 Groove "J" Section					
C=32.5					
O. D	Type	Bush	A	B	D
20	1	-	-	41.5	5.0
25	1	-	-	41.5	5.0
30	1	-	-	41.5	9.5
35	1	-	-	41.5	9.5
40	1	-	-	41.5	12.0
45	1	-	-	41.5	12.0
50	1	-	-	41.5	12.0
56	1	-	-	41.5	12.0
60	2	1108	-	23	-
63	2	1108	-	23	-
67	2	1108	-	23	-
71	2	1108	-	23	-
75	2	1210	-	23	-
80	2	1610	-	26	-
85	2	1610	-	26	-
90	2	1610	-	26	-
95	2	1610	-	26	-

12 Groove "J" Section					
C=32.5					
O. D	Type	Bush	A	B	D
100	2	1610	-	26.0	-
106	2	1610	-	26.0	-
112	2	1610	-	26.0	-
118	2	2012	-	32.0	-
125	2	2012	-	32.0	-
132	2	2012	-	32.0	-
140	7	2517	120	45.0	-
160	8	2517	120	45.0	-
180	6	2517	120	45.0	-
200	6	2517	120	45.0	-
224	6	2517	120	45.0	-
250	6	2517	120	45.0	-
280	9	2517	120	45.0	-
315	9	2517	120	45.0	-
355	9	2517	120	45.0	-
400	9	2517	120	45.0	-

Nomenclature of Poly V Pulleys

16 Groove "J" Section					
C=42					
O. D	Type	Bush	A	B	D
20	1	-	-	51.0	5.0
25	1	-	-	51.0	5.0
30	1	-	-	51.0	9.5
35	1	-	-	51.0	9.5
40	1	-	-	51.0	12.0
45	1	-	-	51.0	12.0
50	1	-	-	51.0	12.0
56	1	-	-	51.0	12.0
60	1	-	-	51.0	12.0
63	1	-	-	51.0	12.0
67	1	-	-	51.0	12.0
71	3	1215	-	42.0	-
75	2	1610	-	26.0	-
80	2	1610	-	26.0	-
85	2	1610	-	26.0	-
90	2	1610	-	26.0	-
95	2	1610	-	26.0	-

16 Groove "J" Section					
C=42					
O. D	Type	Bush	A	B	D
100	2	1610	-	26.0	-
106	2	1610	-	26.0	-
112	2	1610	-	26.0	-
118	2	2012	-	32.0	-
125	2	2012	-	32.0	-
132	2	2012	-	32.0	-
140	7	2517	120	45.0	-
160	8	2517	120	45.0	-
180	6	2517	120	45.0	-
200	6	2517	120	45.0	-
224	6	2517	120	45.0	-
250	6	2517	120	45.0	-
280	9	2517	120	45.0	-
315	9	2517	120	45.0	-
355	9	3020	146	52.0	-
400	9	3020	146	52.0	-

Nomenclature of Poly V Pulleys

6 Groove "L" Section				
C=13.5				
O. D	Type	Bush	A	B
75	2	1210	-	26
80	2	1210	-	26
85	2	1210	-	26
90	2	1610	-	26
95	2	1210	-	26
100	2	1610	-	26
106	2	1610	-	26
112	2	1610	-	26
118	2	2012	-	32
125	2	2012	-	32
132	2	2012	-	32
140	7	2517	120	45
150	7	2517	120	45
160	7	2517	120	45
170	8	2517	120	45
180	6	2517	120	45
190	6	2517	120	45
200	6	2517	120	45
212	6	2517	120	45
224	6	2517	120	45
236	6	2517	120	45
250	9	2517	120	45
280	6	2517	120	45
315	9	2517	120	45
355	9	3020	146	52
400	9	3020	146	52

8 Groove "L" Section				
C=23				
O. D	Type	Bush	A	B
75	2	1210	-	26
80	2	1210	-	26
85	2	1210	-	26
90	2	1610	-	26
95	2	1210	-	26
100	2	1610	-	26
106	2	1610	-	26
112	2	1610	-	26
118	2	2012	-	32
125	2	2012	-	32
132	2	2012	-	32
140	2	2517	-	45
150	2	2517	-	45
160	2	2517	-	45
170	2	2517	-	45
180	5	2517	120	45
190	5	2517	120	45
200	5	2517	120	45
212	5	2517	120	45
224	5	2517	120	45
236	5	2517	120	45
250	5	2517	120	45
280	6	3020	146	52
315	9	3020	146	52
355	9	3020	146	52
400	9	3020	146	52

