

DODGE[®]

PT COMPONENTS ENGINEERING CATALOG



BALDOR[®]
A MEMBER OF THE ABB GROUP



Conveyor Components

Features/Benefits	PT14-2
Specifications	PT14-4
How To Order	PT14-6
Nomenclature	PT14-7
Selection	PT14-9
Selection/Dimensions	
Drum and Wing Pulleys	PT14-10
HE Heavy Duty Drum Pulleys	PT14-15
TAPER-LOCK Heavy Duty Drum Pulleys	PT14-22
QD Heavy Duty Drum Pulleys	PT14-26
Heavy Duty Drum Pulley Weights	PT14-30
HE Heavy Duty Wing Pulleys	PT14-34
TAPER-LOCK Heavy Duty Wing Pulleys	PT14-38
QD Heavy Duty Wing Pulleys	PT14-41
Heavy Duty Wing Pulley Weights	PT14-48
Mine Duty Extra Drum Pulleys	PT14-49
Mine Duty Extra Wing Pulleys	PT14-53
Engineered Class Pulleys	PT14-56
Turbine Pulleys	PT14-57
Elevator Pulleys	PT14-58
Dead Shaft Pulleys	PT14-60
Spiral Drum and Spiral Wing Pulleys	PT14-61
Magnetic Pulleys	PT14-61
Stainless Steel Pulleys	PT14-61
Steel Split Pulleys	PT14-62
Shafting	PT14-64
Lagging	PT14-65
HE Bushings	PT14-70
Keyless Locking Assemblies	PT14-73
XT Bushings	PT14-74
Engineering/Technical	PT14-78
Part Number Index	INDEX-1
Keyword Index	INDEX-43



FEATURES/BENEFITS

Today, the industrial marketplace demands quality products and services. Dodge has the experience and expertise to meet those demands from engineering support to on-time delivery. Dodge offers the broadest range of conveyor pulleys with a combination of the best resources for pulley manufacturing. The Dodge Conveyor Components Team is ready to provide you the best customer service in the industry.



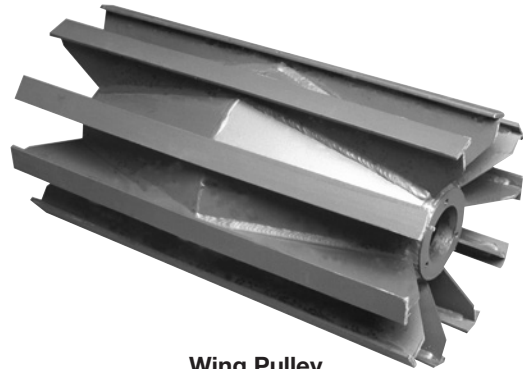
Lagged Drum Pulley



T-Section Pulley



Mine Duty Extra Drum Pulley



Wing Pulley



Conveyor Pulley Locking Devices

HE Bushing/Hub



- Most dependable mounting system for conveyor pulleys
- Specifically designed for drum and wing pulleys
- Flange mount design
- Easy installation/removal
- Shaft diameters up to 12"
- Taper angle of 14° reduces axial movement along the shaft to tighten the bushing
- Disc deflection and pre-stressing are greatly reduced
- Full length hub engagement

Keyless Locking Devices



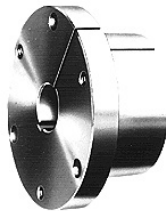
- High torque capability
- No axial movement during assembly
- Shrink fit design assures a tight mechanical fit
- Easy installation/removal
- No keyway stress - no keys required
- Recommended for shafts over 12" and up to 30" in diameter

Taper-Lock Bushings



- Industry standard for over 40 years
- Easy-on, Easy-off
- 8° taper grips tight, holds tight, runs true, no wobble
- World-wide acceptance and availability
- Flush mounting - no protruding parts

QD Bushings



- Flanged design
- 4° taper
- Easy-on, Easy-off
- Manufactured precisely to industry standards
- Reverse mounting

XT Bushings/Hub



- Designed for conveyor pulley applications
- 9-1/2° taper
- 2" per foot taper for easy on, easy off
- Full length hub engagement

SPECIFICATIONS



Belt Conveyor Pulleys

Dodge offers two standard designs that are stocked for quick delivery, CEMA duty (Conveyor Equipment Manufacturers Association), HE (High Endurance) welded hub and Mine Duty Extra HE integral hub construction. These are available with a plain surface and rubber lagged. HE bushings with 14 degree taper and 3/8 inch 60 Durometer SBR rubber, with herringbone groove lagging, are standard, stocked features.

Dodge recommends pulley designs within the four classes of service detailed below. All of our designs strive for balance between cost and reliability. When possible, welds are avoided or eliminated to maintain the full strength of the base metal. Our welded designs rely upon the chemistry of the base metal, the type of weld and the geometry of the structure to achieve optimum post-weld performance as explained below.

WARRANTY

- Class IV and III pulleys are conditionally warranted against defects in material and workmanship for one year of operation. A two-year warranty is available when loading information is provided.

Note: Special Construction features listed at the bottom of page PT14-6 can be added to both Class IV and III pulleys to extend service life. Because these pulleys are made-to-order, they will require longer leadtime for shipment. The Special Construction modifications must be quoted at the time of inquiry and before order entry.

- Class II and I pulleys are conditionally warranted against defects in material and workmanship for two years of operation, because loading information must be provided.

CLASS IV

Dodge Heavy Duty CEMA Standard drum pulleys use 14 degree taper welded hubs and bushings with special consideration for post weld strength with submerged arc welds. These pulleys meet or exceed all requirements for steel drum pulleys established by CEMA, and as detailed in

ANSI standard number B105.1. The standard establishes load ratings and dimensions for use with fabric belts rated to 800 PIW (Pounds per Inch of belt Width).

CLASS III

Dodge Mine Duty Extra pulleys use a proprietary 14 degree (taper) one piece integral hub to accept HE bushings. This eliminates the two welds of the hub into the end disc and delivers 100% of the capacity of the end disc steel. There is not a universal standard published for this class of service. The Dodge MDX design gives much higher safety factors than pulleys designed to meet the CEMA load ratings, while fitting into the CEMA dimensions.

CLASS II

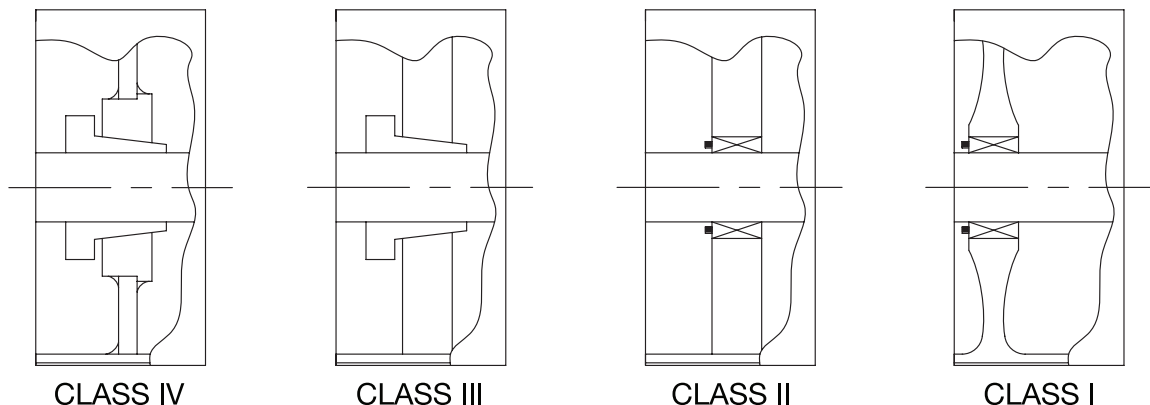
Dodge Engineered pulleys utilize one-piece integral hub-and-end-discs and either HE 14 degree taper compression bushings or keyless locking devices. They are designed specifically to meet customer supplied load and tension ratings. This class is for fabric or steel cable conveyor belts rated to 2,499 PIW. These pulleys incorporate machined rims and lagging, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing.

CLASS I

Dodge Engineered pulleys with one piece "T" section machined end discs are continuously butt welded to the pulley rim for fabric or steel cable belts rated over 2,500 PIW up to the maximum available from belt manufacturers, currently in excess of 10,000 PIW. These pulleys use keyless locking devices for shafts up to 30" in diameter. These pulleys incorporate machined rims and lagging, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing. All Class I pulleys are manufactured within a 60 step documented Quality Assurance Process.

Important Note: To Ensure You Get The Right Class Of Pulley For Your Application, Please Fill Out And Send the Engineered Pulley Data Sheet, Shown On Page PT14-9.

Bushing and End Disc Constructions



FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	-----------------------------	--------------------------	--------------------------------------



Belt Conveyor Design Program - Available on www.ptwizard.com

The Dodge Computerized Conveyor Design Program selects Baldor/Dodge drive products for simple horizontal or uphill conveyors up to 3500 feet long, 800 feet lift, and 3500 tons per hour. The program operates with a minimum of input information and provides detailed design and product information as output. Input variables and output data are:

INPUT

- Conveyor Capacity (tons per hour)
- Length of Conveyor
- Lift of Conveyor
- Basic Conveyor Profile (7 profiles)
- Material to be Moved
- Belt Speed (not required, can be selected by program)
- Belt Width (not required, can be selected by program)
- Idler Angle (not required, can be selected by program)

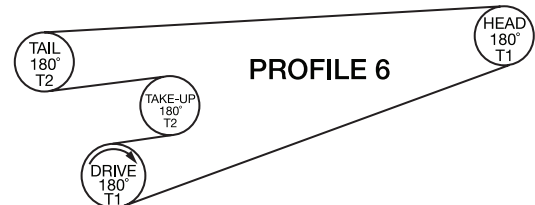
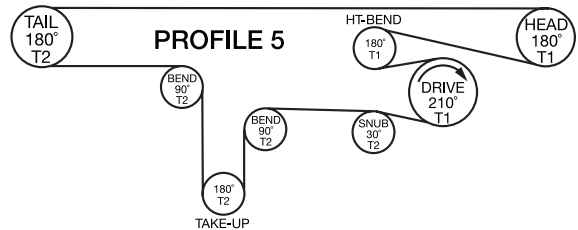
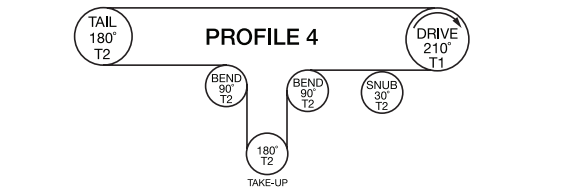
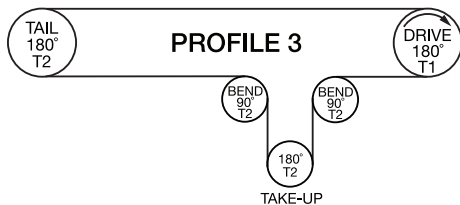
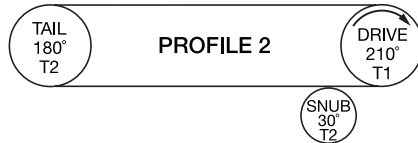
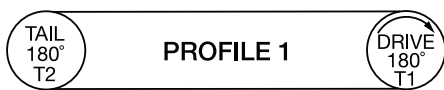
OUTPUT

- Motor Horsepower
- Belt Width (if not input)
- Idler Angle (if not input)
- Belt Speed (if not input)
- Drive Pulley RPM
- Belt Tensions (& take-up weight)
- Pulley Diameters, Face Width & Shaft Diameter
- Bearing Centers
- Lagging
- Shaft Lengths
- Bearing Diameter with L10 Life
- Maximum Running Belt Tension (PIW)
- Backstop Requirement
- Dodge Torque-Arm Reducers Selected

Baldor/Dodge has a conveyor design program, available at www.ptwizard.com, for selecting CEMA drum pulleys for conveyor profiles shown. For other types of pulleys, please contact Baldor/Dodge Conveyors. For more information call 864-297-4800.

Conveyor Profiles

Only the seven types of profiles shown are available for design program analysis.



FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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HOW TO ORDER

Standard, Stocked CEMA and Mine Duty Extra Pulleys

Dodge Conveyor Drum and Wing Pulleys are available from stock in either CEMA, Mine Duty Extra Drum or Mine Duty Extra Wing pulley designs. Many part numbers are already available for various sizes of drum and wing pulleys in either crown or straight face. We can provide pulleys bare faced, or with a number of different lagging patterns and thicknesses. You can use the Nomenclature page to help provide a complete pulley description, for which you can find part numbers in the catalog that have already been assigned, or that our Conveyor Team can quote for you.

If you know the belt width you are using, you can use the CEMA standards to get the face width needed for the pulley. CEMA standards for pulley face width are belt width + 2 inches for belt widths up to 42 inches and belt width + 3 inches for belt widths for 48 inches to 60 inches. Drum and wing pulley diameters are dependent upon belting and the shaft diameter required for the application.

Special Construction Pulleys

There are Special Construction specifications that can be stipulated by the customer to extend the service life of CEMA and Mine Duty Extra pulleys, for demanding applications, or to meet special job requirements. If these modifications are required, the products will become made-to-order and identified by product description. These nonstandard modifications must be documented and quoted at the time of inquiry and before order entry.

These features include but are not limited to:

1. Rim and rubber lagging thickness
2. Rubber lagging material and durometer
3. Machining of rims and/or rubber lagging to a specified total indicated run-out (TIR)
4. End disc steel thickness
5. Shaft material surface finish (RMS) and turndown radii
6. Keyless locking devices with dust covers vs standard HE 14-degree compression bushings

The selection process recommended by Baldor•Dodge for Dodge conveyor pulleys is covered beginning on page PT14-10.

PULLEY ASSEMBLIES

One of the most popular services we offer is to package and assemble pulleys, shaft, bearings and coupling halves for shipment, ready to install on the customer's conveyor truss. However, to do this we must have accurate shaft dimensions and tolerances at the time of order entry. These determine the hub size of the pulley and the bearing size. Bearings are shipped to Clio from another Dodge plant. The pulley assembly process can be shortened by providing the shaft details outlined on page PT14-8. Please note – all pulley assemblies are considered non-standard because of the variability of size and weight.

7. Post weld thermal stress relieving before machining
8. Magnetic particle and/or ultra-sonic weld inspections
9. Static or dynamic balancing
10. Identification tags
11. Export or other special packaging

ENGINEERED, MADE-TO-ORDER PULLEYS

All Dodge heavy duty CEMA or Mine Duty Extra pulleys are designed to meet or exceed the CEMA steel pulley ANSI standard B105.1. However, for pulleys engineered to the customer's application loads and tensions, we require completion of the Engineered Pulley Data Sheet, on page PT14-9.

Installation and Maintenance instructions for Dodge products are available at www.dodge-pt.com

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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NOMENCLATURE

Pulleys

(QTY) Diameter X Face Width • Face Type • Pulley Type • Hub Type & Size • Class

(QTY) Lagging Thickness and Material • Pattern

(QTY) Bushing Size & Bore

Diameter:	6"-60" (Other diameters available upon request)
Face Width:	8"-100" (Other face widths available upon request)
Face Type:	CR – Crown Face ST – Straight Face
Pulley Type:	DR – Drum WI – Wing
Hub Type & Size:	HE – (High Endurance) and Size (HE25) TL – (TAPER-LOCK) and Size (K25, F30, K35) QD – (Quick Disconnect) and Size (SF, E, F) Keyless Locking Device and Size (200mm)
Class:	CEMA (Heavy Duty) MD (Mine Duty) MDX (Mine Duty Extra) ENG (Engineered)
Lagging Thickness:	1/4", 3/8", 1/2", 3/4", 1" (Standard) Other Thicknesses Available on Request
Lagging Material & (Durometer):	SBR (60/45/70), D-LAG (60), Neoprene (60/45/70), Ceramic, Holz, Holz SOF
Lagging Pattern:	Plain, Herringbone, Chevron, Diamond, Concentric, Parallel
Bushing Size:	HE25 (Max. Bore 2-1/2") F30 (Max. Bore 3") E (Max. Bore 3-1/2")
Examples:	1-12 x 26 CR DR HE25 MDX 3/8" Herringbone Lagging 2-HE25 x 2-7/16" Bushings 1-14 x 42 CR WI W25 2-2517 x 2-7/16" TAPER-LOCK Bushings 1-16 x 44 ST DR QD F 2-F x 3-7/16" QD Bushings

Shafting

Diameter x Length • # of Keyseats • # of Turndowns x Turndown Diameters

Examples:	2-7/16" x 63"
	3-7/16" x 84" x 3KS
	3-15/16" x 76", 3KS, 2TD x 3-7/16"

NOTE: All shafts require a drawing which indicates the location of keyseats, length of turndowns, bearing centers, turn down radii and location of the pulley on the shaft.

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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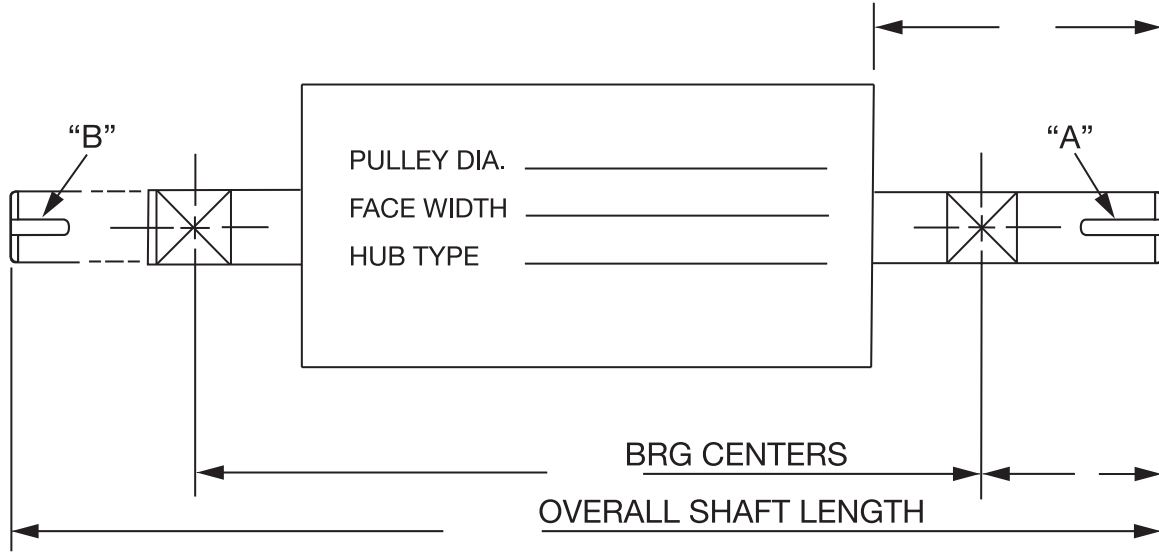


HOW TO ORDER

Pulley Assemblies

To order shafting, please copy and complete the sketches shown below

DRIVE PULLEY & SHAFT DIMENSIONS

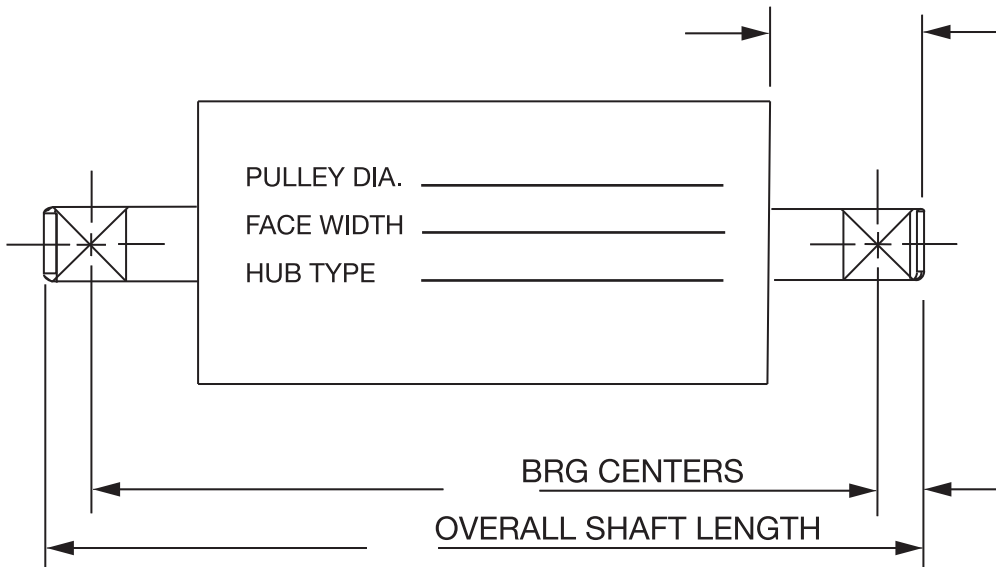


SHAFT DIA. AT HUB - _____	KEYSEAT "A" - _____ X _____ X _____ LONG
SHAFT DIA. AT BRG. - _____	KEYSEAT "B" - _____ X _____ X _____ LONG
SHAFT DIA. AT "A" - _____	DIRECTION OF ROTATION _____
SHAFT DIA. AT "B" - _____	(LOOKING AT DRIVEN END) _____
NUMBER OF KEYSEATS - _____	LAGGING - THICKNESS - _____
	TYPE - _____

NON-DRIVE PULLEY & SHAFT DIMENSIONS

DRUM -

WING -



SHAFT DIA. AT HUB - _____	KEYSEAT - 0 _____ , 1 _____ , 2 _____
SHAFT DIA. AT BRG. - _____	



Engineered Pulley Data Sheet

LIMITED WARRANTY: Baldor/Dodge offers a 2-year limited warranty and a serialized nameplate for all engineered pulleys designed to customer supplied loading information.

Selection of Dodge Conveyor Pulleys can be simplified by supplying the information in the Application Data Sheet provided below. Dodge can then engineer the correct pulleys or pulley assemblies for your specific application.

Company Name _____ Date _____ By _____

Address _____ Est. No. _____

Project _____

Conveyor Information - _____

Belt: [] Fabric: [] Steel: [] Other _____ Belt Width _____ in

Take-Up: [] Screw [] Gravity [] Hyd. [] Other _____

Drive Motor: HP _____ Belt Speed _____ FPM Capacity _____ TPH

Center to Center Distance _____ Lift in Feet _____

Pulley Data:

Conveyor Identification						
Pulley Location (Drive, Tail, etc.)						
Pulley Quantity						
Pulley Type (Drum or Wing)						
Diameter x Face Width						
Crown or Straight Face						
Lagging Thickness - Type of Grooves						
Shaft Diameter Through Pulley						
Shaft Diameter Through Bearing						
Shaft Diameter at Drive						
Shaft Length						
Number of Keyseats						
Drive Type (Sprocket, Coupling, Shaft Mount Reducer, etc.)						
Bearing Centers						
Arc of Contact (α)						
T ₁ _____ Lbs. T ₂ _____ Lbs.						

Special Requirements:

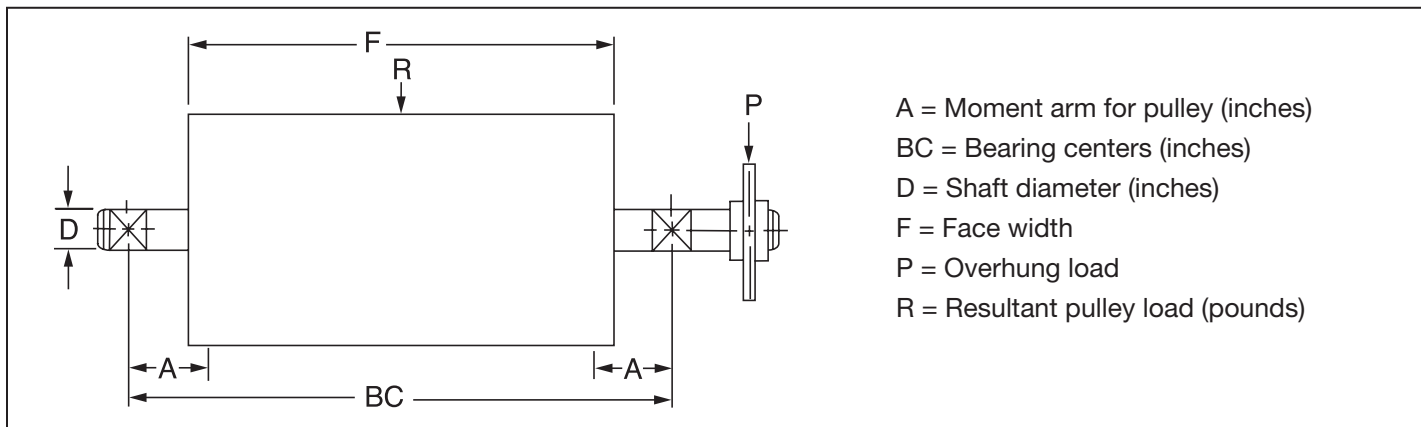


SELECTION

Drum and Wing Pulleys - CEMA, MDX, Mine Duty

Proper selection of pulley diameter, face width and shaft diameter can easily be determined if the following information is known:

- Belt Width (BW)
- Bearing Centers (BC)
- Arc of Belt Contact (α)
- Tight Side Belt Tension (T_1) (for drive pulleys only)*
- Slack Side Belt Tension (T_2)*



STEP 1

Determine Required Pulley Face Width

From: $F = BW + 2''$ (for BW 42" and under)
 $F = BW + 3''$ (for BW over 42")

Where: F = Pulley face width
 BW = Belt width

Note: For replacement pulleys use face width of existing pulleys.

