

# TM113 SERIES (4.5" diameter)



## SPECIFICATIONS

**TM113 - 205 (0.5 HP 3400 RPM) Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 34.10 LBS. @ L=10.24"**

<b>V (ft/min)</b>	<b>1031</b>	<b>924</b>	<b>739</b>	<b>657</b>	<b>582</b>
<b>NLV (ft/min)</b>	<b>1144</b>	<b>1025</b>	<b>819</b>	<b>729</b>	<b>646</b>
<b>BP (lbs)</b>	<b>16</b>	<b>18</b>	<b>22</b>	<b>25</b>	<b>28</b>
<b>T' lbs.</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5</b>

**WITH 0.25" LAGGING**

<b>V (ft/min)</b>	<b>1147</b>	<b>1028</b>	<b>821</b>	<b>731</b>	<b>648</b>
<b>NLV (ft/min)</b>	<b>1272</b>	<b>1140</b>	<b>911</b>	<b>810</b>	<b>718</b>
<b>BP (lbs)</b>	<b>14</b>	<b>16</b>	<b>20</b>	<b>23</b>	<b>25</b>
<b>T' lbs.</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5</b>

**TM113 - 405 (0.5 HP 1740 RPM) Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 34.10 LBS. @ L=10.24"**

<b>V (ft/min)</b>	<b>516</b>	<b>462</b>	<b>369</b>	<b>329</b>	<b>291</b>	<b>257</b>	<b>225</b>	<b>176</b>	<b>136</b>	<b>200</b>	<b>177</b>	<b>168</b>	<b>149</b>	<b>125</b>	<b>120</b>	<b>105</b>	<b>93</b>	<b>78</b>
<b>NLV (ft/min)</b>	<b>572</b>	<b>513</b>	<b>409</b>	<b>364</b>	<b>323</b>	<b>285</b>	<b>249</b>	<b>195</b>	<b>151</b>	<b>222</b>	<b>197</b>	<b>187</b>	<b>165</b>	<b>139</b>	<b>133</b>	<b>117</b>	<b>104</b>	<b>87</b>
<b>BP (lbs)</b>	<b>32</b>	<b>36</b>	<b>45</b>	<b>50</b>	<b>57</b>	<b>64</b>	<b>73</b>	<b>94</b>	<b>121</b>	<b>82</b>	<b>93</b>	<b>98</b>	<b>111</b>	<b>132</b>	<b>138</b>	<b>157</b>	<b>177</b>	<b>211</b>
<b>T' lbs.</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>17</b>	<b>22</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>21</b>	<b>24</b>	<b>26</b>	<b>29</b>	<b>33</b>	<b>39</b>

Continued ...

<b>V ((ft/min)</b>	<b>63</b>
<b>NLV (ft/min)</b>	<b>70</b>
<b>BP (lbs)</b>	<b>261</b>
<b>T' lbs.</b>	<b>49</b>

**WITH 0.25" LAGGING**

<b>V (ft/min)</b>	<b>573</b>	<b>514</b>	<b>411</b>	<b>365</b>	<b>324</b>	<b>285</b>	<b>250</b>	<b>195</b>	<b>152</b>	<b>223</b>	<b>197</b>	<b>187</b>	<b>165</b>	<b>139</b>	<b>133</b>	<b>117</b>	<b>104</b>	<b>87</b>
<b>NLV (ft/min)</b>	<b>636</b>	<b>570</b>	<b>455</b>	<b>405</b>	<b>359</b>	<b>316</b>	<b>277</b>	<b>216</b>	<b>168</b>	<b>247</b>	<b>219</b>	<b>208</b>	<b>183</b>	<b>154</b>	<b>148</b>	<b>130</b>	<b>115</b>	<b>96</b>
<b>BP (lbs)</b>	<b>29</b>	<b>32</b>	<b>40</b>	<b>45</b>	<b>51</b>	<b>58</b>	<b>66</b>	<b>85</b>	<b>109</b>	<b>74</b>	<b>84</b>	<b>88</b>	<b>100</b>	<b>119</b>	<b>124</b>	<b>141</b>	<b>159</b>	<b>190</b>
<b>T' lbs.</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>17</b>	<b>22</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>21</b>	<b>24</b>	<b>26</b>	<b>29</b>	<b>33</b>	<b>39</b>

Continued ...

