



# GRIZZLYDRIVE® SERIES DRUM MOTORS | TM315 - TM915

ø12.5" to ø36" diameter • 5 to 500 hp

**BELT PULL (BP) = (F0 + F1 + F2)**

**Roller Bed Conveyor**

$F0 = 0.04 (2P + Q) L$

$F1 = 0.04 \times R \times L$

$F2 = R \times H$

**Slider Bed Conveyor**

$F0 = 1.1 \times P \times L \times C$

$F1 = 1.1 \times R \times L \times C$

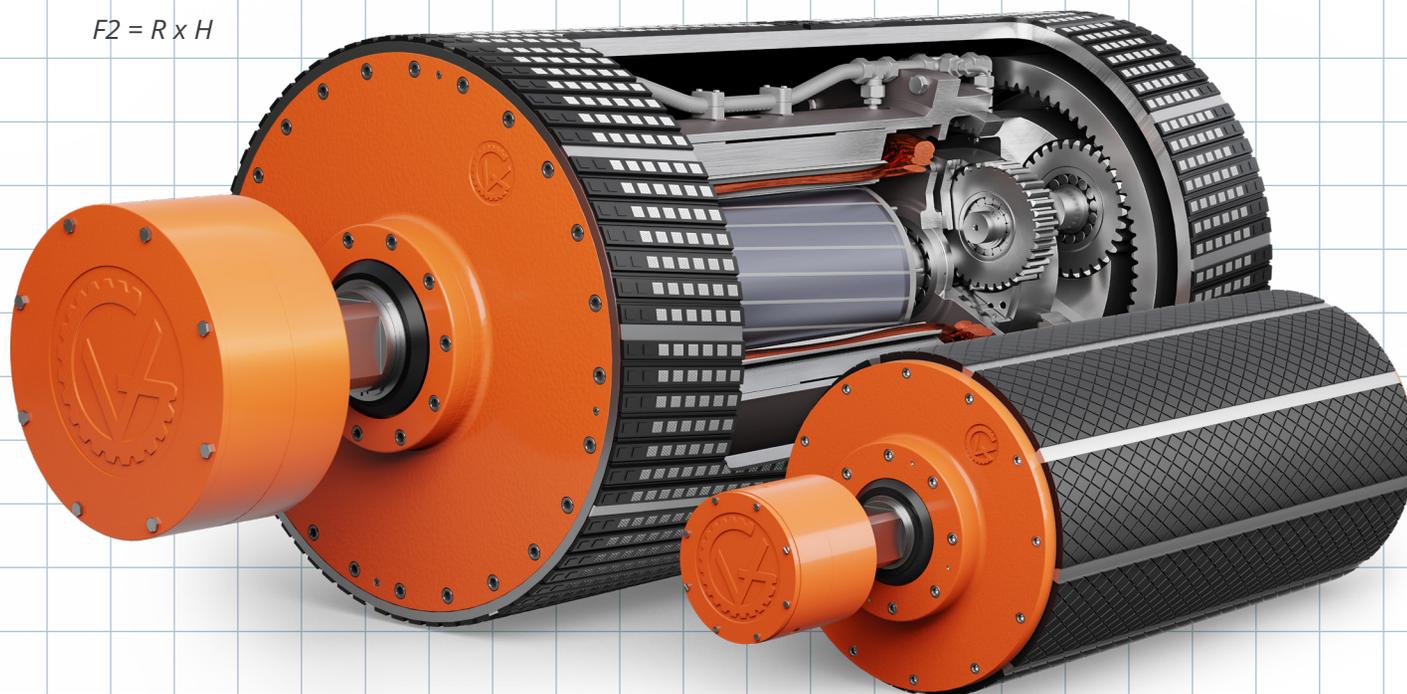
$F2 = R \times H$

- Dimensions and Specifications
- Design Features and Benefits
- Belt Pull Calculations

**RPM:**

$= \frac{V}{\pi (d/12)}$

$V = \text{Velocity (ft/min)}$



**HORSEPOWER:**

$HP = \frac{T''\text{lbs.} \times \text{RPM}}{63025}$

**TORQUE:**

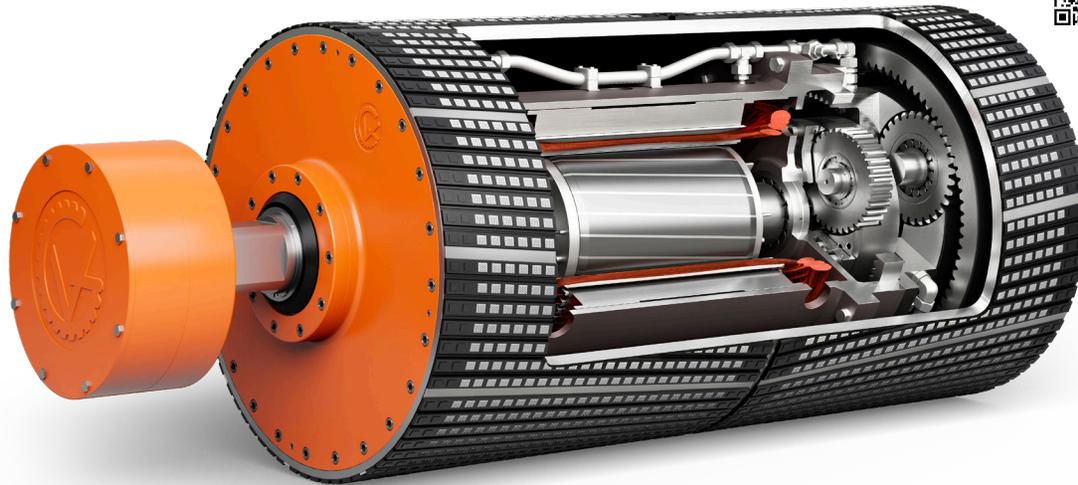
$T''\text{lbs.} = \frac{63025 \times \text{HP}}{\text{RPM}}$



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<b>TM400B60</b> (16.0"ø, 20 - 4 hp) .....	10 .....	11-12
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The GrizzlyDrive® Drum Motor is a one-component conveyor belt drive for bulk handling and material processing belt conveyor applications, from ship loading, power generation, and portable plants to surface and underground mining. All components of the GrizzlyDrive® are enclosed inside the drive roller, protected from outside elements that can impact the reliability and performance of the drive. With no external components such as motor, gearbox, sprockets, chain, chain guard, or pillow block bearings, the GrizzlyDrive® improves workforce safety and eliminates routine maintenance cycles, reducing downtime and expenses associated with traditional conveyor belt drives.

The GrizzlyDrive® is built to endure dusty, harsh, and abrasive environments, and all components are designed for 80,000 hours of continuous operation with no required maintenance. The 96% mechanically efficient gear reducer is in-line with the electric motor, increasing energy efficiency by 25% to 30%, resulting in lower energy consumption and costs. GrizzlyDrive® Drum Motors provide a space-saving, less complex, efficient, reliable, and maintenance-free solution to power belt conveyors. Available in a wide range of diameters, belt speeds, horsepower, face widths, and options to suit all types of belt conveyor applications.



### REDUCE ENERGY CONSUMPTION

With 96% mechanical efficiency and a premium-efficiency electric motor, VDG Drum Motors reduce energy consumption, resulting in energy savings of 25% to 30% over traditional external conveyor drives.

### ELIMINATE MAINTENANCE CYCLES

Maintenance-free VDG Drum Motors are designed for 80,000 hours of continuous operation before an oil change that is performed without removing the drive. With no external drive components, the drum motor eliminates the constant need for lubricating bearings, chain adjustment, and routine maintenance cycles.

### INCREASE WORKFORCE SAFETY

With all components enclosed inside the drive roller, the VDG Drum Motor eliminates the external components of a traditional conveyor drive that could pose hazards to workforce safety.

### ENHANCE SPACE UTILIZATION

Low-profile VDG Drum Motors reduce the overall footprint of the conveyor (area the conveyor occupies), allowing more conveyors to fit on the same floor or overhead space.

### ADVANCED MECHANICAL SEALING SYSTEM

All GrizzlyDrive® Drum Motors are equipped with an advanced mechanical sealing system for continuous operation in the harshest of conditions without corrosion or contamination.

## COMPONENTS

All components are heavy-duty, designed and manufactured in-house by VDG, and can withstand higher levels of belt tension and load to provide years of continuous service compared to traditional conveyor belt drives. Gears are manufactured using state-of-the-art gear cutting and shaping equipment to DIN6 (AGMA12) industry standards. The advanced extreme-duty mechanical sealing system ensures continuous performance in the harshest operating environments without corrosion or contamination.

## ELECTRIC MOTORS

All VDG premium-efficiency electric motors are manufactured in-house by VDG to Class H insulation standards, are inverter-duty, and can be supplied for all standard and non-standard voltage at 50 Hz or 60 Hz for 3 phase applications. All VDG electric motors undergo a **Vacuum Pressure Impregnation (VPI)** process, increasing the life of the electric motor.

## OVERLOAD PROTECTION (GV-THERM)

The GV-THERM, a thermal bimetal device embedded into the motor windings that reacts to temperature, provides an additional layer of thermal overload protection. GV-THERM is standard for GrizzlyDrive® Series Drum Motor TM500A75 to TM915A160 and optional for TM315B50/B60.

## PRESSURE EQUALIZATION SYSTEM (PES)

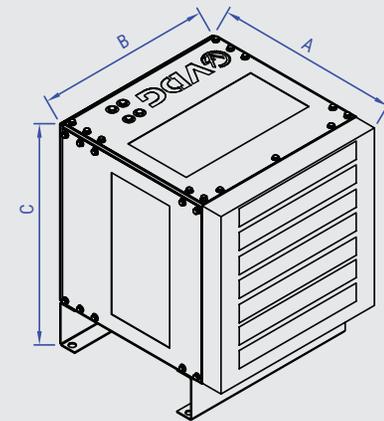
Depending on the application, the heat generated by the electric motor and gear reducer during normal operation will raise the internal pressure up to 18 psi. The internal pressure will cause tighter than normal engagement of the oil seals to the shaft, resulting in premature oil seal failure. The increased internal pressure will result in oil leakage and a higher operating temperature. The pressure equalization system (PES) releases the internal pressure above 0.5 psi. Lower internal pressure eliminates oil leaks, reduces the operating temperature, and increases the electric motor and gear reducer performance.