STEP 2

Determine Bearing Center Minus Face Dimension

From: $BCMF = BC - F$
 Where: BCMF = Bearing center minus face dimension
 F = Face width
 BC = Bearing centerline to centerline dimension

Note: This selection guide is for conveyors with fabric belting. For other conveyor systems, consult factory for pulley selection.

***Note:** If belt tensions T_1 and T_2 are not known, please contact Dodge at (864) 297-8287.

STEP 3

Determine Pulley Pounds Per Inch of Belt Width

From: $PIW = T_1 \div BW$ (for drive pulleys)
 $PIW = T_2 \div BW$ (for non-drive pulleys)*

Where: PIW = Pounds per inch of width value
 T_1 = Tight side tension
 T_2 = Slack side tension*
 BW = Belt Width

***Note:** If non-drive pulley is on tight side of belt, substitute T_1 for T_2 . Wing pulleys should not be used as drive pulleys.

STEP 4

Determine Minimum Pulley Diameter

(Drum pulleys only) Determine minimum pulley diameter using PIW, arc of belt contact (α) and Table 1. Reading across the table from proper arc of contact select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 1 and must be greater than the belt manufacturer's recommended minimum diameter.

(Wing pulleys only) Determine minimum pulley diameter using PIW and Table 2. Select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 2 and must be greater than the belt manufacturer's recommended minimum diameter.

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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Drum and Wing Pulleys

Table 1

Use in STEP 4 to determine minimum pulley diameter for Drum Pulleys Only Maximum Belt Tension (Pounds Per Inch Of Belt Width)

Arc of Contact (Deg.)	Pulley Diameter (Inches)													
	8	10	12	14	16	18	20	24	30	36	42	48	54	60
10	65	80	95	120	145	175	205	260	345	430	520	605	690	775
20	50	60	75	95	115	135	160	200	265	335	400	465	535	600
30	45	55	65	80	100	115	140	175	230	290	345	405	460	520
40	35	45	55	70	85	100	120	150	200	245	295	345	395	445
50	30	40	45	60	70	85	100	130	170	215	255	300	340	385
60	30	40	45	60	70	85	100	125	165	205	250	290	330	375
70	30	40	50	60	75	85	105	130	175	220	260	305	350	395
80	35	45	50	65	80	95	115	140	190	235	285	330	375	425
90	35	45	55	70	85	100	120	150	200	255	305	355	405	455
100	40	50	60	75	90	110	130	160	215	270	325	380	430	485
110	45	55	65	80	100	115	140	175	230	290	345	405	460	520
120	45	55	65	85	105	120	145	185	245	305	365	425	490	550
130	50	60	75	95	115	135	160	200	265	335	400	465	535	600
140	55	70	80	105	125	150	180	225	300	375	450	525	600	675
150	60	75	90	115	140	170	200	250	335	420	505	590	670	755
160	70	85	100	130	160	185	225	280	375	465	560	650	745	800
170	75	95	115	145	175	205	250	310	415	520	620	725	800	800
180	85	105	125	160	195	230	275	345	460	575	690	800	800	800
190	75	95	115	145	175	205	250	310	415	520	620	725	800	800
200	70	85	100	130	160	185	225	280	375	465	560	650	745	800
210	60	75	90	115	140	170	200	250	335	420	505	590	670	755
220	55	70	80	105	125	150	180	225	300	375	450	525	600	675
230	50	60	75	95	115	130	160	200	265	335	400	465	535	600
240	45	55	65	85	105	120	145	185	245	305	365	425	490	550

STEP 5

Determine Pulley Resultant Load

Determine pulley resultant load from belt tensions and arc of contact.

Resultant load is calculated by:

$$R = 2 \times T_2 \times \sin(\alpha/2) \text{ (non-drive)*}$$

$$R = (T_1 + T_2) \times \sin(\alpha/2) \text{ (drive)*}$$

Where: R = Pulley resultant load

T₁ = Tight side tension

T₂ = Slack side tension

α = Arc of contact

*Note: If non-drive pulley is on tight side of belt, substitute T₁ for T₂. Wing pulleys should not be used as drive pulleys.

listed, interpolate or use the next higher value) until a load rating greater than the resultant load calculated in Step 5 is found. The proper shaft diameter is then read from the vertical shaft diameter column.

STEP 6

Determine Shaft Diameter

Determine shaft diameter from Table 3. Go down the proper pulley face width column and across from the bearing center minus face value (if the correct value is not

Table 2

Use in STEP 4 to determine minimum pulley diameter for Wing Pulleys only MAXIMUM BELT TENSION (Pounds Per Inch of Belt Width)

Dia.	Pounds Per Inch	Dia.	Pounds Per Inch
8"	80#	18"	180#
10"	100#	20"	200#
12"	120#	24"	240#
14"	140#	30"	280#
16"	160#	36"	350#

SELECTION



Drum and Wing Pulleys

Table 3 - Use In Step 6 To Determine Shaft Diameter Load Ratings (Pounds) For Pulley And Shaft Combinations

Shaft Diameter (Inches)	(L) Bearing Centers Minus Face	Pulley Face Width (Inches)														
		12	14	16	18	20	22	26	32	38	44	51	57	63	66	
1-3/16	2	1000	920	780	670	590	530	440	350	290	240	210	180	170	160	
	6	570	520	440	380	340	300	250	700	160	140	170	100	94	90	
	10	400	370	310	270	230	210	170	140	110	96	82	73	66	63	
	14	300	280	240	200	180	160	130	110	87	74	63	56	51	48	
1-7/16	3	1500	1500	1400	1200	1100	950	790	620	510	440	370	330	300	290	
	6	1000	1000	950	820	720	640	530	420	350	300	250	220	200	190	
	10	700	700	660	570	500	450	370	290	240	210	180	160	140	130	
	14	540	540	510	440	390	350	290	230	190	160	140	120	110	100	
1-11/16	3	2400	2400	2400	2300	2000	1800	1500	1200	980	830	710	630	570	540	
	6	1600	1600	1600	1600	1400	1200	1000	800	660	560	480	430	380	370	
	10	1100	1100	1100	1100	960	850	700	560	460	390	340	300	270	260	
	16	780	780	780	750	660	590	490	380	320	270	230	210	180	180	
1-15/16	3	3700	3700	3700	3700	3500	3100	2600	2100	1700	1400	1200	1100	990	940	
	6	2500	2500	2500	2500	2400	2100	1800	1400	1100	980	840	740	670	640	
	10	1700	1700	1700	1700	1700	1500	1200	970	800	680	580	520	470	420	
	16	1200	1200	1200	1200	1100	1000	840	670	550	470	400	360	320	310	
2-3/16	3	5300	5300	5300	5300	5300	5100	4200	3300	2800	2400	2000	1800	1600	1500	
	8	2900	2900	2900	2900	2900	2800	2300	1900	1500	1300	1100	990	890	850	
	12	2200	2200	2200	2200	2200	2100	1700	1400	1100	970	820	730	660	630	
	18	1500	1500	1500	1500	1500	1500	1200	980	810	690	590	530	470	450	
2-7/16	4	6300	6300	6300	6300	6300	6300	5600	4400	3700	3100	2700	2400	2100	2000	
	8	4000	4000	4000	4000	4000	4000	3600	2900	2400	2000	1700	1500	1400	1300	
	12	3000	3000	3000	3000	3000	3000	2700	2100	1700	1500	1300	1100	1000	910	
	18	2100	2100	2100	2100	2100	2100	1900	1500	1300	1100	910	810	130	690	
2-11/16	4	8100	8100	8100	8100	8100	8100	8100	6400	5300	4500	3800	3400	3100	2900	
	8	5300	5300	5300	5300	5300	5300	5300	4200	3400	2900	2500	2200	2000	1900	
	12	3900	3900	3900	3900	3900	3900	3900	3100	2600	2200	1900	1600	1500	1400	
	18	2800	2800	2800	2800	2800	2800	2800	2200	1800	1600	1300	1200	1100	1000	
2-15/16	4	10600	10600	10600	10600	10600	10600	10600	9100	7500	6400	5500	4900	4400	4200	
	8	6900	6900	6900	6900	6900	6900	6900	6000	4900	4200	3600	3200	2900	4700	
	14	4600	4600	4600	4600	4600	4600	4600	3900	3200	2800	2300	2100	1900	1800	
	20	3400	3400	3400	3400	3400	3400	3400	2900	2400	2000	1700	1600	1400	1300	
3-7/16	6	11600	11600	11600	11600	11600	11600	11600	11600	10100	8500	7200	6400	5700	5500	
	10	8500	8500	8500	8500	8500	8500	8500	8500	7400	6300	5300	4700	4200	4000	
	14	6700	6700	6700	6700	6700	6700	6700	6700	5800	4900	4200	3700	3300	3200	
	20	5100	5100	5100	5100	5100	5100	5100	5100	4400	3800	3200	2800	2500	2400	
3-15/16	6	16700	16700	16700	16700	16700	16700	16700	16700	16700	14200	12000	10600	9500	9000	
	10	12400	12400	12400	12400	12400	12400	12400	12400	12400	12400	10600	8900	7900	6700	
	14	9800	9800	9800	9800	9800	9800	9800	9800	9800	9800	8400	7100	6300	5300	
	20	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	6400	5400	4800	4300	4100
4-7/16	8	19600	19600	19600	19600	19600	19600	19600	19600	19600	19100	16100	14200	12700	12100	
	12	15300	15300	15300	15300	15300	15300	15300	15300	15300	15300	14800	12500	11100	9900	9400
	16	12500	12500	12500	12500	12500	12500	12500	12500	12500	12500	12100	10300	9100	8100	7700
	22	9800	9800	9800	9800	9800	9800	9800	9800	9800	9800	9500	8100	7100	6400	6000
4-15/16	8		25200	25200	25200	25200	25200	25200	25200	25200	25200	23600	20800	18500	17600	
	12		19900	19900	19900	19900	19900	19900	19900	19900	19900	19900	18600	16400	14600	13900
	16		16400	16400	16400	16400	16400	16400	16400	16400	16400	16400	15400	13500	12100	11500
	22		13000	13000	13000	13000	13000	13000	13000	13000	13000	13000	12200	10700	9600	9100
5-7/16	10			26600	26600	26600	26600	26600	26600	26600	26600	26600	25100	22300	21100	
	14			22000	22000	22000	20000	22000	22000	22000	22000	22000	22000	20700	18400	17500
	18			18700	18700	18700	18700	18700	18700	18700	18700	18700	18700	17700	15700	14900
	24			15300	15300	15300	15300	15300	15300	15300	15300	15300	15300	14500	12800	12200

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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Drum and Wing Pulleys

Table 3 (Continued) - Use In Step 6 To Determine Shaft Diameter Load Ratings (Pounds) For Pulley And Shaft Combinations

Shaft Diameter (Inches)	(L) Bearing Centers Minus Face	Pulley Face Width (Inches)													
		12	14	16	18	20	22	26	32	38	44	51	57	63	66
6	10			35700	35700	35700	35700	35700	35700	35700	35700	35700	35700	33100	31300
	14			29500	29500	29500	29500	29500	29500	29500	29500	29500	29500	27300	25900
	18			25100	25100	25100	25100	25100	25100	25100	25100	25100	25100	23300	22100
	24			20600	20600	20600	20600	20600	20600	20600	20600	20600	20600	19000	19000
6-1/2	12				39200	39200	39200	39200	39200	39200	39200	39200	39200	39200	38000
	16				33200	33200	33200	33200	33200	33200	33200	33200	33200	33200	32100
	20				28800	28800	28800	28800	28800	28800	28800	28800	28800	28800	27800
	26				24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	23200
7	12				49000	49000	49000	49000	49000	49000	49000	49000	49000	49000	49000
	16				41400	41400	41400	41400	41400	41400	41400	41400	41400	41400	41400
	20				35900	35900	35900	35900	35900	35900	35900	35900	35900	35900	35900
	26				29900	29900	20000	29900	29900	29900	29900	29900	29900	29900	29900
7-1/2	14				54100	54100	54100	54100	54100	54100	54100	54100	54100	54100	54100
	18				46500	46500	46500	48500	48500	46500	46500	46500	46500	46500	46500
	22				40800	40800	40800	40800	40800	40800	40800	40800	40800	40800	40800
	28				34400	34400	34400	34400	34400	34400	34400	34400	34400	34400	34400
8	14				65700	65700	65700	65700	65700	65700	65700	65700	65700	65700	65700
	18				56400	56400	56400	56400	56400	56400	56400	56400	56400	56400	56400
	22				49500	49500	49500	49500	49500	49500	49500	49500	49500	49500	49500
	28				41800	41800	41800	41800	41800	41800	41800	41800	41800	41800	41800
8-1/2	16						67700	67700	67700	67700	67700	67700	67700	67700	67700
	20						59400	59400	59400	59400	59400	59400	59400	59400	59400
	24						52900	52900	52900	52900	52900	52900	52900	52900	52900
	30						45400	45400	45400	45400	45400	45400	45400	45400	45400
9	16						80400	80400	80400	80400	80400	80400	80400	80400	80400
	20						70500	70500	70500	70500	70500	70500	70500	70500	70500
	26						59500	59500	59500	59500	59500	59500	59500	59500	59500
	32						51500	51500	51500	51500	51500	51500	51500	51500	51500
9-1/2	16						94500	94500	94500	94500	94500	94500	94500	94500	94500
	22						78100	78100	78100	78100	78100	78100	78100	78100	78100
	28						66500	66500	66500	66500	66500	66500	66500	66500	66500
	34						57900	57900	57900	57900	57900	57900	57900	57900	57900
10	16						110000	110000	110000	110000	110000	110000	110000	110000	110000
	22						91100	91100	91100	91100	91100	91100	91100	91100	91100
	28						77600	77600	77600	77600	77600	77600	77600	77600	77600
	34						64800	64800	64800	64800	64800	64800	64800	64800	64800



SELECTION

Drum and Wing Pulleys

STEP 7

Determine Drive Pulley Shaft Diameter

(For drive pulleys only) The shaft diameter determined in Step 6 must be checked for torque capacity. The shaft diameter required for torque is determined from:

$$D_T = 3 \sqrt{\frac{16}{\pi \times S} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}$$

Where: D_T = Required shaft diameter from torque
 $p = 3.1416$
 $S = 8000$ psi for 1042 -1045 shafting
 (10,000 for 4140)
 $K_B = 1.5^*$
 A = Moment arm (from Table 4)
 R = Resultant load from Step 5
 T_1 = Tight side tension
 T_2 = Slack side tension
 D = Pulley Diameter

*Note: Use $K_B = 2.5$ for overhung load drive (chain, torque arm, etc.)
 If D_T is greater than the shaft diameter from Step 6, round D_T up to the next standard shaft diameter and use that value. If D_T is less than the shaft diameter from Step 6, use the diameter selected from Step 6.

Table 4 - A-Values

Shaft Dia. (inches)	A	Shaft Dia. (inches)	A
1 to 2-7/16	N+1-5/8	4-15/16	N+3-1/4
2-11/16 to 2-15/16	N+1-3/4	5-7/16 to 6	N+4-1/2
3-7/16	N+2-1/2	6-1/2 to 7	N+5
3-15/16	N+2-3/4	7-1/2 to 8	N+5-1/4
4-7/16	N+3	8-1/2 to 10	N+6-1/4

$N = BCMF \div 2$

STEP 8

Compare Pulley Diameter

Compare the pulley diameter, face width combination selected with the standard drum pulley listing on pages PT14-15 - PT14-33 or the standard wing pulley listing on pages PT14-34 - PT14-48 to insure the selected combination is available. If the selected combination is not available increase shaft diameter or pulley diameter until a standard pulley is listed.

Example 1 (Drive Pulley)

Given: 36" belt width 3600 lb. T_1
 52" bearing centers 1600 lb. T_2
 210° arc of contact

Step 1

Determine required face width from:
 $F = BW + 2"$ $F = 36 + 2 = 38$

Step 2

Determine bearing center minus face dimension from:
 $BCMF = BC - F$ $BCMF = 52 - 38 = 14"$

Step 3

Determine pounds per inch of face width from:
 $PIW = T_1 \div BW$ $PIW = 3600 \div 36 = 100$ PIW

Step 4

Determine minimum pulley diameter using Table 1. Since $PIW = 100$ and arc of contact is 210°, the minimum pulley diameter is 14".

Step 5

Determine resultant load from:
 $R = (T_1 + T_2) \times \sin(\alpha/2)$
 $R = (3600 + 1600) \times \sin(210/2) = 5023$ lb.

Step 6

Determine shaft diameter using Table 3. Using a face width of 38" bearing center minus face dimension of 14" and a pulley resultant load of 5023 lbs., read down the 38" face width column until the load rating at $BCMF = 14"$ exceeds 5023 lb. The first value to exceed 5023 lbs. is 5800 lbs. at a shaft diameter of 3-7/16.

Step 7

Check torque capacity of selected shaft using:

$$D_T = 3 \sqrt{\frac{16}{\pi \times S} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}$$

$$D_T = 3 \sqrt{\frac{16}{3.1416 \times 8000} \times \sqrt{(1.5 \times 9.5 \times 5023 \div 2)^2 + [(3600 - 1600) \times D \div 2]^2}}$$

$D_T = 2.86"$

The 3-7/16 shaft diameter selected in Step 6 is greater than 2.86: therefore 3-7/16 is the final shaft diameter selection.

Step 8

Checking the standard pulley listing on page PT14-30, a 14 x 38 pulley with 3-7/16 shaft (HE35 Hub) is a standard pulley.

Example 2 (Non-drive wing pulley).

Given: 54" belt width 180° arc of contact
 71 bearing centers 8600 lb. T_2

Step 1

Determine required face width from:
 $F = BW + 3,$ $F = 54 + 3 = 57,$

Step 2

Determine bearing center minus face dimension from: $BCMF = BC - F$
 $BCMF = 71 - 57 = 14,$

Step 3

Determine pounds per inch of face width from:
 $PIW = T_2 \div BW$ $PIW = 8600 \div 54 = 159$ PIW

Step 4

Determine minimum pulley diameter using Table 2. Since $PIW = 159$ the minimum pulley diameter is 16".

Step 5

Determine resultant load from:
 $R = 2 \times T_2 \times \sin(\alpha/2)$
 $R = 2 \times 8600 \times \sin(180/2) = 17,200$ lbs.

Step 6

Determine shaft diameter using Table 3. Using a face width of 57", bearing center minus face dimension of 14" and a pulley resultant load of 17,200 lbs., read down the 57" face width column until the load rating at $BCMF = 14"$ exceeds 17,200 lbs. The first value to exceed 17,200 lbs. is 20,700 lbs. at a shaft diameter of 5-7/16.

Step 7

Checking the standard wing pulley listing on page PT14-46, a 16 x 57 wing pulley with 5-7/16 shaft (HE60 hub) is not a standard pulley. For a 5-7/16 shaft you must select a 24" diameter pulley.

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION/DIMENSIONS



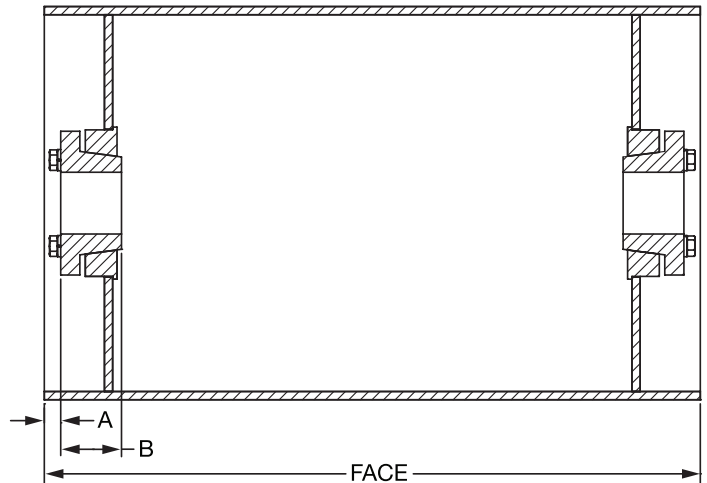
HE Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100", others available upon request
- HE bushing system designed specifically for Dodge Conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

HE Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
HE25	3/4	1.80	HE25	2-1/2	360
HE30	3/4	2.20	HE30	3	710
HE35	3/4	2.78	HE35	3-1/2	1080
HE40	3/4	2.93	HE40	4	1680
HE45	3/4	3.20	HE45	4-1/2	1680
HE50	3/4	3.70	HE50	5	2400
HE60	1	3.95	HE60	6	4200
HE70	1	4.45	HE70	7	6000
HE80	1-1/4	5.20	HE80	8	6000
HE100	1-1/4	6.45	HE100	10	7200
HE120	1-1/4	7.45	HE120	12	7200





HE Heavy Duty Crown Drum Pulley Part Numbers

Dia	Hub	Face Width																					
		10	12	14	16	18	20	22	24	26	28	30	32	34									
6	HE25		206001	206003	209942	203500	203501	206009	203502	206012		203503	203504										
8	HE25		206020	206022		206024	203516		209945	206029		203519	206031										
10	HE25	203268	206035	206036	206037	206039	206041	206042	203530	206044	223058	209710	206046										
	209948				203910	203526	203531		203533	203538													
					203527	203529	203534		203539														
12	HE25		209716	206056	206057	206058	206060	209718	203561	206063	203272	209720	206066	209721									
	HE30														223061	203271	209717	203558	206064	203568	206067		
	HE35																203559	203563	203565	203571			
	HE40																203560	203566	203566	203572			
14	HE25		203594	209726	203596	203597	206080	209951	203607	206081	209729	209730	206083										
	HE30						209727	203603	203608	206082			203616										
	HE35		209725				203600		203609	209728			203613		203617	203621							
	HE40								203606	203611			203618		203622								
	HE45														203623								
	HE60																						
16	HE25	203207	203651	203652	206090	206091	206092	209736	209952	206095	223074	209739	206097										
	HE30							203657	209737	206096			209738		206098								
	HE35							203654	203658	203666			223075		203671	203674							
	HE40							203655	203659	203664			203667		203672	203675							
	HE45												203668		203676	203677							
	HE50												223073		223076	223076							
18	HE25	202006	203703	203704	209743	209744	206110	203712	209746	206111	223096	209749	206114										
	HE30							203713	203718	206112			209748		206115	203732							
	HE35							203707	203719	206113			223097		203726	203729							
	HE40							202010	202017	206113			223098		203727	203730							
	HE45							202015	203709	209747			223098		203728	203731							
	HE50							202016	203710	203715			223095		203728	223099							
20	HE25	203309	209756	203765	203766	203767	206125	203773	203778	206126	223124	209955	206089	223130									
	HE30							203774	209758	206127			223125		203786	206129							
	HE35							203770	203775	206128			223126		203787	206130	203310						
	HE40							203771	203776	209759			223127		203788	203790	209760						
	HE45									203784			203789		203789	203791	203311						
	HE50									223123			223128		203789	223129							
24	HE25	224528	202035	202038	202041	202043	202046	202047	202049	223160	223161	209955	206089	209771									
	HE30							203814	209957	203816			203817		203818	203819	209958	203827	206140	223162	203832	206142	203341
	HE35							202032	202036	209767			202042		202044	203820	203824	203828	206141		203833	206143	
	HE40							224529	202037	203339			224533		202045	203821	202048	203829	203908	209769	209770	206144	209773
	HE45															203822	203826		203908			203836	
	HE50																		203831			209772	
HE60									203340	223163		209772											
30	HE30	202050	224534	203857	203858	209959	203860	202070	202073	223160	223161	209955	206089	209771									
	HE35							203861	203864				203868		203871	203875	203878						
	HE40							203862	203865				203869		203872	203877	203880						
	HE45							202052	224536				224537		209780	203863	202071	203870	203873	203873	209781		
	HE50							202053	202060				202063		202151	202068	203863	202071	203870	203873	209781		
	HE60							202054	202061				202064		202066		202069	202072	202074		223192	203479	
36	HE30	202075	202085	202090	203906	202096	202098	202103	202107														
	HE35							202099	202104						202108								
	HE40							202100	202109						202109								
	HE45							202101	202105						202110								
	HE50							202102	202106						202111								
	HE60																						
	HE70																						