Nomenclature of Poly V Pulleys

10 Groove "L" Section				
C=57				
O. D	Type	Bush	A	B
75	2	1215	-	42
80	2	1215	-	42
85	2	1215	-	42
90	2	1615	-	42
95	2	1215	-	42
100	2	2012	-	32
106	2	2012	-	32
112	2	2012	-	32
118	4	2517	-	45
125	4	2517	-	45
132	4	2517	-	45
140	4	2517	-	45
150	4	2517	-	45
160	4	2517	-	45
170	4	2517	-	45
180	5	2517	120	45
190	5	2517	120	45
200	5	3020	146	52
212	5	3020	146	52
224	5	3020	146	52
236	5	3020	146	52
250	5	3020	146	52
280	5	3020	146	52
315	6	3535	178	89
355	9	3535	178	89
400	9	3535	178	89

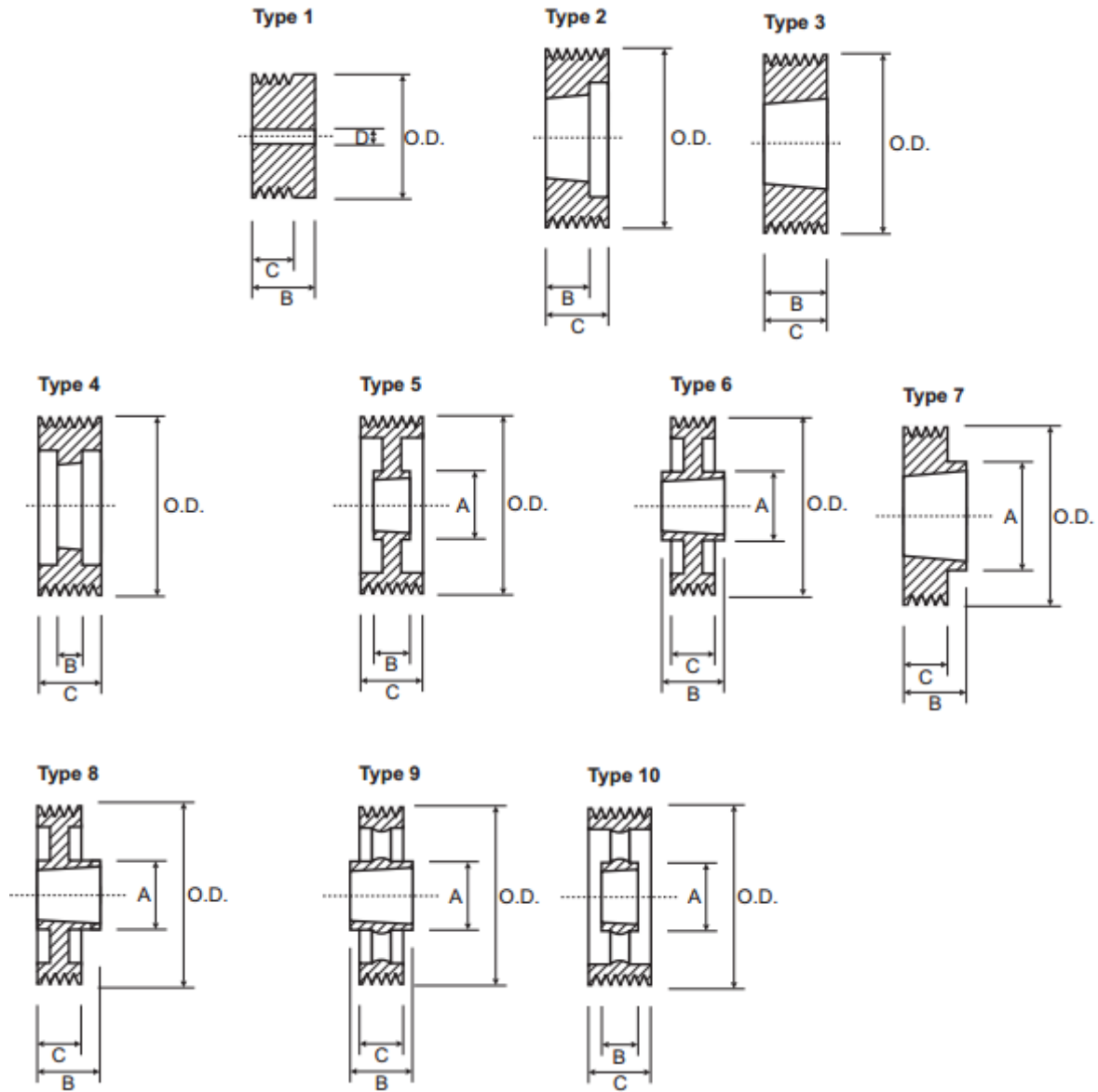
12 Groove "L" Section				
C=67				
O. D	Type	Bush	A	B
75	2	1215	-	42
80	2	1215	-	42
85	2	1215	-	42
90	2	1615	-	42
95	2	1215	-	42
100	2	2012	-	32
106	2	2012	-	32
112	2	2012	-	32
118	4	2517	-	45
125	4	2517	-	45
132	4	2517	-	45
140	4	2517	-	45
150	4	2517	-	45
160	4	2517	-	45
170	4	2517	-	45
180	4	2517	120	45
190	5	2517	120	45
200	5	3020	146	52
212	5	3020	146	52
224	5	3020	146	52
236	5	3020	146	52
250	5	3020	146	52
280	5	3020	146	52
315	6	3535	178	89
355	9	3535	178	89
400	9	3535	178	89