## VDG OIL COOLING-CONDITIONING SYSTEM

GrizzlyDrive® Drum Motors 75 hp and higher are supplied with the VDG patented Oil Cooling-Conditioning System. The system extracts the oil from inside the drum motor, filters and cools it, then returns the oil directly to lubricate key components inside the drum motor. This system ensures oil viscosity is maintained for optimal lubrication of all critical components. For high horsepower or high temperature applications, the VDG Oil Cooling-Conditioning unit allows the drum motor to withstand demanding operating conditions without compromising motor performance.

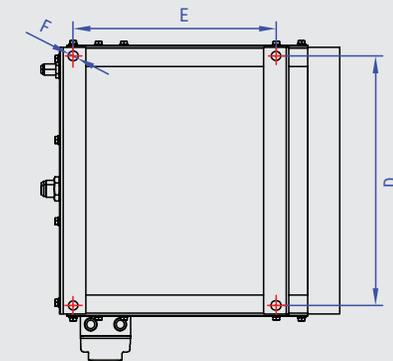


## VDG OIL COOLING-CONDITIONING UNIT



### Overall Dimensions

	A	B	C
HE-300:	17.0"	13.0"	16.0"
HE-500:	23.0"	21.7"	26.4"



### Mounting Hole Dimensions

	D	E	F
HE-300:	10.51"	11.81"	0.50"
HE-500:	19.30"	15.75"	0.75"

## NON-STANDARD LENGTH / EXTRA LONG FACE WIDTH

Please contact your VDG technical representative for details.

## MECHANICAL BACKSTOP (TB)

To prevent rollback for incline conveyors, the backstop device in the drum motor allows the drum motor to rotate only in one direction.

## DRUM MOTOR LAGGING

VDG offers a complete line of lagging materials.

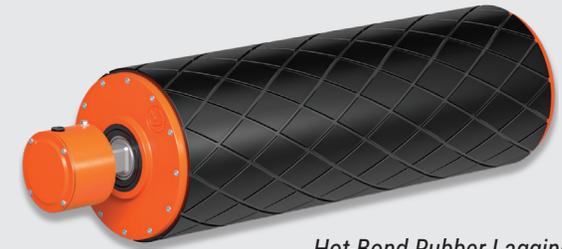
### *Hot Bond Rubber Lagging*

Rubber is wrapped to the desired thickness around the drum using a hot-bond vulcanizing process, providing a seamless and tear-resistant lagging. Various durometer hardness lagging is available in black rubber or USDA/FDA blue or white nitrile rubber in plain, diamond, or chevron patterns.

### *VDG IronGrip™ Lagging*

An extremely durable lagging that increases performance and provides 4 to 5 times longer service life than standard rubber lagging. The VDG patented IronGrip™ lagging system has metal bars welded lengthwise on the drum with hot-bond vulcanized rubber lagging sections between the bars. The metal bars prevent the rubber from wearing below the bars. For extremely abrasive applications, rubber lagging with ceramic tile is also available. IronGrip™ lagging increases traction by 40%, improves belt tracking, and eliminates delamination.

## DRUM MOTOR LAGGING OPTIONS:



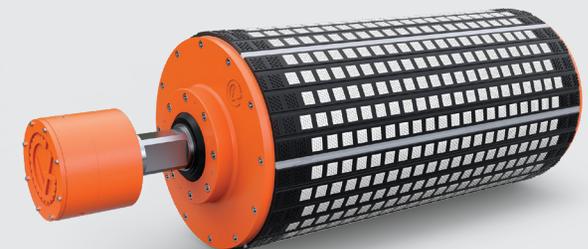
*Hot-Bond Rubber Lagging*



*VDG IronGrip™ Lagging*



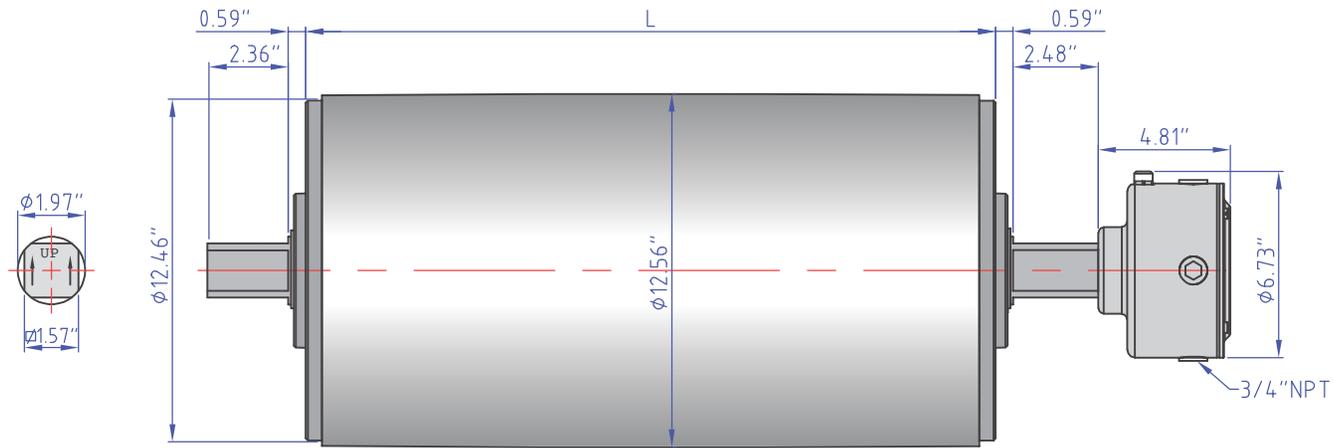
**View  
Video**



*VDG IronGrip™ Lagging  
with Ceramic Tile*



**TM315B50 Drum Motor** (matching Idler KT315B50\*\*)



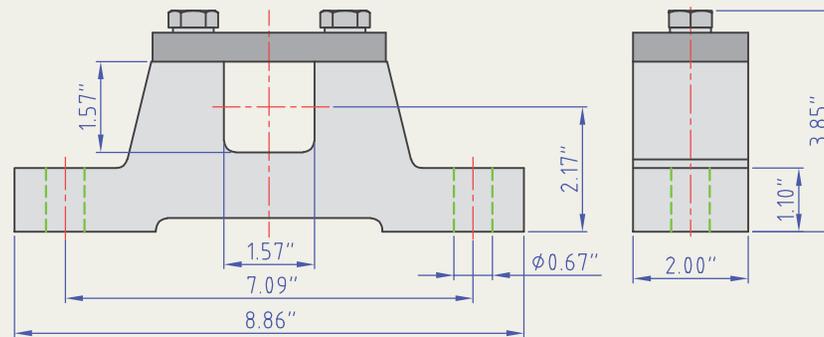
Standard drum motor face widths\* (L) in inches:

21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24
49.21	51.18	53.15	55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

**Brackets: 315-AB-50**



**TM315B50 Drum Motor**

**15.0 HP**

<b>V (ft/min) M/G</b>	<b>661 2/S2</b>	<b>591 2/S2</b>	<b>567 2/S2</b>	<b>520 2/S2</b>	<b>449 2/S2</b>	<b>378 2/S2</b>					
<b>Belt Pull (lbf)</b>	<b>698</b>	<b>782</b>	<b>814</b>	<b>888</b>	<b>1029</b>	<b>1185</b>					
<b>Drum RPM</b>	<b>204</b>	<b>182</b>	<b>175</b>	<b>160</b>	<b>138</b>	<b>116</b>					

**10.0 HP**

<b>V (ft/min) M/G</b>	<b>638 4/S2</b>	<b>567 4/S2</b>	<b>520 4/S2</b>	<b>449 4/S2</b>	<b>402 4/S2</b>	<b>354 4/S2</b>	<b>331 4/S2</b>	<b>295 4/S2</b>	<b>283 4/S2</b>	<b>260 4/S2</b>		
<b>Belt Pull (lbf)</b>	<b>493</b>	<b>555</b>	<b>606</b>	<b>701</b>	<b>784</b>	<b>888</b>	<b>952</b>	<b>1066</b>	<b>1110</b>	<b>1211</b>		
<b>Drum RPM</b>	<b>197</b>	<b>175</b>	<b>160</b>	<b>138</b>	<b>124</b>	<b>109</b>	<b>102</b>	<b>91</b>	<b>87</b>	<b>80</b>		

**7.5 HP**

<b>V (ft/min) M/G</b>	<b>638 4/S2</b>	<b>567 4/S2</b>	<b>520 4/S2</b>	<b>449 4/S2</b>	<b>402 4/S2</b>	<b>354 4/S2</b>	<b>331 4/S2</b>	<b>295 4/S2</b>	<b>268 4/S2</b>	<b>260 4/S2</b>	<b>224 4/S2</b>	<b>189 4/S2</b>		
<b>Belt Pull (lbf)</b>	<b>362</b>	<b>407</b>	<b>444</b>	<b>514</b>	<b>575</b>	<b>651</b>	<b>698</b>	<b>782</b>	<b>814</b>	<b>888</b>	<b>1029</b>	<b>1185</b>		
<b>Drum RPM</b>	<b>197</b>	<b>175</b>	<b>160</b>	<b>138</b>	<b>124</b>	<b>109</b>	<b>102</b>	<b>91</b>	<b>83</b>	<b>80</b>	<b>69</b>	<b>58</b>		