HE Heavy Duty Crown Drum Pulley Part Numbers (continued)

Dia	Hub	Face Width											
		36	38	40	44	46	50	51	54	56	57	60	63
6	HE25	203505	206014	209700	209701		203510	203511	203512			209703	209704
8	HE25		209707		206033			206034	203524				
10	HE25	209949	206048		206049			206052	209712		223059		223060
	HE30		203543		206051			206050				209713	209714
	HE35		203544		209711		203203	203551		203204			209715
12	HE25	209950	206069	203274	206072	203583		206074	203590		203275		203276
	HE30	203574	206070	209722	206073	203584		203587	203591		223063		209724
	HE35	203575	203577	206071	203581	203585		203588	203592		209723		203277
	HE40		203578	203579	203582	203586		203589	203593				223065
14	HE25	203624	206084		203633	203637		203642	209731				223070
	HE30	203625	206085		203907	203638		206087	203647		223067		223071
	HE35		203629	206086	203634	203639		203643	203648		223068		209733
	HE40	203627	203097		203635			203644	203649		223069		223072
	HE45		203631		203636	203641		203645			209732		
	HE60						203205				203206		
16	HE25	203677	206099	223080	203685	203689		203695	203698				223091
	HE30	203678	206100	223081	206102	203690		203696			223086	223090	209742
	HE35	203679	203682	206101	203686	223084		206103	203700		223087		223092
	HE40	203680	203683	223082	203687	203691		206104	203701		223088		203293
	HE45		203684	209741	203688	203692		203697			203292		223093
	HE50		223079	223083				223085			223089		223094
18	HE25	203735	206116	223101	203744	203748		203755	203759		223111		223118
	HE30	203098	206117	203742	203745	203749		203756	203760		223112		223119
	HE35	203737	206118	209751	206121	203750		203757	203761		223113		209755
	HE40	203738	203740	206119	203746	203751	203754	206120	203762		223114		223120
	HE45	203739	203741	223102	209752	209753		203758	203763		223115		203307
	HE50	223100	203303	223104	203305	203753		209754	223110		223116		203308
20	HE25	209956	206131	223133	203799	203802		223142			223148		223155
	HE30	203793	206132	223134	206134	203803		203807	203810		203320		223156
	HE35	203794	206133	223135	206135	223139		203808	203811		203322		209766
	HE40	203795	203797	203314	206136	203804		203809	203812		223149		203326
	HE45	203796	209761	203315	209762	209763		206137	203813		223150		203327
	HE50		223132	223136	203801	203317		209764	209765		203323	223154	203328
24	HE25		203342	223168	223174			223179	223181		223183		223186
	HE30	203837	206145		206148	203845		203848	209777		223184		
	HE35	203838	206146	203842	206149	203846		203849	203853		203361		223187
	HE40	203839	206147	203843	203844	203349		203850	203854		203856		209778
	HE45	203840	203841	223170	206150	203350		206151	203855		203362		203371
	HE50		203343	223171	209774	209775		209776	223182		203363		209779
	HE60	223166	203344	223172	203346	203352		203355	203359		203364		203373
30	HE30		203886		203891	203895		223200					223208
	HE35	203883	209960		203892	203896		203900					
	HE40	203884	203888	203890	209784	203897		203901			223206		
	HE45	203885	209782		203894	203898		209786	203905		203408		223209
	HE50		203393	209783	209785	223198		203402	223204		203409	223207	223210
	HE60	223193	203394	223195	203398	203401		203403	203406		203410		203414
36	HE30												
	HE35												
	HE40		203474		223213			223219				223224	223225
	HE45				203475			223220					
	HE50				223214	223217		223221					223226
	HE60				203437	223218		203438			203441		223227
HE70				223215			203439			223223		223228	

Conveyor Components

Engineering

Part Number Index

Keyword Index



HE Heavy Duty Straight Drum Pulley Part Numbers

Dia	Hub	Face Width										
		10	12	14	16	18	20	24	26	28	30	32
6	HE25		223230	209800		209801	209802		209803			223231
8	HE25	223233	223234	223235	223236	223237	223238		223239		223240	209810
	HE30											
	HE35											
10	HE25						209814		209815			209816
	HE30											223245
	HE35											
12	HE25					209818	209819	223250	209820	223252		223253
	HE30								223251			209821
	HE35											223254
	HE40											
	HE45											
14	HE25								209826			209827
	HE30								223262			223263
	HE35											
	HE40											
	HE45											
	HE50											
16	HE25						223275		223277	223280		209832
	HE30						223276		209831	223281		223283
	HE35								223278	223282		223284
	HE40								223279			209833
	HE45											223285
	HE50											
	HE60											
18	HE25								223307	223308		223311
	HE30								209843	223309	209845	223312
	HE35								209844	223310		209846
	HE40											223313
	HE45											223314
	HE50											
	HE60											
HE70												
20	HE25								223361			223366
	HE30								223362			223367
	HE35								209852	223363		223368
	HE40									223364		223369
	HE45											223370
	HE50											223371
	HE60									223365		
	HE70											



HE Heavy Duty Straight Drum Pulley Part Numbers (continued)

Dia	Hub	Face Width										
		34	36	38	40	44	46	51	54	57	60	63
6	HE25			209804	223232	209805				209806	209807	209808
8	HE25			209811		223242		209812		223244		209813
	HE30							223243				
	HE35			223241								
10	HE25			209817		223246						223248
	HE30						223247					223249
	HE35											
12	HE25					209823		223258				209825
	HE30			209822			223257	209824	223259	223260		
	HE35			223255								
	HE40											
	HE45					223256						
14	HE25			209828								
	HE30			223265		209829		223271				209830
	HE35		223264	223266		223268						223272
	HE40			223267		223269						
	HE45											223273
	HE50											223274
16	HE25			209835				209839				
	HE30	209834		209836	223290	223293	223294	223301			209841	
	HE35			223287	223291	209837	223295	209840				209842
	HE40	223286			223292	209838	223296	223302		223305		223306
	HE45			223289			223297	223303				
	HE50						223298	223304				
	HE60						223299					
18	HE25			223319	223324		223334	223340	223345			223355
	HE30			223320	223325	223330	223335					
	HE35		223315	209847	223326	209848	223336	223341	223346	223351		209851
	HE40		223316	223321	223327	223331	223337	223342	223347	223352		223356
	HE45		223317	223322	223328	209849		223343	223348			223357
	HE50		223318	223323	223329	223332		209850	223349	223353		223358
	HE60					223333		223344	223350	223354		223359
	HE70											223360
20	HE25				223380	223386		223398				
	HE30			223375	223381	223387	223391	223399	223405			
	HE35	223372		223376	223382	223388	223392	223400		223407		223409
	HE40			223377	209853	223389	223393	223401	209855			223410
	HE45			223378	223383	223390	223394	223402				223411
	HE50	223373	223374	223379	223384	209854	223395	223403	223406			223412
	HE60				223385		223396	223404				
	HE70											

Conveyor Components

Engineering

Part Number Index

Keyword Index

SELECTION



HE Heavy Duty Straight Drum Pulley Part Numbers (continued)

Dia	Hub	Face Width											
		10	12	14	16	18	20	24	26	28	30	32	
24	HE25												223415
	HE30												223416
	HE35												223417
	HE40												
	HE45												223418
	HE50												223419
	HE60												
	HE70												
30	HE25												
	HE30												
	HE35												
	HE40												
	HE45												
	HE50												
	HE60												
	HE70												
36	HE35												
	HE40												
	HE45												
	HE50												
	HE60												
	HE70												

Dia	Hub	Face Width											
		34	36	38	40	44	46	51	54	57	60	63	
24	HE25				223426		223437	223443					
	HE30				223427				223449				
	HE35			223420	223428	223433	223438	223444	223450	223454			223460
	HE40			223421	223429	223434	223439	223445	223451	223455			
	HE45			223422	223430	223435	223440	223446	223452	223456			223461
	HE50			223423	223431	209856		209857		223457			223462
	HE60			223424	223432	223436		223447	223453	223458	223459		223463
	HE70			223425				223448					223464
30	HE25												
	HE30												
	HE35									223484			
	HE40					223472							
	HE45			223467									223487
	HE50			223468		223473			223481				223488
	HE60			223469		223474		223479	223482	223485			223489
	HE70		223466			223475		223480					223490
36	HE35												
	HE40												
	HE45												
	HE50									223497			
	HE60												
	HE70						223492		223496				223499

SELECTION



HE Heavy Duty Crown Drum Pulleys with Lagging Part Numbers

Dia	Hub	Lagging	Face Width											
			12	14	18	20	26	32	38	44	51	63		
6	HE25	3/8 HBG				209896								
8	HE25	3/8 HBG					209897							
10	HE25	3/8 HBG					209898	209899	203911	209900	209902			
	HE30	3/8 HBG						207971	207973	209901				
12	HE25	3/8 HBG				209903	209904	209905	209906	224508		203473		
	HE30	3/8 HBG					206105	206106	209907	209909	209910			
	HE35	3/8 HBG							209908		209911	207578		
14	HE25	3/8 HBG				209912	207954	207950	207951	207205	207952	207953		
	HE30	3/8 HBG					209913	209914	209915	209916	209918			
	HE35	3/8 HBG					205669		205670	209917	209919			
16	HE25	3/8 HBG				209920	207206	205671	207209	205673				
	HE30	3/8 HBG					207207	207208	207210	209922	209923			
	HE35	3/8 HBG					206054	206075	206076	208923	205675			
	HE40	3/8 HBG						205672	209921	205674	205676			
18	HE25	3/8 HBG						209924						
	HE30	3/8 HBG					207211	207212	207213		205520			
	HE35	3/8 HBG					206107	206077	206108	209927	205521	205523		
	HE40	3/8 HBG						209925	209926	209928	205522	205524		
20	HE25	3/8 HBG					209929	209932						
	HE30	3/8 HBG					209930	207214	209934					
	HE35	3/8 HBG					209931	209933	209935		205527	205528		
	HE40	3/8 HBG					206078	206079	206088	205985	209936			
	HE45	3/8 HBG							209983					
24	HE25	3/8 HBG	203912											
	HE30	3/8 HBG		203913				209937						
	HE35	3/8 HBG			203914		207977	209938	209939		205530			
	HE40	3/8 HBG					207978	207215	207216	209940	209941	205532		
	HE45	3/8 HBG				206017	206018	206019	206053	205531	205533			

Conveyor Components

Engineering

Part Number Index

Keyword Index



SELECTION/DIMENSIONS

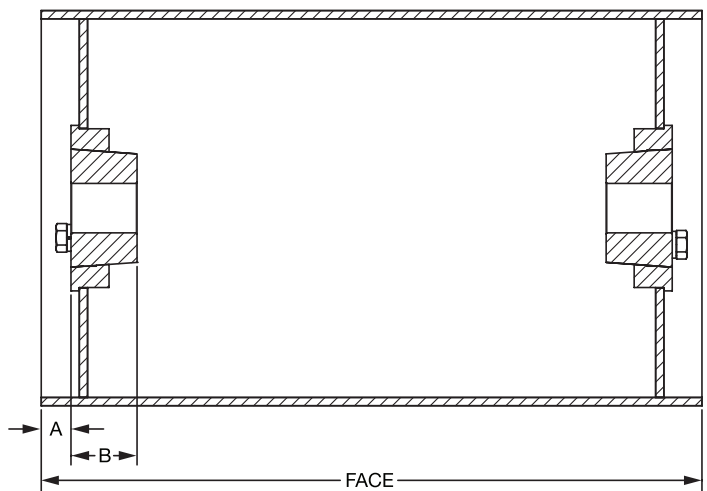
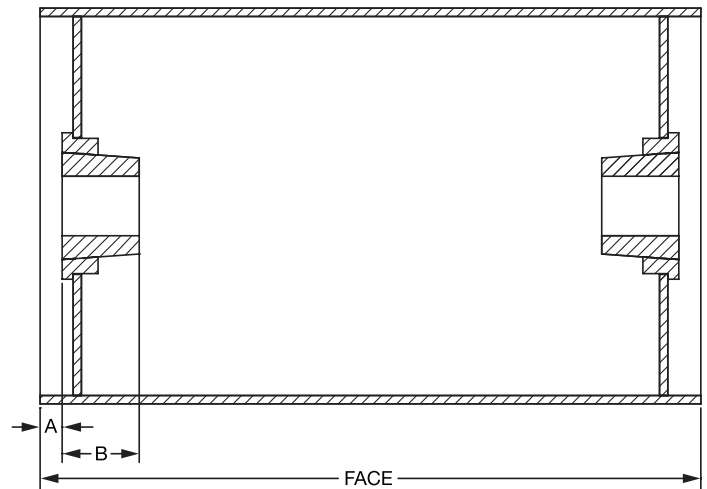
TAPER-LOCK Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flush mount, compact design mounting system
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

TAPER-LOCK Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
K25	1	1-3/4	2517	2-1/2	430
F25	1	1-3/4	2517	2-1/2	430
F30	1	2	3020	3	800
K35	1	3-1/2	3535	3-1/2	1000
K40	1	4	4040	4	1700
K45	1	4-1/2	4545	4-1/2	2450
K50	1	5	5050	5	3100
K60	2-1/4	5	6050	6	7820
K70	2-1/4	6	7060	7	7820
K80	2-1/4	6-1/2	8065	8	7820
K100	2-1/4	8-1/2	10085	10	13700
K120	2-1/4	10	120100	12	13700





Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers

Dia	Hub	Face Width											
		10	12	14	16	18	20	22	24	26	30	32	
6	F25		204505	204506	204507	204508	204509	204510	204511	204512	204514	204515	
8	F25	204417	204524	204525			204528			204531		204534	
	F30												
	K35												
10	K25		204549	204550	204551	204552	204553	204554	204555	204556	204558	204559	
	F30						205050	205051	205052	205053	205054	205056	
	K35								205123	205124	205125		
12	K25		204574	204575	204576	204577	204578	204579	204580	204581	204582	204584	
	F30						204760	205063	205064	204700	205065	204701	
	K35						205132	205133	205134	205135	205136	205137	
	K40											205225	
	K45												
14	K25		204599	204600	204601	204602	204603	204604	204605	204606	204608	204609	
	F30						205070	205071	205072	205073		204266	
	K35							205145		205147	205148	205149	
	K40									205234			
	K45												
16	K25		204623	204624	204625	204626	204627	204628	204629	204630	204632	204633	
	F30						204706	205080		204707	205082	204708	
	K35						205156			205159		205161	
	K40									205246		205248	
	K45												
18	K25		204649	204650	204651	204652	204653	204654	204655	204656	204658	204659	
	F30					204353	205086	205087	205088	204713	205089	204714	
	K35						205165			205168	205169	205170	
	K40						205252			205255	205256	205257	
	K45									205332		205334	
	K50												
	K60												
20	K25		204672	204673		204675	204676	204677		204679	204681	204682	
	F30						204719	205094	205095	204720	205096	204721	
	K35						205175	205176	205177	204424	205178	204425	
	K40						205264	205265		205267	205268	205269	
	K45						205341		205343	205344	205345	205346	
	K50												
	K60												
K70													

Conveyor Components

Engineering

Part Number Index

Keyword Index



Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers (cont)

Dia	Hub	Face Width										
		34	36	38	40	44	46	48	51	54	57	63
6	F25		204517	204518			204520	204339		204522		204342
8	F25			204537		204538	204539					204346
	F30											
	K35											
10	K25		204561	204562		204565	204566		204568	204571		
	F30		205057	205058		205059	205060		205061			
	K35			205127		205128	205129					
12	K25		204586	204587		204590	204591		204593			
	F30		205066	204702		204703	205067		205068			
	K35		205138	205139		205140	205141		205142			
	K40			205227	204349	205228	204275		205229	205230		
	K45											
14	K25		204611	204612		204615			204618			
	F30		205075	205076		204761			205078			
	K35		205150	205151		205152	205153		205154			
	K40				204265	205240	204276		205241			
	K50			205312								
16	K25		204635	204636		204639	204640		204642			
	F30		205083	204709		204710		204267	205085			
	K35		205162	204268		205163		204269				
	K40			204277		204278		205250	205251			
	K45					205325		205327	205328			
	K60											
18	K25		204661	204662		204665	204666		204668	204669		
	F30	204354	205090	204715	204357	204716	205091		205092	205093		
	K35	204355	205171	204270	204358	204271	205172		203099		223504	
	K40	204356	205258	204280		204281	205261		205262	205263		
	K45			205336		205337	205338		205339	205340		
	K50			223503			204359					
	K60											
20	K25		204684	204685		204687						
	F30		205097	204722		204723	205098		204724			
	K35	204754	205179	204426		204427	204769		205180	205181		
	K40		205270	204282		204283	205273		204284	205275		
	K45		205347	205348		205349	203096		205350	205351		
	K50					204362	204770					
	K60											
K70												



Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers (cont)

Dia	Hub	Face Width										
		10	12	14	16	18	20	22	24	26	30	32
24	K25	204365	204727	204728	204729	204730	204731	204732	204733	204734	204735	204736
	F30						204428			204429		204430
	K35						205276			204772		204285
	K40						205352			205355		204290
	K45											
	K50											
	K60											
	K70											
K80												
30	K25			204744	204745	204746	204747	204748	205102	204749	205290	204750
	F30			205188	204435	204436						
	K35			205286	205289	205291						
	K40			205363	205365	205368						
	K45											
	K50											
	K60											
	K70											
K80												
36	K35				204780							
	K40											
	K45											
	K50											
	K60											
	K70											
K80												

Dia	Hub	Face Width															
		34	36	38	40	44	46	48	51	54	57	63					
24	K25		204738	204739	204366	204740	205100	204774	204741	205101	204368						
	F30			204431		204432	205186			204272		205187					
	K35			204286		204287	204773			204288		205285					
	K40			204291		204292				204293		205362					
	K45			204295						204779							
	K50			204946						204329							
	K60																
	K70																
K80																	
30	K25			204751	204369	205105	205192	204381	205193	205296	205374						
	F30			204437		204438						205295	205373				
	K35			205293		205294						205295					
	K40			205370		205371						205372					
	K45																
	K50																
	K60																
	K70																
K80																	
36	K35																
	K40																
	K45																
	K50																
	K60																
	K70																
K80																	



SELECTION/DIMENSIONS

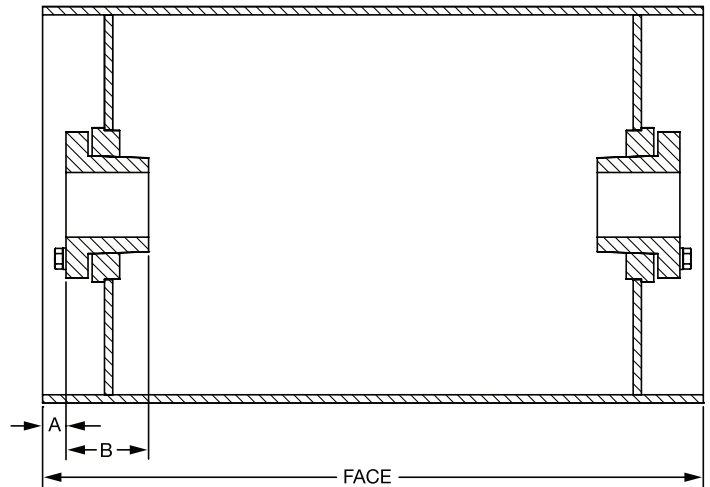
QD Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flange mount bushing system
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

QD Hub	A	B	Bushing	Max. Bore*	Screw Torque (in.-lb.)
SF	7/8	2-1/16	SF	2-1/2	360
E	1	2-3/4	E	3	720
F	1-1/16	3-3/4	F	3-1/2	900
JS	1-1/8	3-3/8	J	4	1620
MS	1-1/4	4-13/16	M	4-1/2	2700
NS	1-5/16	6	N	5	3600
PS	1-3/8	6-1/2	P	6	5400
WS	1-9/16	7-1/4	W	8	7200
SS	1-5/8	8-3/4	S	10	9000
ZS	1-9/16	8-3/4	Z	12	7200

* Maximum recommended for conveyor pulley applications





QD Heavy Duty Crown Drum Pulley Part Numbers

Dia	Hub	Face Width										
		10	12	14	16	18	20	22	24	26	30	32
6	SF		208301	208302	208303	208304	208305	208306	208307	208308	208309	208310
8	SF E F											
10	SF E F		208337	208338	208339	208340	208341 208342	208344 208345	208347 208348	207500 208350	208352	207501 208355 208356
12	SF E F J M		208375	208377	208378	208379	207503 208380	208383 208384 208385	208387 208388 208389	207504 207514 208391	208393 208394 208395	207505 207515 208397 208398
14	SF E F J M N		208422	208423	208424	208425	208426 208428	208431 208433	208436 208437	207507 208441 208442 208443	208445	207508 208450
16	SF E F J M N P		208474			208476	208477 208478 208479	208482 208484	208487 208488 208489	207510 207517 208492 208493	208495 208496	207511 208500 208501 208502
18	SF E F J M N P		208531	208532		208534	208536 208537 208538	208541 208543	208546 208547 208548	207513 207519 208551 208552	208554 208555	208559 207520 207527 208561 208562
20	SF E F J M N P		208597	208598 223528		208600	208602 208603 208604 208606	208607 208608	208612 208613	208617 207522 207529 208618 208619	208621 208622 208623	208625 207523 207530 208626 208627



QD Heavy Duty Crown Drum Pulley Part Numbers (Continued)

Dia	Hub	Face Width										
		34	36	38	40	44	46	48	51	54	57	63
6	SF		208311	208312		208313	208314	208315	208316			208319
8	SF		208330	208331			208333		208334	208335		208336
	E											
	F											
10	SF		208357	207502		208363			208369	208372	223518	223519
	E		208358	208360		208364			208370	208373		
	F			208361					208371			
12	SF		208399	207506		208406			208414			
	E		208400	207516		208407			208415			223520
	F		208401	208403		208408			208416			223521
	J					208409			208417			
14	M											
	SF		208454	207509		208464	208469					
	E			208459		208465	208470		208794			223523
	F			208460		208466			223522			
	J			208461		208467						
16	M											
	N											
	SF		208504	207512		208512	208517		208521			
	E		208505	207518		208513		208522	208527			208800
	F		208506	207526		208514		208523				
	J		208507	208510		208515		208524	208529	223524		
18	M											
	N											
	P											
	SF		208566	208571		208577			208587			
	E	208563	208567	207521	208575	208578			208588	208593		223526
	F	208564	208568	207528	208576	208579	208584		208589			208806
	J		208569	208573		208580			208590			223527
20	M											
	N											
	P											
	SF		208628	208633		208636						
	E		208629	207524		208637	208643		208646			
	F			207531		208638			208647			
20	J		208631	208634		208639	208644		208648			
	M			208635		208640			208649			
	N			223529							223530	
P												

SELECTION



QD Heavy Duty Crown Drum Pulley Part Numbers (Continued)

Dia	Hub	Face Width									
		10	12	14	16	18	20	22	24	26	30
24	SF	208654	208655	208656	208657		208659	208664	208667	208671	208673
	E						208660		207532		
	F						208661		208672		
	J						208662				
	M										
30	SF			208703	208704	208705	208706			208717	208723
	E			208758			208707			208718	
	F						208708			208719	
	J						208709				
	M										
36	SF										
	E										
	F										
	J										
	M										

Dia	Hub	Face Width										
		34	36	38	40	44	46	48	51	54	57	63
24	SF		208679 208680	208683	208686 208687	208688	208693		208694	208699 208700		
	E			207534		208689			208695			
	F			208684		208690			208696			
	J			208685		208691			208697			
	M			223531		223533			223535			
30	SF			208731	208734	208735	208740 208742		208743	208746 208747		
	E			207536		208736			208744			
	F			208732		208737			208745			
	J			208733		208738						
	M					223537			223538			
36	SF											
	E											
	F											
	J											
	M											

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION

Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

Dia.	Max. Bore	Face Width										
		12	14	16	18	20	22	24	26	30	32	36
6	2.5	27	29	31	33	35	37	39	41	45	47	52
8	2.5	34	37	40	42	45	48	51	53	59	62	69
10	2.5	43	46	50	53	56	60	63	67	74	77	88
	3	49	53	56	60	63	67	70	74	80	84	94
12	2.5	52	56	60	64	69	73	77	81	89	93	107
	3	60	64	68	72	77	81	85	89	97	102	115
	3.5	75	79	83	87	92	96	100	104	112	116	129
14	2.5	62	67	72	77	82	87	91	96	106	111	128
	3	62	67	72	77	82	86	91	96	106	111	128
	3.5	85	90	95	100	105	110	114	119	129	134	150
	4	95	100	105	110	114	119	124	129	139	144	160
16	2.5	67	72	78	83	89	94	100	105	117	122	144
	3	72	77	83	88	94	99	105	111	122	127	148
	3.5	90	96	101	107	112	118	124	129	140	146	166
	4	106	112	117	123	129	134	140	145	156	162	182
	4.5	...	126	131	137	142	148	153	159	170	176	195
18	2.5	77	83	89	96	102	108	114	121	133	139	165
	3	90	97	103	109	115	122	128	134	147	153	178
	3.5	100	107	113	119	125	132	138	144	157	163	188
	4	123	131	139	148	156	164	173	181	198	206	235
	4.5	...	145	154	162	170	179	187	193	212	220	248
	5	...	...	192	201	209	217	226	234	251	259	286
20	2.5	101	111	120	129	138	148	157	166	185	194	229
	3	117	127	136	145	154	164	173	182	201	210	245
	3.5	125	134	144	153	162	171	181	190	208	218	252
	4	135	144	154	163	172	181	191	200	218	228	261
	4.5	...	159	168	177	186	196	205	214	233	242	275
	5	...	...	207	216	225	234	244	253	271	281	313
24	3	149	160	171	183	194	205	216	227	249	260	307
	3.5	167	179	190	201	212	223	234	245	268	279	325
	4	177	188	199	211	222	233	244	255	277	288	334
	4.5	...	202	213	224	235	247	258	269	291	302	347
	5	...	...	274	287	301	315	329	343	371	385	434
	6	...	...	...	386	403	419	436	453	486	502	561
30	3	204	218	232	246	260	274	288	301	329	343	409
	3.5	222	236	250	264	278	292	306	320	348	362	427
	4	253	270	287	305	344	340	357	374	409	426	498
	4.5	...	284	301	319	336	353	371	388	423	440	512
	5	...	...	340	357	374	392	409	427	461	479	550
	6	...	...	...	462	483	504	524	545	587	608	693
	7	...	...	...	536	557	578	598	619	703	724	765
	8	...	...	...	...	613	634	655	676	758	779	820

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1-1993. They are not to be used with steel cable belts or other high modulus belts.