Nomenclature of Poly V Pulleys

16 Groove "L" Section				
C=85				
O. D	Type	Bush	A	B
85	4	1215	-	42
90	4	1615	-	42
95	4	1215	-	42
100	4	2012	-	32
106	4	2012	-	32
112	4	2012	-	32
118	4	2517	-	45
125	4	2517	-	45
132	4	2517	-	45
140	4	2517	-	45
150	4	2517	-	45
160	4	3020	-	52
170	4	3020	-	52
180	4	3020	-	52
190	5	3020	146	52
200	5	3020	146	52
212	5	3020	146	52
224	5	3020	146	52
236	5	3020	146	52
250	5	3020	146	52
280	6	3535	178	89
315	6	3535	178	89
355	9	3535	178	89
400	9	3535	178	89

20 Groove "L" Section				
C=105				
O. D	Type	Bush	A	B
118	4	2517	-	45
125	4	2517	-	45
132	4	2517	-	45
140	4	3020	-	52
150	4	3020	-	52
160	4	3020	-	52
170	4	3020	-	52
180	4	3020	-	52
190	5	3020	146	52
200	4	3535	-	89
212	4	3535	-	89
224	5	3535	178	89
236	5	3535	178	89
250	5	3535	178	89
280	5	3535	178	89
315	5	4040	215	102
355	5	4040	215	102
400	10	4040	215	102

Poly V Pulley TYPES



Nomenclature of Timing Pulley

Trapezoidal (Inch Pitch) and HTD Belt Pulleys Teeth and Diameter: Technical Specifications



XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
10	0.637	0.617
11	0.700	0.680
12	0.764	0.744
13	0.828	0.808
14	0.891	0.871
15	0.955	0.935
16	1.019	0.999
17	1.082	1.062
18	1.146	1.126
19	1.210	1.190
20	1.273	1.253
21	1.337	1.317
22	1.401	1.381
23	1.464	1.444
24	1.528	1.508
25	1.592	1.572
26	1.655	1.635
27	1.719	1.699
28	1.783	1.763
29	1.846	1.826
30	1.910	1.890
31	1.974	1.954
32	2.037	2.017
33	2.101	2.081
34	2.165	2.145
35	2.228	2.208
36	2.292	2.272
37	2.355	2.335
38	2.419	2.399
39	2.483	2.463
40	2.546	2.526
41	2.610	2.590
42	2.674	2.654
43	2.737	2.717
44	2.801	2.781
45	2.865	2.845

XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
46	2.928	2.908
47	2.992	2.972
48	3.056	3.036
49	3.119	3.099
50	3.183	3.163
51	3.247	3.227
52	3.310	3.290
53	3.374	3.354
54	3.438	3.418
55	3.501	3.481
56	3.565	3.545
57	3.629	3.609
58	3.692	3.672
59	3.756	3.736
60	3.820	3.800
61	3.883	3.863
62	3.947	3.927
63	4.011	3.991
64	4.074	4.054
65	4.138	4.118
66	4.202	4.182
67	4.265	4.245
68	4.329	4.309
69	4.393	4.373
70	4.456	4.436
71	4.520	4.500
72	4.584	4.564
73	4.647	4.627
74	4.711	4.691
75	4.775	4.755
76	4.838	4.818
77	4.902	4.882
78	4.966	4.946
79	5.029	5.009
80	5.093	5.073
81	5.157	5.137

XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
82	5.220	5.200
83	5.284	5.264
84	5.348	5.328
85	5.411	5.391
86	5.475	5.455
87	5.539	5.519
88	5.602	5.582
89	5.666	5.646
90	5.730	5.710
91	5.793	5.773
92	5.857	5.837
93	5.921	5.901
94	5.984	5.964
95	6.048	6.028
96	6.112	6.092
97	6.175	6.155
98	6.239	6.219
99	6.303	6.283
100	6.366	6.346
101	6.430	6.410
102	6.494	6.474
103	6.557	6.537
104	6.621	6.601
105	6.685	6.665
106	6.748	6.728
107	6.812	6.792
108	6.875	6.855
109	6.939	6.919
110	7.003	6.983
111	7.066	7.046
112	7.130	7.110
113	7.194	7.174
114	7.257	7.237
115	7.321	7.301
116	7.385	7.365
117	7.448	7.428

XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
118	7.512	7.492
119	7.576	7.556
120	7.639	7.619
121	7.703	7.683
122	7.767	7.747
123	7.830	7.810
124	7.894	7.874
125	7.958	7.938
126	8.021	8.001
127	8.085	8.065
128	8.149	8.129
129	8.212	8.192
130	8.276	8.256
131	8.340	8.320
132	8.403	8.383
133	8.467	8.447
134	8.531	8.511
135	8.594	8.574
136	8.658	8.638
137	8.722	8.702
138	8.785	8.765
139	8.849	8.829
140	8.913	8.893
141	8.976	8.956
142	9.040	9.020
143	9.104	9.084
144	9.167	9.147
145	9.231	9.211
146	9.295	9.275
147	9.358	9.338
148	9.422	9.402
149	9.486	9.466
150	9.549	9.529
151	9.613	9.593
152	9.677	9.657
153	9.740	9.720

Nomenclature of Timing Pulley

XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
154	9.804	9.784
155	9.868	9.848
156	9.931	9.911
157	9.995	9.975
158	10.059	10.039
159	10.122	10.102
160	10.186	10.166
161	10.250	10.230
162	10.313	10.293
163	10.377	10.357
164	10.441	10.421
165	10.504	10.484
166	10.568	10.548
167	10.632	10.612
168	10.695	10.675
169	10.759	10.739
170	10.823	10.803
171	10.886	10.866
172	10.950	10.930
173	11.014	10.994
174	11.077	11.057
175	11.141	11.121
176	11.205	11.185
177	11.268	11.248
178	11.332	11.312
179	11.395	11.375
180	11.459	11.439
181	11.523	11.503
182	11.586	11.566
183	11.650	11.630
184	11.714	11.694
185	11.777	11.757
186	11.841	11.821
187	11.905	11.885
188	11.968	11.948
189	12.032	12.012

XL (1/5" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
190	12.096	12.076
191	12.159	12.139
192	12.223	12.203
193	12.287	12.267
194	12.350	12.330
195	12.414	12.394
196	12.478	12.458
197	12.541	12.521
198	12.605	12.585
199	12.669	12.649
200	12.732	12.712
201	12.796	12.776
202	12.860	12.840
203	12.923	12.903
204	12.987	12.967
205	13.051	13.031
206	13.114	13.094
207	13.178	13.158
208	13.242	13.222
209	13.305	13.285
210	13.369	13.349
211	13.433	13.413
212	13.496	13.476
213	13.560	13.540
214	13.624	13.604
215	13.687	13.667
216	13.751	13.731
217	13.815	13.795
218	13.878	13.858
219	13.942	13.922
220	14.006	13.986

Nomenclature of Timing Pulley

L (3/8" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
10	1.194	1.164
11	1.313	1.283
12	1.432	1.402
13	1.552	1.522
14	1.671	1.641
15	1.790	1.760
16	1.910	1.880
17	2.029	1.999
18	2.149	2.119
19	2.268	2.238
20	2.387	2.357
21	2.507	2.477
22	2.626	2.596
23	2.745	2.715
24	2.865	2.835
25	2.984	2.954
26	3.104	3.074
27	3.223	3.193
28	3.342	3.312
29	3.462	3.432
30	3.581	3.551
31	3.700	3.670
32	3.820	3.790
33	3.939	3.909
34	4.058	4.028
35	4.178	4.148
36	4.297	4.267
37	4.417	4.387
38	4.536	4.506
39	4.655	4.625
40	4.775	4.745
41	4.894	4.864
42	5.013	4.983
43	5.133	5.103
44	5.252	5.222
45	5.371	5.341

L (3/8" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
46	5.491	5.461
47	5.610	5.580
48	5.730	5.700
49	5.849	5.819
50	5.968	5.938
51	6.088	6.058
52	6.207	6.177
53	6.326	6.296
54	6.446	6.416
55	6.565	6.535
56	6.685	6.655
57	6.804	6.774
58	6.923	6.893
59	7.043	7.013
60	7.162	7.132
61	7.281	7.251
62	7.401	7.371
63	7.520	7.490
64	7.639	7.609
65	7.759	7.729
66	7.878	7.848
67	7.998	7.968
68	8.117	8.087
69	8.236	8.206
70	8.356	8.326
71	8.475	8.445
72	8.594	8.564
73	8.714	8.684
74	8.833	8.803
75	8.952	8.922
76	9.072	9.042
77	9.191	9.161
78	9.311	9.281
79	9.430	9.400
80	9.549	9.519
81	9.669	9.639

