

HI-CAP<sup>®</sup> WEDGE, CONVENTIONAL, VARIABLE PITCH, FRACTIONAL HORSEPOWER AND MADE-TO-ORDER

# What would Joe do?

**OWN** your own territory and take care of our customers

RUN your facility and take care of our people

ADD something to the ballgame

MAKE SURE you have your priorities right

ALWAYS back to the basics – quality, service, low-cost producer

HOW to get big and stay small

Age Martin Le

Established in 1951 in Arlington, Texas, Martin has evolved into a global powerhouse with 30+ strategically located sites. Our unwavering commitment to excellence in power transmission and material handling positions us as a trusted partner globally. At Martin, we offer more than products; we provide precision, personalized service, combining global capability with local care. Experience the Martin difference, where our dedication to quality sets us apart.

# Success in Business, Martin's Philosophy:

Success at Martin requires a strategic mindset — knowing customers, taking ownership, building trust, and cultivating an owner's mentality. Effective leadership involves personal responsibility, positive work culture, visibility, and effective communication. Unlocking success demands creativity, innovation, and resisting the status quo. Aligning priorities with a greater purpose ensures contributions lead to organizational success. Martin emphasizes basics — quality, service, and low-cost production — for streamlined and maximized efforts.

# "Get Big, Stay Small" Strategy:

Martin advises strategic business expansion, discovering scalable avenues while preserving core qualities. Maintaining agility and adaptability in the dynamic market landscape is crucial. In a world full of choices, Martin's commitment to prioritizing personalized service and connections with customers sets us apart from the competition.

# **AVAILABLE IN STOCK**



## **HIGH CAPACITY**

- Stocked for 3V, 5V & 8V belts
- · Available in 1 to 12 groove configurations
- QD, MST<sup>®</sup> or Taper Bushed





# VARIABLE **PITCH**

- · Single and double groove designs
- Full range of popular bore sizes including keyway and setscrew
- Precision machined grooves
- Stationary adjustable speed sheaves
- Positive locking system



#### **CONVENTIONAL**

- Stocked for A, B, C & D belts
- A/B combination sheaves are arooved to run A-Section or **B-Section V-belts**
- · Available in 1 to 12 groove configurations
- QD, MST® or Taper Bushed

# FRACTIONAL HORSEPOWER

- · Single and double groove designs
- · Available bored-to-size and MST® bushed
- Precision machined grooves

p 1: Initial Inputs			
_	Default Inpu Imperial Driven rive Type	Metric	
Driven RPM (Driven RPM)	Drh	ven Driven Shaft Diame	for (n.)
Min Center Distan	<b>CO</b> (n.)	Max Center Distan	<b>10</b> (n.)
Min Service Facts	or	Sheave Type	•
Next St	ep	Reset Sect	ion

# **ONLINE SHEAVE DRIVE SELECTOR TOOL**

The Martin Sheave Drive Selector online tool simplifies the process of finding the right product for you. Simply input your drive specifications, and we'll guide you to the perfect selection. Visit martinsprocket.com or scan the QR code to explore this and other drive selector tools available.

Aluminum

Non-metallic

Plastic



# MADE-TO-ORDER



#### SIZES

- Up to 196" in diameter
- Up to 10,000 lbs
- Up to 30" face width

#### **MATERIALS**

- Cast Iron
- Ductile
- · Carbon steel
- Stainless steel

#### **SPECIALITY**

- · Poly V Sheaves
- E-Section Conventional Sheaves
- Idler Wheels
- Flat Face Pulleys
- · Fly Wheels
- Wire Rope Sheaves
- Crusher Duty
- Deep Groove



# **QUALITY ASSURED**

# **MARTIN FOUNDRY**

Operating its own foundry enables Martin to provide its customers with quality assurance, quick lead times, and application engineering assistance on cast and ductile iron parts.

With an upper range of 96" in diameter and 10,000 pounds, our own pattern shop, and streamlined access to secondary machining, Martin's comprehensive capabilities serve a broad spectrum of industrial uses.

# **CNC MACHINING OF GROOVES**

Smooth operation and longer life of sheave and belt. Consistent manufacturing process that extend banded belt life.

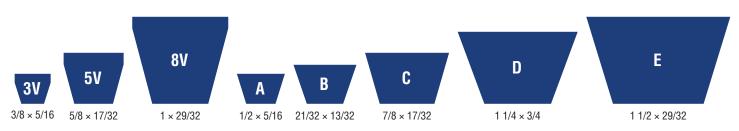
Scan QR code to watch video: Martin Capabilities: V-Belt Sheaves

# **GENERAL BALANCING GUIDELINES**

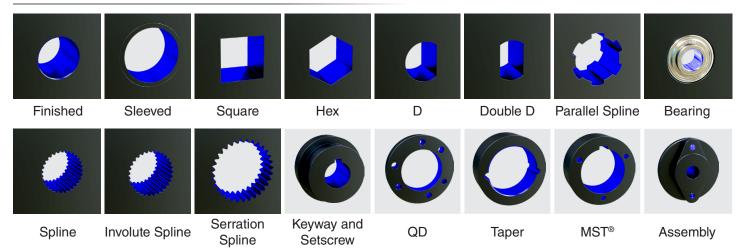
- **6,501 FPM and over** for ductile iron, steel or special materials, dynamic balance.
- 6,500 FPM and less for cast iron, static balance.