SELECTION



Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

Face Width												
38	40	44	46	51	54	57	60	63	66	72	75	78
54	56	60	62	67	71	74	77	80	83	90	93	96
72	75	80	83	90	96	100	104	108	112	122	127	131
91	94	101	105	113	122	127	132	138	143	157	162	167
97	101	108	111	120	128	133	138	143	149	162	167	172
111	116	124	128	138	150	156	163	169	175	193	199	205
119	123	135	139	149	160	167	173	179	185	203	209	215
134	138	146	150	161	171	178	184	190	196	213	220	226
133	138	148	153	165	180	187	194	202	209	231	239	246
133	137	162	166	179	193	200	208	215	222	244	251	259
155	160	170	175	187	201	208	216	223	230	252	259	266
164	169	179	184	196	210	217	224	231	239	260	267	274
149	155	166	171	185	204	212	221	229	237	264	273	281
154	159	190	196	210	228	236	245	253	261	288	296	305
172	177	189	194	214	232	241	249	257	266	292	300	308
187	193	204	210	224	241	249	257	266	274	300	308	316
201	206	217	223	237	254	262	270	279	287	312	320	329
172	178	190	197	212	235	244	254	263	273	305	314	323
185	191	212	218	234	256	266	275	284	294	325	335	334
194	200	213	219	243	265	275	284	293	303	334	343	353
243	251	268	276	297	321	334	346	359	371	408	421	433
256	265	281	290	311	334	347	359	372	384	421	433	446
295	303	320	350	371	394	406	419	431	444	480	492	504
238	248	266	275	299	329	343	357	371	385	429	443	457
254	263	282	291	314	344	358	372	386	400	444	457	471
261	270	289	298	321	351	365	379	393	406	450	464	478
271	280	298	308	331	360	374	388	402	415	458	472	486
284	294	312	321	344	373	387	401	415	429	471	485	499
323	332	350	360	383	411	425	439	452	466	508	522	536
318	329	351	362	390	431	447	464	481	497	555	571	588
336	347	369	380	408	448	465	482	498	515	572	589	605
345	356	378	389	417	457	473	490	507	524	580	597	613
358	369	391	403	430	470	486	503	520	536	592	609	626
448	462	490	504	538	581	602	623	643	664	728	749	769
577	594	627	644	685	735	760	785	810	834	909	934	959
423	437	465	479	514	573	594	615	636	657	737	757	778
441	455	483	497	532	590	611	632	653	674	754	775	796
516	533	568	585	629	692	718	744	770	796	886	912	938
529	547	581	599	642	705	731	757	783	809	898	924	950
567	584	619	637	680	742	768	794	820	847	935	961	987
714	735	777	797	849	925	956	987	1018	1049	1156	1187	1218
786	807	849	869	921	995	1026	1057	1088	1120	1182	1213	1287
841	862	904	925	977	1049	1080	1111	1142	1174	1236	1267	1339

Conveyor Components

Engineering

Part Number Index

Keyword Index

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	------------------------------	-----------------------------	--------------------------------------

SELECTION



Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

Dia.	Max. Bore	Face Width											
		12	14	16	18	20	22	24	26	30	32	36	38
36	3	292	313	334	355	376	397	417	438	480	501	617	638
	.5	310	331	352	373	394	415	436	457	498	519	635	656
	4	320	341	362	383	404	425	445	466	508	529	644	665
	4.5	...	355	376	397	417	438	459	480	522	543	657	678
	5	...	...	447	472	497	522	547	572	622	647	769	794
	6	...	...	...	546	571	596	621	646	697	722	839	864
	7	...	...	...	620	645	670	695	720	836	861	911	936
	8	...	...	...	...	702	727	752	777	891	916	966	991
42	10	...	...	...	...	...	...	1221	1254	1321	1423	1490	1523
	3.5	386	411	435	459	484	508	533	557	606	630	780	805
	4	475	504	534	563	592	621	651	680	738	768	926	956
	4.5	...	468	497	527	556	585	614	644	702	731	889	919
	5	...	...	536	565	594	623	653	682	740	770	927	956
	6	...	...	...	686	716	745	774	803	862	891	1044	1073
	7	...	...	...	846	885	924	963	1002	1195	1234	1312	1351
	8	...	...	...	...	941	980	1018	1057	1249	1288	1366	1405
48	10	...	...	...	...	...	...	1398	1437	1515	1657	1735	1773
	4	579	613	646	680	713	747	780	814	881	914	1113	1146
	4.5	...	626	660	693	727	760	794	827	894	928	1126	1159
	5	...	...	698	731	765	798	832	865	932	966	1163	1196
	6	...	...	...	803	837	870	904	937	1004	1038	1231	1264
	7	...	...	...	976	1020	1065	1109	1154	1398	1442	1531	1576
	8	...	...	...	...	1076	1120	1165	1209	1452	1497	1586	1630
	10	...	...	...	...	...	...	1592	1636	1725	1913	2002	2046
54	4.5	...	745	783	821	859	896	934	972	1047	1085	1327	1365
	5	...	...	821	859	897	934	972	1010	1085	1123	1364	1402
	6	...	...	...	1124	1174	1124	1274	1324	1425	1475	1777	1827
	7	...	...	...	...	1246	1296	1346	1396	1697	1747	1847	1897
	8	...	...	...	...	1301	1351	1401	1451	1750	1800	1901	1951
	10	...	...	...	...	...	...	1803	1853	1953	2191	2291	2341
60	4.5	...	1283	1338	1394	1450	1506	1561	1617	1729	1784	2155	2210
	5	...	...	1375	1431	1487	1543	1598	1654	1765	1821	2191	2246
	6	...	...	...	1497	1552	1608	1664	1720	1831	1887	2251	2306
	7	...	...	...	1567	1622	1678	1734	1790	2151	2207	2319	2374
	8	...	...	...	...	1676	1732	1788	1844	2204	2259	2371	2427
	10	...	...	...	...	...	...	2030	2086	2198	2491	2602	2658

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1–1993. They are not to be used with steel cable belts or other high modulus belts.



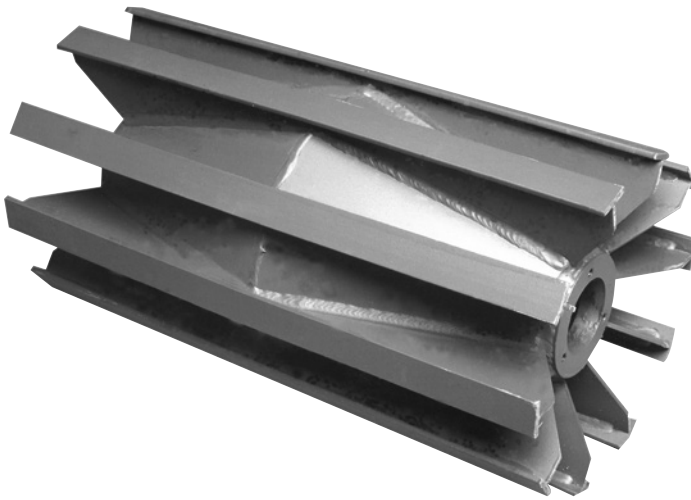
Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

Dia.	Max. Bore	Face Width											
		40	44	46	51	54	57	60	63	66	72	75	78
36	3	659	701	721	774	879	910	942	973	1004	1141	1173	1204
	3.5	676	718	739	791	896	928	959	990	1022	1158	1189	1221
	4	685	727	748	800	905	936	967	999	1030	1165	1197	1228
	4.5	699	740	797	850	953	984	1016	1047	1078	1213	1245	1276
	5	819	869	894	957	1066	1103	1141	1178	1216	1362	1400	1437
	6	889	939	964	1206	1131	1169	1206	1244	1281	1423	1461	1499
	7	961	1011	1036	1099	1201	1239	1276	1314	1351	1427	1464	1567
	8	1016	1066	1091	1154	1255	1293	1330	1368	1405	1480	1518	1620
	10	1556	1623	1656	1739	1858	1908	1958	2008	2058	2157	2207	2326
42	3.5	829	878	902	1014	1151	1188	1225	1261	1298	1472	1509	1545
	4	985	1043	1073	1046	1290	1334	1377	1421	1465	1653	1697	1741
	4.5	946	1006	1085	1158	1302	1346	1390	1433	1477	1665	1708	1752
	5	985	1044	1073	1146	1289	1333	1377	1421	1464	1651	1696	1739
	6	1103	1161	1190	1263	1402	1446	1490	1533	1577	1760	1803	1847
	7	1389	1467	1506	1603	1777	1836	1894	1952	2011	2127	2186	2360
	8	1444	1521	1560	1658	1830	1888	1947	2005	2063	2180	2238	2411
	10	1812	1890	1929	2026	2188	2246	2304	2362	2421	2538	2596	2758
48	4	1180	1247	1280	1364	1546	1596	1646	1696	1747	1979	2029	2079
	4.5	1193	1259	1293	1377	1558	1608	1658	1709	1759	1990	2040	2091
	5	1230	1297	1330	1414	1595	1645	1695	1745	1795	2026	2076	2126
	6	1298	1364	1398	1462	1658	1708	1758	1808	1859	2085	2135	2186
	7	1620	1709	1754	1865	2087	2154	2221	2287	2354	2468	2554	2777
	8	1675	1764	1808	1919	2140	2207	2273	2340	2407	2540	2607	2828
	10	2091	2180	2224	2335	2545	2612	2679	2745	2812	2946	3012	3222
	54	4.5	1402	1478	1515	1610	1833	1890	1946	2003	2059	2339	2396	2452
5		1440	1515	1553	1647	1870	1926	1983	2039	2096	2375	2431	2488
6		1878	1978	2028	2153	2431	2506	2581	2656	2732	3084	3160	3235
7		1947	2048	2098	2223	2498	2573	2649	2724	2799	2949	3024	3350
8		2001	2101	2151	2277	2550	2625	2701	2776	2851	3001	3077	3550
10		2391	2492	2542	2667	2930	3005	3080	3155	3231	3381	3456	3719
60	4.5	2266	2378	2433	2573	2915	2999	3082	3166	3249	3675	3759	3843
	5	2302	2414	2469	2609	2950	3034	3117	3201	3285	3710	3793	3877
	6	2362	2474	2529	2669	3005	3089	3172	3256	3339	3759	3843	3926
	7	2430	2541	2597	2737	3070	3154	3238	3321	3405	3572	3656	3989
	8	2482	2594	2650	2789	3121	3205	3288	3372	3456	3623	3707	4039
	10	2714	2825	2881	3021	3342	3426	3509	3593	3676	3844	3927	4249



SELECTION/DIMENSIONS

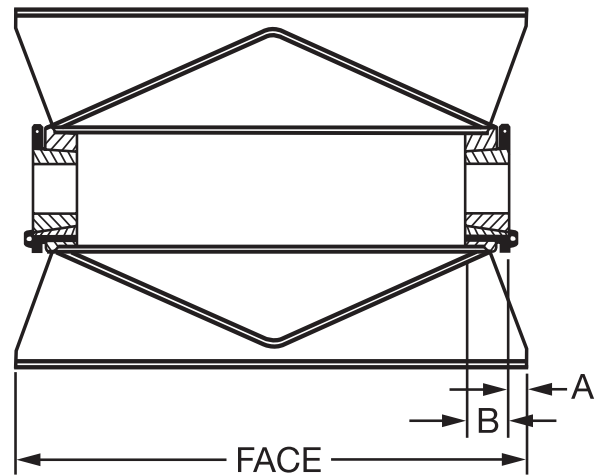
HE Heavy Duty Wing Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- HE bushing system designed specifically for Dodge conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

HE Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
HE25	1	1.80	HE25	2-1/2	360
HE30	3/4	2.20	HE30	3	720
HE35	3/4	2.78	HE35	3-1/2	1080
HE40	3/4	2.93	HE40	4	1680
HE45	3/4	3.20	HE45	4-1/2	1680
HE50	3/4	3.70	HE50	5	2400
HE60	1	3.95	HE60	6	4200
HE70	1	4.45	HE70	7	6000
HE80	1-1/4	5.20	HE80	8	6000





HE Heavy Duty Crown Wing Pulley Part Numbers

DIA	Hub	FACE WIDTH											
		8	10	12	14	16	18	20	22	24	26	28	30
8	HE25	206190	209652	209653	206193	209655	209656	206196	206197	206198	206199	223565	206204
10	HE25			206228	206229	206237	209657	206200	206239	206244	206201	206332	206248
	HE30										203455		
	HE35												
12	HE25			209659	206255	206256	206257	206205	206258	206259	206206	223574	206260
	HE30					206367	206368	209660	206370	206371	206212		206373
	HE35										223573		
	HE40												
14	HE25		206265	206266		206268	206269	209664	206270	206271	206216		206272
	HE30		206379	206380	206381	206382	206383	206384	206385	206386	206387		206388
	HE35										223581		
	HE40												
	HE45												
16	HE25		206279	209669	206286	206287	206288	206220	206289	206295	206221	223596	
	HE30		206396	206397	206398	206399	206400	209670	206402		206222	223597	206404
	HE35										209671	223598	
	HE40										209672		
	HE45												
18	HE25			209675	206308	206309	206312	209676	206313	206314	206231		206316
	HE30			206412	206413	206414	206415	206416	206417	206418	206232	223614	206419
	HE35										209677	223615	
	HE40										223613		223616
	HE45												
	HE50												
20	HE25			209681	209682	209683	206328	209685	206330	206331	206240		
	HE30			206428	206429	206430	209684	206432	206433	206434	206241	223630	
	HE35										206492	223631	
	HE40										223629		223632
	HE45												
	HE50												
24	HE25				209691	206342	206343	206344	206345		206346		
	HE30				206442	206443	206444	206445	206446		206447	223646	
	HE35										206502		
	HE40										206524		
	HE45												
	HE50											223647	
30	HE25				206355	206356	206357	206358			206359		
	HE30				206455	206456	206457	206458			206459		
	HE35												
	HE40												
	HE45												
	HE50												
36	HE30					206471	206472						
	HE35					206515							
	HE40					206539							
	HE45												
HE50													
HE60													

Conveyor Components

Engineering

Part Number Index

Keyword Index

SELECTION



HE Heavy Duty Crown Wing Pulley Part Numbers

DIA	Hub	FACE WIDTH											
		32	34	36	38	40	42	44	46	51	54	57	63
8	HE25	206213		206158	206214			206219	207573	223566			205577
10	HE25	206202	206249	206250	206203	206251		206253	207575	207418			223571
	HE30	207972			207566			206252	207574	207567		223569	205580
	HE35				223567							223570	205580
12	HE25	206207	206261	206595	206208	206262		206210	206263	206264		209662	209663
	HE30	206374	206375		206209	206376		206211	206377	206378			206599
	HE35	209661			223575			223577		223579		223580	203094
	HE40				223576			223578					
14	HE25	206217	206273	206274	206218	206276		206277		206278			223593
	HE30	206389	206390	206391	206392	206393		206394	223586	206395	223589	223590	208974
	HE35	203482			209665			209666		209668		223591	223594
	HE40				223582			223585		223587		223592	223595
	HE45				223583					223588			
HE50				223584									
16	HE25	206223	206297	206298	206225	206299		206303		206305		206306	223608
	HE30	206224	206405	206406	206226	206407		206408	206409	206410		206411	223609
	HE35	209673		206478	206227	206547		206480	206481	206482		206483	223610
	HE40	203483			209674	223600		223602		223604		223606	207400
	HE45				223599	223601		223603		223605		223607	223611
	HE50												223612
18	HE25	206233	206317	206318	206235	206319		206320	206321	206322		206323	206324
	HE30	206234	206420	206421	206236	206422		206423	206424	206425		206426	209680
	HE35	207402		206484	206485	206486		206487		209679		206490	206491
	HE40	209678			207569	223619		207570		207571			207406
	HE45				223617	223620		223621	223623	207404		223625	223626
	HE50				223618			223622		223624			223627
	HE60												223628
20	HE25	206242			206334	206335		206336	206337	206338			209690
	HE30	207407		206435	206243	206436		206437	206438	206439		206440	206501
	HE35	209686		206494	206495	206496		206497	206498	206499		206500	207411
	HE40	209687			207572	223635		207408		207410		223642	207411
	HE45				223633	223636		209688	223639	209689		223643	223645
	HE50				223634			223637		223640		223644	207412
	HE60							223638		223641			
24	HE25	206347		206348	206349			206350		206352			206454
	HE30	206448		206449	206245			206450		206452		206453	206508
	HE35	209692		206504	206246			206247	206505	206506		206507	206532
	HE40	206525		206526	206527	223651	223652	206528	206529	206530		206531	206532
	HE45				223649	223650		209693	223655	223656		223659	223661
	HE50				223650			223653		223657		223660	223662
	HE60			223648						223658			223663
HE70							223654						
30	HE25	206360								206363			
	HE30	206460				206461		206462		206463		206464	
	HE35	206510				206511		206512		206513			
	HE40	206534				206535		206536		206537		206538	
	HE45					207416		203484		223665			
	HE50							223664		223666		223667	
	HE60									203485		223668	207417
HE70											223669		
36	HE30									206476			
	HE35									206522		206523	
	HE40				206543			206544		206545		206546	
	HE45												
	HE50												
HE60									203486				

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION



HE Heavy Duty Straight Wing Pulley Part Numbers

Dia	Hub	Face Width												
		22	26	28	32	36	38	40	44	46	51	54	57	63
6	HE25													
8	HE25	223670	223671		223672									
	HE30													
	HE35													
10	HE25													
	HE30													
	HE35													
12	HE25				223674				223676					
	HE30									223677				
	HE35		223673				223675							
	HE40													
	HE45													
14	HE25				223678		223680							
	HE30				223679			223681						
	HE35													
	HE40													
	HE45													
16	HE25						223685							
	HE30		223682		223684									
	HE35		223683				223686		223687					
	HE40											223690		
	HE45											223691		
	HE50													
18	HE25													
	HE30		223692				223697							
	HE35			223693	223694		223698			223700				
	HE40				223695									223703
	HE45					223696				223701				
	HE50						223699							
	HE60													
HE70												223702	223704	
20	HE25													
	HE30													
	HE35													
	HE40				223705									
	HE45						223706			223708				
	HE50								223707					
	HE60													
	HE70										223709	223710	223712	
HE80										223711			223713	
24	HE25													
	HE30													
	HE35										223717			
	HE40				223714	223715						223719		
	HE45													
	HE50													
	HE60													
	HE70													
HE80					223716									
30	HE25													
	HE30													
	HE35													
	HE40													
	HE45													
	HE50													
	HE60													
	HE70													
HE80									223720					
										223721				

Conveyor Components

Engineering

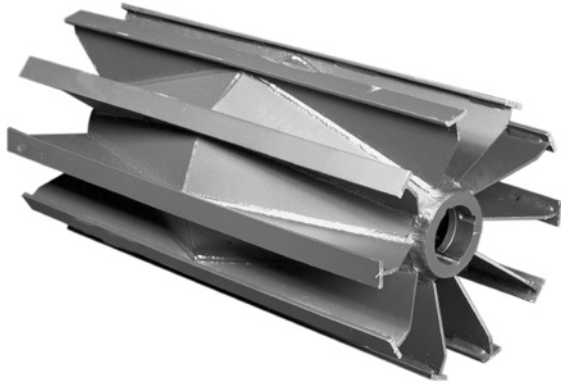
Part Number Index

Keyword Index



SELECTION/DIMENSIONS

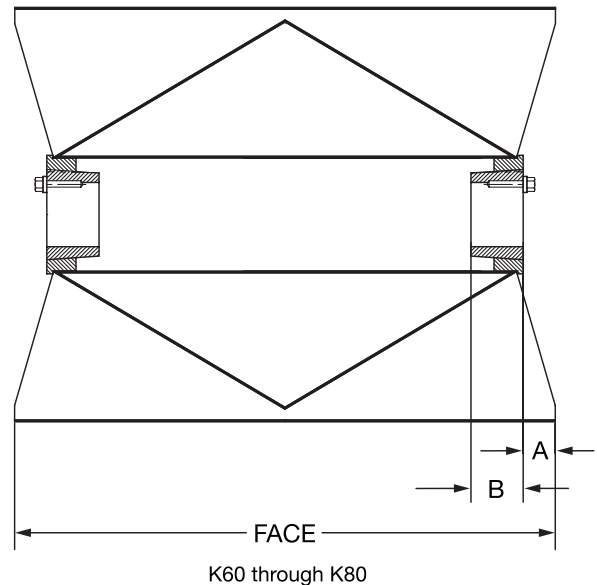
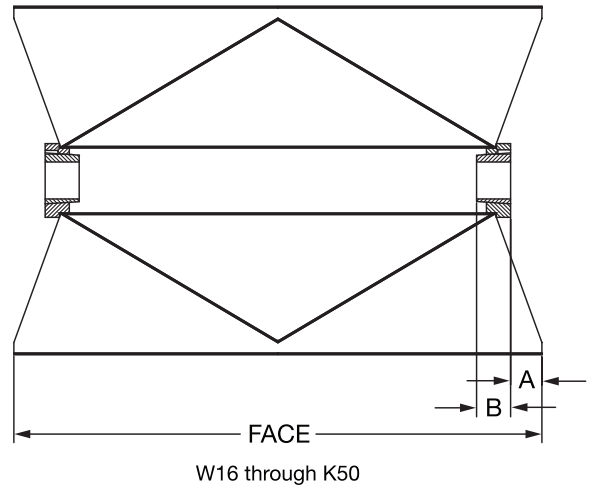
TAPER-LOCK Heavy Duty Wing Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flush mount, compact design mounting system
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