L (3/8" Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
82	9.788	9.758
83	9.907	9.877
84	10.027	9.997
85	10.146	10.116
86	10.265	10.235
87	10.385	10.355
88	10.504	10.474
89	10.624	10.594
90	10.743	10.713
91	10.862	10.832
92	10.982	10.952
93	11.101	11.071
94	11.220	11.190
95	11.340	11.310
96	11.459	11.429
97	11.579	11.549
98	11.698	11.668
99	11.817	11.787
100	11.937	11.907
101	12.056	12.026
102	12.175	12.145
103	12.295	12.265
104	12.414	12.384
105	12.533	12.503
106	12.653	12.623
107	12.772	12.742
108	12.892	12.862
109	13.011	12.981
110	13.130	13.100
111	13.250	13.220
112	13.369	13.339
113	13.488	13.458
114	13.608	13.578
115	13.727	13.697
116	13.846	13.816
117	13.966	13.936

Nomenclature of Timing Pulley

HTD (14mm Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
23	4.035	3.925
24	4.211	4.101
25	4.386	4.276
26	4.562	4.452
27	4.737	4.627
28	4.912	4.802
29	5.088	4.978
30	5.263	5.153
31	5.439	5.329
32	5.614	5.504
33	5.790	5.680
34	5.965	5.855
35	6.141	6.031
36	6.316	6.206
37	6.491	6.381
38	6.667	6.557
39	6.842	6.732
40	7.018	6.908
41	7.193	7.083
42	7.369	7.259
43	7.544	7.434
44	7.720	7.610
45	7.895	7.785
46	8.071	7.961
47	8.246	8.136
48	8.421	8.311
49	8.597	8.487

HTD (14mm Pitch)		
Number of Teeth	Pitch Diameter (PD)	Outside Diameter (O.D.)
50	8.772	8.662
51	8.948	8.838
52	9.123	9.013
53	9.299	9.189
54	9.474	9.364
55	9.650	9.540
56	9.825	9.715
57	10.000	9.890
58	10.176	10.066
59	10.351	10.241
60	10.527	10.417
61	10.702	10.592
62	10.878	10.768
63	11.053	10.943
64	11.229	11.119
65	11.404	11.294
66	11.579	11.469
67	11.755	11.645
68	11.930	11.820
69	12.106	11.996
70	12.281	12.171
71	12.457	12.347
72	12.632	12.522
73	12.808	12.698
74	12.983	12.873
75	13.158	13.048
76	13.334	13.224
77	13.509	13.399
78	13.685	13.575
79	13.860	13.750
80	14.036	13.926

How to calculate Pitch Diameter and Outer Diameter?

Formula: Pitch Diameter, PD = (Pitch x Number of Teeth) / π ; while

Outer diameter, OD = [(Pitch x number of teeth) / π] - (2 x Distance from belt Pitch line to belt tooth bottom)

For E.g., for 25 teeth of XL size timing pulley

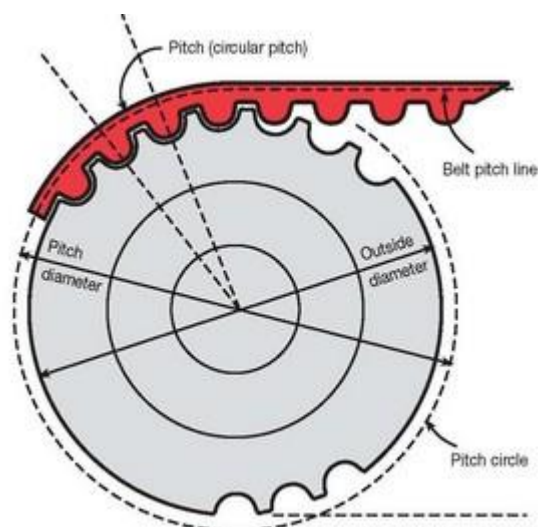
PITCH DIA, PD = 0.200 (1/5" pitch of XL) x 25 (teeth) / 3.14 (equals Pi, π)

= 1.592 inches pitch diameter arrived

OUTER DIA, OD = 0.200 (1/5" pitch of XL) x 25 (teeth) / 3.14 - (2 X 0.01 inches distance for L size)

