

TM138 SERIES (5.4" diameter)



SPECIFICATIONS

TM138 - 415 (1.5 HP 1740 RPM)				Minimum Face Width (L): DESIGN A = 13.78" DESIGN B = 15.75" WEIGHT = 50.00 LBS. @ L=13.78"							
V (ft/min)	332	255	216	127							
NLV (ft/min)	360	270	229	130							
BP (lbs)	167	194	229	388							
T' lbs.	33	43	51	87							
WITH 0.25" LAGGING											
V (ft/min)	364	280	238	139							
NLV (ft/min)	395	297	252	143							
BP (lbs)	134	174	207	353							
T' lbs.	33	43	51	87							
TM138 - 210 (1.0 HP 3400 RPM)				Minimum Face Width (L): DESIGN A = 11.81" DESIGN B = 13.78" WEIGHT = 44.10 LBS. @ L=13.78"							
V (ft/min)	679	510	433								
NLV (ft/min)	754	566	480								
BP (lbs)	48	65	76								
T' lbs.	11	15	17								
WITH 0.25" LAGGING											
V (ft/min)	747	561	475								
NLV (ft/min)	828	621	527								
BP (lbs)	44	59	69								
T' lbs.	11	15	17								
TM138 - 410 (1.0 HP 1740 RPM)				Minimum Face Width (L): DESIGN A = 11.81" DESIGN B = 13.78" WEIGHT = 44.10 LBS. @ L=13.78"							
V (ft/min)	340	255	216	158	119	100	89	*79	*62	*52	*41
NLV (ft/min)	377	283	240	175	131	111	98	87	69	58	45
BP (lbs)	97	130	153	209	279	329	374	419	533	633	710
T' lbs.	22	29	35	48	63	75	85	95	121	144	159
WITH 0.25" LAGGING											
V (ft/min)	374	280	238	174	130	110	97	*86	*68	*57	*45
NLV (ft/min)	414	311	264	192	144	122	108	96	76	64	50
BP (lbs)	88	118	139	191	254	299	341	381	485	577	710
T' lbs.	22	29	35	48	63	75	85	95	121	144	159
TM138 - 275 (0.75 HP 3400 RPM)				Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81" WEIGHT = 39.70 LBS. @ L=13.78"							
V (ft/min)	679	510	433								
NLV (ft/min)	754	566	480								
BP (lbs)	36	48	57								
T' lbs.	8	11	13								

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

*Slow speed 2 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 0.84 lbs. per inch above 13.78 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.

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WITH 0.25" LAGGING

V (ft/min)	747	561	475
NLV (ft/min)	828	621	527
BP (lbs)	33	44	52
T' lbs.	8	11	13

TM138 - 475 (0.75 HP 1740 RPM) Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81" WEIGHT = 39.70 LBS. @ L=13.78"

V (ft/min)	340	255	216	158	119	100	89	*79	*62	*52	*41
NLV (ft/min)	377	283	240	175	131	111	98	87	69	58	45
BP (lbs)	73	97	115	157	209	246	281	315	400	475	605
T' lbs.	17	22	26	36	48	56	64	71	91	108	138

WITH 0.25" LAGGING

V (ft/min)	374	280	238	174	130	110	97	*86	*68	*57	*45
NLV (ft/min)	414	311	264	192	144	122	108	96	76	64	50
BP (lbs)	67	88	104	143	191	224	256	286	364	432	550
T' lbs.	17	22	26	36	48	56	64	71	91	108	138

TM138 - 675 (0.75 HP 1125 RPM) Minimum Face Width (L): DESIGN A = 11.81" DESIGN B = 13.78" WEIGHT = 44.10 LBS. @ L=13.78"

V (ft/min)	93	69	58
NLV (ft/min)	103	77	65
BP (lbs)	268	357	420
T' lbs.	61	81	96

WITH 0.25" LAGGING

V (ft/min)	102	77	65
NLV (ft/min)	112	84	71
BP (lbs)	244	325	382
T' lbs.	61	81	96

TM138 - 205 (0.5 HP 3400 RPM) Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81" WEIGHT = 35.30 LBS. @ L=13.78"

V (ft/min)	679	510	433
NLV (ft/min)	754	566	480
BP (lbs)	24	32	38
T' lbs.	5	7	9

WITH 0.25" LAGGING

V (ft/min)	747	561	475
NLV (ft/min)	828	621	527
BP (lbs)	22	30	34
T' lbs.	5	7	9

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

*Slow speed 2 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 0.84 lbs. per inch above 13.78 inches.