TAPER-LOCK Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
W16	1-5/8	1-1/2	1615	1-5/8	175
W25	1-1/2	1-3/4	2517	2-1/2	430
K30	1-3/4	2	3020	3	1800
K35	2-3/4	3-1/2	3535	3-1/2	1000
K40	2-3/4	4	4040	4	1750
K45	2-5/8	4-1/2	4545	4-1/2	2450
K50	3-3/8	5	5050	5	3100
K60	3-3/8	5	6050	6	7820
K70	3-1/4	6	7060	7	7820
K80	3-1/4	6-1/2	8065	8	7820



SELECTION



TAPER-LOCK Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width										
		8	10	12	14	16	18	20	22	24	26	28
8	W25		207644	207645	207646	207647	207648	207649	207650	207651	207652	
10	W25			207657	207658	207659	207660	201000	207661	207662	201001	
	K30 K35										223722	
12	W25			207669	207670	207671	207672	201004	207673	207674	201005	
	K30 K35 K40				206876			206879	206880	206881	206882	
14	W25		207681	207682	207683	207684	207685	201012	207686	207687	201013	207433
	K30 K35 K40 K45 K50										206897	
16	W25		207694	207695	207696	207697	207698	201018	207699	207700	201019	
	K30 K35 K40 K45 K50					206923			206926	206927	201020 207435	
18	W25			207709	207710	207711	206939	206940	207713	207714	201031	
	K30 K35 K40 K45 K50 K60								206968		201032 207441	
20	W25	207446	207447	207724	207725	207726	207727	207728	207729	207730	206562	
	K30 K35 K40 K45 K50 K60			206979	206980	206981						
24	W25				207738	207739	207740	207741			207743	
	K30 K35 K40 K45 K50 K60 K70				207600	207601	207602	207603	207604		201043 206852	
30	W25					207753	207754					
	K30 K35 K40 K45 K50 K60 K70					207612					207615	
36	K30					207621	207622					
	K35 K40 K45 K50 K60						206588 206868					

Conveyor Components

Engineering

Part Number Index

Keyword Index

SELECTION



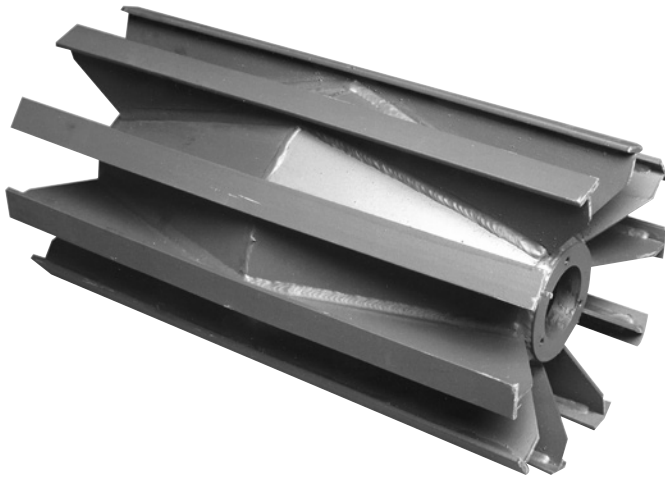
TAPER-LOCK Heavy Duty Crown Wing Pulley Part Numbers (continued)

Dia	Hub	Face Width										
		30	32	34	36	38	40	44	46	51	57	63
8	W25	207653	207654			207655		207656				
10	W25	207663	201002	207664	207665	201003	207666	207668				
	K30											
	K35											
12	W25	207675	201006	207676		201008		207678	207679	207680		
	K30	206883	201007			201009	206885	206886	206887	206888		
	K35		207430					207432				
	K40											
14	W25	207688	201014		207690	201016	207691	207692		206919		
	K30		201015			206916	206917	206918				
	K35					223723						
	K40											
	K45											
16	W25	207701	201021	207702	207703	201023		207705		207707	207708	
	K30	206928	201022	206929	206930	201024	206931	206932		206934	206935	
	K35		223724		206548	207436	206549	206550		206552	206553	
	K40					207437		207438				
	K45											
18	W25	207715	201033	207716	207717	201035		207719		207721		
	K30	206970	201034		206972	201036		206974	206975	206976	206977	223727
	K35		207442			206555	206556	206557	206558	206559	206560	206561
	K40					207443		223726				
	K45											
	K50					223725						
20	W25				207731							
	K30		201040			201042				206990		
	K35		206563			206565	206566	206988			206570	206571
	K40		207448			207449		206567				
	K45							207450				
	K50							207451				
24	W25		207744			207746						
	K30				207605	201045		207606		207608		207610
	K35		206573		206574	206575		206576		206578	206579	206580
	K40		206853		206854	206855		206856		206858		206860
	K45					207456					207457	
	K50											
30	W25										207761	
	K30		207616			207617						
	K35		206582							206585		
	K40							206864				
	K45											
	K50											
36	W25											
	K30											
	K35											
	K40											
	K45											
	K50											



SELECTION/DIMENSIONS

QD Heavy Duty Wing Pulleys

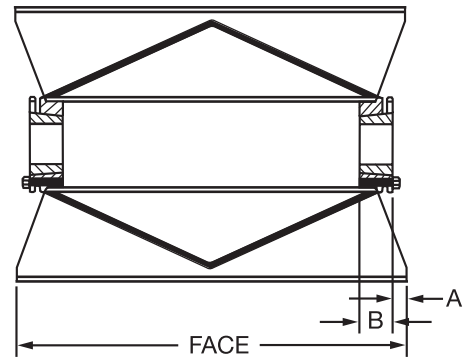


- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" to 60" diameter and face widths exceeding 100". Others available upon request.
- Flange mount bushing system
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

QD Dimensions

QD Hub	A	B	Bushing	Max. Bore*	Screw Torque (in.-lb.)
SF	3/4	2-1/16	SF	2-1/2	360
E	7/8	2-3/4	E	3	720
F	15/16	3-3/4	F	3-1/2	900
JS	1-1/16	3-3/8	J	4	1620
MS	1-9/16	4-13/16	M	4-1/2	2700
NS	1-1/4	6	N	6	3600
PS	1	6-1/2	P	7	5400

* Maximum recommended for Conveyor Pulley applications





QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width										
		10	12	14	16	18	20	22	24	26	30	32
6	SF											
8	SF	208001	208002	208003	208004	208005	208006	208007	208008	208009	208010	208011
	E F											
10	SF		208014	208015	208016	208017	208018	208019	208020	207350	208021	207351
	E F											
12	SF		208027	208029	208031	208033	207353	208036	208038	207354	208040	207356
	E F J M			208030		208034	208035	208037	208039	207355	208041	207357
14	SF	208052	208054	208056	208058		207359	208063	208065	207360	208067	207362
	E F J M N									207361	208068	207363
16	SF	208079	208081	208083	208085	208087	208089	208091	208093	207366	208095	207368
	E F J M N P			208084	208086		208090			207367 223738 223739	208096	207369 208766 223740
18	SF		208117	208119	208121	208769	208124	208126	208128	207371	208130	207376
	E F J M N P			208120	208122		208125	208127		207372 223745 223746	208131	207373 223747 223748

SELECTION



QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width									
		34	36	38	40	42	44	46	51	57	63
6	SF										
8	SF			208012			208013				
	E										
	F										
10	SF		208023	207352		208025	208026		208762	223732	223734
	E						208761		223731		223733
	F										
12	SF	208042		207378	208044		208046		208050		
	E			207358	208045		208047		208051		
	F			223735					223737		
	J			223736							
	M										
14	SF			207364	208073		208075		208077		208765
	E			207365	208074		208076		208078		
	F			208764							
	J										
	M										
16	SF	208097	208099	208767	208102		208105		208111	208114	208768
	E		208100	207370	208103		208106		208112	208115	
	F		208101	223741	208104		208107	208110	208113		
	J			223742			223743				
	M										
	N										
18	SF	208132	208134	207377	208137		208140		208146	208149	208153
	E		208135	207374	208138		208141	208144	208147	208150	
	F			207375			208142	208145	208148	208151	
	J			223749			223750		208770		
	M								223751		
	N										
P											

Conveyor Components

Engineering

Part Number Index

Keyword Index



QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width										
		10	12	14	16	18	20	22	24	26	30	32
20	SF		208155	208157	208159	208161	208163	208165	208167	208169		208172
	E			208158	208160	208162	208164			208170		208173
	F					208771				208171		208174
	J											
	M											
	N P											
24	SF			208199	208201	208203	208205	208207		208209		208213
	E			208200	208202		208206			208210		208214
	F									208211		208215
	J											208216
	M											
	N P											
30	SF			208245	208247		208251			208253		
	E			208246	208248		208252			208254		
	F											208259
	J											208260
	M											
	N P											
36	SF				208277	208280						
	E					208281						
	F											
	J				208279							
	M											
	N P											



QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width									
		34	36	38	40	42	44	46	51	57	63
20	SF			208178			208184		208190		
	E		208176	208179	208182		208185		208191		208197
	F			208180	208183		208186		208192	208195	208198
	J			223752			208772		208775		
	M						208773				
	N P										
24	SF			208221							
	E		208218	208222			208226		208234		208242
	F			208223			208227	208231	208235	208239	208243
	J		208220	208224			208228		208236	208240	208244
	M						223753		223754		
	N P						208776		208777	208778	
30	SF			208261					208269		
	E			208262			208266		208270		
	F			208263			208267		208271		
	J			208264			208268		208272		
	M										
	N P										
36	SF			208289					208295		
	E						208293		208296	208299	
	F								208297	208300	
	J			208291							
	M										
	N P										



QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width										
		10	12	14	16	18	20	22	24	26	30	32
20	SF		208155	208157	208159	208161	208163	208165	208167	208169		208172
	E			208158	208160	208162	208164			208170		208173
	F					208771				208171		208174
	J											
	M											
	N P											
24	SF			208199	208201	208203	208205	208207		208209		208213
	E			208200	208202		208206			208210		208214
	F									208211		208215
	J											208216
	M											
	N P											
30	SF			208245	208247		208251			208253		
	E			208246	208248		208252			208254		
	F											208259
	J											208260
	M											
	N P											
36	SF				208277	208280						
	E					208281						
	F											
	J				208279							
	M											
	N P											



QD Heavy Duty Crown Wing Pulley Part Numbers

Dia	Hub	Face Width									
		34	36	38	40	42	44	46	51	57	63
20	SF			208178			208184		208190		
	E		208176	208179	208182		208185		208191		208197
	F			208180	208183		208186		208192	208195	208198
	J			223752			208772		208775		
	M						208773				
	N P										
24	SF			208221							
	E		208218	208222			208226		208234		208242
	F			208223			208227	208231	208235	208239	208243
	J		208220	208224			208228		208236	208240	208244
	M						223753		223754		
	N P						208776		208777	208778	
30	SF			208261					208269		
	E			208262			208266		208270		
	F			208263			208267		208271		
	J			208264			208268		208272		
	M										
	N P										
36	SF										
	E			208289					208295		
	F						208293		208296	208299	
	J			208291					208297	208300	
	M										
	N P										

SELECTION



Heavy Duty Wing Pulley Average Weights - HE, TAPER-LOCK and QD

Dia.	Max. Bore	Face Width									
		12	14	16	18	20	22	24	26	30	32
24	2.5	175	198	220	243	267	290	314	337	385	409
	3	186	208	230	253	275	298	321	344	391	414
	3.5	192	213	234	256	278	300	322	345	390	412
	4	198	220	242	265	288	311	334	358	405	429
	4.5	...	232	254	277	300	324	347	371	419	443
	5	...	...	285	307	330	353	376	399	446	470
30	6	...	...	...	375	397	419	442	464	510	533
	2.5	281	318	354	391	429	466	504	542	618	656
	3	291	326	362	398	434	471	508	545	619	657
	3.5	295	329	363	398	434	469	505	541	614	650
	4	298	333	368	404	440	476	513	549	623	660
	4.5	...	343	378	414	450	486	523	559	633	670
	5	...	...	406	441	476	511	548	582	654	691
	6	...	...	...	503	537	571	605	640	709	744
36	7	...	...	...	559	592	625	658	691	758	792
	8	...	...	...	...	630	663	697	731	800	834
	3	452	510	568	627	686	745	804	864	984	1044
	3.5	453	509	566	623	680	738	795	854	970	1029
	4	453	509	566	623	680	738	796	854	971	1029
	4.5	...	517	547	630	686	744	801	859	975	1033
	5	...	...	596	651	706	762	817	874	987	1044
	6	...	...	...	705	758	812	866	920	1028	1083
36	7	...	...	...	754	805	856	908	959	1064	1117
	8	...	...	...	...	830	881	932	983	1086	1138

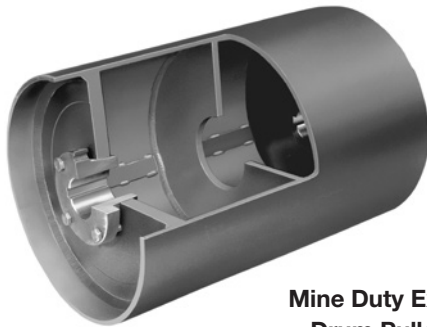
Heavy Duty Wing Pulley Average Weights - HE, TAPER-LOCK and QD

Dia.	Max. Bore	Face Width										
		36	38	40	44	46	51	54	57	60	63	66
24	2.5	457	482	506	555	579	640	676	713	750	787	823
	3	461	485	508	556	579	639	674	710	746	782	818
	3.5	458	481	504	550	573	630	665	700	734	769	804
	4	477	501	525	573	597	657	694	730	766	803	839
	4.5	491	515	539	588	612	673	710	746	783	819	856
	5	517	541	564	612	636	695	731	767	803	839	875
30	6	579	602	625	671	694	752	787	821	856	891	926
	2.5	733	772	811	889	928	1025	1084	1142	1201	1260	1319
	3	732	770	808	884	922	1017	1074	1132	1189	1247	1304
	3.5	723	760	797	871	908	1001	1056	1112	1168	1224	1280
	4	735	773	810	886	923	1018	1075	1132	1189	1246	1303
	4.5	745	782	820	895	933	1028	1084	1141	1198	1255	1312
	5	764	800	837	911	948	1040	1095	1151	1207	1262	1318
	6	815	850	886	957	993	1082	1136	1190	1243	1297	1351
36	7	860	895	929	998	1032	1119	1170	1222	1274	1326	1378
	8	904	939	974	1044	1079	1167	1220	1272	1325	1378	1431
	3	1165	1225	1286	1408	1469	1621	1713	1805	1897	1989	2082
	3.5	1147	1206	1265	1384	1443	1592	1682	1772	1861	1951	2041
	4	1147	1207	1266	1385	1445	1594	1684	1774	1864	1954	2044
	4.5	1150	1209	1268	1386	1446	1594	1683	1772	1862	1951	2041
	5	1158	1215	1273	1388	1446	1590	1677	1764	1852	1939	2026
	6	1193	1249	1304	1415	1471	1610	1694	1778	1862	1946	2031
36	7	1223	1276	1329	1436	1490	1624	1705	1786	1867	1948	2029
	8	1243	1296	1349	1454	1508	1640	1720	1800	1880	1961	2041

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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Mine Duty Extra Drum Pulleys



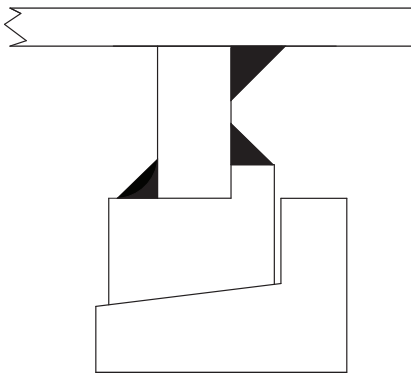
Mine Duty Extra Drum Pulley



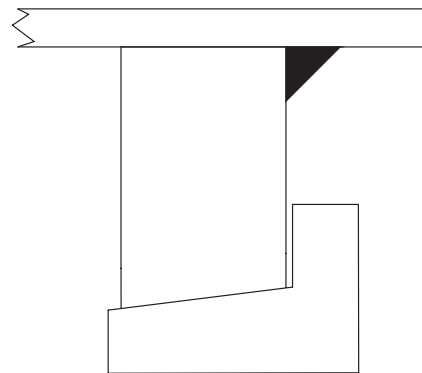
Mine Duty Extra Drum Pulley

- Integral one-piece end discs are machined, drilled and tapped to accept bushing and bushing bolts, serving as the hub and end disc in one piece, eliminating the hub to end disc weld - the most common failure point on a conveyor pulley
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- HE bushing system - 14° taper - designed specifically for Dodge conveyor pulleys
- Greater capacity than standard competitors' mine duty pulleys
- Available in spiral drum construction
- Increased rim thickness over CEMA construction

Mine Duty Pulley Types



Welded Hub Design



Integral Hub Design

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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Mine Duty Extra Crown Drum Pulley Part Numbers

Dia	Hub	Face Width						
		20	24	26	30	32	36	38
6	HE25							
8	HE25 HE30 HE35							
10	HE30 HE35			209864		223984		
12	HE30 HE35 HE40 HE45			205917 205918 223991		208831 205919 223993		208844 208845 209866
14	HE30 HE35 HE40 HE45 HE50			205924 224003		208833 224004 224005		208847 205925 205926
16	HE30 HE35 HE40 HE45 HE50 HE60	224013		205934 205935 205705		208835 205936 205937		208849 205938 205939 224015 224016
18	HE30 HE35 HE40 HE45 HE50 HE60 HE70			205945 205946 209874 224027 224028	224031	208837 205947 205948 224032	224033 224034	208850 208851 208852 224035 209875
20	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80		224056 224057 224058	205955 205956 224059		208838 208839 205958 209878		208853 208854 208855 224060 209879 224061
24	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80			205965 205967 205968 205575		208840 208841 208842 224091 224092 224093	224095 224096 224097	205969 208856 208857 208858 209884 224099
30	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80					224129 205976 205977 209889	224130	205978 209890 224131 224132 224133
36	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80							224152



Mine Duty Extra Crown Drum Pulley Part Numbers (continued)

Dia	Hub	Face Width						
		40	44	46	51	54	57	63
6	HE25							
8	HE25 HE30 HE35							
10	HE30 HE35		223986		223987			
12	HE30 HE35 HE40 HE45	205900	208860 205920	223994	205922 209867 223995		223996 223997 223998	224000 224001
14	HE30 HE35 HE40 HE45 HE50	224006	205928 205929 224007	205901	205931 205932 224008 224009			224010 224011
16	HE30 HE35 HE40 HE45 HE50 HE60	224017 209870 205902 205903	208862 208863 208864 209871 224018	205904 205905	205941 205942 205943 209872 224019	224020	224021 224022 224023	209873 224024 224025 224026
18	HE30 HE35 HE40 HE45 HE50 HE60 HE70	224036 205906 205907 205908	208865 208866 205950 224038 224039 224040	224041 224042 205909 224043 205910	205951 205952 205953 224045 209876 224046		224047 224048 224049 209877 224050	224051 224052 224053 224054
20	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80	224062 224063 224064 205911 205912 224065	205960 208867 208868 209880 224067 224068	224069 224070 224071 209881 224072	205961 205962 205963 209882 224073 224074 224075	224076 224077 224078 224079	224080 224081 224082 224083	205897 224084 224085 209883 224086 224087
24	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80	224100 209885 224101 205913	205970 205971 208869 208870 224102 224103 224104	224105 224106 224107 205914 205915	205972 205973 205974 205975 209886 224109 224110	224112 224113 224114 224115 224116	224117 209887 209888 224118 224119 224120 224121	224122 224123 224124 224125 224126 224127 224128
30	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80	209891	224134 209892 209893 224135 224136	224137 224138	224139 209894 209895 224140 224141 224142	224143	224144 224145 224146	224147 224148 224149 224150 224151
36	HE30 HE35 HE40 HE45 HE50 HE60 HE70 HE80		224153 224154 224155 224156 224157	224158	224159 224160 224161 224162	224163	224164	224165 224166 224167

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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Mine Duty Extra Crown Drum Pulleys With Lagging Part Numbers

Dia	Hub	Lagging	Face Width						
			26	32	38	40	44	46	51
10	HE30	3/8 HBG							
	HE35	3/8 HBG							
12	HE30	3/8 HBG		208871	209519		208888		
	HE35	3/8 HBG	205629	205630	208877				
	HE40	3/8 HBG				208883			
	HE45	3/8 HBG							
14	HE30	3/8 HBG		208872	208878				
	HE35	3/8 HBG	205631	205632	205633				
	HE40	3/8 HBG							
	HE45	3/8 HBG							
	HE50	3/8 HBG							
16	HE30	3/8 HBG		208873	208879				
	HE35	3/8 HBG	205634	205635	205637		205639		
	HE40	3/8 HBG		205636	205638		208889		
	HE45	3/8 HBG							
	HE50	3/8 HBG				208884		208893	
	HE60	3/8 HBG							
18	HE30	3/8 HBG		208874					
	HE35	3/8 HBG	205640	205643	205646		208890		205651
	HE40	3/8 HBG	205641	205644	208880		205648		205652
	HE45	3/8 HBG	205642	205645	205647	208885	205649		205653
	HE50	3/8 HBG					205650	208894	205654
	HE60	3/8 HBG							
	HE70	3/8 HBG							
20	HE30	3/8 HBG							
	HE35	3/8 HBG	205655	208875					
	HE40	3/8 HBG		205656	208881		208891		
	HE45	3/8 HBG		205657	205658		205659		205661
	HE50	3/8 HBG					205660	208886	205662
	HE60	3/8 HBG							
	HE70	3/8 HBG							
	HE80	3/8 HBG							
24	HE30	3/8 HBG							
	HE35	3/8 HBG							
	HE40	3/8 HBG	205663	208876	208882				205667
	HE45	3/8 HBG		205664	205665		208892		205668
	HE50	3/8 HBG				208887	205666		
	HE60	3/8 HBG						208895	
	HE70	3/8 HBG							
	HE80	3/8 HBG							



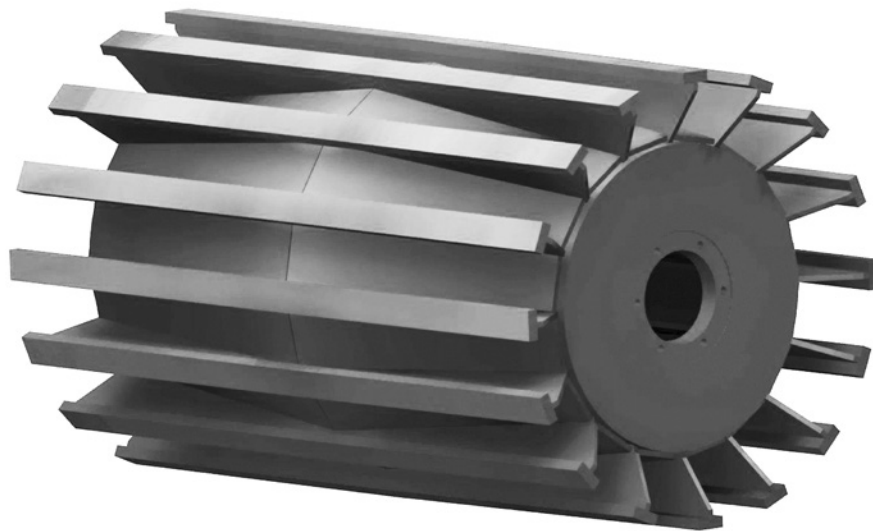
Mine Duty Extra Wing Pulleys

Mine Duty Extra Wing Pulleys were developed to support the most rugged wing pulley applications in the quarry and mining industries. These pulleys are designed with a rigid end disc design that incorporates our proven HE bushing system. They are designed to reduce wing folding by minimizing the wing height. The Mine Duty Extra Wing pulleys far exceed the product life expectancy of other wing pulleys.