= 1.572 inches outer diameter arrived

Similarly, can calculate for other type of timing belt pulleys





Timing Belt **Power Capacity Ratings**

KW/25mm Belt at 100rpm speed

Engine pulley driver teeth type	10	11	12	13	14	15	16	17	18	19	20	21	22	24	26	28	30	32	36	40	44	48	
XL (1/5' pitch)	.01	.01	.01	.15	.02	.02	.02	.03	.03	.03	.03	.03	.03	.04	.04	.04							
L (3/8' pitch)	.04	.04	.04	.05	.05	0.6	.06	.07	.07	.07	.07	.08	.09	.10	.10	.11	.12	.13	.14	.16	.17	.19	
H (1/2' pitch)	-	-	-	-	.19	.20	.21	.22	.24	.25	.26	.28	.29	.31	.34	.37	.40	.43	.48	.53	.58	.63	
XH (7/8' pitch)	-	-	-	-	-	-	-	-	.57	.60	.63	.65	.69	.75	.83	.88	.94	1.0	1.1	1.25	-	-	
XXH (1-1/4' pitch)	-	-	-	-	-	-	-	-	.99	1.0	1.1	1.15	1.22	1.30	1.43	1.5	1.65	1.8	1.95	2.2	-	-	

*** Taper bush system timing pulley also manufactured.**

Disclaimer: Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.



Selection of Belt Pulley

Power Transmission Drive Belts Rotation HIC Sheaves Guide*

Follow simple steps for as to How to select v-belt pulley, timing pulley and flat belt pulleys for power transmission drive:-

Step 1 of HIC Universal pulleys sheaves Selection:

Outside Diameter or Pitch dia of pulley size - Outside diameter or Pitch circle diameter PCD in MM or Inches of driving pulley and driven pulley be estimated taking into account recommended minimum pulley size for each type of drive v-belt section profile or timing belts pitch size or flat belting.

Step 2 of HIC Universal pulleys sheaves Selection:

V-belt Section or Timing belt Pitch Dia type of pulley - Select classical v-belt section or wedge belt section or narrow v-belt section or banded v-belt section or timing belts Pitch size of belts to be driven on pulley.

Step 3 of HIC Universal pulleys sheaves Selection:

Sheave Groove Numbers or Tooth Profile or Face Width of belt pulley - Number of grooves required of v belt pulley to transmit power or machinery torque Or trapezoidal tooth profile and number of teeth of timing pulley Or face width of crowned flat belt wheel.

Step 4 of HIC Universal pulleys sheaves Selection:

Bushing type of belt pulley - Taper lock bush or Q.D. bushing or general purpose without taper bush motor pulley be selected to drive machinery.

Taper lock v pulleys with taper bushings are used for quick easy installation of v belts and timing belts without getting pulley grooves getting damaged. Taper Bush is inserted in hub by matching the hole pattern and not threaded holes without hitting bush with hammer directly by re-torquing the screws.

Quick Detachable v pulleys with Q.D. bushings having collars are used for heavy duty anti-clockwise v-belts drive. Screws are tightened evenly without using excessive pressure and that sheaves are never allowed to be drawn in contact with the flange of Q.D. bushing, else shall crack.

Step 5 of HIC Universal pulleys sheaves Selection:

Bore Size of v grooved pulley, timing pulley and flat pulley - Pilot bore, that is, fixed bore standard factory manufactured or Finished hole diameter of belt pulley be selected and specified that shall be machined custom-size.



Step 6 of HIC Universal pulleys sheaves Selection:

Keyway Size and Balancing of v pulleys – Keyway dimensions, that is, width x depth size, if to be factory machined and Dynamic Balancing of v pulleys necessary for high rpm belt speed drive > 30 m/s, if required, done on world-class sheave balancing machine. Though all HIC Universal v-belt pulleys And timing pulleys are otherwise statically balanced to 6.3 as per ISO 1940 suitable for linear speed up to 35 m/s, precision CNC machined and treated with rust-proof oil paint.

Step 7 of HIC Universal pulleys sheaves Selection:

Material construction of v belt pulley – Cast iron v-belt pulley or cast iron solid hub or aluminium / mild steel timing pulley or M.S. flat pulleys are material constructions of pulley, be selected and specified.

*check Disclaimer, please



Purchase Enquiry Info

V Groove, Timing, Flat and Taper Bush Belt Pulley Min. Information to Be Sent

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships v timing flat taper bush belt pulley sheave conforming IS 3142 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Pulley OD or PCD MM or Inch **Size**
2. pulley pitch or section details for drive belt **Type**, V or timing or flat
3. Sheave **Grooves**, v-belt Numbers or Tooth profile or Face Width
4. **Bushing** type, TLB or QD or Gen. Purpose or Solid Hub
5. **Bore** size MM, pilot or finished hole and Keyway-w- d-h dimensions
6. **Material**, Cast Iron or Alloy Steel or Aluminium
7. **Dynamic Balancing**, if required
8. **Quantity**- Numbers



Shipment Handling and Delivery Time

Bulk quantity orders are packed in sea-worthy Jute or HDPE wrapping or Plywood Cases shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or **Aramex courier**, for which your Authorization Account number be sent to be booked on "Freight To Collect" basis, together with complete acceptable physical address and phone or mobile number.