<b>V ((ft/min)</b>	<b>70</b>
<b>NLV (ft/min)</b>	<b>78</b>
<b>BP (lbs)</b>	<b>235</b>
<b>T' lbs.</b>	<b>49</b>

**TM113 - 234 (0.34 HP 3400 RPM) Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 34.10 LBS. @ L=10.24"**

<b>V (ft/min)</b>	<b>1031</b>	<b>924</b>	<b>739</b>	<b>657</b>	<b>582</b>
<b>NLV (ft/min)</b>	<b>1144</b>	<b>1025</b>	<b>819</b>	<b>729</b>	<b>646</b>
<b>BP (lbs)</b>	<b>11</b>	<b>12</b>	<b>15</b>	<b>17</b>	<b>19</b>
<b>T' lbs.</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</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 1.0 lbs. per inch above 10.24 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.*

# TM113 SERIES (4.5" diameter)



## SPECIFICATIONS

### WITH 0.25" LAGGING

V (ft/min)	1147	1028	821	731	648
NLV (ft/min)	1272	1140	911	810	718
BP (lbs)	10	11	14	15	17
T' lbs.	2	2	3	3	4

### TM113 - 434 (0.34 HP 1740 RPM) Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 34.10 LBS. @ L=10.24"

V (ft/min)	516	462	369	329	291	257	225	200	177	168	149	125	120	105	93	78	63	**49
NLV (ft/min)	572	513	409	364	323	285	249	222	197	187	165	139	133	117	104	87	70	55
BP (lbs)	22	24	30	34	39	44	50	56	63	67	75	90	94	107	120	144	178	228
T' lbs.	4	5	6	6	7	8	9	10	12	12	14	17	17	20	22	27	33	42

Continued ...

V ((ft/min)	**41	**37	**31	**26	**23	**19	**15
NLV (ft/min)	46	41	34	29	25	21	17
BP (lbs)	271	274	274	274	274	274	274
T' lbs.	50	50	50	50	50	50	50

### WITH 0.25" LAGGING

V (ft/min)	573	514	411	365	324	285	250	223	197	187	165	139	133	117	104	87	70	**55
NLV (ft/min)	636	570	455	405	359	316	277	247	219	208	183	154	148	130	115	96	78	61
BP (lbs)	19	22	26	31	35	39	45	50	57	60	68	81	84	96	108	129	160	205
T' lbs.	4	5	6	6	7	8	9	10	12	12	14	17	17	20	22	27	33	42

Continued ...

V ((ft/min)	**46	**41	**34	**29	**26	**21	**17
NLV (ft/min)	51	45	38	32	28	24	19
BP (lbs)	243	274	274	274	274	274	274
T' lbs.	50	50	50	50	50	50	50

### TM113 - 425 (0.25 HP 1750 RPM) Minimum Face Width (L): DESIGN B = 10.83" WEIGHT = 34.10 LBS. @ L=10.24"

V (ft/min)	369	329	291	258	225	200	177	168	149	125	120	105	93	78	63	**49	**41	**37
NLV (ft/min)	409	364	323	285	249	222	197	187	165	139	133	117	104	87	70	55	46	41
BP (lbs)	22	25	28	32	37	41	46	49	55	66	69	78	88	106	131	167	199	224
T' lbs.	4	5	5	6	7	8	9	9	10	12	13	15	16	20	24	31	37	42

Continued ...

V ((ft/min)	**31	**26	**23	**19	**15
NLV (ft/min)	34	29	25	21	17
BP (lbs)	268	274	274	274	274
T' lbs.	50	50	50	50	50

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

\*\*Slow speed 3 stage planetary gearing; Minimum Face Width & Weight increases for units with planetary gearing, contact Van der Graaf for these values.

**NOTE:** Total weight of the unit increases by 1.0 lbs. per inch above 10.24 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.

# TM113 SERIES (4.5" diameter)



## SPECIFICATIONS

### WITH 0.25" LAGGING

V (ft/min)	411	365	325	285	250	223	197	187	165	139	133	117	104	87	70	**55	**46	**41
NLV (ft/min)	455	405	359	316	277	247	219	208	183	154	148	130	115	96	78	61	51	45
BP (lbs)	20	22	25	29	33	37	42	44	50	59	62	70	79	95	117	151	179	207
T' lbs.	4	5	5	6	7	8	9	9	10	12	13	15	16	20	24	31	37	42

Continued ...

V (ft/min)	**34	**29	**26	**21	**17													
NLV (ft/min)	38	32	28	24	19													
BP (lbs)	241	274	274	274	274													
T' lbs.	50	50	50	50	50													

### TM113 - 625 (0.25 HP 1125 RPM) Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 34.10 LBS. @ L=10.24"

V (ft/min)	219	194	171	150	133	118	112	99	83	80	70	62	52	42	**33	**28	**24	**21
NLV (ft/min)	243	215	190	166	148	131	125	110	93	89	78	69	58	47	36	31	27	23
BP (lbs)	38	42	48	55	62	70	73	83	99	103	118	133	158	196	251	274	274	274
T' lbs.	7	8	9	10	11	13	14	15	18	19	22	25	29	36	47	50	50	50

Continued ...