- 3/4" x 2" contact bars
- 3/8" wing thickness
- Up to 25% more belt contact area
- 5" maximum wing height (through 42" OD)

Options

- AR400 contact bars available upon request
- Weld-on strip lagging is also available upon request



FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION



MDX Crown Wing Pulley Part Numbers

Dia	Hub	Face Width								
		20	22	24	26	30	32	36	38	40
10	HE25		205518	205283	205811		205812	203100	205813	
	HE30				205817		205818	203101	205819	
12	HE25	205845			205823		205824	203106	205825	
	HE30				205829		205830	203107	205831	
	HE35				205835		205836	203108	205837	
14	HE25				205377		205378	203115	205379	
	HE30				205592		205593	203116	205594	
	HE35				205598		205599	203117	205600	
	HE40									
16	HE45									
	HE25				205382		205383	203125	205384	
	HE30				205387		205388	203126	205389	
	HE35				205195		205196	203127	205197	
	HE40				205604		205605	203128	205606	205841
HE45				205610		205611	203129	205612		
18	HE50									
	HE25			205690	205394		205395	203142	205396	205510 205691
	HE30				205400		205401	203143	205402	
	HE35				205198		205199	203144	205200	
	HE40				205495		205496	203145	205497	
	HE45				205616		205617	203146	205618	
HE50										
20	HE60									
	HE30				205408		205409	203158	205410	205700 205698
	HE35				205202		205414	203159	205415	
	HE40				205419		205203	203160	205204	
	HE45				205421		205422	203161	205423	
	HE50				203157		205622	203162	205623	
HE60										
24	HE30				203202		205427	203170	205428	205516
	HE35						205432	203171	205433	
	HE40						205437	203172	205438	
	HE45						205442	203173	205443	
	HE50						205445	203174	205446	
	HE60						205450		205451	
	HE70									
30	HE35					205485			205455	
	HE40								205459	
	HE45								205463	
	HE50								205467	
	HE60								205471	
36	HE70									
	HE35									
	HE40									
	HE45									
	HE50									



MDX Crown Wing Pulley Part Numbers

Dia	Hub	Face Width								
		44	46	50	51	52	54	57	60	63
10	HE25	205814			205815		203102	203104		205816
	HE30	205820			205821		203103	203105		205822
12	HE25	205826			205827		203109	203112		205828
	HE30	205832			205833		203110	203113		205834
	HE35	205838	203200		205839	203201	203111	203114		205840
14	HE25	205380		203196	205381		203118	203121		203124
	HE30	205595			205596		203119	203122		205597
	HE35	205601			205602		203120	203123		205603
	HE40									205695
	HE45	205677								
16	HE25	205385			205386		203130	203135		203140
	HE30	205390			205391		203131	203136		203141
	HE35	205392			205393		203132	203137		205627
	HE40	205607			205608		203133	203138		205609
	HE45	205613	205842		205614	205843	203134	203139		205615
	HE50	205696								
18	HE25	205397			205398		203147	203152		205399
	HE30	205403			205404		203148	203153	205694	205405
	HE35	205201			205406		203149	203154		205407
	HE40	205498			205499		203150	203155		205500
	HE45	205619	205692		205620	205511	203151	203156		205621
	HE50	205693	205844		203197					
	HE60									
20	HE30	205411			205412		203163			205413
	HE35	205416			205417		205512	203167		205418
	HE40	205205	203199		205206	205272	203164	205628		205420
	HE45	205424			205425		203165	203168		205426
	HE50	205624			205271		203166	203169		205626
	HE60					205282		205699		
24	HE30	205429			205430		203175	203181		205431
	HE35	205434			205435		203176	203182		205436
	HE40	205439			205440	205514	203177	203183		205441
	HE45	205207			205208		203178	203184		205444
	HE50	205447			205448		203179	203185		205449
	HE60	205452			205453		203180	205508		205454
	HE70							205509		
30	HE35	205456			205457		203186			205458
	HE40	205460			205461		203187			205462
	HE45	205464			205465		203188			205466
	HE50	205468			205469		203189			205470
	HE60	205472			205473		203190			205474
	HE70									
36	HE35	205475			205476		203191			205477
	HE40	205478			205479		203192			205480
	HE45	205481			205482		203193			205483
	HE50	205484			205490		203194			205491
	HE60	205492			205493		203195			205494
	HE70	205492			203198					

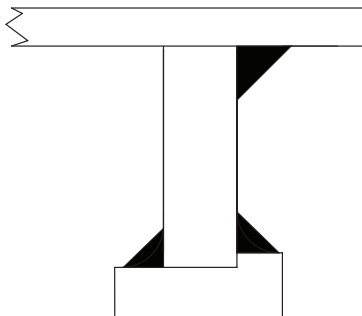


SELECTION

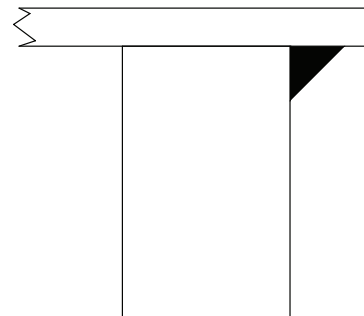
Engineered Class Pulleys

A proven leader in its design and manufacturing - Dodge engineered class pulleys are custom-designed to the conveyor load, tensions, bearing centers and wrap angles of your application. They are supplied for belt ranges up to and exceeding 8000 pounds per inch of belt width. Finite element design, material certification, certified welding and technologically advanced lagging material assure you the exact pulley for your application.

- 14° HE bushings and hubs assure lowest bellows installation stress
- Integral hub and T-section pulleys minimize effects of welding in heat affected zones (HAZ)
- Keyless locking devices are offered for shafts up to 30" in diameter
- Full fillet welding of the internal center discs assure rugged reliability



Welded Hub Design



Integral Hub Design

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION

Turbine Pulleys

Turbine End Discs

Proprietary Software designs the rim, end disc, hub and shaft, and selects the locking assembly and bearings.

- All of the components designed as part of a dynamic system
- 3D Parametric Modeling and FEA are used in the design process
- Submerged Arc Welds
- No hub to end disc welds. This eliminates the most common failure point.
- Welds are Nondestructive Tested

Machining of the end disc increases the flexibility and reduces the bending moment carried by the locking assembly, hub, end disc, welds and rim.

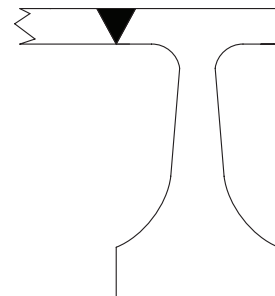
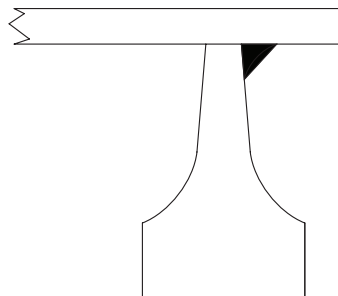
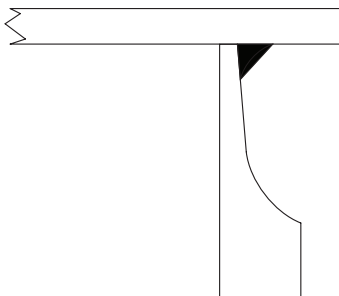


Single and Double Profile:

- Hub and end disc machined from 1 piece of steel
- Welds are on the inside of the rim at the end disc

T-Section

- Hub, end disc, and part of rim all machined from 1 piece of steel
- Circumferential butt weld joins the center section of the rim to the rim that is part of the end disc
- Welds are in the rim in a lower stress area away from the rim to end disc connection



Single Profile Design

Double Profile Design

T-Section Design

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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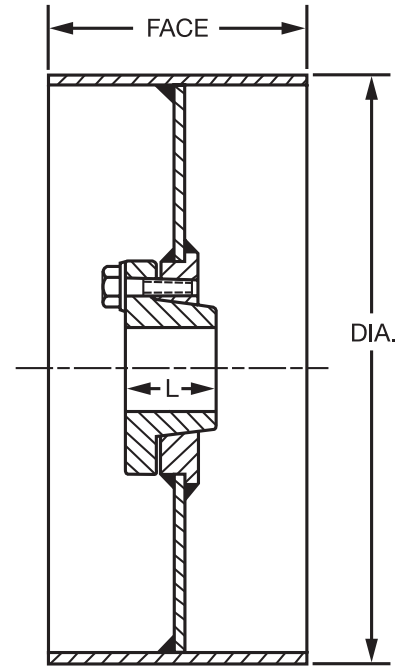
SELECTION/DIMENSIONS



Elevator Pulleys



- Single or dual end disc design
- Heavy, all steel construction
- Economical alternative in narrow belt applications
- Standard crown face or available straight face
- HE compression hubs
- Various diameters and face widths available
- QD and TAPER-LOCK hubs and bushings also available
- CEMA or Mine Duty Construction
- Engineered also available



Double Disc Elevator Pulley Part Numbers

DIA	HUB	Face Width									
		10	11	12	14	15	16	18	20	22	24
16	HE25	203207	202000	203651	203652	202003	206090	206091	206092	209736	209952
	HE30		202001	202002	209734	202004	202005	203283	209735	203657	209737
18	HE25	202006	224521	203703	203704	202012	209743	209744	206110	203712	209746
	HE30	203208	224522	202009	202010	202013	202015	203707	209745	203713	203718
	HE35	202007	202008	224523	202011	202014	202016	202017	203709	209953	203719
20	HE25	203309	202020	209756	203765	202026	203766	203767	206125	203773	203778
	HE30	202018	202021	224524	202024	202027	202029	202031	209757	203774	209758
	HE35	202019	202022	202023	202025	202028	202030	203768	203770	203775	203780
24	HE25	224528	202033	202035	202038	202039	202041	202043	202046	202047	202049
	HE30	203814	224530	209957	203816	224532	203817	203818	203819	209958	203827
	HE35	202032	224531	202036	209767	203392	202042	202044	203820	203824	203828
	HE40	224529	202034	202037	203339	202040	224533	202045	203821	202048	203829
30	HE30	202050	202055	224534	203857	224538	203858	209959	203860	202070	202073
	HE35	202051	202056	224535	202062	203392	203210	202067	203861	203864	203868
	HE40	202052	202057	224536	224537	224539	209780	224541	203862	203865	203869
	HE45	202053	202058	202060	202063	224540	202151	202068	203863	202071	203870
	HE50	202054	202059	202061	202064	202065	202066	224542	202069	202072	202074
36	HE30	202075	202080	202085	202090	202093	224548	202096	202098	202103	202107
	HE35	202076	202081	202086	224543	224545	203906	203430	202099	202104	202108
	HE40	202077	202082	202087	224544	224546	224549	203431	202100	224552	202109
	HE45	202078	202083	202088	202091	224547	202095	224551	202101	202105	202110
	HE50	202079	202084	202089	202092	202094	224550	202097	202102	202106	202111
42	HE35	202112	202114	202116	202118	202120	202122	224554	224556	203214	203215
	HE40	202113	202115	202117	202119	202121	224553	224555	224557	202123	202124
48	HE30	202125	202128	202131	202134	202137	202139	202142	202145	202148	202150
	HE35	202126	202129	202132	202135	224559	202140	202143	202146	203217	203218
	HE40	202127	202130	202133	202136	202138	202141	202144	202147	202149	224560

Part numbers above are for standard drum pulley units with two end-disc design. Single disc pulleys available on request.

- Heavy duty standard construction
- Holz SOF slide lagging available upon request
- Engineered upon request

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	MODIFICATION/ACCESSORIES PAGE PT15-65
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Elevator Pulleys



Double Disc Elevator Pulley Part Numbers - With HOLZ SOF SLIDE LAG

DIA	HUB	10	11	12	14	15	16	18	20	22	24
16	HE25 HE30	203918		224572	224618		224619		224620		
18	HE25 HE30 HE35			224621	224622		224623	224624	224625		224626
20	HE25 HE30 HE35			224627	224628		224629	224630	224631		224632
24	HE25 HE30 HE35 HE40			224633	224634 224574 224575		224635	224636	224637		224638
30	HE30 HE35 HE40 HE45 HE50	224576			203935	203936 203937	203938 224577 224578				
36	HE30 HE35 HE40 HE45 HE50			224579	203942 203941 203940		224580 224581 224582 224583		224639	224584	224640
42	HE35 HE40				224585			224586	224588	203948	
48	HE30 HE35 HE40							224641	224642	203955	203958 224592

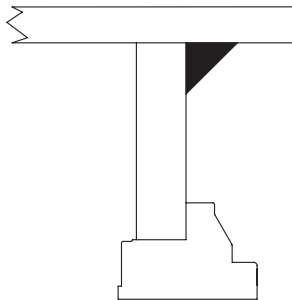
FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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SELECTION

Dead Shaft Pulleys

Our design incorporates two spherical roller piloted flange bearings within the end disc, instead of using our standard bushings. This allows the pulley to rotate, while keeping the support shaft stationary. The self-aligning bearings handle the shaft misalignment instead of transmitting it to the end discs. This design may be used where space is limited, and our traditional design may not fit. Dead shaft pulleys are more compact and may allow for smaller shaft diameters through the pulley.



Piloted Flange Bearing End Disc

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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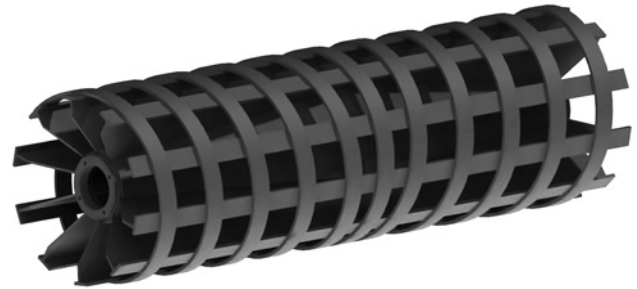


SELECTION

Spiral Wing Pulleys

The Dodge Spiral Wing Pulley is available from 6" to 60" diameters and face widths exceeding 100". Our Spiral Wing Pulleys are formed using a flat bar that is helically wound around the pulley, with set intervals that helps to move excess material off the pulley. The spiral design allows constant contact with the belt, eliminating excessive noise and vibration, while still cleaning the belt. Our Spiral Wing pulley is available in numerous hub and bushing designs.

- Self Cleaning, maximizes belt life



Spiral Drum Pulleys

The Dodge Spiral Drum Pulley is available from 12" to 60" diameters and face widths exceeding 100". It is formed using a vertical steel bar that is continuously wound around the pulley, with set intervals that helps to move excess material off the pulley. The spiral design allows constant contact with the belt, promoting the cleaning of the belt. Our Spiral Drum pulley is available in various hub and bushing designs.

Magnetic Pulleys

Dodge Magnetic Drum Pulleys are available from 8-5/8" to 36" diameters. These Magnetic Drum Pulleys are supplied with straight face stainless steel rims and HE hubs and bushings. Magnetic Drum Pulleys continuously remove iron and ferrous particles from the conveyed material. All standard lagging options are available. For specific magnetic pulley requirements, please call the Dodge Conveyor Group.



Stainless Steel Pulleys

Dodge Stainless Steel Pulleys are available from 6" to 60" diameters with face widths exceeding 100", in either crown or straight face. These pulleys can be supplied made completely from stainless steel for corrosive environments. Or it can be supplied with stainless steel rim and end discs and carbon steel hubs for use with magnetic separator. Stainless steel bushings and shafting can also be quoted. All standard lagging options are available.

FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	------------------------------	-----------------------------	--------------------------------------



SELECTION

Steel Split Pulleys



- Applied in narrow belt applications
- Die formed, riveted construction
- Provides the best possible weight to strength ratio
- Interchangeable bushings for bores from 3/4" to 3-1/2"
- Available from stock
- Max speed = 500 ft/min
- Pulleys can be lagged with any standard lagging

Bore Size	L Bushing			
	P/N	Bushing Keyway	Shaft Keyway	Key Required
3/4	051009	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
1	051020	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-3/16	051016	*	*	*
N Bushing				
3/4	051029	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
1	051033	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-3/16	051036	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-1/4	051037	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-7/16	051040	3/8 x 1/8	3/8 x 1/16	3/8 x 5/8
1-1/2	051048	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16
1-11/16	051044	*	*	*
SF Bushing				
3/4	051059	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
1	051063	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-3/16	051066	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-1/4	051067	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-7/16	051070	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16
1-1/2	051071	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16
1-15/16	051078	1/2 x 1/8	1/2 x 1/8	1/2 x 3/8
2-3/16	051082	*	*	*

Max bore does not use a bushing. Bushing cannot be re-bored

Bore Size	G Bushing			
	P/N	Bushing Keyway	Shaft Keyway	Key Required
1-3/16	051211	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-1/4	051212	1/4 x 1/8	1/4 x 1/8	1/4 x 1/8
1-7/16	051215	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
1-1/2	051216	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
1-11/16	051219	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
1-15/16	051223	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
2	051224	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
2-3/16	051227	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
2-7/16	051231	5/8 x 3/16	5/8 x 5/16	5/8 x 1/2
2-15/16	051250	3/4 x 3/16	3/4 x 3/8	3/4 x 9/16
3-7/16	051247	*	*	*

* Keyways are not available in these sizes.

SELECTION



Steel Split Pulleys

Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇	Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇	Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇
3" Diameter						8" Diameter						12" Diameter					
3	203005	1.3	1-7/16	3	L	2	200017	5.6	2-7/16	2-3/8	SF	3	200050	13	3-1/2	3-5/8	G
4	203006	1.4	1-7/16	3	L	3	200018	7.7	3-1/2	3-5/8	G	4	200051	14	3-1/2	3-5/8	G
5	203007	1.6	1-7/16	3	L	4	200019	8.5	3-1/2	3-5/8	G	5	200052	15	3-1/2	3-5/8	G
6	203008	1.7	1-7/16	3	L	5	200020	9.3	3-1/2	3-5/8	G	6	200053	17	3-1/2	3-5/8	G
4" Diameter						6	200021	9.9	3-1/2	3-5/8	G	8	200054	26	3-1/2	7-1/2	2-G
3	203015	1.7	1-15/16	3	N	8	200022	16	3-1/2	7-1/2	2-G	10	200055	29	3-1/2	9-1/2	2-G
4	203016	2.4	1-15/16	3	N	10	200023	17	3-1/2	9-1/2	2-G	12	200056	31	3-1/2	11-1/2	2-G
5	203017	3.2	1-15/16	3	N	12	200024	19	3-1/2	11-1/2	2-G	14" Diameter					
6	203018	5.6	1-15/16	3	N	9" Diameter						3	200070	14	3-1/2	3-5/8	G
5" Diameter						3	200026	8.9	3-1/2	3-5/8	G	4	200071	16	3-1/2	3-5/8	G
3	203025	2.8	1-15/16		N	4	200027	9.5	3-1/2	3-5/8	G	5	200072	18	3-1/2	3-5/8	G
4	203026	3.0	1-15/16	3	N	5	200028	11	3-1/2	3-5/8	G	6	200073	19	3-1/2	3-5/8	G
5	203027	3.5	1-15/16	3	N	6	200029	12	3-1/2	3-5/8	G	7	200074	30	3-1/2	7-1/2	2-G
6	203028	6.3	1-15/16	3	N	8	200030	18	3-1/2	7-1/2	2-G	10	200075	32	3-1/2	9-1/2	2-G
6" Diameter						10	200031	20	3-1/2	9-1/2	2-G	12	200076	36	3-1/2	11-1/2	2-G
2	200001	4.3	2-7/16	2-3/8	SF	10" Diameter						16" Diameter					
3	200002	4.5	2-7/16	2-3/8	SF	3	200034	9.7	3-1/2	3-5/8	G	3	200088	17	3-1/2	3-5/8	G
4	200003	5.3	2-7/16	2-3/8	SF	4	200035	9.5	3-1/2	3-5/8	G	4	200089	18	3-1/2	3-5/8	G
5	200004	6.0	2-7/16	2-3/8	SF	5	200036	11	3-1/2	3-5/8	G	5	200090	19	3-1/2	3-5/8	G
6	200005	6.8	2-7/16	2-3/8	SF	6	200037	12	3-1/2	3-5/8	G	6	200091	21	3-1/2	3-5/8	G
8	200006	10	2-7/16	6-3/4	2-SF	8	200038	18	3-1/2	7-1/2	2-G	8	200092	34	3-1/2	7-1/2	2-G
10	200007	12	2-7/16	8-3/4	2-SF	10	200039	20	3-1/2	9-1/2	2-G	10	200093	37	3-1/2	9-1/2	2-G
12	200008	14	2-7/16	10-3/4	2-SF	12	200040	22	3-1/2	11-1/2	2-G	12	200094	40	3-1/2	11-1/2	2-G
7" Diameter						11" Diameter						18" Diameter					
3	200010	5.1	2-7/16	2-3/8	SF	3	200042	11	3-1/2	3-5/8	G	3	200106	18	3-1/2	3-5/8	G
4	200011	6.0	2-7/16	2-3/8	SF	4	200043	9.5	3-1/2	3-5/8	G	4	200107	20	3-1/2	3-5/8	G
5	200012	7.0	2-7/16	2-3/8	SF	6	200045	12	3-1/2	3-5/8	G	6	200109	26	3-1/2	3-5/8	G
6	200013	7.9	2-7/16	2-3/8	SF							20" Diameter					
8	200014	11	2-7/16	6-3/4	2-SF							4	200125	22	3-1/2	3-5/8	G
12	200016	15	2-7/16	10-3/4	2-SF							5	200126	24	3-1/2	3-5/8	G
												6	200127	25	3-1/2	3-5/8	G

* Crown face pulleys will be furnished

Δ Weight does not include weight of bushing.

◇ One bushing required per pulley except two required where figure 2 precedes bushing symbol.

Keywords – Pulleys are designed to transmit power by gripping the shaft, and the keys are not ordinarily required.

Bushings						
Bushing Symbol	Avg. Wt.	Max. Bore		Min. Bore	Out-side Diam.	Lgth.
		No Keyway	With Key-way			
L	.4	1-3/16	1	3/4	1-7/16	3
N	1.0	1-11/16	1-1/2	3/4	1-15/16	3
SF	1.3	2-3/16	1-15/16	3/4	2-7/16	2-3/8
G	2.7	3-7/16	2-15/16	1-3/16	3-1/2	3/5/8

• Keys not included in the price

Overall Pulley Face Widths									
Pulley Diam.	Overall Face Width for Various Nominal Face Widths Pulley								
	2	3	4	5	6	8	10	12	14
3	....	3-11/16	4-11/16	5-11/16	6-11/16	....	....	....	....
4	....	3-9/16	4-7/16	5-7/16	6-5/16	....	....	....	....
5	....	3-9/16	4-5/16	5-5/16	6-5/16	....	....	....	....
6-7	2-3/16	3-5/8	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....
8-11	2-3/16	4	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....
12-11	....	4	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....
18-20	....	4	4-11/16	5-11/16	6-11/16	....	....	....	....

