

# TM500A60 SERIES (20.0" diameter)



## SPECIFICATIONS

<b>TM500A60 - 420</b>		<b>(20.0 HP 1740 RPM)</b>				<b>Minimum Face Width (L): DESIGN A = 27.56"</b>								<b>WEIGHT = 773.80 LBS. @ L=25.59"</b>	
<b>V</b> (ft/min)	<b>1111</b>	<b>802</b>	<b>741</b>	<b>670</b>	<b>628</b>	<b>527</b>	<b>484</b>	<b>444</b>	<b>384</b>	<b>319</b>	<b>268</b>	<b>232</b>	<b>192</b>		
<b>NLV</b> (ft/min)	<b>1143</b>	<b>826</b>	<b>762</b>	<b>689</b>	<b>646</b>	<b>542</b>	<b>498</b>	<b>457</b>	<b>395</b>	<b>328</b>	<b>276</b>	<b>238</b>	<b>198</b>		
<b>BP</b> (lbs)	<b>595</b>	<b>823</b>	<b>892</b>	<b>986</b>	<b>1052</b>	<b>1254</b>	<b>1365</b>	<b>1488</b>	<b>1721</b>	<b>2072</b>	<b>2466</b>	<b>2853</b>	<b>3435</b>		
<b>T</b> ' lbs.	<b>489</b>	<b>677</b>	<b>733</b>	<b>811</b>	<b>865</b>	<b>1301</b>	<b>1123</b>	<b>1224</b>	<b>1416</b>	<b>1704</b>	<b>2028</b>	<b>2347</b>	<b>2825</b>		
<b>WITH 0.25" LAGGING</b>															
<b>V</b> (ft/min)	<b>1139</b>	<b>823</b>	<b>760</b>	<b>687</b>	<b>644</b>	<b>540</b>	<b>496</b>	<b>455</b>	<b>394</b>	<b>327</b>	<b>275</b>	<b>237</b>	<b>197</b>		
<b>NLV</b> (ft/min)	<b>1172</b>	<b>846</b>	<b>782</b>	<b>707</b>	<b>663</b>	<b>556</b>	<b>511</b>	<b>469</b>	<b>405</b>	<b>336</b>	<b>283</b>	<b>244</b>	<b>203</b>		
<b>BP</b> (lbs)	<b>580</b>	<b>803</b>	<b>870</b>	<b>962</b>	<b>1026</b>	<b>1223</b>	<b>1331</b>	<b>1451</b>	<b>1679</b>	<b>2021</b>	<b>2405</b>	<b>2783</b>	<b>3350</b>		
<b>T</b> ' lbs.	<b>489</b>	<b>677</b>	<b>733</b>	<b>811</b>	<b>865</b>	<b>1031</b>	<b>1123</b>	<b>1224</b>	<b>1416</b>	<b>1704</b>	<b>2028</b>	<b>2347</b>	<b>2825</b>		
<b>TM500A60 - 415</b>		<b>(15.0 HP 1740 RPM)</b>				<b>Minimum Face Width (L): DESIGN A = 25.59"</b>								<b>WEIGHT = 763.50 LBS. @ L=25.59"</b>	
<b>V</b> (ft/min)	<b>1111</b>	<b>802</b>	<b>741</b>	<b>670</b>	<b>628</b>	<b>527</b>	<b>484</b>	<b>444</b>	<b>384</b>	<b>319</b>	<b>268</b>	<b>232</b>	<b>192</b>		
<b>NLV</b> (ft/min)	<b>1143</b>	<b>826</b>	<b>762</b>	<b>689</b>	<b>646</b>	<b>542</b>	<b>498</b>	<b>457</b>	<b>395</b>	<b>328</b>	<b>276</b>	<b>238</b>	<b>198</b>		
<b>BP</b> (lbs)	<b>446</b>	<b>618</b>	<b>669</b>	<b>740</b>	<b>789</b>	<b>940</b>	<b>1024</b>	<b>1116</b>	<b>1291</b>	<b>1554</b>	<b>1849</b>	<b>2140</b>	<b>2576</b>		
<b>T</b> ' lbs.	<b>367</b>	<b>508</b>	<b>550</b>	<b>608</b>	<b>649</b>	<b>773</b>	<b>842</b>	<b>918</b>	<b>1062</b>	<b>1278</b>	<b>1521</b>	<b>1760</b>	<b>2119</b>		
<b>WITH 0.25" LAGGING</b>															
<b>V</b> (ft/min)	<b>1139</b>	<b>823</b>	<b>760</b>	<b>687</b>	<b>644</b>	<b>540</b>	<b>496</b>	<b>455</b>	<b>394</b>	<b>327</b>	<b>275</b>	<b>237</b>	<b>197</b>		