Domestic orders are dispatched to any destination in **India** by Road Transport, Gati or TCI or ARC or Jaipur Golden on **COD** basis.

Shipping Time, generally within 3-4 weeks or as stipulated in quote and accepted order.

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com

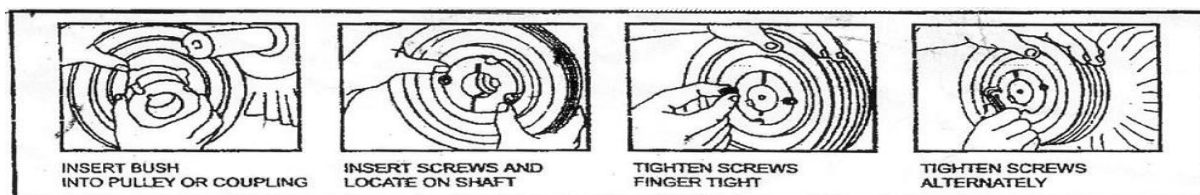
Installation Method of Belt Pulleys

Dynamic Power Transmission, HIC Fast Rotation Tips

- Fitting should be such that **correctly positioned** on the shaft without damaging pulley groove edges.
- Belts Breakage Prevention is ensured by **using min. recommended & higher pitch Diameter** drive pulley.
- Graded Cast Iron FG200 & eqvt is used filled with **iron cement** at times to protect from cracks during machining.
- Unhampered Production even if **Blow Holes** gets visible at times in the rim, centreplate & boss, nothing to interfere performance.
- Dynamic Balancing of statically balanced pulleys is **recommended** for pulleys with large face widths or to rotate **above 3,000 rpm** speed. **Weights** pieces if attached should be **kept intact**.
- Fixing Removal Time Saving is achieved by using QUICKFIT **Taper Lock Bush** pulley needing no re-boring in place of general purpose.
- Belt Slippage Check is possible by **using min. Allowed Dia,**
Pitch **75mm(+6mm=OD)** for **A**, **125mm(+8=OD)** for **B**, **200mm(+9=OD)** for **C**, **315mm(+14=OD)** for **D**, **500mm (+20=OD)** for **E**, **63mm** for **SPZ**, **90mm** for **SPA**, **160mm** for **SPB**, **224mm** for **SPC** sections.

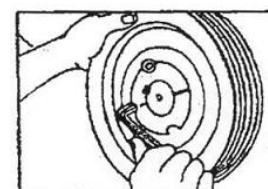
Size Variation (+,-1% Pitch Dia; +,-0.5 °Groove Angle; +,-0.15mm Groove Top Width) as per mfg tolerances should be acceptable).

Fitment Method:-



TO INSTALL

1. Remove the protective coating from the bore, Outside of bush and bore of hub. After ensuring that the mating tapered surfaces are completely clean and free from oil and dirt, insert bush in hub so that the holes line up.
2. Oil thread and point at grub screws, thread and under-head of cap screws. Place screws loosely in holes threaded in hub.
3. Clean shaft and fit hub and bush to shaft as one unit. Locate in position desired; remembering that the bush still grips the shaft first and then the hub will be slightly drawn to the bush.
4. Using a hexagon wrench tighten screws gradually and alternately until they are fully secured. Use a piece of pipe on wrench to increase leverage.



To Remove

TO REMOVE

1. Slacken all screws by several turns. Remove one or two according to number of jacking-off holes. Insert screws in jacking off holes after oiling thread and point of grub screws or thread and under- *head* of cap screws.
2. Tighten screws alternately until bush is loosened in the hub and assembly is free on the shaft.
3. Remove assembly from shaft.
4. For normal drives a key is unnecessary. But when a key neither is nor used hammer against large end of bush using a block or sleeve to prevent damage. (This will ensure that the bush is seated squarely in the bore). Screws will now turn a little more. Repeat this, alternate hammering and screw tightening once or twice until correct tightening torque is obtained.
5. If a key is to be fitted, place it in the shaft ice way before fitting the bush. It is essential that only a side-fitting parallel key with TOP CLEARANCE be used.
6. After drive has been running under load for a short time stop and check tightness of screws.
7. Fill empty holes with grease to exclude dirt.