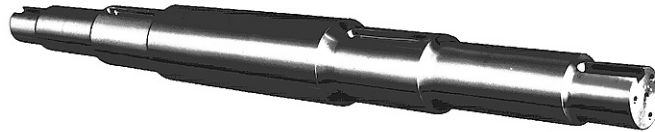
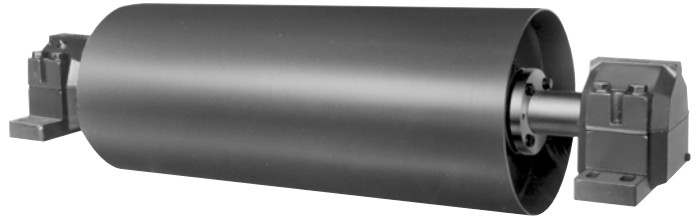
FEATURES/BENEFITS PAGE PT15-2	SPECIFICATION PAGE PT15-4	NOMENCLATURE PAGE PT15-7	SELECTION/DIMENSIONS PAGE PT15-10
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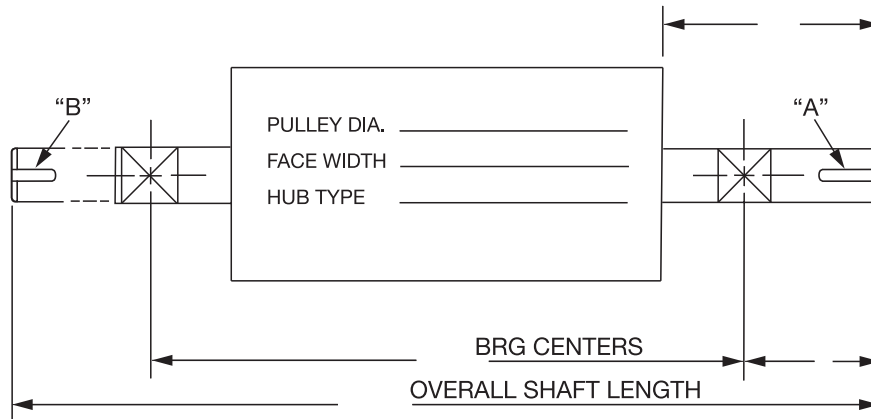
SELECTION

Shafting

- Shafting up to 30" diameter, 22' in length
- Precision machined, custom designed
- C1045 turned and polished. Stocked through 5-15/16
- C1045 hot rolled 6" and above - to order
- 4140, 4340 and stainless steel available upon request
- Shafting can be keyed or journaled to meet any specification



DRIVE PULLEY & SHAFT DIMENSIONS

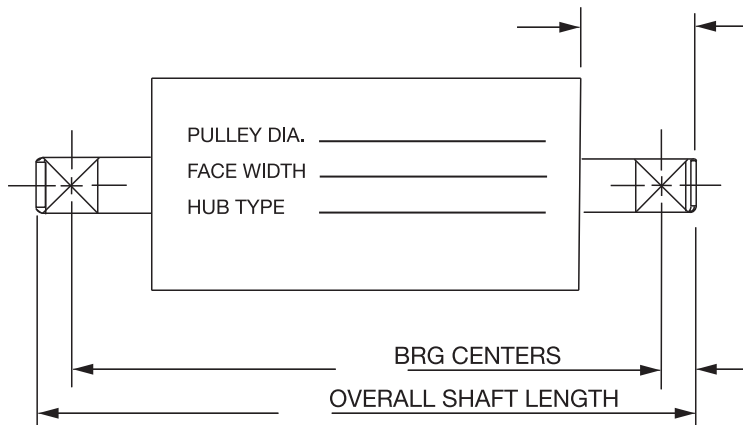


SHAFT DIA. AT HUB - _____	KEYSEAT "A" - _____ X _____ X _____ LONG
SHAFT DIA. AT BRG. - _____	KEYSEAT "B" - _____ X _____ X _____ LONG
SHAFT DIA. AT "A" - _____	DIRECTION OF ROTATION _____
SHAFT DIA. AT "B" - _____	(LOOKING AT DRIVEN END)
NUMBER OF KEYSEATS - _____	LAGGING - THICKNESS - _____
	TYPE - _____

NON-DRIVE PULLEY & SHAFT DIMENSIONS

DRUM -

WING -



SHAFT DIA. AT HUB - _____	KEYSEAT - 0 _____ , 1 _____ , 2 _____
SHAFT DIA. AT BRG. - _____	



Conveyor Pulley Lagging



Diamond Grooved

Lagging pulley surfaces increases belt traction and eliminates rim wear due to abrasive conditions. In addition, it reduces buildup on the belt to help extend the service life.

Dodge offers lagging in 60 Durometer as standard, 70 and 45 are also available. Others available upon request.

A variety of different lagging styles are available.

- Plain
- Diamond grooved
- Chevron
- Herringbone
- Holz - replaceable slide on lagging can be installed or replaced with pulley installed. See page PT14-67 for more information
- Ceramic lagging
- Available in a wide variety of thicknesses

Superior Lagging Materials

Standard material for Dodge lagging is Styrene-Butadiene Rubber (SBR). It provides excellent abrasion resistance, as well as resistance to heat, cutting, gouging and tearing.

D-Lag

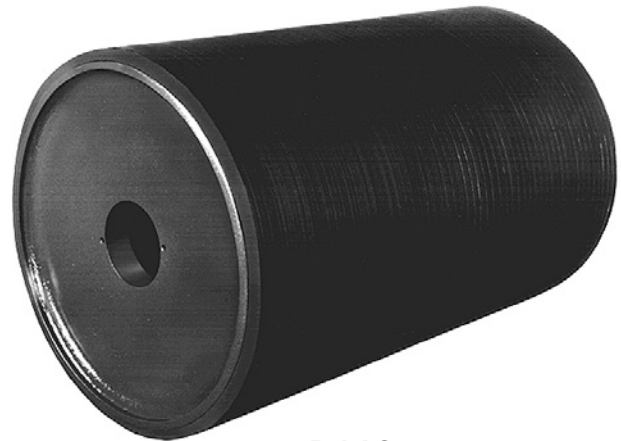
For maximum abrasion resistance, Dodge also offers D-Lag - a premium rubber polymer with 73% greater life than standard SBR. It offers improved resistance to cuts and gouges, as well as an improved coefficient of friction and low temperature flexibility.

Neoprene

Dodge also offers MSHA-approved neoprene material, which is fire retardant and oil resistant.

Wing-Lag

A replaceable urethane slide-on lagging for CEMA wing pulleys. See page PT14-68 for more information



D-LAG

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	-----------------------------	--------------------------	--------------------------------------



Lagging Weights

1/4" Plain Vulcanized Rubber Lagging Weights

Pulley Dia.	Weights for Various Face Widths																			
	12	14	16	18	20	22	24	26	30	32	36	38	44	46	51	54	57	60	63	66
6	3	4	4	5	5	6	6	6	7	8	9	10	11	12	13	14	15	16	17	17
8	4	5	6	6	6	7	8	9	10	11	12	13	15	16	17	18	19	20	21	23
10	6	6	6	7	8	9	10	11	13	14	16	17	18	19	22	23	24	26	27	28
12	6	7	8	9	10	11	12	13	15	16	18	19	22	23	26	27	29	30	32	33
14	7	8	9	11	12	13	15	16	17	19	21	23	26	28	30	32	34	36	38	40
16	8	9	11	12	14	15	17	17	20	22	25	26	30	31	35	37	39	41	43	45
18	9	10	12	14	15	16	18	19	22	25	28	29	34	35	39	41	43	45	48	51
20	10	12	14	16	17	18	20	22	26	28	30	32	41	40	43	46	49	51	53	56
24	12	14	16	18	20	22	24	26	30	32	36	38	44	46	51	54	57	60	64	66
30	16	17	20	23	26	28	30	33	39	40	45	49	56	59	65	69	73	76	80	84
36	18	20	24	27	30	33	36	39	45	49	55	58	67	71	78	83	87	92	97	101
42	...	...	29	32	36	40	43	46	53	57	64	68	78	82	92	97	102	107	112	118
48	...	...	32	36	40	44	48	52	60	63	72	75	87	92	104	111	116	122	129	135
54	...	...	36	40	45	50	64	60	64	74	82	87	101	106	117	124	131	137	144	152
60	...	...	40	46	51	56	61	66	76	82	92	97	102	118	130	138	145	153	161	168

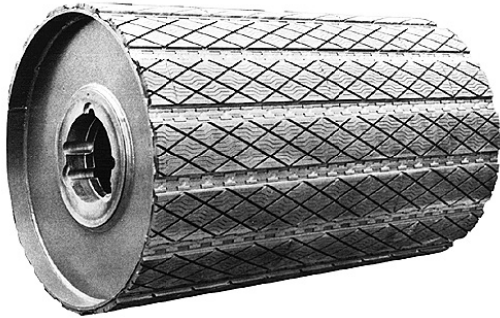
NOTE: For weights of other lagging, multiply weight given above by factors listed below.

3/8", 1/2" Vulcanized Rubber Lagging Weight Factors

Type	Weight Factor	Type	Weight Factor
3/8" Plain	1.49	3/8" Grooved	1.40
1/2" Plain	1.99	1/2" Grooved	1.89



SLIDE LAG®



Exclusive elastomer compounding provides a lagging pad with exceptional drive-pulley traction, abrasion resistance and extra long service life.

Factory hot-vulcanization under pressure assures the best possible bond of rubber to backing plate. No lagging failures from loss of adhesion and separation-the most common problems associated with conventional lagging.

Steel backing plates and metal retainers are precision formed at the factory to fit the curved surface provided by each individual pulley diameter. Insures proper pad stability and long life.

Replaceable pads are designed to fit under the lips of the retainers, allowing the pads to slide in and out during installation. SLIDE LAG can be installed on conveyor systems without removing the pulleys from their operating positions

Different styles and materials of slide lag also available.

Part Number for Style #5 SLIDE LAG

Part Number	Description
207349	6" Diameter Style 5
207325	8" Diameter Style 5
207326	10" Diameter Style 5
207327	12" Diameter Style 5
207328	14" Diameter Style 5
207329	16" Diameter Style 5
207330	18" Diameter Style 5
207331	20" Diameter Style 5
207332	24" Diameter Style 5
207333	30" Diameter Style 5
207334	36" Diameter Style 5
207335	42" Diameter Style 5

Other styles of SLIDE LAG are available upon request, such as Belt saver, Edge crown and SOF. Dodge conveyor pulleys can be readily obtained with SLIDE LAG pre-installed from the factory.

Part Numbers for Holz Style # 5 SOF Slide Lagging

Part Number	Description
207336	8" Diameter Style 5 SOF
207337	10" Diameter Style 5 SOF
207338	12" Diameter Style 5 SOF
207339	14" Diameter Style 5 SOF
207340	16" Diameter Style 5 SOF
207341	18" Diameter Style 5 SOF
207342	20" Diameter Style 5 SOF
207343	24" Diameter Style 5 SOF
207344	30" Diameter Style 5 SOF
207345	36" Diameter Style 5 SOF
207346	42" Diameter Style 5 SOF
207249	48" Diameter Style 5 SOF

Ordering SLIDE LAG with Retainers

For the most common pulley sizes, select the number of 72" pads needed from the Table below

		Pulley Face Width																		
		12"	14"	16"	18"	20"	22"	24"	26"	30"	32"	36"	38"	40"	44"	46"	51"	54"	60"	66"	72"
P U L L	6"	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3
	8"	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4
	10"	1	1	2	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
	12"	1	2	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	6	6
E Y D	14"	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	6	6	7	7
	16"	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	8	8
	18"	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9
I A M E T E R	20"	2	2	3	3	3	4	4	4	5	5	5	6	6	7	7	8	8	9	10
	24"	2	3	3	3	4	4	4	5	5	6	6	7	7	8	8	9	9	10	11
	30"	3	3	4	4	5	5	5	6	7	7	8	8	9	10	10	11	12	13	14
	36"	3	4	4	5	5	6	6	7	8	8	9	10	10	11	12	13	14	15	17
	42"	4	5	5	6	6	7	7	8	9	10	11	12	12	13	14	15	16	18	20
	48"	4	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	18	20	22
	54"	5	6	6	7	8	9	9	10	12	12	14	15	15	17	18	20	21	23	25
	60"	5	6	7	8	9	10	10	11	13	14	15	16	17	19	20	22	23	25	28
	72"	6	7	8	9	10	11	12	13	15	16	18	19	20	22	23	26	27	30	33

* Registered trademark of Holz Rubber Company

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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MODIFICATIONS/ ACCESSORIES



WING-LAG™

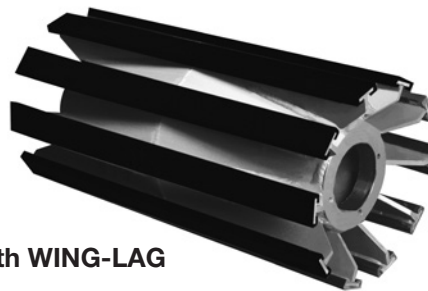
A poly-elastomer material that improves the performance of conventional wing pulleys. Designed to beat the heat or cold...oil, chemicals or abrasives...for any tough conveyor operation where the job calls for lagged wing pulleys... WING-LAG will do the job better and last longer.

Tougher than rubber. WING-LAG will outlast rubber lagging 2-5 times.

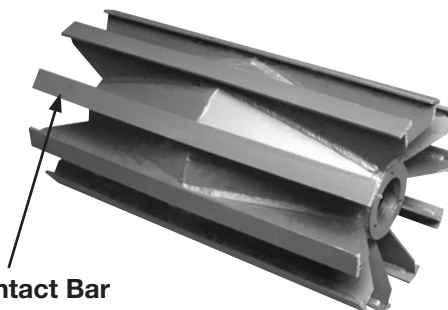
Resists chemicals and abrasives. WING-LAG is not affected by most oils, hydraulic fluids, fuels, chemicals and abrasives.

Excellent temperature range. WING-LAG has an effective operating temperature range of -60 degrees F to +212 degrees F.

WING-LAG grips the wing pulley and stays in place as if it were glued. However, it requires no special metal channeling, retaining grooves or other designed-in retaining feature, therefore it goes on easily and removes easily.



Pulley with WING-LAG



Contact Bar

Greater protection from foreign objects. Because of its tough composition, rocks, coal chunks and other debris trapped between the conveyor belt and the wing will simply be thrown out when the pulley has completed its turn.

Ordering WING-LAG

For the most common pulley sizes, select the number of the wings from the Table below. To calculate the number of 72" pieces needed, multiple the number of wings by the face width and divide by 72. Round the number of pieces up to the next largest number.

Diameter	Heavy Duty No. of Wings	Part Number
8	7	207300
10	8	207300
12	8	207300
14	10	207300
16	10	207300
18	10	207300
20	10	207301
24	12	207301
30	16	207301
36	18	207301
42	22	207301
48	24	207301
54	28	207301
60	30	207301

WING-LAG is available on CEMA heavy duty wing pulleys with standard contact bars pre-installed at the factory or it can be retrofit in the field. Either way a WING-LAG wing pulley will extend the life of conveyor belts and conventional wing pulleys under the most severe operating conditions.

Only available on CEMA wings with standard contact bars.

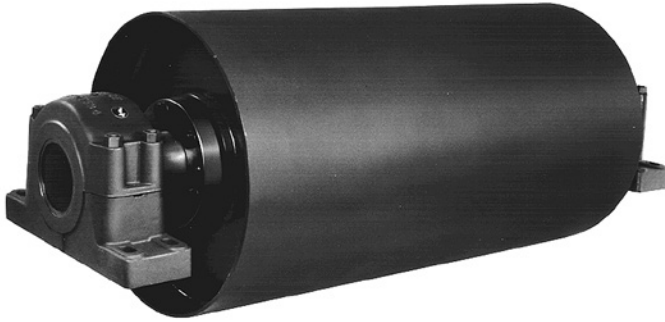
Installation and maintenance instructions are available at www.dodge-pt.com

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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Conveyor Pulley Assemblies

- Single source supplier, single source warranty
- Computer aided product selection
- Maximize return on investment
- No on-site component assembly
- Complete package of all Dodge bearing and power transmission components, including pulleys, lagging, shafting and bearings, such as USAF, ISAF, IP-E, etc
- Coupling mounting is also available



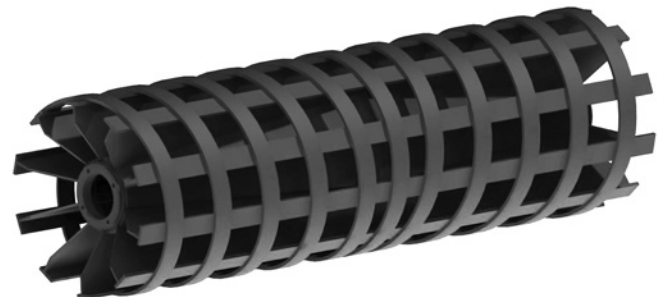
Drum Pulley Assembly



**Engineered Class
Pulley Assembly**



Wing Pulley Assembly



Spiral Wing Pulley Assembly

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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RELATED PRODUCTS

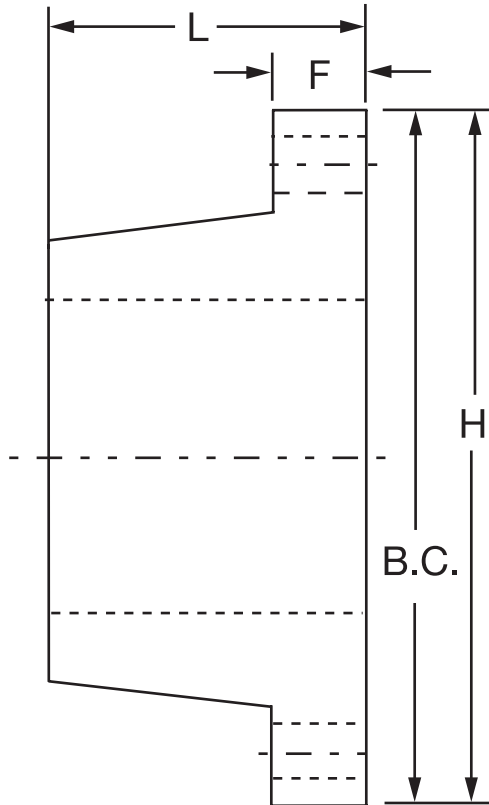
HE Bushings

The Dodge exclusive HE bushing system was specifically designed for drum and wing pulley applications.

- 14° taper angle to minimize end disc stress
- Thicker flange
- More mounting bolts on larger sizes
- Shaft diameters to 12"
- Even bolt spacing

HE Bushing Dimensions

Bushing	Maximum Bore (in.)	L (in.)	B.C. (in.)	F (in.)	H (in.)	Number of Bolts	Size of Bolts (in.)
HE-25	2-1/2	1.80	3.94	.75	4.63	4	3/8-16 x 1-3/4
HE-30	3	2.20	4.69	.88	5.63	4	1/2-13 x 2-1/4
HE-35	3-1/2	2.78	5.56	.88	6.63	4	9/16-12 x 2-1/4
HE-40	4	2.93	6.31	1.00	7.50	4	5/8-11 x 2-1/2
HE-45	4-1/2	3.20	7.31	1.25	8.75	6	5/8-11 x 2-1/2
HE-50	5	3.70	8.00	1.50	9.63	6	3/4-10 x 3
HE-60	6	3.95	9.25	1.75	11.13	6	7/8-9 x 3-1/2
HE-70	7	4.45	10.56	2.00	12.75	6	1-8 x 4
HE-80	8	5.20	12.13	2.25	14.50	6	1-1/8-7 x 4-1/2
HE-100	10	6.45	14.50	3.00	17.00	6	1-1/4-7 x 5-1/2
HE-120	12	7.45	17.50	3.00	20.00	8	1-1/4-7 x 5-1/2



Wrench Torque

Bushing	Wrench Torque (ft.-lbs.)
HE-25	30
HE-30	60
HE-35	90
HE-40	140
HE-45	140
HE-50	200
HE-60	350
HE-70	500
HE-80	500
HE-100	600
HE-120	600

Details for TAPER-LOCK Bushings - See page PT6-2 - PT6-12

Details for QD Bushings - See page PT6-16 - PT6-25

Installation and maintenance instructions are available at www.dodge-pt.com

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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RELATED PRODUCTS



HE Bushings

Bush. No.	Bore	Part No.	Wt.	Bushing Keyway	Shaft Keyway
HE-25	1	206623 *	5.4	1/4 x 1/8	1/4 x 1/8
	1-1/8	206744	5.4		
	1-3/16	206615 *	5.4		
	1-1/4	206745 *	5.4		
	1-5/16	206747	5.4	5/16 x 5/32	5/16 x 5/32
	1-3/8	206748	5.4		
	1-7/16	206617 *	5.4	3/8 x 3/16	3/8 x 3/16
	1-1/2	206750 *	5.4		
	1-11/16	206752 *	5.4		
	1-3/4	206754 *	5.4		
	1-13/16	206756	5.4	1/2 x 1/4	1/2 x 1/4
	1-7/8	206758	5.4		
	1-15/16	206619 *	5.4		
	2	206760 *	5.4		
	2-1/8	205997	5.4		
	2-3/16	206763 *	5.4		
	2-1/4	206765 *	3.1		
	2-5/16	206767	3.1		
	2-3/8	206768	3.1		
	2-7/16	206621 *	3.1		
2-1/2	206770	3.1	5/8 x 3/16▲	5/8 x 5/16	
HE-30	1-3/8	206635	8.5	5/16 x 5/32	5/16 x 5/32
	1-7/16	206625	8.5	3/8 x 3/16	3/8 x 3/16
	1-1/2	206637 *	8.5		
	1-11/16	206639	8.5		
	1-3/4	206772	8.5		
	1-15/16	206627 *	8.5	1/2 x 1/4	1/2 x 1/4
	2	206774	8.5		
	2-3/16	206775 *	8.5		
	2-7/16	206629 *	8.5	5/8 x 5/16	5/8 x 5/16
	2-1/2	206777 *	8.5		
	2-9/16	206838	8.5		
	2-5/8	205881	8.5		
	2-11/16	206631 *	8.5		
	2-3/4	206778 *	5.3		
	2-13/16	206779	5.3	3/4 x 1/8▲	3/4 x 3/8
2-7/8	206780	5.3			
2-15/16	206633 *	5.3			
3	206781 *	5.3			
HE-35	1-3/16	206648	15	1/4 x 1/8	1/4 x 1/8
	1-7/16	206649	15	3/8 x 3/16	3/8 x 3/16
	1-1/2	206784	15		
	1-11/16	206786	15		
	1-3/4	206839	15		
	1-15/16	206640	15	1/2 x 1/4	1/2 x 1/4
	2	206788	15		
	2-3/16	206790 *	15		
2-1/4	206792	15			

▲ Keys Furnished For These Sizes Only
 * Standard Stock Sizes

Bush. No.	Bore	Part No.	Wt.	Bushing Keyway	Shaft Keyway	
HE-35 (cont)	2-3/8	206794	15	5/8 x 5/16	5/8 x 5/16	
	2-7/16	206642 *	15			
	2-1/2	206795	15			
	2-11/16	206796	15			
	2-3/4	206798	15			
	2-7/8	206800	15	3/4 x 3/8	3/4 x 3/8	
	2-15/16	206644 *	15			
	3	206801 *	15			
	3-3/16	206803 *	15			
	3-3/8	206840	9	7/8 x 3/16▲	7/8 x 7/16	
	3-7/16	206646 *	9			
	3-1/2	206807 *	9			
	HE-40	1-15/16	206658	20	1/2 x 1/4	1/2 x 1/4
		2-3/16	206659	20		
		2-7/16	206810 *	20	5/8 x 5/16	5/8 x 5/16
2-1/2		206811	20			
2-11/16		206650	20			
2-15/16		206652 *	20	3/4 x 3/8	3/4 x 3/8	
3-3/16		206812	20			
3-11/16		206813 *	12.3	7/8 x 7/16	7/8 x 7/16	
3-7/16		206654 *	12.3			
3-7/8		206841	12.3	1 x 1/4▲	1 x 1/2	
3-15/16	206656 *	12.3				
4	206815 *	12.3				
HE-45	1-15/16	206670	30	1/2 x 1/4	1/2 x 1/4	
	2-7/16	206660 *	30	5/8 x 5/16	5/8 x 5/16	
	2-15/16	206662 *	30	3/4 x 3/8	3/4 x 3/8	
	3-7/16	206664 *	30	7/8 x 7/16	7/8 x 7/16	
	3-1/2	206671	30			
	3-15/16	206666 *	19.4	1 x 1/2	1 x 1/2	
	4-3/16	206672	19.4	1 x 1/4▲	1 x 1/2	
	4-3/8	205883	19.4			
	4-7/16	206668 *	19.4			
	4-1/2	206673 *	19.4			
HE-50	2-15/16	207998	39	7/8 x 7/16	7/8 x 7/16	
	3-5/16	205884	39			
	3-7/16	206817 *	39			
	3-15/16	206818 *	39	1 x 1/2	1 x 1/2	
	4-7/16	206675 *	39			
	4-11/16	205885	27	1-1/4 x 1/4▲	1-1/4 x 5/8	
	4-15/16	206677 *	27			
	5	206821	27			
HE-60	3-15/16	206686 *	55	1 x 1/2	1 x 1/2	
	4-1/4	206687	55			
	4-7/16	206688 *	55			
	4-15/16	206680 *	55	1-1/4 x 5/8	1-1/4 x 5/8	
	5-1/4	206689	55			
	5-7/16	206682 *	55			
	5-1/2	206823 *	39			
	5-15/16	206684 *	39			
	6	206825 *	39			1-1/2 x 1/4▲

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	-----------------------------	--------------------------	--------------------------------------

RELATED PRODUCTS



HE Bushings

Bush. No.	Bore	Part No.	Wt.	Bushing Keyway	Shaft Keyway
HE70	4-7/16	205886	74	1 x 1/2	1 x 1/2
	4-15/16	205880	74	1-1/4 x 5/8	1-1/4 x 5/8
	5-7/16	205887	74		
	5-15/16	206690 *	74	1-1/2 x 3/4	1-1/2 x 3/4
	6	207396 *	74		
	6-7/16	206692 *	74		
	6-1/2	206845 *	57		
6-15/16	206694 *	57	1-3/4 x 1/4▲	1-3/4 x 3/4	
7	206847 *	57			
HE80	5-15/16	207399	114.09	1-1/2 x 3/4	1-1/2 x 3/4
	6-7/16	206700	114.09		
	6-3/4	205888	114.09	1-3/4 x 3/4	1-3/4 x 3/4
	6-15/16	206702	114.09		
	7	205889	114.09		
	7-3/16	205890	114.09		
	7-1/2	206849 *	114.09		
	7-7/16	206704	114.09		
	7-3/4	205891	114.09	2 x 3/4	2 x 3/4
	7-15/16	206706	114.09		
	8	206708 *	83		
	8	206708 *	83		
HE-100	7-1/2	206710	202	1-3/4 x 3/4	1-3/4 x 3/4
	7-15/16	206712	202	2 x 3/4	2 x 3/4
	8	206718 *	202		
	8-7/16	205892	202		
	8-1/2	206720 *	202		
	8-15/16	206714	202		
	9	206722 *	202		
9-1/2	206724 *	202	2-1/2 x 7/8	2-1/2 x 7/8	
10	206716 *	144			
HE-120	8	207398	348	2 x 3/4	2 x 3/4
	8-1/2	207380	348		
	9	207382	348		
	9-1/2	207384	348	2-1/2 x 7/8	2-1/2 x 7/8
	10	207386	348		
	10-1/2	207388	348		
	11	207390 *	348		
	11-1/2	207392	348		
12	207394	225	3 x 1	3 x 1	

▲ Keys Furnished For These Sizes Only
 * Standard Stock Sizes

Reborable HE Bushings						
Bushing	Part Number	Minimum Bore	Inch		Metric	
			Maximum Bore (in.) Sq. Key	Maximum Bore (in.) Shallow Key	Minimum Bore (mm)	Maximum Bore (mm)
HE25	207960 *	15/16	2-1/4	2-1/2	24	60
HE30	207961 *	15/16	2-3/4	3	24	75
HE35	207962 *	1-3/16	3-1/4	3-1/2	32	85
HE40	207963 *	1-15/16	3-3/4	4	50	100
HE45	207964 *	1-15/16	3-15/16	4-1/2	50	110
HE50	207965 *	2-15/16	4-1/2	5	75	125
HE60	207966 *	3-7/16	5-1/2	6	90	150
HE70	207967 *	4-7/16	6-1/2	7	120	170
HE80	207968 *	5-7/16	8	-	140	200
HE100	207969	6-15/16	10	-	180	250
HE120	207970	7-15/16	12	-	220	300



RELATED PRODUCTS

Keyless Locking Assemblies

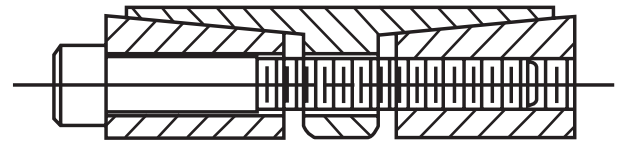


The Dodge Pulley Pros have been designing and fabricating special pulleys with Keyless Locking Assemblies for over 30 years. Hubs are computer designed for use with single or dual locking assemblies.