**5.0 HP**

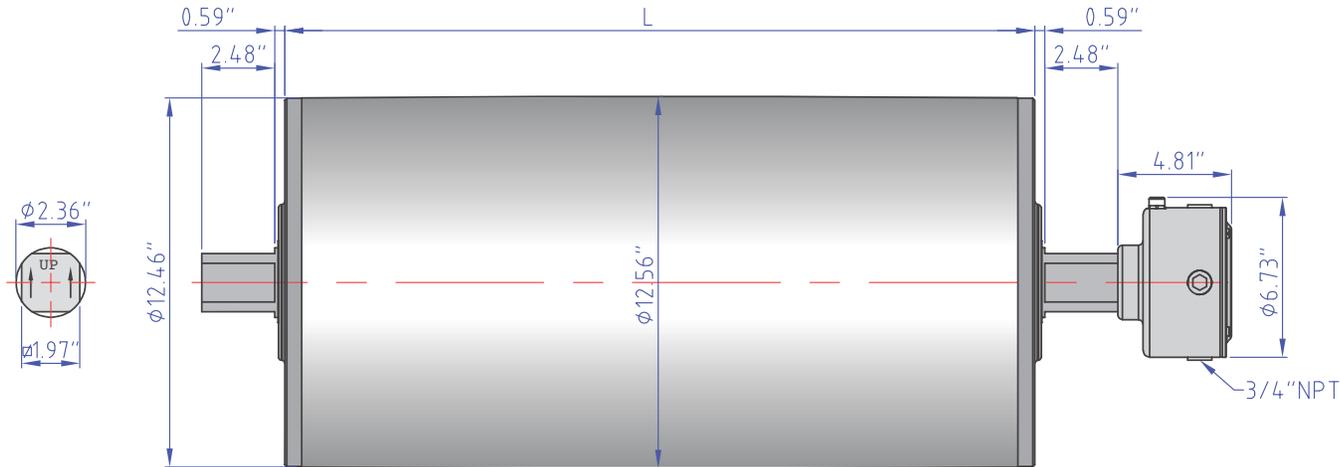
<b>V (ft/min) M/G</b>	<b>638 4/S2</b>	<b>567 4/S2</b>	<b>543 4/S2</b>	<b>449 4/S2</b>	<b>402 4/S2</b>	<b>354 4/S2</b>	<b>331 4/S2</b>	<b>283 4/S2</b>	<b>268 4/S2</b>	<b>213 4/S2</b>	<b>189 4/S2</b>	<b>165 4/S2</b>	<b>154 4/S2</b>	<b>142 4/S2</b>	<b>130 4/S2</b>
<b>Belt Pull (lbf)</b>	<b>245</b>	<b>276</b>	<b>288</b>	<b>349</b>	<b>390</b>	<b>442</b>	<b>473</b>	<b>552</b>	<b>602</b>	<b>736</b>	<b>790</b>	<b>947</b>	<b>1019</b>	<b>1104</b>	<b>1205</b>
<b>Drum RPM</b>	<b>197</b>	<b>175</b>	<b>167</b>	<b>138</b>	<b>124</b>	<b>109</b>	<b>102</b>	<b>87</b>	<b>83</b>	<b>66</b>	<b>58</b>	<b>51</b>	<b>47</b>	<b>44</b>	<b>40</b>

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



**TM315B60 Drum Motor** (matching Idler KT315B60\*\*)



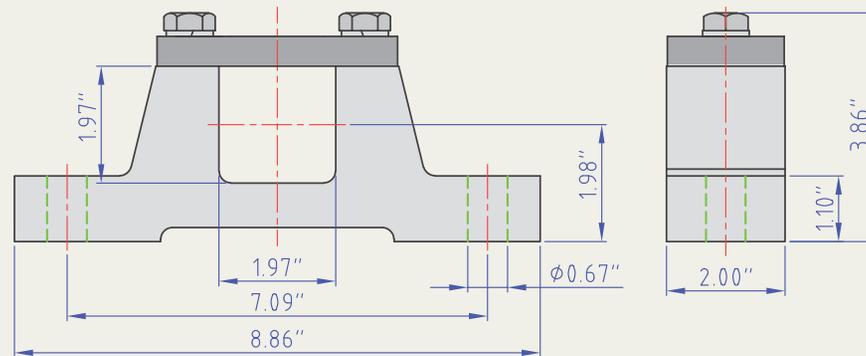
Standard drum motor face widths\* (L) in inches:

25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21
51.18	53.15	55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

**Brackets: 315-AB-60**



**TM315B60 Drum Motor**

**15.0 HP**

<b>V (ft/min) M/G</b>	<b>402 2/S3</b>	<b>335 2/S3</b>	<b>281 2/S3</b>	<b>272 2/S3</b>	<b>236 2/S3</b>	<b>189 2/S3</b>
<b>Belt Pull (lbf)</b>	<b>1095</b>	<b>1309</b>	<b>1560</b>	<b>1626</b>	<b>1866</b>	<b>2312</b>
<b>Drum RPM</b>	<b>124</b>	<b>103</b>	<b>87</b>	<b>84</b>	<b>73</b>	<b>58</b>

**10.0 HP**

<b>V (ft/min) M/G</b>	<b>201 4/S3</b>	<b>170 4/S3</b>	<b>142 4/S3</b>
<b>Belt Pull (lbf)</b>	<b>1470</b>	<b>1760</b>	<b>2100</b>
<b>Drum RPM</b>	<b>62</b>	<b>52</b>	<b>44</b>

**7.5 HP**

<b>V (ft/min) M/G</b>	<b>201 4/S3</b>	<b>168 4/S3</b>	<b>142 4/S3</b>	<b>135 4/S3</b>	<b>118 4/S3</b>	<b>107 4/S3</b>	<b>94 4/S3</b>
<b>Belt Pull (lbf)</b>	<b>1095</b>	<b>1309</b>	<b>1560</b>	<b>1626</b>	<b>1866</b>	<b>2128</b>	<b>2312</b>
<b>Drum RPM</b>	<b>62</b>	<b>52</b>	<b>44</b>	<b>42</b>	<b>36</b>	<b>32</b>	<b>29</b>

**5.0 HP**

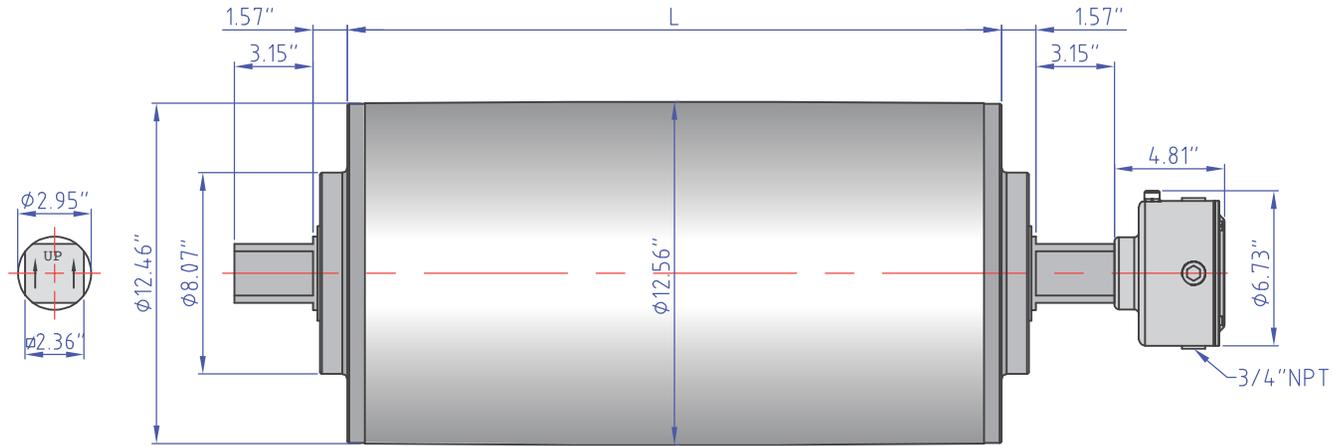
<b>V (ft/min) M/G</b>	<b>118 4/S3</b>	<b>107 4/S3</b>	<b>94 4/S3</b>	<b>76 4/S3</b>
<b>Belt Pull (lbf)</b>	<b>1275</b>	<b>1418</b>	<b>1594</b>	<b>1922</b>
<b>Drum RPM</b>	<b>36</b>	<b>32</b>	<b>29</b>	<b>23</b>

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



**TM315A75 Drum Motor** (matching Idler KT315A75\*\*)



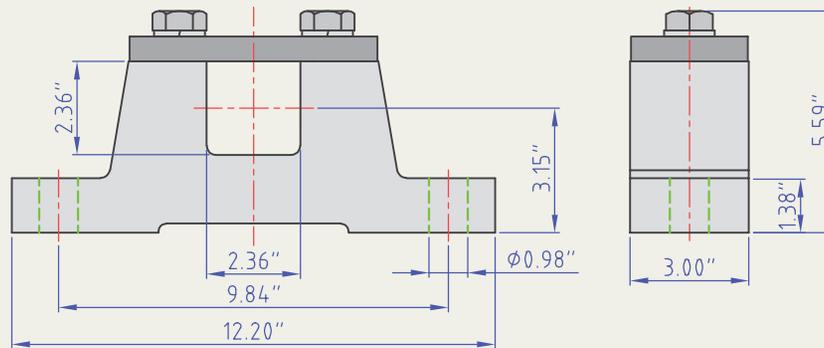
Standard drum motor face widths\* (L) in inches:

33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21	51.18	53.15
55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

**Brackets: 500-AB-75**



**TM315A75 Drum Motor**

**15.0 HP**

<b>V (ft/min) M/G</b>	<b>100 2/PL3</b>	<b>80 2/PL3</b>
<b>Belt Pull (lbf)</b>	<b>4500</b>	<b>5700</b>
<b>Drum RPM</b>	<b>31</b>	<b>25</b>