<b>NLV</b> (ft/min)	<b>1172</b>	<b>846</b>	<b>782</b>	<b>707</b>	<b>663</b>	<b>556</b>	<b>511</b>	<b>469</b>	<b>405</b>	<b>336</b>	<b>283</b>	<b>244</b>	<b>203</b>		
<b>BP</b> (lbs)	<b>435</b>	<b>602</b>	<b>652</b>	<b>721</b>	<b>769</b>	<b>917</b>	<b>998</b>	<b>1088</b>	<b>1259</b>	<b>1516</b>	<b>1804</b>	<b>2087</b>	<b>2512</b>		
<b>T</b> ' lbs.	<b>367</b>	<b>508</b>	<b>550</b>	<b>608</b>	<b>649</b>	<b>773</b>	<b>842</b>	<b>918</b>	<b>1062</b>	<b>1278</b>	<b>1521</b>	<b>1760</b>	<b>2119</b>		
<b>TM500A60 - 410</b>		<b>(10.0 HP 1740 RPM)</b>				<b>Minimum Face Width (L): DESIGN A = 23.62"</b>								<b>WEIGHT = 745.10 LBS. @ L=25.59"</b>	
<b>V</b> (ft/min)	<b>1111</b>	<b>802</b>	<b>741</b>	<b>670</b>	<b>628</b>	<b>527</b>	<b>484</b>	<b>444</b>	<b>384</b>	<b>319</b>	<b>268</b>	<b>232</b>	<b>192</b>		
<b>NLV</b> (ft/min)	<b>1143</b>	<b>826</b>	<b>762</b>	<b>689</b>	<b>646</b>	<b>542</b>	<b>498</b>	<b>457</b>	<b>395</b>	<b>328</b>	<b>276</b>	<b>238</b>	<b>198</b>		
<b>BP</b> (lbs)	<b>297</b>	<b>412</b>	<b>446</b>	<b>493</b>	<b>526</b>	<b>627</b>	<b>682</b>	<b>744</b>	<b>861</b>	<b>1036</b>	<b>1233</b>	<b>1427</b>	<b>1717</b>		
<b>T</b> ' lbs.	<b>245</b>	<b>339</b>	<b>367</b>	<b>406</b>	<b>433</b>	<b>516</b>	<b>561</b>	<b>612</b>	<b>708</b>	<b>852</b>	<b>1014</b>	<b>1173</b>	<b>1413</b>		
<b>WITH 0.25" LAGGING</b>															
<b>V</b> (ft/min)	<b>1139</b>	<b>823</b>	<b>760</b>	<b>687</b>	<b>644</b>	<b>540</b>	<b>496</b>	<b>455</b>	<b>394</b>	<b>327</b>	<b>275</b>	<b>237</b>	<b>197</b>		
<b>NLV</b> (ft/min)	<b>1172</b>	<b>846</b>	<b>782</b>	<b>707</b>	<b>663</b>	<b>556</b>	<b>511</b>	<b>469</b>	<b>405</b>	<b>336</b>	<b>283</b>	<b>244</b>	<b>203</b>		
<b>BP</b> (lbs)	<b>290</b>	<b>402</b>	<b>435</b>	<b>481</b>	<b>513</b>	<b>611</b>	<b>666</b>	<b>725</b>	<b>839</b>	<b>1010</b>	<b>1202</b>	<b>1391</b>	<b>1675</b>		
<b>T</b> ' lbs.	<b>245</b>	<b>339</b>	<b>367</b>	<b>406</b>	<b>433</b>	<b>516</b>	<b>561</b>	<b>612</b>	<b>708</b>	<b>852</b>	<b>1014</b>	<b>1173</b>	<b>1413</b>		
<b>TM500A60 - 475</b>		<b>(7.5 HP 1740 RPM)</b>				<b>Minimum Face Width (L): DESIGN A = 23.62"</b>								<b>WEIGHT = 734.10 LBS. @ L=25.59"</b>	
<b>V</b> (ft/min)	<b>670</b>	<b>484</b>	<b>379</b>	<b>286</b>	<b>268</b>	<b>232</b>	<b>192</b>								
<b>NLV</b> (ft/min)	<b>689</b>	<b>498</b>	<b>390</b>	<b>294</b>	<b>276</b>	<b>238</b>	<b>198</b>								
<b>BP</b> (lbs)	<b>370</b>	<b>512</b>	<b>654</b>	<b>867</b>	<b>925</b>	<b>1070</b>	<b>1288</b>								
<b>T</b> ' lbs.	<b>304</b>	<b>421</b>	<b>538</b>	<b>713</b>	<b>761</b>	<b>880</b>	<b>1059</b>								