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TM138 - 405 (0.5 HP 1740 RPM)	Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81"										WEIGHT = 37.50 LBS. @ L=13.78"		
V (ft/min)	340	255	216	158	119	100	89	*52	*41	**12	**9	**8	**6
NLV (ft/min)	377	283	240	175	131	111	98	58	45	13	10	9	7
BP (lbs)	48	65	76	105	140	165	187	317	403	710	710	710	710
T' lbs.	11	15	17	24	32	37	42	72	92	159	159	159	159
WITH 0.25" LAGGING													
V (ft/min)	374	280	238	174	130	110	97	*57	*45	**13	**10	**9	**7
NLV (ft/min)	414	311	264	192	144	122	108	64	50	14	11	9	7
BP (lbs)	44	59	69	95	127	150	170	258	367	710	710	710	710
T' lbs.	11	15	17	24	32	37	42	72	92	159	159	159	159
TM138 - 605 (0.5 HP 1125 RPM)	Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81"										WEIGHT = 37.50 LBS. @ L=13.78"		
V (ft/min)	67	*35	*27										
NLV (ft/min)	75	39	30										
BP (lbs)	246	475	605										
T' lbs.	56	108	138										
WITH 0.25" LAGGING													
V (ft/min)	73	*38	*30										
NLV (ft/min)	82	42	33										
BP (lbs)	224	432	550										
T' lbs.	56	108	138										
TM138 - 805 (0.5 HP 850 RPM)	Minimum Face Width (L): DESIGN A = 11.81" DESIGN B = 13.78"										WEIGHT = 44.10 LBS. @ L=13.78"		
V (ft/min)	69	52	44	*31	*26	*21	**6	**5	**4	**3			
NLV (ft/min)	77	57	49	35	29	23	6	5	4	3			
BP (lbs)	238	318	374	533	633	710	710	710	710	710			
T' lbs.	54	72	85	121	144	159	159	159	159	159			
WITH 0.25" LAGGING													
V (ft/min)	77	57	49	*35	*29	*22	**6	**5	**4	**3			
NLV (ft/min)	84	64	54	38	32	25	7	6	5	4			
BP (lbs)	217	289	341	485	577	710	710	710	710	710			
T' lbs.	54	72	85	121	144	159	159	159	159	159			
TM138 - 434 (0.34 HP 1740 RPM)	Minimum Face Width (L): DESIGN A = 9.84" DESIGN B = 10.83"							WEIGHT = 35.30 LBS. @ L=13.78"					
V (ft/min)	340	255	216	158	119	100	89						
NLV (ft/min)	377	283	240	175	131	111	98						
BP (lbs)	33	44	52	71	94	112	127						
T' lbs.	7	10	12	16	22	25	29						

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

*Slow speed 2 stage planetary gearing, **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 0.84 lbs. per inch above 13.78 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.

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SPECIFICATIONS

WITH 0.25" LAGGING

V (ft/min)	374	280	238	174	130	110	97
NLV (ft/min)	414	311	264	192	144	122	108
BP (lbs)	30	40	47	65	86	102	116
T' lbs.	7	10	12	16	22	25	29

TM138 - 834 (0.34 HP 850 RPM) Minimum Face Width (L): DESIGN A = 10.83" DESIGN B = 11.81" WEIGHT = 39.70 LBS. @ L=13.78"

V (ft/min)	69	52	44
NLV (ft/min)	77	57	49
BP (lbs)	162	216	255
T' lbs.	37	49	58

WITH 0.25" LAGGING

V (ft/min)	77	57	49
NLV (ft/min)	84	64	54
BP (lbs)	147	196	231
T' lbs.	37	49	58

TM138 - 1218 (0.18 HP 550 RPM) Minimum Face Width (L): DESIGN A = 11.81" DESIGN B = 13.78" WEIGHT = 44.10 LBS. @ L=13.78"

V (ft/min)	35	29
NLV (ft/min)	39	32
BP (lbs)	171	202
T' lbs.	39	46

WITH 0.25" LAGGING

V (ft/min)	38	32
NLV (ft/min)	42	36
BP (lbs)	156	183
T' lbs.	39	46

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

NOTE: Total weight of the unit increases by 0.84 lbs. per inch above 13.78 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.