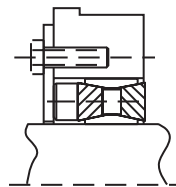
Keyless locking assemblies are available in two basic configurations – short series and long series. Long series locking assemblies feature a longer length through bore with a corresponding increase in contact area between the locking assembly and the shaft and hub.

Most conveyor pulley applications require only one short series locking assembly in each pulley hub to transmit the bending and torsional moments. Heavier loaded pulleys require long series locking assemblies to transmit increased loads. The Dodge Pulley Pros have the experience and expertise to determine the best keyless locking assembly configuration for any application.

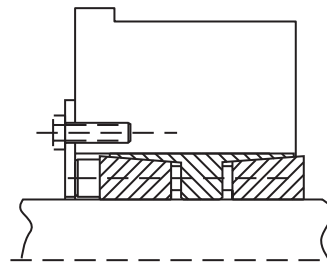
Dodge Keyless Locking Assemblies are self-contained, high torque capacity, shaft-hub locking devices. They provide many features and benefits to conveyor pulley assemblies, including no keyway stress concentration, no axial movement during assembly, high torque capacity, and easy assembly and disassembly. The locking assembly design includes concentric, tapered rings. As the locking screws are torqued, the locking assembly clamps down on the shaft and expands into the hub bore, establishing a tight mechanical shrink fit.



Long Series Locking Assembly



Short Series



Long Series Locking Assembly

Available in Weld On Hub, Integral Hub or T-Section. See Pages PT14-56 and PT14-57.

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
----------------------------------	-----------------------------	--------------------------	--------------------------------------

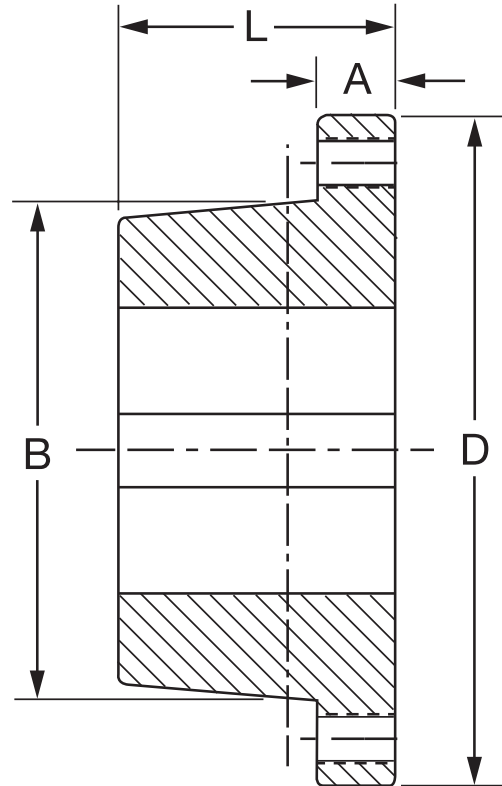


RELATED PRODUCTS

XT Bushings

Usage: This product is specially designed for conveyor pulley applications.

- 2"/ft taper for easy on, easy off
- In steel and gray cast iron



Dimensions

Bushing Size	Dimensions - Inches						No.	Size	Recommended Wrench Torque (ft-lbs)	Approx. Weight
	A	B	D	L	BC					
XTB15	3/8	2.000	2-7/8	1-1/8	2-7/16	4	1/4-20NC x 1"	7.9	0.7	
XTB20	15/32	2.688	3-3/4	1-13/32	3-3/16	4	5/16-18NC x 1-1/4"	16.7	1.5	
XTB25	5/8	3.188	4-7/16	1-7/8	3-3/4	4	3/8-16NC x 1-3/4"	29.2	2.6	
XTB30	11/16	3.875	5-5/16	2-1/16	4-9/16	4	7/16-14NC x 1-1/2"	45.8	4.2	
XTB35	25/32	4.688	6-5/16	2-15/32	5-7/16	4	1/2-13NC x 1-3/4"	70	7.4	
XTB40	7/8	5.313	7-1/8	2-13/16	6-1/8	4	9/16-12NC x 2"	100	10.5	
XTB45	15/16	5.938	8	3-5/16	6-7/8	4	5/8-11NC x 2-1/4"	140	14.8	
XTB50	1	7.250	10-1/8	3-3/4	8-5/16	4	3/4-10NC x 2-1/2"	250	27.8	
XTB60	1-1/8	8.625	11-15/16	4-1/8	9-7/8	4	7/8-9NC x 2-1/2"	400	42.8	
XTB70	1-5/16	10.000	13-15/16	4-11/16	11-9/16	4	1-8NC x 3"	600	66.3	
XTB80	1-3/8	11.125	15-5/8	5-1/8	12-7/8	4	1-1/8-7NC x 3/12"	750	85.7	
XTB100	1-9/16	13.688	17-15/16	6-3/16	15-9/16	6	1-1/8-7NC x 3-1/2"	750	146	
XTB120	1-3/4	16.188	20-5/8	7-1/16	18-3/16	8	1-1/8-7NC x 3-1/2"	750	216	

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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RELATED PRODUCTS



XT Bushings

Bushing No.	Bore	Part No.	Wt.	Keyseat
XTB15	5/8	226830	.7	3/16 x 3/32
	3/4	226831	.7	3/16 x 3/32
	7/8	226832	.7	3/16 x 3/32
	1	226833	.7	1/4 x 1/8
	1-1/8	226834	.7	1/4 x 1/8
	1-3/16	226835	.7	1/4 x 1/8
	1-1/4	226836	.7	1/4 x 1/8
	1-7/16	226837	.7	3/8 x 1/8 ◆
XTB20	1-1/2	226838	.7	3/8 x 1/8 ◆
	3/4	226839	1.5	3/16 x 3/32
	1	226840	1.5	1/4 x 1/8
	1-3/16	226841	1.5	1/4 x 1/8
	1-1/4	226842	1.5	1/4 x 1/8
	1-7/16	226843	1.5	3/8 x 3/16
	1-1/2	226844	1.5	3/8 x 3/16
	1-11/16	226845	1.5	3/8 x 3/16
XTB25	1-15/16	226846	1.5	1/2 x 3/16 ◆
	2	226847	1.5	1/2 x 3/16 ◆
	1	226848	2.6	1/4 x 1/8
	1-3/16	226849	2.6	1/4 x 1/8
	1-1/4	226850	2.6	1/4 x 1/8
	1-7/16	226851	2.6	3/8 x 3/16
	1-1/2	226852	2.6	3/8 x 3/16
	1-11/16	226853	2.6	3/8 x 3/16
XTB30	1-15/16	226854	2.6	1/2 x 1/4
	2	226855	2.6	1/2 x 1/4
	2-3/16	226856	2.6	1/2 x 1/4
	2-7/16	226857	2.6	5/8 x 1/8 ◆
	1-7/16	226858	4.2	3/8 x 3/16
	1-1/2	226859	4.2	3/8 x 3/16
	1-11/16	226860	4.2	3/8 x 3/16
	1-15/16	226861	4.2	1/2 x 1/4
XTB35	2-3/16	226862	4.2	1/2 x 1/4
	2-7/16	226863	4.2	5/8 x 5/16
	2-11/16	226864	4.2	5/8 x 5/16
	2-15/16	226865	4.2	3/4 x 3/16 ◆
	1-15/16	226866	7.4	1/2 x 1/4
	2-3/16	226867	7.4	1/2 x 1/4
	2-7/16	226868	7.4	5/8 x 5/16
	2-11/16	226869	7.4	5/8 x 5/16
XTB40	2-15/16	226870	7.4	5/8 x 5/16
	2-15/16	226871	7.4	3/4 x 3/8
	3-7/16	226872	7.4	7/8 x 5/16
	3-7/16	226873	10.5	5/8 x 5/16
XTB45	2-15/16	226874	10.5	3/4 x 3/8
	3-7/16	226875	10.5	7/8 x 7/16
	3-15/16	226876	10.5	1 x 3/8 ◆
	3-7/16	226877	14.8	7/8 x 7/16
XTB50	3-15/16	226878	14.8	1 x 1/2
	4-7/16	226879	14.8	1 x 3/8 ◆
	3-15/16	226880	27.8	1 x 1/2
	4-7/16	226881	27.8	1 x 1/2
XTB60	4-15/16	226882	27.8	1-1/4 x 5/8
	5-7/16	226883	42.8	1-1/4 x 5/8
	5-1/2	226884	42.8	1-1/4 x 5/8
	5-15/16	226885	42.8	1-1/2 x 3/4
XTB70	6	226886	42.8	1-1/2 x 3/4
	6-7/16	226887	66.3	1-1/2 x 3/4
	6-1/2	226888	66.3	1-1/2 x 3/4
	6-15/16	226889	66.3	1-3/4 x 3/4
XTB80	7	226890	66.3	1-3/4 x 3/4
	7-1/2	226891	85.7	1-3/4 x 3/4
	7-15/16	226892	85.7	2 x 3/4
	8	226893	85.7	2 x 3/4
XTB100	8-1/2	226894	146	2 x 3/4
	9	226895	146	2 x 3/4
	9-7/16	226896	146	2-1/2 x 7/8
	9-1/2	226897	146	2-1/2 x 7/8
XTB120	10	226898	146	2-1/2 x 7/8
	10-1/2	226899	216	2-1/2 x 7/8
	11	226900	216	2-1/2 x 7/8
	11-1/2	226901	216	3 x 1
	12	226902	216	3 x 1

◆ Key provided with these sizes only
XTB50-XTB120 made from gray cast iron

Reborable XT Bushings

Bushing	Part Number	Minimum Bore	Inch Max Bore
XTB15	226903	5/8	1.5
XTB20	226904	3/4	2.0
XTB25	226905	1	2.5
XTB30	226906	1-7/16	3.0
XTB35	226907	1-15/16	3.5
XTB40	226908	2-7/16	4.0
XTB45	226909	3-7/16	4.5
XTB50	226910	3-15/16	5.0
XTB60	226911	5-7/16	6.0
XTB70	226912	6-7/16	7.0
XTB80	226913	7-1/2	8.0
XTB100	226914	8-1/2	10.0
XTB120	226915	10-1/2	12.0

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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RELATED PRODUCTS

XT Hubs

Usage: XT hubs are for use with the XT Bushing

- 2" /ft taper for easy on, easy off
- Made of low carbon steel for its excellent welding properties



RELATED PRODUCTS

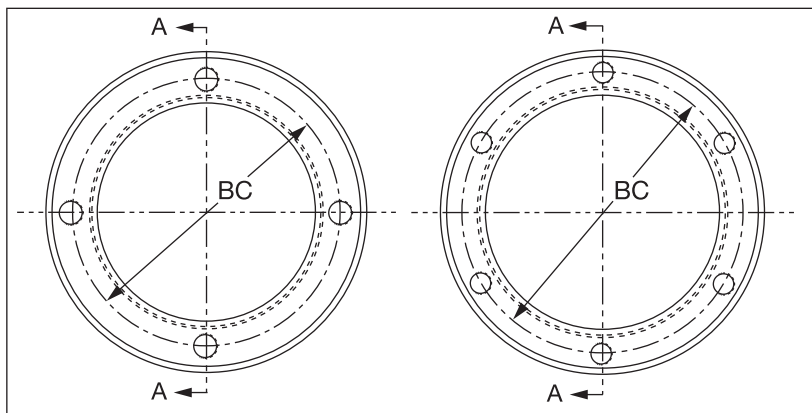


XT Hubs

Dimensions

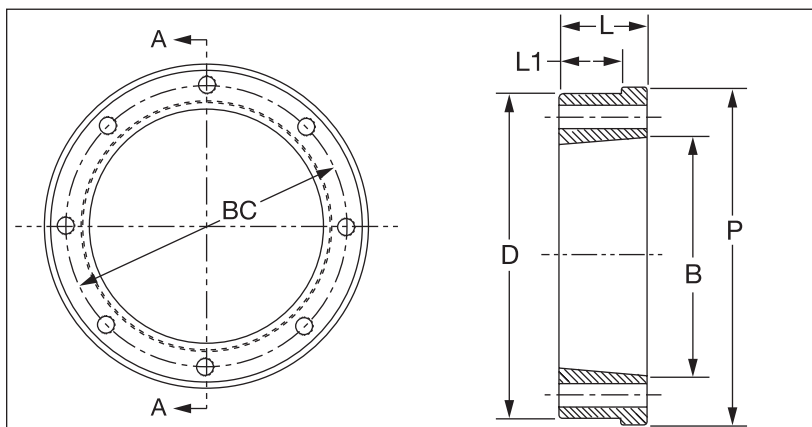
Hub No.	Fits Bushing	Part Number	Dimensions - Inches						Tapped Holes		Approx. Weight
			D *	L	B	P	L1	BC	No.	Size	
XTH15	XTB15	226916	2.875	5/8	2.000	3.190	7/16	2-7/16	4	14-20NC	0.7
XTH20	XTB20	226917	3.813	13/16	2.688	4.065	9/16	3-3/16	4	5/16-18NC	1.5
XTH25	XTB25	226918	4.375	1-1/8	3.188	4.690	13/16	3-3/4	4	3/8-16NC	2.6
XTH30	XTB30	226919	5.750	1-1/4	3.875	5.940	7/8	4-9/16	4	7/16-14NC	4.1
XTH35	XTB35	226920	6.345	1-1/2	4.688	6.565	1-1/16	5-7/16	4	1/2-13NC	6.6
XTH40	XTB40	226921	7.250	1-3/4	5.313	7.563	1-1/4	6-1/8	4	9/16-12NC	10.7
XTH45	XTB45	226922	8.000	2-1/8	5.938	8.315	1-1/2	6-7/8	4	5/8-11NC	15.4
XTH50	XTB50	226923	9.563	2-1/2	7.250	9.940	1-3/4	8-5/16	4	3/4-10NC	24.9
XTH60	XTB60	226924	11.250	2-3/4	8.625	11.690	1-15/16	9-7/8	4	7/8-9NC	36.4
XTH70	XTB70	226925	13.188	3-1/8	10.000	13.628	2-3/16	11-9/16	4	1-8NC	57.7
XTH80	XTB80	226926	14.625	3-7/16	11.125	14.940	2-7/16	12-7/8	4	1-1/8-7NC	75.6
XTH100	XTB100	226927	17.500	4-1/8	13.688	17.940	3	15-9/16	6	1-1/8-7NC	122
XTH120	XTB120	226928	20.500	4-13/16	16.188	20.940	3-1/2	18-3/16	8	1-1/8-7NC	189

* TOLERANCE: (+0.000" / -0.005")



XTH15 to XTH80
Inclusive

XTH100



XTH120

Section A-A
Taper 2" per ft.
on Diameter -B-

FEATURES/BENEFITS PAGE PT15-2	HOW TO ORDER PAGE PT15-6	SELECTION PAGE PT15-9	SELECTION/DIMENSIONS PAGE PT15-10
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ENGINEERING/TECHNICAL

Horsepower and Belt Tension for Simple Conveyors *

Horsepower

The horsepower required to operate a belt conveyor depends on the following:

1. Maximum tonnage to be handled
2. Length of the conveyor
3. Vertical lift of the conveyor

To determine horsepower required for a horizontal conveyor, use Table 1 only.

To determine horsepower required for an inclined conveyor, use Table 1 and Table 2. Figure each table separately and sum the results to determine total horsepower required.

Note: Other factors, such as conveyor plows, scrapers, and skirt boards over 12 feet, will require additional factors for horsepower.

See conveyor design program or call conveyor component engineering for assistance.

* These calculations are limited to level or uphill conveyors with single drive pulley and a maximum length of 500 ft. For other systems, consult Dodge.

NOTE: Online selection program is available at www.ptwizard.com

Table 1 – HP Required to Operate Loaded Conveyor on the Level

Length of Conveyor in feet	Short Tons Per Hour (2000 lbs.)												
	100	150	200	250	300	350	400	500	600	700	800	900	1000
25	2.0	2.3	2.5	2.7	3.0	3.3	3.5	4.0	4.5	5.0	5.5	6.0	6.5
50	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.8	5.4	6.0	6.6	7.2	7.8
75	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.5	6.2	6.9	7.6	8.3	9.0
100	3.0	3.4	3.8	4.2	4.5	4.9	5.3	6.0	6.8	7.5	8.3	9.0	9.8
125	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.6	7.4	8.2	9.0	9.8	10.6
150	3.7	4.1	4.6	5.0	5.5	5.9	6.3	7.2	8.1	9.0	9.9	10.8	11.5
175	4.0	4.5	5.0	5.5	6.0	6.5	7.0	8.0	9.0	10.0	11.0	12.0	13.0
200	4.3	4.8	5.3	5.8	6.4	7.0	7.5	8.6	9.7	10.8	11.9	13.0	14.1
225	4.6	5.1	5.7	6.2	6.8	7.3	8.0	9.2	10.4	11.6	12.8	14.0	15.2
250	4.9	5.5	6.2	6.8	7.5	8.0	8.8	10.1	11.4	12.7	14.0	15.3	16.6
300	5.6	6.2	7.0	7.6	8.4	9.0	9.8	11.2	12.6	14.0	15.4	16.8	18.2
350	6.2	6.9	7.7	8.4	9.2	10.0	10.7	12.2	13.7	15.2	16.7	18.2	19.7
400	6.8	7.6	8.5	9.2	10.2	11.0	11.9	13.6	15.3	17.0	18.7	20.4	22.1
450	7.3	8.3	9.2	10.2	11.1	12.0	13.0	14.9	16.8	18.7	20.6	22.5	24.4
500	8.0	9.0	10.1	11.1	12.2	13.2	14.3	16.4	18.5	20.6	22.7	24.8	26.9

Table 2 – HP Required to Lift Load on Belt Conveyor

Lift in Feet	Short Tons Per Hour (2000 lbs.)												
	100	150	200	250	300	350	400	500	600	700	800	900	1000
10	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0
20	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
30	3.0	4.5	6.0	7.5	9.0	10.5	12.0	15.0	18.0	21.0	24.0	27.0	30.0
40	4.0	6.0	8.0	10.0	12.0	14.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
50	5.0	7.5	10.0	12.5	15.0	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0
60	6.0	9.0	12.0	15.0	18.0	21.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
70	7.0	10.5	14.0	17.5	21.0	24.5	28.0	35.0	42.0	49.0	56.0	63.0	70.0
80	8.0	12.0	16.0	20.0	24.0	28.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
90	9.0	13.5	18.0	22.5	27.0	31.5	36.0	45.0	54.0	63.0	72.0	81.0	90.0
100	10.0	15.0	20.0	25.0	30.0	35.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0

Belt Tension:

The belt tensions developed in a belt conveyor depend on the following:

1. Motor horsepower
2. Belt speed in feet per minute
3. Drive configuration

To determine tight side (T1) and slack side (T2) operating tensions, first determine the effective tension (difference between T1 and T2) from: $T_e = 33,000 \times \text{HP}/\text{FPM}$

Where: T_e = Effective tension
 HP = Motor horsepower
 FPM = Belt speed

The slack side belt tension is calculated from T_e and the drive factor C_w (from Table 7) by: $T_2 = T_e \times C_w$

Where: T_2 = Slack side tension
 T_e = Effective tension
 C_w = Drive factor from Table 3

The tight side tension is calculated from T_e and T_2 by: $T_1 = T_e + T_2$

Where: T_1 = Tight side tension
 T_e = Effective tension
 T_2 = Slack side tension

Example: Horsepower and Tension calculation

Calculate horsepower and belt tensions for a conveyor given:

1. Capacity of 300 tons per hour
2. 300 ft. conveyor length
3. 20 ft. conveyor lift
4. Belt speed of 450 feet per minute
5. Screw take-up system
6. 180° arc of contact on drive pulley
7. Lagged drive pulley

Horsepower:

From Table 1 the horsepower required to operate the belt on the level is 8.4. From Table 2 the horsepower required for lift is 6.0. The total horsepower required is $8.4 + 6.0 = 14.4$. (A 15 HP motor would be selected.)

Tension:

First calculate effective tension from:

$$T_e = \frac{33000 \times \text{HP}}{\text{FPM}} \qquad T_e = \frac{33000 \times 15}{450} = 1100 \text{ lbs.}$$

Calculate T_2 from T_e and drive factor C_w (From Table 3 $C_w = .8$)

$$T_2 = C_w \times T_e \qquad T_2 = .8 \times 1100 = 880 \text{ lbs.}$$

Finally calculate T_1 from T_2 and T_e

$$T_1 = T_2 + T_e \qquad T_1 = 880 + 1100 = 1980 \text{ lbs.}$$

Table 3 - Drive Factor

Type of Pulley Drive	Wrap	Automatic Take-Up		Manual Take-Up	
		Bare Pulley	Lagged Pulley	Bare Pulley	Lagged Pulley
Single no snub	180°	0.84	0.50	1.2	0.8
Single with snub	200°	0.72	0.42	1.0	0.7
	210°	0.66	0.38	1.0	0.7
	220°	0.62	0.35	0.9	0.6
	240°	0.54	0.30	0.8	0.6