V = Velocity NLV = No Load Velocity BP = Belt Pull T = Torque RPM = Internal Electric Motor RPM

**NOTE:** Total weight of the unit increases by 10.64 lbs. per inch above 25.59 inches.

All drum motors are available in all standard voltages and are electrically reversible. Other belt speeds and face widths are available. Please consult Van der Graaf.

# TM500A60 SERIES (20.0" diameter)



## SPECIFICATIONS

### WITH 0.25" LAGGING

V (ft/min)	687	496	389	293	275	237	197
NLV (ft/min)	707	511	400	302	283	244	203
BP (lbs)	361	499	638	845	902	1044	1256
T' lbs.	304	421	538	713	761	880	1059

### TM500A60 - 675 (7.5 HP 1150 RPM) Minimum Face Width (L): DESIGN A = 23.62" WEIGHT = 734.10 LBS. @ L=25.59"

V (ft/min)	447	323	253	191	179	154	128
NLV (ft/min)	460	332	260	196	184	159	132
BP (lbs)	555	768	981	1300	1387	1605	1932
T' lbs.	456	632	807	1070	1141	1320	1589

### WITH 0.25" LAGGING

V (ft/min)	458	331	259	195	183	158	131
NLV (ft/min)	471	340	266	201	188	163	135
BP (lbs)	541	749	957	1268	1353	1565	1884
T' lbs.	456	632	807	1070	1141	1320	1589

### TM500A60 - 455 (5.5 HP 1740 RPM) Minimum Face Width (L): DESIGN A = 23.62" WEIGHT = 723.10 LBS. @ L=25.59"

V (ft/min)	670	484	379	286	268	232	192
NLV (ft/min)	689	498	390	294	276	238	198
BP (lbs)	271	375	479	636	678	785	944
T' lbs.	223	309	394	523	558	645	777

### WITH 0.25" LAGGING

V (ft/min)	687	496	389	293	275	237	197
NLV (ft/min)	707	511	400	302	283	244	203
BP (lbs)	264	366	468	620	661	765	921
T' lbs.	223	309	394	523	558	645	777

### TM500A60 - 655 (5.5 HP 1150 RPM) Minimum Face Width (L): DESIGN A = 23.62" WEIGHT = 723.10 LBS. @ L=25.59"

V (ft/min)	447	323	253	191	179	154	128
NLV (ft/min)	460	332	260	196	184	159	132
BP (lbs)	407	563	719	954	1017	1177	1417
T' lbs.	335	463	592	784	837	968	1165

### WITH 0.25" LAGGING

V (ft/min)	458	331	259	195	183	158	131
NLV (ft/min)	471	340	266	201	188	163	135
BP (lbs)	397	549	701	930	992	1148	1382
T' lbs.	335	463	592	784	837	968	1165

V = Velocity NLV = No Load Velocity BP = Belt Pull T = Torque RPM = Internal Electric Motor RPM

**NOTE:** Total weight of the unit increases by 10.64 lbs. per inch above 25.59 inches.

All drum motors are available in all standard voltages and are electrically reversible. Other belt speeds and face widths are available. Please consult Van der Graaf.