V (ft/min)	**17	**15	**13	**10														
NLV (ft/min)	19	17	14	11														
BP (lbs)	274	274	274	274														
T' lbs.	50	50	50	50														

### WITH 0.25" LAGGING

V (ft/min)	244	216	190	167	148	132	125	110	93	89	78	69	58	47	**37	**31	**27	**23
NLV (ft/min)	270	239	211	185	164	146	138	122	103	99	87	77	64	52	40	34	30	25
BP (lbs)	34	38	43	50	56	63	66	75	89	93	106	119	142	176	226	268	274	274
T' lbs.	7	8	9	10	11	13	14	15	18	19	22	25	29	36	47	50	50	50

Continued ...

V (ft/min)	**19	**17	**14	**11														
NLV (ft/min)	21	19	16	13														
BP (lbs)	274	274	274	274														
T' lbs.	50	50	50	50														

### TM113 - 416 (0.16 HP 1740 RPM) Minimum Face Width (L): DESIGN B = 10.24" WEIGHT = 34.10 LBS. @ L=10.24"

V (ft/min)	257	225	200	177	168	149	125	120	105	93	78	63	**49	**41	**37	**31	**26	**23
NLV (ft/min)	285	249	222	197	187	165	139	133	117	104	87	70	55	46	41	34	29	25
BP (lbs)	21	23	26	30	31	35	42	44	50	57	68	83	107	127	144	171	204	230
T' lbs.	4	4	5	5	6	7	8	8	9	10	12	16	20	24	27	32	38	43

Continued ...

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

\*\*Slow speed 3 stage planetary gearing; Minimum Face Width & Weight increases for units with planetary gearing, contact Van der Graaf for these values.

**NOTE:** Total weight of the unit increases by 1.0 lbs. per inch above 10.24 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.

# TM113 SERIES (4.5" diameter)



## SPECIFICATIONS

Continued ... TM113-416 (0.16 HP 1740 RPM)

V (ft/min)	**19	**15
NLV (ft/min)	21	17
BP (lbs)	274	274
T' lbs.	50	50

**WITH 0.25" LAGGING**

V (ft/min)	285	250	223	197	187	165	139	133	117	104	87	70	**55	**46	**41	**34	**29	**26
NLV (ft/min)	316	277	247	219	208	183	154	148	130	115	96	78	61	51	45	38	32	28
BP (lbs)	18	21	23	27	28	32	38	40	45	51	61	75	96	114	129	154	183	207
T' lbs.	4	4	5	5	6	7	8	8	9	10	12	16	20	24	27	32	38	43

Continued ...

V ((ft/min)	**21	**17
NLV (ft/min)	24	19
BP (lbs)	247	274
T' lbs.	50	50

**TM113 - 816 (0.16 HP 850 RPM)**

Minimum Face Width (L): DESIGN B = 12.20" WEIGHT = 37.10 LBS. @ L=10.24"

V (ft/min)	100	89	84	74	63	60	53	47	39	32	**25	**21	**18	**15	**13	**11	**10	**8
NLV (ft/min)	111	98	93	82	69	67	58	52	43	35	27	23	20	17	14	13	11	9
BP (lbs)	53	60	63	71	84	88	100	113	135	167	214	255	274	274	274	274	274	274
T' lbs.	10	11	12	13	15	16	19	21	25	31	40	47	50	50	50	50	50	50

**WITH 0.25" LAGGING**

V (ft/min)	111	99	94	83	70	67	58	52	43	35	**27	**23	**20	**17	**14	**13	**11	**9
NLV (ft/min)	123	109	104	92	77	74	65	58	48	39	30	26	23	19	16	14	12	10
BP (lbs)	47	54	56	64	76	79	90	102	122	150	193	229	258	274	274	274	274	274
T' lbs.	10	11	12	13	15	16	19	21	25	31	40	47	50	50	50	50	50	50

**TM113 - 811 (0.11 HP 850 RPM)**

Minimum Face Width (L): DESIGN B = 14.17" WEIGHT = 37.10 LBS. @ L=10.24"

V (ft/min)	74	63	53	47	39	32	**25	**21	**18	**15	**13	**11	**10	**8
NLV (ft/min)	82	69	58	52	43	35	27	23	20	17	14	13	11	9
BP (lbs)	49	58	69	78	93	115	147	175	197	236	274	274	274	274
T' lbs.	9	11	13	14	17	21	27	33	37	44	50	50	50	50

**WITH 0.25" LAGGING**

V (ft/min)	83	70	59	52	43	35	**27	**23	**20	**17	**14	**13	**11	**9
NLV (ft/min)	92	77	65	58	48	39	30	26	23	19	16	14	12	10
BP (lbs)	44	52	62	70	84	103	133	157	177	212	252	274	274	274
T' lbs.	9	11	13	14	17	21	27	33	37	44	50	50	50	50

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

\*\*Slow speed 3 stage planetary gearing; Minimum Face Width & Weight increases for units with planetary gearing, contact Van der Graaf for these values.

**NOTE:** Total weight of the unit increases by 1.0 lbs. per inch above 10.24 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.