

# 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"			
V (ft/min)	1031	924	739	657	582														
NLV (ft/min)	1144	1025	819	729	646														
BP (lbs)	16	18	22	25	28														
T' lbs.	3	3	4	5	5														
<b>WITH 0.25" LAGGING</b>																			
V (ft/min)	1147	1028	821	731	648														
NLV (ft/min)	1272	1140	911	810	718														
BP (lbs)	14	16	20	23	25														
T' lbs.	3	3	4	5	5														
TM113 - 405 (0.5 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	176	136	200	177	168	149	125	120	105	93	78	
NLV (ft/min)	572	513	409	364	323	285	249	195	151	222	197	187	165	139	133	117	104	87	
BP (lbs)	32	36	45	50	57	64	73	94	121	82	93	98	111	132	138	157	177	211	
T' lbs.	6	7	8	9	11	12	14	17	22	15	17	18	21	24	26	29	33	39	
<i>Continued ...</i>																			
V ((ft/min)	63																		
NLV (ft/min)	70																		
BP (lbs)	261																		
T' lbs.	49																		
<b>WITH 0.25" LAGGING</b>																			
V (ft/min)	573	514	411	365	324	285	250	195	152	223	197	187	165	139	133	117	104	87	
NLV (ft/min)	636	570	455	405	359	316	277	216	168	247	219	208	183	154	148	130	115	96	
BP (lbs)	29	32	40	45	51	58	66	85	109	74	84	88	100	119	124	141	159	190	
T' lbs.	6	7	8	9	11	12	14	17	22	15	17	18	21	24	26	29	33	39	
<i>Continued ...</i>																			
V ((ft/min)	70																		
NLV (ft/min)	78																		
BP (lbs)	235																		
T' lbs.	49																		
TM113 - 234 (0.34 HP 3400 RPM)						Minimum Face Width (L): DESIGN B = 12.20"										WEIGHT = 34.10 LBS. @ L=10.24"			
V (ft/min)	1031	924	739	657	582														
NLV (ft/min)	1144	1025	819	729	646														
BP (lbs)	11	12	15	17	19														
T' lbs.	2	2	3	3	4														

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: +1 905 793-8100**.



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(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: +1 905 793-8100.



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# (4.5" diameter)

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### 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.

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# 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.

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