**10.0 HP**

<b>V (ft/min) M/G</b>	<b>50 4/PL3</b>	<b>40 4/PL3</b>	<b>30 4/PL3</b>
<b>Belt Pull (lbf)</b>	<b>6087</b>	<b>7600</b>	<b>11000</b>
<b>Drum RPM</b>	<b>15</b>	<b>12</b>	<b>9</b>

**V** = Belt Speed (ft/min)

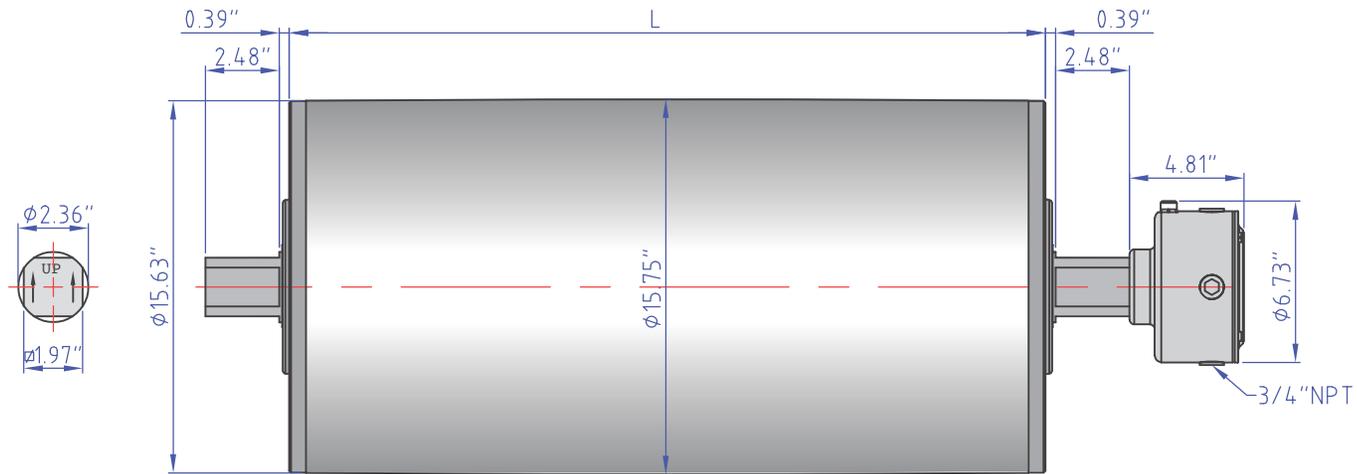
**M/G** = Motor/Gear Reducer Configuration (at rated horsepower)

High Speed  
Low Torque



Low Speed  
High Torque

TM400B60 Drum Motor (matching Idler KT400B60\*\*)



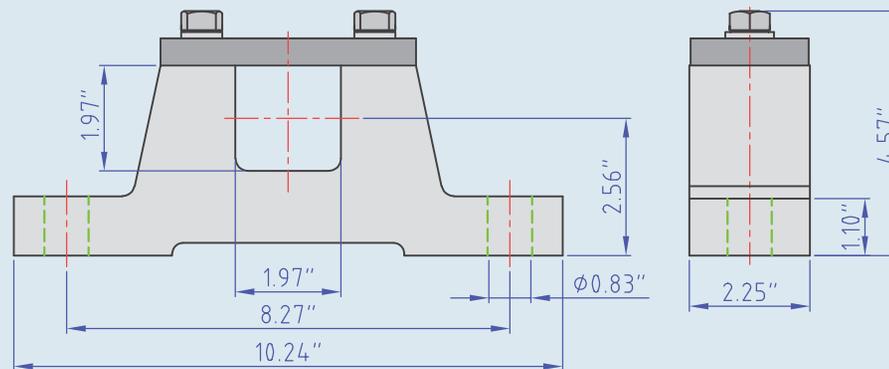
Standard drum motor face widths\* (L) in inches:

25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21
51.18	53.15	55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 400-AB-60



**TM400B60 Drum Motor**

**20.0 HP**

V (ft/min) M/G	885 4/S2	639 4/S2	591 4/S2	534 4/S2	501 4/S2	420 4/S2	386 4/S2	354 4/S2	306 4/S2	254 4/S2
Belt Pull (lbf)	747	1033	1119	1238	1320	1573	1713	1867	2160	2600
Drum RPM	215	155	143	130	122	102	94	86	74	62

**15.0 HP**

V (ft/min) M/G	885 4/S2	639 4/S2	591 4/S2	534 4/S2	501 4/S2	420 4/S2	386 4/S2	354 4/S2	306 4/S2	254 4/S2	214 4/S2	185 4/S2
Belt Pull (lbf)	560	775	839	928	990	1180	1285	1400	1620	1950	2321	2685
Drum RPM	215	155	143	130	122	102	94	86	74	62	52	45

**10.0 HP**

V (ft/min) M/G	885 4/S2	639 4/S2	591 4/S2	534 4/S2	501 4/S2	420 4/S2	386 4/S2	354 4/S2	306 4/S2	254 4/S2	214 4/S2	185 4/S2	153 4/S2
Belt Pull (lbf)	373	517	559	619	660	787	856	933	1080	1300	1547	1790	2155
Drum RPM	215	155	143	130	122	102	94	86	74	62	52	45	37

**7.5 HP**

V (ft/min) M/G	534 4/S2	386 4/S2	302 4/S2	228 4/S2	214 4/S2	185 4/S2	153 4/S2
Belt Pull (lbf)	464	642	821	1088	1160	1343	1616
Drum RPM	130	94	73	55	52	45	37

**7.5 HP**

V (ft/min) M/G	356 6/S2	257 6/S2	201 6/S2	152 6/S2	142 6/S2	123 6/S2	102 6/S2
Belt Pull (lbf)	696	964	1231	1632	1741	2014	2424
Drum RPM	86	62	49	37	34	30	25

**5.5 HP**

V (ft/min) M/G	534 4/S2	386 4/S2	302 4/S2	228 4/S2	214 4/S2	185 4/S2	153 4/S2
Belt Pull (lbf)	340	471	602	798	851	985	1185
Drum RPM	130	94	73	55	52	45	37

**5.5 HP**

V (ft/min) M/G	356 6/S2	257 6/S2	201 6/S2	152 6/S2	142 6/S2	123 6/S2	102 6/S2
Belt Pull (lbf)	511	707	902	1197	1276	1477	1778
Drum RPM	86	62	49	37	34	30	25

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



TM400B60 Drum Motor

4.0 HP

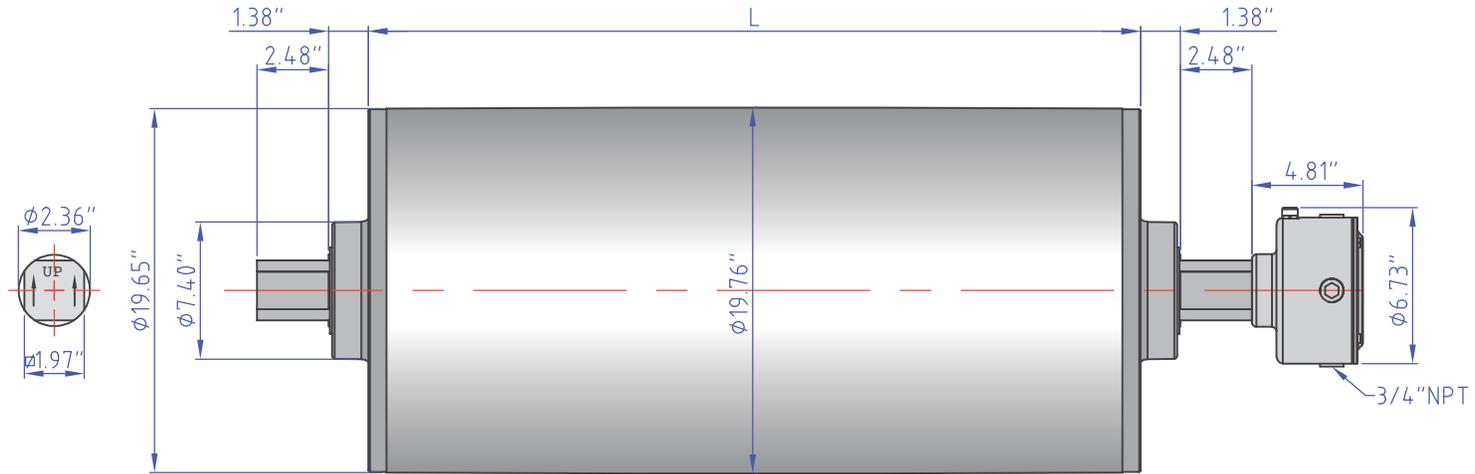
V (ft/min) M/G	534 4/S2	386 4/S2	302 4/S2	228 4/S2	214 4/S2	185 4/S2	153 4/S2
Belt Pull (lbf)	248	343	438	580	619	716	862
Drum RPM	130	94	73	55	52	45	37

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



TM500A60 Drum Motor (matching Idler KT500A60\*\*)



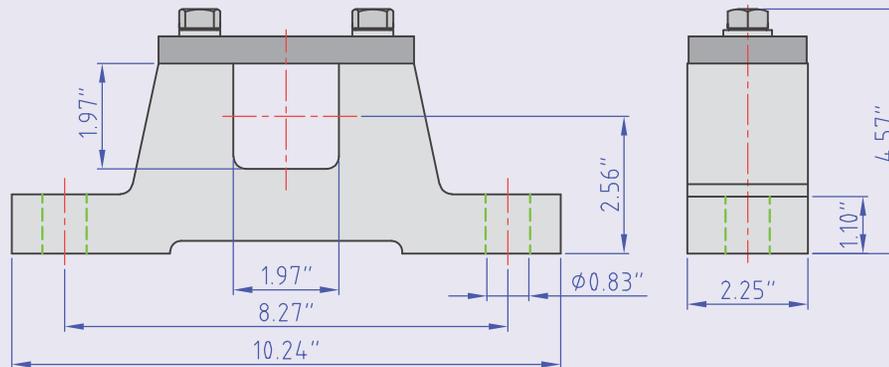
Standard drum motor face widths\* (L) in inches:

25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21
51.18	53.15	55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 400-AB-60



**TM500A60 Drum Motor**

**20.0 HP**

V (ft/min) M/G	1111 4/S2	802 4/S2	741 4/S2	670 4/S2	628 4/S2	484 4/S2	527 4/S2	444 4/S2	384 4/S2	319 4/S2
Belt Pull (lbf)	595	823	892	986	1052	1365	1254	1488	1721	2072
Drum RPM	216	156	144	130	122	94	102	86	75	62

**15.0 HP**

V (ft/min) M/G	1111 4/S2	802 4/S2	741 4/S2	670 4/S2	628 4/S2	484 4/S2	527 4/S2	444 4/S2	384 4/S2	319 4/S2	268 4/S2	232 4/S2
Belt Pull (lbf)	446	618	669	740	789	1024	940	1116	1291	1554	1849	2140
Drum RPM	216	156	144	130	122	94	102	86	75	62	52	45

**10.0 HP**

V (ft/min) M/G	1111 4/S2	802 4/S2	741 4/S2	670 4/S2	628 4/S2	484 4/S2	527 4/S2	444 4/S2	384 4/S2	319 4/S2	268 4/S2	232 4/S2	192 4/S2
Belt Pull (lbf)	297	412	446	493	526	682	627	744	861	1036	1233	1427	1717
Drum RPM	216	156	144	130	122	94	102	86	75	62	52	45	37

**7.5 HP**

V (ft/min) M/G	670 4/S2	484 4/S2	379 4/S2	286 4/S2	268 4/S2	232 4/S2	192 4/S2
Belt Pull (lbf)	370	512	654	867	925	1070	1288
Drum RPM	130	94	74	55	52	45	37

**7.5 HP**

V (ft/min) M/G	447 6/S2	323 6/S2	253 6/S2	191 6/S2	179 6/S2	154 6/S2	128 6/S2
Belt Pull (lbf)	555	768	981	1300	1387	1605	1932
Drum RPM	87	63	49	37	35	30	25

**5.5 HP**

V (ft/min) M/G	670 4/S2	484 4/S2	379 4/S2	286 4/S2	268 4/S2	232 4/S2	192 4/S2
Belt Pull (lbf)	271	375	479	636	678	785	944
Drum RPM	130	94	74	55	52	45	37

**5.5 HP**

V (ft/min) M/G	447 6/S2	323 6/S2	253 6/S2	191 6/S2	179 6/S2	154 6/S2	128 6/S2
Belt Pull (lbf)	407	563	719	954	1017	1177	1417
Drum RPM	87	63	49	37	35	30	25

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)

High Speed  
Low Torque



Low Speed  
High Torque

**TM500A60 Drum Motor**

**4.0 HP**

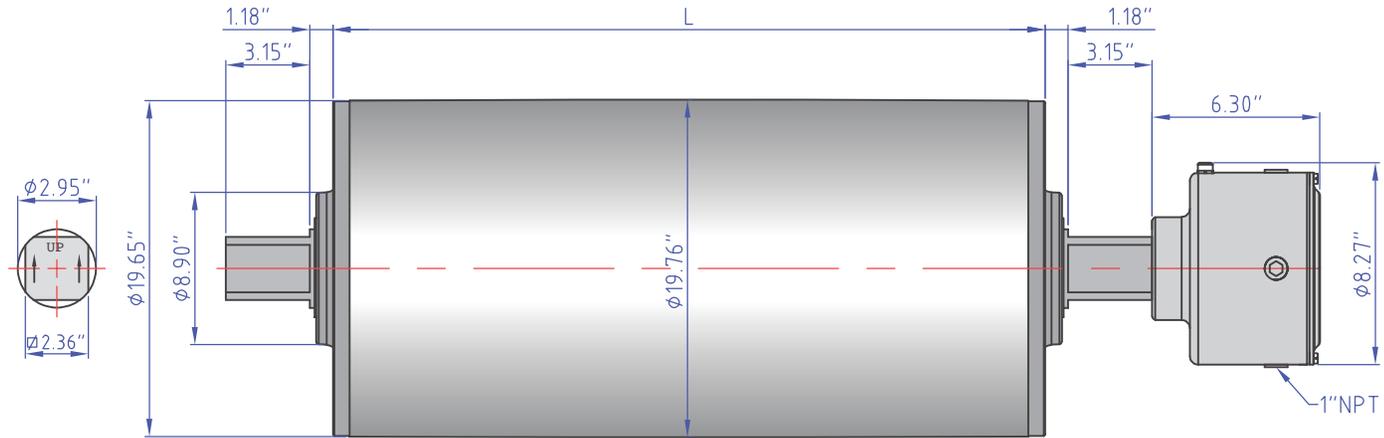
<b>V (ft/min) M/G</b>	<b>670 4/S2</b>	<b>484 4/S2</b>	<b>379 4/S2</b>	<b>286 4/S2</b>	<b>268 4/S2</b>	<b>232 4/S2</b>	<b>192 4/S2</b>
<b>Belt Pull (lbf)</b>	<b>197</b>	<b>273</b>	<b>349</b>	<b>462</b>	<b>493</b>	<b>571</b>	<b>687</b>
<b>Drum RPM</b>	<b>130</b>	<b>94</b>	<b>74</b>	<b>55</b>	<b>52</b>	<b>45</b>	<b>37</b>

**V** = Belt Speed (ft/min)

**M/G** = Motor/Gear Reducer Configuration (at rated horsepower)



TM500A75 Drum Motor (matching Idler KT500A75\*\*)



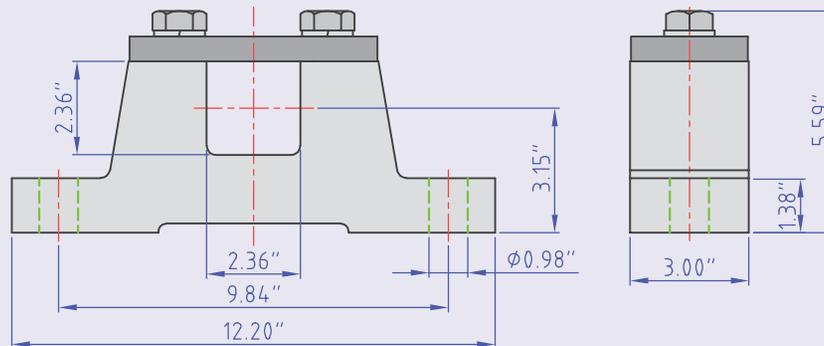
Standard drum motor face widths\* (L) in inches:

33.46	35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21	51.18	53.15
55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 500-AB-75



**TM500A75 Drum Motor**

**40.0 HP**

V (ft/min) M/G	750 4/S2	590 4/S2	468 4/S2
Belt Pull (lbf)	1763	2241	2825
Drum RPM	146	114	91

**30.0 HP**

V (ft/min) M/G	750 4/S2	590 4/S2	468 4/S2	368 4/S2
Belt Pull (lbf)	1322	1680	2119	2694
Drum RPM	146	114	91	71

**25.0 HP**

V (ft/min) M/G	750 4/S2	590 4/S2	468 4/S2	368 4/S2
Belt Pull (lbf)	1102	1400	1766	2245
Drum RPM	146	114	91	71

**20.0 HP**

V (ft/min) M/G	500 6/S2	393 6/S2	312 6/S2	245 6/S2
Belt Pull (lbf)	1322	1680	2119	2694
Drum RPM	97	76	61	48

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)





**TM500A100 Drum Motor**

**75.0 HP**

V (ft/min) M/G	600 2/PL2	500 2/PL2	400 2/PL2
Belt Pull (lbf)	3919	4703	5878
Drum RPM	115	95	76

**60.0 HP**

V (ft/min) M/G	600 2/PL2	500 2/PL2	400 2/PL2	300 4/PL2	250 4/PL2
Belt Pull (lbf)	3135	3762	4703	6200	7500
Drum RPM	115	95	76	57	48

**50.0 HP**

V (ft/min) M/G	600 2/PL2	500 2/PL2	400 2/PL2	300 4/PL2	250 4/PL2	200 4/PL2
Belt Pull (lbf)	2613	3135	3919	5224	6270	7840
Drum RPM	115	95	76	57	48	38

**40.0 HP**

V (ft/min) M/G	300 4/PL2	250 4/PL2	200 4/PL2
Belt Pull (lbf)	4180	5000	6270
Drum RPM	57	48	38

**30.0 HP**

V (ft/min) M/G	300 4/PL2	250 4/PL2	200 4/PL2
Belt Pull (lbf)	3100	3760	4700
Drum RPM	57	48	38

**25.0 HP**

V (ft/min) M/G	300 4/PL2	250 4/PL2	200 4/PL2
Belt Pull (lbf)	2612	3135	3920
Drum RPM	57	48	38