Bush		1008 1108	1310	1210 1215	1610 1615	2012	2517 2525	3020 3030	3525 3535	4040	4545	5050
Screw Tightening Torque(Nm.)		56	20	20	20	31	48	90	113	170	192	271
Screw	Qty.	2	2	2	2	2	2	2	3	3	3	3
Details	Size (BSW)	¼"	3/8"	3/8"	3/8"	7/16 "	½"	5/8"	½"	5/8"	¾"	7/8"



Organization Structure

Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor's, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

Production Capacity of Machinery Drive Products

	Approximate Qty. per annum
1. V Belt Pulley Sheaves, Timing Pulley, Taper Bush Pulley, Weld on Hubs, Solid Pulley, Poly v Belt Pulley http://www.rubber-steel-industrial-products.com/belt-pulley-manufacturer/index.htm	5,000 nos.
2. Classical V Belts, Cogged Belts, Wedge Belt, Poly v Belt, Banded Belt, Harvester Combine Belt , Narrow Section Belt http://www.rubber-steel-industrial-products.com/v-belts-manufacturer/index.htm	2,50,000 nos.
3. Nylon Sandwich Belt, Leather Transmission Belting, Flat Rubber Transmission Belt http://www.rubber-steel-industrial-products.com/rubber-belting-manufacturer/index.htm	60,000 mts.
4. Spider Jaw Couplings, Rubber Tyre Coupling, Flexible Gear Coupling, Pin Bush Coupling Taper Bush System http://www.rubber-steel-industrial-products.com/motor-coupling-manufacturer/index.htm http://www.rubber-steel-industrial-products.com/shaft-coupling-manufacturer/index.htm http://www.rubber-steel-industrial-products.com/gear-coupling-manufacturer/index.htm http://www.rubber-steel-industrial-products.com/bush-coupling-manufacturer/index.htm	75,000 nos.

Visakhapatnam Steel Plant (721354), NALCO (3072),
Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003),
Bokaro Steel (72621), Salem Steel(000155),
Gujarat State Road(000118), ACC (944),
Army Base(512/ABW-LP/76), NTPC(H8267), etc.

* Price List & terms on specific enquiry please.

Quality Assurance Plan

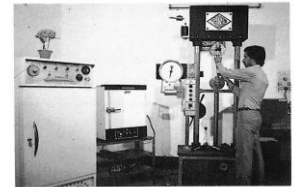
HIC Belt Pulleys Testing Parameters

Quality belt pulleys with taper bush manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre manufacture checks and post manufacture tests as to :

- 100% Physical checks with respect to dimensions,
- 100% Chemical checks w.r.t. MOC,
- 20% Random physical tests



Dynamic Balancing Machine



Tensile Strength & Elongation Testing Machine

Test Certificate & Warranty

HIC Manufacturer's Lab TC of Sheave Pulleys Supplied

Quality drive belt pulleys conforming IS 3142, BS 7620, DIN 2211, ISO 4183, ANSI IP-20 ANSI IP-23, DIN 5294, DIN 6885, EN 10204, ISO 1940 - HIC manufacturers modern in-house Lab Test Certificate issued with respect to PCD or OD diameter size MM, V-Groove numbers, Face Width for number of grooves MM, Statically balanced else Dynamically Balanced detailed test certificate, besides other tests such as Groove Angle degrees, Minimum Groove Depth below outside diameter mm, Grooves Centre to Centre distance mm, Edge of pulley of first groove Centre mm.

Cast iron belt pulley graded casting G3000 GG material Test having Tensile Strength ≥ 207 MPa and Hardness \geq HB 187-241, Chemical Composition Test as to C- 3.1 to 3.4%, Si- 1.9 to 2.3%, Mn- 0.6 to 0.9%, S- \leq 0.15%, P- \leq 0.15% tests got from Government Approved Laboratory for large quantity orders also undertaken on Extra testing fee charges of lab to be directly reimbursed by buyers.

Warranty of one year against any manufacturing defects in HIC manufactured v groove pulley and timing pulley with taper bush as well as without taper bush system product.

Third Party Inspections by DNV, RITES, EIL, QSS, SGS, also arranged in HIC's pulleys factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

Legalization by Embassy or Chambers of Commerce Attestation of export shipping Invoice and other documents also provided towards export of Indian Origin machined steel products if demanded on actual fee remitted by importers directly to HIC and or cost added up in Invoice.

Manufacturing & Testing Equipments



Belt Press

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

Power Transmission Products Production Machinery



Belting Calander

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

Steel Products Quality Testing Apparatus as per ISO :



Manufacturing Hydraulic Press

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. **Calibrated** periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.

Test Certificate (TC) of our Lab, wherever, applicable, is **forwarded** along with the supply.



Dynamically Balanced.

Quick-Fit

CNC Machined Grooves.

Steel Sheave Pulleys

TRUSTED BY MACHINERY OEMs OF Blower Motor, Centrifugal Fan, Engine, Tractors, Stone Crushers SINCE 1988

www.metricpulley.com | www.hictaperlockpulleys-africa.com | www.sprocketsheaves.com

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HIC India Headquarters

Vendor Data: www.hic-india.com | **Customers List:** www.universaldelhi.org | **Catalogue:** www.rubber-steel-industrial-products.com