Scan QR code to watch video: The Importance of Balancing Sheaves

# BELT CROSS SECTION



# AVAILABLE CUSTOM BORE OPTIONS



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# **BUSHINGS**

## **QUICK DETACHABLE (QD)**

- Offers faster replacement.
- Single split through both the barrel and flange.
- No damage to shaft upon removal.
- Compatible with both conventional and reverse mounting.

#### MARTIN SPLIT TAPER (MST®)

- Keyed to both shaft and hub to aid in "blind" installation.
- Solid flange with a double split through the barrel.
- The taper and hub key provide clamping on the shaft yielding higher torque capacity.

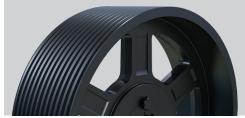
#### **TAPER BUSHINGS (TB)**

- Flush-mount for smaller equipment footprint.
- Single split through the barrel while the screws are used to tighten it to the shaft.
- There is no damage to the shaft upon removal.





# CONSTRUCTION

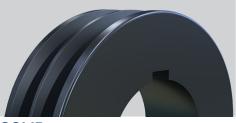


#### **SPOKED**

- Larger outside diameter can be lighter in weight
- · Easier to install and transport
- More robust design versus competitors for equivalent size
- 6,500 FPM-16,500 FPM

# WEB

- Absorbs shock load during operation
- Allows for homogeneous stress
  distribution
- Reduced stress points
- 6,500 FPM-16,500 FPM



#### SOLID

- Offers highest speed capabilities
- Uniform weight distribution
- Compact design
- 7,500 FPM-20,000 FPM

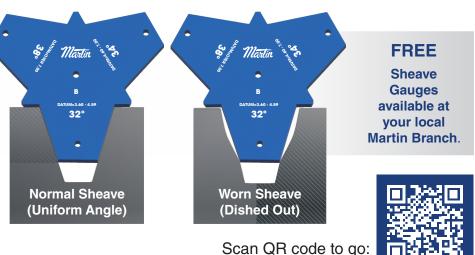
# QUICK MAINTENANCE GUIDE

Sheaves should be checked for wear every time you change a belt!

#### Indications of sheave wear include:

- Belts are turning over
- Belts wear out faster than normal
- · Belts are "bottoming" out
- Belt dressing is used to quiet drive (not enough tension or worn grooves)
- Belts appear to be "mismatched"

If wear is present, replace them with Martin sheaves.



**Maintenance & Troubleshooting Guide** 

# **POWERING INDUSTRIES** SINCE 1951

Unlock the pinnacle of industrial excellence with Martin, your trusted partner in custom sheave engineering. For over seven decades, we've been at the forefront of innovation, crafting bespoke solutions that stand the test of time.

Elevate your industrial experience with Martin – where precision meets performance, and innovation meets reliability. Unleash the power of custom sheaves designed to propel your industry forward. Choose Martin, choose excellence.



# **UNMATCHED INVENTORY**

With the largest power transmission stock in North America, find the perfect fit for your needs, always exceeding expectations.

## TAILORED TO PERFECTION

Crafting made-to-order sheaves for unique industrial needs. Diverse materials, shaft options, and assemblies bring your vision to life.

# **QUALITY ASSURED**

Backed by a solid one-year warranty\*, Martin ensures top-tier reliability and durability in every product.

# **RAPID RESPONSE, SWIFT SOLUTIONS**

Quick alterations and manufacturing across locations guarantee the industry's fastest lead times for made-to-order products. Your deadlines, our priority.

# A PERSONAL TOUCH TO EVERY ORDER

Beyond products, Martin is your dedicated partner in success. Experience precision, performance, and reliability. Choose Martin, choose excellence.

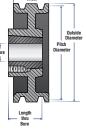
# NOMENCLATURE



High Capacity	QD	Conventional	- Face Width
Number of Grooves 2 3V 220	JA 12 D 580	<b>P</b> Bushing	
Belt Selection		Pitch Diameter (1 decimal)	Bore
3V, 5V, 8V		Belt Selection	
Outside Diameter (2 decimals)		<b>B</b> (A/B), <b>C</b> , <b>D</b>	
Bushing		Number of Grooves	Ler th Bo

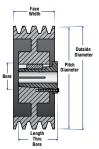


High Capacity	ТВ	Conventional
Number of Grooves 6 8V 16	00 TR 1 R 34 T	B Bushing
Belt Selection		Pitch Diameter (1 decimal)
3V, 5V, 8V		Belt Selection
Outside Diameter (2 decimals)		<b>B</b> (A/B), <b>C</b> , <b>D</b>
Bushing		Number of Grooves

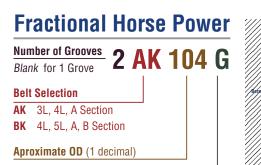




High Capacity	<b>MST</b> <sup>®</sup>		Conventional	
Number of Grooves 1 3V 3C	)0 G	10 C 140	R Bushing	
Belt Selection			Pitch Diameter (1 decimal)	
3V, 5V, 8V			Belt Selection	
Outside Diameter (2 decimals)			<b>B</b> (A/B), <b>C</b> , <b>D</b>	
Bushing			Number of Grooves	



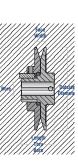




Bore or Bushing (bore in inches, H for MST)











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