**20.0 HP**

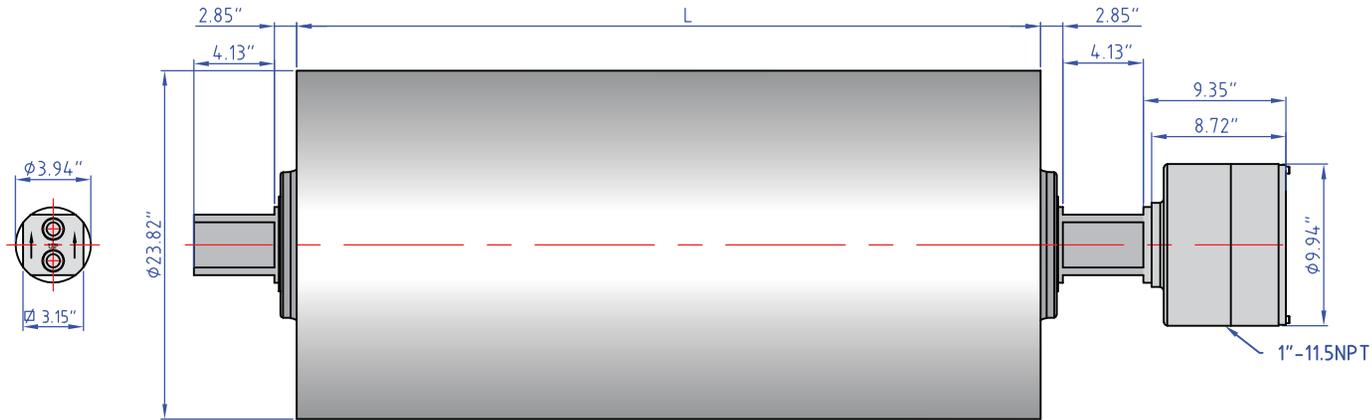
V (ft/min) M/G	200 6/PL2	160 6/PL2	130 6/PL2
Belt Pull (lbf)	3135	3920	4825
Drum RPM	38	31	25

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



TM600A100 Drum Motor (matching Idler KT630A100\*\*)



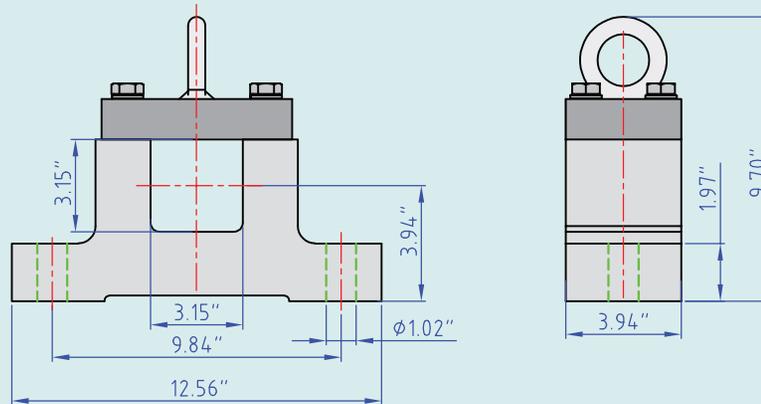
Standard drum motor face widths\* (L) in inches:

35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21	51.18	53.15	55.12	57.09
59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80	76.77	78.74	

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 500-AB-100



**TM600A100 Drum Motor**

**75.0 HP**

V (ft/min) M/G	925 4/S2	729 4/S2	578 4/S2	463 4/S2	364 4/PL2
Belt Pull (lbf)	2550	3235	4085	5000	6479
Drum RPM	148	117	93	74	58

**60.0 HP**

V (ft/min) M/G	463 4/S2	364 4/PL2	303 4/PL2
Belt Pull (lbf)	4076	5183	6220
Drum RPM	74	58	49

**50.0 HP**

V (ft/min) M/G	364 4/PL2	370 6/S2	303 4/PL2	243 4/PL2
Belt Pull (lbf)	4319	4251	5183	6479
Drum RPM	58	59	49	39

**40.0 HP**

V (ft/min) M/G	364 4/PL2	303 4/PL2	243 4/PL2
Belt Pull (lbf)	3455	4146	5183
Drum RPM	58	49	39

**30.0 HP**

V (ft/min) M/G	364 4/PL2	303 4/PL2	243 4/PL2
Belt Pull (lbf)	2592	3110	3887
Drum RPM	58	49	39

**25.0 HP**

V (ft/min) M/G	364 4/PL2	303 4/PL2	243 4/PL2
Belt Pull (lbf)	2160	2592	3239
Drum RPM	58	49	39

**20.0 HP**

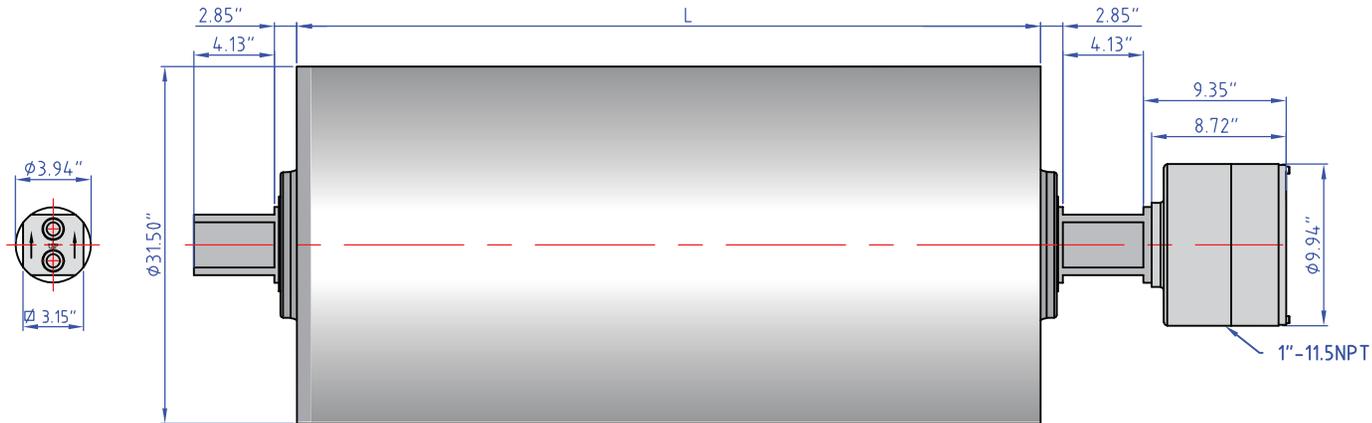
V (ft/min) M/G	243 6/PL2	182 6/PL2	146 6/PL2
Belt Pull (lbf)	2592	3455	4313
Drum RPM	39	29	23

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



TM800A100 Drum Motor (matching Idler KT800A100\*\*)



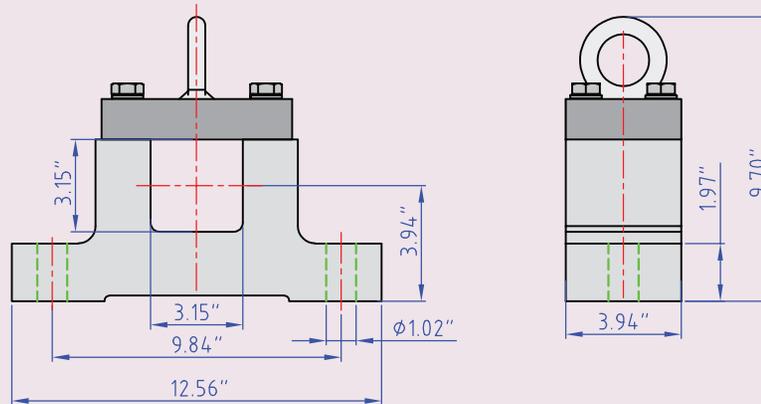
Standard drum motor face widths\* (L) in inches:

35.43	37.40	39.37	41.34	43.31	45.28	47.24	49.21	51.18	53.15	55.12	57.09
59.06	61.02	62.99	64.96	66.93	68.90	70.87	72.83	74.80	76.77	78.74	

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 500-AB-100



**TM800A100 Drum Motor**

**75.0 HP**

V (ft/min) M/G	1233 4/S2	972 4/S2	770 4/S2	640 2/PL2	480 4/PL2
Belt Pull (lbf)	1906	2418	3053	3674	4898
Drum RPM	150	118	93	78	58

**60.0 HP**

V (ft/min) M/G	960 2/PL2	800 2/PL2	617 2/S2	480 4/PL2	400 4/PL2
Belt Pull (lbf)	1959	2351	3047	3875	4688
Drum RPM	116	97	75	58	49

**50.0 HP**

V (ft/min) M/G	960 2/PL2	800 2/PL2	640 2/PL2	480 4/PL2	400 4/PL2	320 4/PL2
Belt Pull (lbf)	1633	1959	2449	3265	3919	4900
Drum RPM	116	97	78	58	49	39

**40.0 HP**

V (ft/min) M/G	480 4/PL2	400 4/PL2	320 4/PL2
Belt Pull (lbf)	2613	3125	3919
Drum RPM	58	49	39

**30.0 HP**

V (ft/min) M/G	480 4/PL2	400 4/PL2	320 4/PL2
Belt Pull (lbf)	1938	2350	2938
Drum RPM	58	49	39

**25.0 HP**

V (ft/min) M/G	480 4/PL2	400 4/PL2	320 4/PL2
Belt Pull (lbf)	1633	1959	2450
Drum RPM	58	49	39

**20.0 HP**

V (ft/min) M/G	320 6/PL2	256 6/PL2	208 6/PL2
Belt Pull (lbf)	1959	2449	3014
Drum RPM	39	31	25

V = Belt Speed (ft/min)

M/G = Motor/Gear Reducer Configuration (at rated horsepower)



TM800A130 Drum Motor (matching Idler KT800A130\*\*)



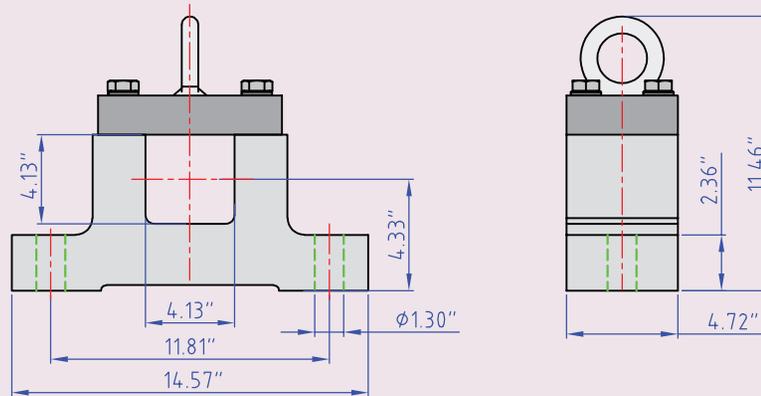
Standard drum motor face widths\* (L) in inches:

55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87
72.83	74.80	76.77	78.74					

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 800-AB-130



**TM800A130 Drum Motor**

**200.0 HP**

V (ft/min) M/G	1077 4/S2	914 4/S2	745 4/S2	690 4/PL2	585 4/PL2	480 4/PL2
Belt Pull (lbf)	5715	6736	8786	9087	10718	13063
Drum RPM	131	111	90	84	71	58

**180.0 HP**

V (ft/min) M/G	1077 4/S2	914 4/S2	745 4/S2
Belt Pull (lbf)	5144	6063	7908
Drum RPM	131	111	90

**150.0 HP**

V (ft/min) M/G	1077 4/S2	914 4/S2	745 4/S2	690 4/PL2	597 6/S2	480 4/PL2	458 6/S2	388 6/PL2	319 6/PL2
Belt Pull (lbf)	4287	5053	6590	6815	7620	9797	9950	12120	14741
Drum RPM	131	111	90	84	72	58	56	47	39

**125.0 HP**

V (ft/min) M/G	1091 6/S2	917 6/S2	703 6/S2	597 6/S2	458 6/S2
Belt Pull (lbf)	3462	4117	5369	6328	8253
Drum RPM	132	111	85	72	56

**100.0 HP**

V (ft/min) M/G	1091 6/S2	917 6/S2	703 6/S2	597 6/S2	458 6/S2
Belt Pull (lbf)	2885	3430	4474	5273	6878
Drum RPM	132	111	85	72	56

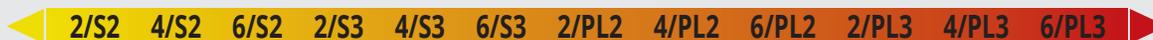
**75.0 HP**

V (ft/min) M/G	1091 6/S2	917 6/S2	703 6/S2	597 6/S2	458 6/S2
Belt Pull (lbf)	2116	2516	3281	3867	5044
Drum RPM	132	111	85	72	56

V = Belt Speed (ft/min)

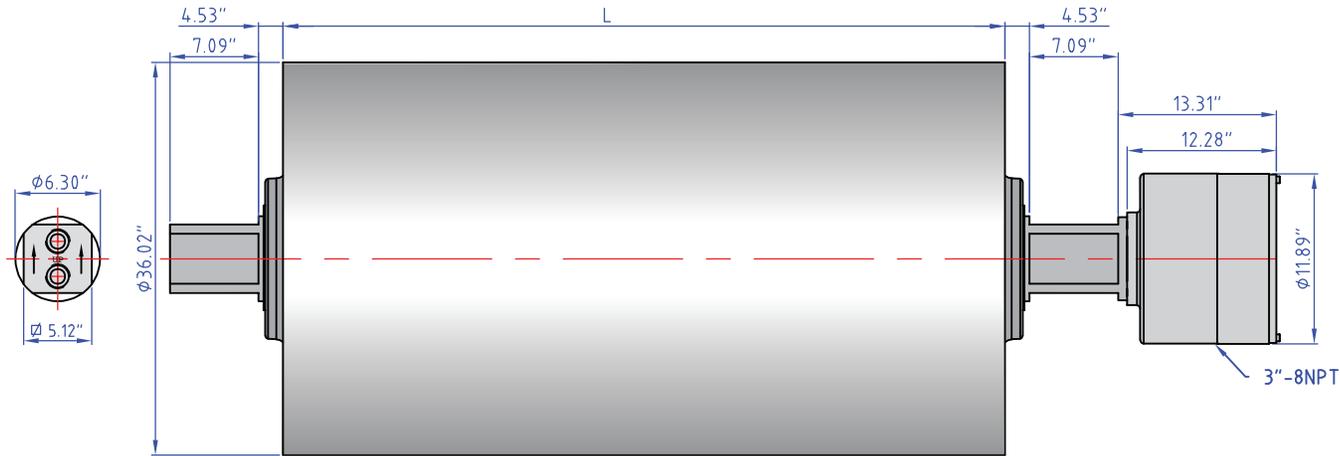
M/G = Motor/Gear Reducer Configuration (at rated horsepower)

High Speed  
Low Torque



Low Speed  
High Torque

TM915A160 Drum Motor (matching Idler KT915A160\*\*)



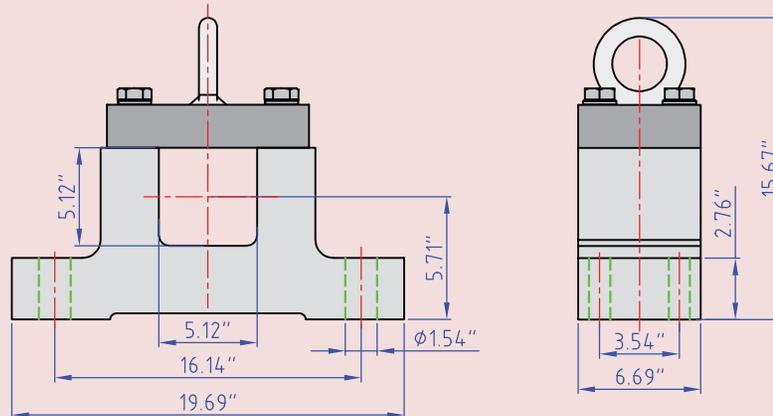
Standard drum motor face widths\* (L) in inches:

70.87 72.83 74.80 76.77 78.74

\*Some face widths are not available in all horsepower. For minimum available face widths refer to page 28.

\*\*Idler dimensions are identical to the drum motor with no junction box.

Brackets: 915-AB-160



**TM915A160 Drum Motor**

**500.0 HP**

V (ft/min) <b>M/G</b>	745 <b>4/PL2</b>	627 <b>4/PL2</b>	550 <b>4/PL2</b>
Belt Pull (lbf)	21483	25526	29100
Drum RPM	79	67	58

**400.0 HP**

V (ft/min) <b>M/G</b>	745 <b>4/PL2</b>	627 <b>4/PL2</b>	550 <b>4/PL2</b>
Belt Pull (lbf)	17187	20421	23280
Drum RPM	79	67	58

**350.0 HP**

V (ft/min) <b>M/G</b>	745 <b>4/PL2</b>	627 <b>4/PL2</b>	550 <b>4/PL2</b>
Belt Pull (lbf)	15024	17860	20370
Drum RPM	79	67	58

**300.0 HP**

V (ft/min) <b>M/G</b>	745 <b>4/PL2</b>	627 <b>4/PL2</b>	550 <b>4/PL2</b>
Belt Pull (lbf)	12890	15316	17460
Drum RPM	79	67	58

**250.0 HP**

V (ft/min) <b>M/G</b>	745 <b>4/PL2</b>	627 <b>4/PL2</b>	550 <b>4/PL2</b>
Belt Pull (lbf)	10742	12763	14550
Drum RPM	79	67	58

**250.0 HP**

V (ft/min) <b>M/G</b>	496 <b>6/PL2</b>	417 <b>6/PL2</b>	365 <b>6/PL2</b>
Belt Pull (lbf)	16202	19259	21966
Drum RPM	53	44	39

V = Belt Speed (ft/min)

**M/G** = Motor/Gear Reducer Configuration (at rated horsepower)



**TM315B50 /B60 /A75**

HP	15			10			7.5		5.0	
Motor/Gear Reducer	2/S2	2/S3	2/PL3	4/S2	4/S3	4/PL3	4/S2	4/S3	4/S2	4/S3
Minimum Face Width (L)	25.59	29.53	33.46	25.59	29.53	33.46	23.62	27.56	21.65	25.59

**TM400B60 / TM500A60**

HP	20	15	10	7.5		5.5		4.0	
Motor/Gear Reducer	4/S2	4/S2	4/S2	4/S2	6/S2	4/S2	6/S2	4/S2	
Minimum Face Width (L)	29.53	27.56	25.59	25.59	25.59	25.59	25.59	25.59	<b>Mechanical Backstop ADD 1.97" to Minimum Face Width</b>

**TM500A75**

HP	40	30	25	20
Motor/Gear Reducer	4/S2	4/S2	4/S2	4/S2
Minimum Face Width (L)	37.40	33.47	33.47	33.47

**TM500A100**

HP	75	60		50		40	30	25	20
Motor/Gear Reducer	2/PL2	2/PL2	4/PL2	2/PL2	4/PL2	4/PL2	4/PL2	4/PL2	6/PL2
Minimum Face Width (L)	43.31	43.31	39.37	43.31	39.37	39.37	35.43	35.43	35.43

**TM600A100 / TM800A100**

HP	75		60		50		40	30	25	20
Motor/Gear Reducer	4/S2	4/PL2	4/S2	4/PL2	4/PL2	6/S2	4/PL2	4/PL2	4/PL2	6/PL2
Minimum Face Width (L)	39.37	41.34	39.37	41.34	41.34	39.37	39.37	35.43	35.43	35.43

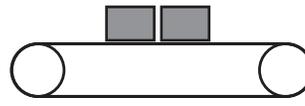
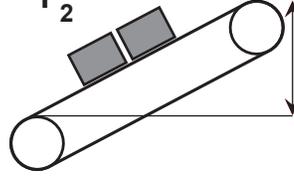
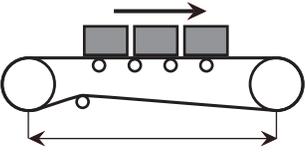
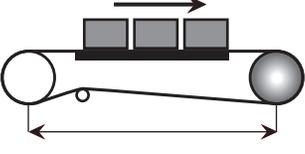
**TM800A130**

HP	200	180	150	120	100	75
Motor/Gear Reducer	4/S2	4/S2	4/S2	4/S2	4/S2	4/S2
Minimum Face Width (L)	55.12	55.12	55.12	55.12	55.12	55.12

**TM915A160**

HP	500	400	350	300	250	250
Motor/Gear Reducer	4/PL2	4/PL2	4/PL2	4/PL2	4/PL2	6/PL2
Minimum Face Width (L)	70.87	70.87	70.87	70.87	70.87	70.87

# BELT PULL CALCULATIONS

CONVEYING SYSTEM	$F_0$   <b>Force without Load</b>	$F_1$   <b>Force to Convey Materials Horizontally</b>	$F_2$   <b>Force to Convey Materials on Incline</b>	
<b>Roller Bed Conveyor</b>  	$F_0 = 0.04 (2P + Q) L$	$F_1 = 0.04 \times R \times L$	$F_2 = R \times H$	<p style="text-align: center;"><b>BELT PULL (BP)</b> <b>BP = (F<sub>0</sub> + F<sub>1</sub> + F<sub>2</sub>)</b></p> <p><b>F</b> = Force (lbs.)</p> <p><b>P</b> = Belt weight (lbs./linear ft.)</p> <p><b>Q</b> = Weight of rotating parts in pounds per foot of length of belt conveyor</p> <p><b>R</b> = Weight in pounds of conveyor product per foot of belt conveyor length</p> <p><b>C</b> = Co-efficient of friction between conveyor belt and top slider bed</p> <p><b>L</b> = Center to center length (feet)</p> <p><b>H</b> = Height (feet)</p>
<b>Slider Bed Conveyor</b>  	$F_0 = 1.1 \times P \times L \times C$	$F_1 = 1.1 \times R \times L \times C$	$F_2 = R \times H$	

Calculations:

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# HORSEPOWER TABLES FOR BULK CONVEYORS



**TABLE 1: Horsepower to Move Empty Belt** (for each 100 ft./min.)

Belt Width	30"	36"	42"	48"
<b>CONVEYING LENGTH (ft.)</b>	<b>HORSEPOWER (hp) (per 100 ft./min.)</b>			
50	0.64	0.8	0.96	1.16
100	0.8	1.0	1.2	1.5
200	1.1	1.4	1.7	2.2
300	1.4	1.8	2.2	2.8
400	1.8	2.2	2.6	3.4
500	2.1	2.6	3.1	4.0
600	2.4	3.0	3.6	4.6
800	3.1	3.8	4.5	5.8
1000	3.6	4.6	5.5	7.0
1400	5.2	6.5	7.9	10.4
2000	6.8	8.4	10.3	13.8
2500	8.4	10.3	12.7	17.2
3000	10.0	12.2	15.1	20.6
3500	11.6	14.1	17.5	24.0
4000	13.2	16.0	19.9	27.4
4500	14.8	17.9	22.3	30.8
5000	16.4	19.8	24.7	34.2
5500	18.0	21.7	27.1	37.6
6000	19.6	23.6	29.5	41.0
6500	21.2	25.5	31.9	44.4
7000	23.8	27.4	34.3	47.8
7500	25.4	29.3	36.7	51.2
8000	27.0	31.2	39.1	54.6
8500	28.6	33.1	41.5	58.0
9000	30.2	35.0	43.9	61.4
9500	31.8	36.9	46.3	64.8
10000	33.4	38.8	48.7	68.2

# HORSEPOWER TABLES FOR BULK CONVEYORS



**TABLE 2: Horsepower to Move Load Horizontally** (any speed, any material, any belt width)

TONS/HOUR CONVEYED	100	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000
CONVEYING LENGTH (ft.)	HORSEPOWER (hp)												
50	0.25	0.5	0.75	1.0	1.25	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
100	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
200	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
300	1.5	3.0	4.5	6.0	7.5	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0
400	2.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
500	2.5	5.0	7.5	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
600	3.0	6.0	9.0	12.0	15.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
800	4.0	8.0	12.0	16.0	20.0	24.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
1000	5.0	10.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
1400	7.5	15.0	22.5	30.0	37.5	45.0	60.0	75.0	90.0	105.0	120.0	135.0	150.0
2000	10.0	20.0	30.0	40.0	50.0	60.0	80.0	100.0	120.0	140.0	160.0	180.0	200.0
2500	12.5	25.0	37.5	50.0	62.5	75.0	100.0	125.0	150.0	175.0	200.0	225.0	250.0
3000	15.0	30.0	45.0	60.0	75.0	90.0	120.0	150.0	180.0	210.0	240.0	270.0	300.0
3500	17.5	35.0	52.5	70.0	87.5	105.0	140.0	175.0	210.0	245.0	280.0	315.0	350.0
4000	20.0	40.0	60.0	80.0	100.0	120.0	160.0	200.0	240.0	280.0	320.0	360.0	400.0
4500	22.5	45.0	67.5	90.0	112.0	135.0	180.0	225.0	270.0	315.0	360.0	405.0	450.0
5000	25.0	50.0	75.0	100.0	125.0	150.0	200.0	250.0	300.0	350.0	400.0	450.0	500.0
5500	27.5	55.5	82.5	110.0	137.5	165.0	220.0	275.0	330.0	385.0	440.0	495.0	550.0
6000	30.0	60.0	90.0	120.0	150.0	180.0	240.0	300.0	360.0	420.0	480.0	540.0	600.0
6500	32.5	65.0	97.5	130.0	162.5	195.0	260.0	325.0	390.0	455.0	520.0	585.0	650.0
7000	35.0	70.0	105.0	140.0	175.0	210.0	280.0	350.0	420.0	495.0	560.0	630.0	700.0
7500	37.5	75.0	112.5	150.0	187.5	225.0	300.0	375.0	450.0	525.0	600.0	675.0	750.0
8000	40.0	80.0	120.0	160.0	200.0	240.0	320.0	400.0	480.0	560.0	640.0	720.0	800.0
8500	42.5	85.0	127.5	170.0	212.5	255.0	340.0	425.0	510.0	595.0	680.0	765.0	850.0
9000	45.0	90.0	135.0	180.0	225.0	270.0	360.0	450.0	540.0	630.0	720.0	810.0	900.0
9500	47.5	95.0	142.5	190.0	237.5	285.0	380.0	475.0	570.0	665.0	760.0	855.0	950.0
10000	50.0	100.0	160.0	200.0	250.0	300.0	400.0	500.0	600.0	700.0	800.0	900.0	1000.0

# HORSEPOWER TABLES FOR BULK CONVEYORS



**TABLE 3: Horsepower to Lift Load Vertically - Negative for Downhill Conveyors** (any speed, any material, any belt width)

TONS/HOUR CONVEYED	100	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000
LIFT (ft.)	HORSEPOWER (hp)												
10	1.14	2.28	3.42	4.56	5.7	6.84	9.12	11.4	13.68	15.96	18.24	20.52	22.8
20	2.28	4.56	6.84	9.12	11.4	13.68	18.24	22.8	27.36	31.92	36.48	41.04	45.6
30	3.42	6.84	10.26	13.68	17.1	20.52	27.36	34.2	41.04	47.88	54.72	61.56	68.4
40	4.56	9.12	13.68	18.24	22.8	27.36	36.38	45.6	54.72	63.84	72.96	82.08	91.2
50	5.7	11.4	17.1	22.8	28.5	34.2	45.6	57.0	68.4	79.8	91.2	102.6	114.0
60	6.84	13.68	20.52	27.36	34.2	41.04	54.72	68.4	82.08	95.76	109.4	123.1	136.8
70	7.98	15.96	23.94	31.92	39.9	47.88	63.84	79.8	95.76	111.7	127.7	143.6	159.6
80	9.12	18.24	27.36	36.48	45.6	54.72	72.96	91.2	109.4	127.7	145.9	164.2	182.4
90	10.26	20.52	30.78	41.04	51.3	61.56	82.08	102.6	123.1	143.6	164.2	184.7	205.2
100	11.4	22.8	34.2	45.6	57.0	68.4	91.2	114.0	136.8	159.6	182.4	205.2	228.0
150	17.1	34.2	51.3	68.4	85.5	102.6	136.8	171.0	205.2	239.4	273.6	307.8	342.0
200	22.8	45.6	68.4	91.2	114.0	136.8	182.4	228.0	273.6	319.2	364.8	410.4	456.0
250	28.5	57.0	85.5	114.0	142.5	171.0	228.0	285.0	342.0	399.0	456.0	513.0	570.0
300	34.2	68.4	102.6	136.8	171.0	205.2	273.6	342.0	410.4	478.8	547.2	615.6	684.0
350	39.9	79.8	119.6	159.6	200.0	239.4	319.2	399.0	478.8	558.5	638.4	718.0	798.0
400	45.6	91.2	136.8	182.4	228.0	273.6	364.8	456.0	547.2	638.4	729.6	820.8	912.0
450	51.3	102.6	153.9	205.4	256.5	307.8	410.4	513.0	615.6	718.0	820.0	923.5	1026.0
500	57.0	114.0	171.0	228.0	285.0	342.0	456.0	570.0	684.0	798.0	912.0	1026.0	1140.0
600	68.4	136.8	205.2	273.6	342.0	410.4	547.2	684.0	820.8	957.6	1094.0	1231.0	1368.0
700	79.8	159.6	239.4	319.2	399.0	478.8	638.4	798.0	957.6	1117.0	1277.0	1436.0	1596.0
800	91.2	182.4	273.6	364.8	456.0	547.2	729.6	912.0	1094.0	1277.0	1459.0	1642.0	1824.0
900	102.6	205.2	307.8	410.4	513.0	615.6	820.8	1026.0	1231.0	1436.0	1642.0	1847.0	2052.0
1000	114.0	228.0	342.0	456.0	570.0	684.0	912.0	1140.0	1368.0	1596.0	1824.0	2052.0	2280.0





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