

TM315 SERIES (12.5" diameter)



SPECIFICATIONS

TM315 - 215 (15.0 HP 3400 RPM)				Minimum Face Width (L): DESIGN A = 23.62" DESIGN B = 25.59"								WEIGHT = 310.00 LBS. @ L=23.62"							
V (ft/min)	1039	898	803	709	661	590	567	520	449	378									
NLV (ft/min)	1091	943	843	745	694	620	595	546	472	397									
BP (lbs)	444	514	575	651	697	781	814	888	1028	1221									
T' lbs.	229	265	296	335	359	402	419	457	529	629									
WITH 0.25" LAGGING																			
V (ft/min)	1081	934	835	737	687	613	589	541	467	391									
NLV (ft/min)	1134	980	876	774	721	644	618	567	490	412									
BP (lbs)	435	504	564	638	683	766	798	870	1008	1197									
T' lbs.	229	265	296	335	359	402	419	457	529	629									
TM315 - 410 (10.0 HP 1740 RPM)				Minimum Face Width (L): DESIGN A = 23.62" DESIGN B = 25.59"								WEIGHT = 299.80 LBS. @ L=23.62"							
V (ft/min)	964	790	712	571	524	507	447	390	337	310	290	268	243	223	183	169	146		
NLV (ft/min)	1013	830	748	600	550	533	470	410	354	326	304	282	255	234	192	177	153		
BP (lbs)	343	418	464	579	631	652	739	846	980	1064	1140	1232	1362	1484	1805	1960	2270		
T' lbs.	179	218	242	302	329	340	385	441	511	554	594	642	710	773	941	1022	1183		
WITH 0.25" LAGGING																			
V (ft/min)	1003	822	740	594	544	527	465	406	351	323	301	279	252	231	190	175	151		
NLV (ft/min)	1054	863	778	624	572	554	488	427	368	339	316	293	265	243	200	184	159		
BP (lbs)	329	402	446	556	607	627	711	814	942	1023	1097	1185	1309	1427	1736	1885	2182		
T' lbs.	179	218	242	302	329	340	385	441	511	554	594	642	710	773	941	1022	1183		
TM315 - 475 (7.5 HP 1740 RPM)				Minimum Face Width (L): DESIGN A = 21.65" DESIGN B = 23.62"								WEIGHT = 292.80 LBS. @ L=23.62"							
V (ft/min)	964	790	712	571	524	507	447	390	337	310	290	268	243	223	183	169	146	133	
NLV (ft/min)	1013	830	748	600	550	533	470	410	354	326	304	282	255	234	192	177	153	140	
BP (lbs)	257	314	348	434	473	489	554	634	735	798	855	924	1021	1113	1354	1470	1702	1857	
T' lbs.	134	163	181	226	247	255	289	331	383	416	446	482	532	580	706	766	887	968	
<i>Continued ...</i>																			
V (ft/min)	121																		
NLV (ft/min)	127																		
BP (lbs)	2050																		
T' lbs.	1069																		
WITH 0.25" LAGGING																			
V (ft/min)	1003	822	740	594	544	527	465	406	351	323	301	279	252	231	190	175	151	139	
NLV (ft/min)	1054	863	778	624	572	554	488	427	368	339	316	293	265	243	200	184	159	146	
BP (lbs)	247	302	335	417	455	470	533	610	707	767	822	889	982	1070	1302	1414	1637	1786	
T' lbs.	134	163	181	226	247	255	289	331	383	416	446	482	532	580	706	766	887	968	

Continued ...

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

NOTE: Total weight of the unit increases by 3.92 lbs. per inch above 23.62 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.

TM315 SERIES (12.5" diameter)



SPECIFICATIONS

Continued ... TM315 - 475 (0.75 HP 1740 RPM) with 0.25" Lagging

V (ft/min)	126
NLV (ft/min)	132
BP (lbs)	1972
T' lbs.	1069

TM315 - 455 (5.5 HP 1740 RPM) Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"

V (ft/min)	964	790	712	571	524	507	447	390	337	310	290	268	243	223	183	169	146	133
NLV (ft/min)	1013	830	748	600	550	533	470	410	354	326	304	282	255	234	192	177	153	140
BP (lbs)	188	230	255	318	347	358	407	465	539	585	627	678	749	816	993	1078	1248	1362
T' lbs.	98	120	133	166	181	187	212	243	281	305	327	353	390	425	517	562	650	710

Continued ...

V (ft/min)	121
NLV (ft/min)	127
BP (lbs)	1504
T' lbs.	784

WITH 0.25" LAGGING

V (ft/min)	1003	822	740	594	544	527	465	406	351	323	301	279	252	231	190	175	151	139
NLV (ft/min)	1054	863	778	624	572	554	488	427	368	339	316	293	265	243	200	184	159	146
BP (lbs)	181	221	245	306	334	345	391	448	518	563	603	652	720	785	955	1037	1200	1309
T' lbs.	98	120	133	166	181	187	212	243	281	305	327	353	390	425	517	562	650	710

Continued ...

V (ft/min)	126
NLV (ft/min)	132
BP (lbs)	1446
T' lbs.	784

TM315 - 650 (5.0 HP 1125 RPM) Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"

V (ft/min)	643	527	475	381	349	286	258	207	162	122	112	97	89	81
NLV (ft/min)	675	553	499	400	367	300	271	217	170	128	118	102	93	85
BP (lbs)	257	314	348	434	473	578	641	799	1021	1354	1470	1702	1857	2050
T' lbs.	134	163	181	226	247	301	334	417	532	706	766	887	968	1069

WITH 0.25" LAGGING

V (ft/min)	669	548	494	396	363	297	268	215	168	127	117	101	92	84
NLV (ft/min)	702	575	519	416	381	312	281	226	177	133	123	106	97	88
BP (lbs)	247	302	335	417	455	555	616	769	982	1302	1414	1637	1786	1972
T' lbs.	134	163	181	226	247	301	334	417	532	706	766	887	968	1069

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

NOTE: Total weight of the unit increases by 3.92 lbs. per inch above 23.62 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.

TM315 SERIES (12.5" diameter)



SPECIFICATIONS

TM315 - 440 (4.0 HP 1740 RPM)	Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 282.20 LBS. @ L=23.62"													
V (ft/min)	524	429	387	310	243	183	169	146	133	121				
NLV (ft/min)	550	451	406	326	255	192	177	153	140	127				
BP (lbs)	252	308	342	426	545	722	784	908	990	1093				
T' lbs.	132	161	178	222	284	376	409	473	516	570				
WITH 0.25" LAGGING														
V (ft/min)	544	446	402	322	252	190	175	151	139	126				
NLV (ft/min)	572	469	422	339	265	200	184	159	146	132				
BP (lbs)	243	296	329	410	524	694	754	873	952	1051				
T' lbs.	132	161	178	222	284	376	409	473	516	570				
TM315 - 640 (4.0 HP 1125 RPM)	Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"													
V (ft/min)	643	527	475	381	349	286	258	207	162	122	112	97	89	81
NLV (ft/min)	675	553	499	400	367	300	271	217	170	128	118	102	93	85
BP (lbs)	206	251	278	347	379	462	513	640	817	1083	1176	1362	1486	1640
T' lbs.	107	131	145	181	197	241	267	333	426	564	613	710	774	855
WITH 0.25" LAGGING														
V (ft/min)	669	548	494	396	363	297	268	215	168	127	117	101	92	84
NLV (ft/min)	702	575	519	416	381	312	281	226	177	133	123	106	97	88
BP (lbs)	198	241	268	334	364	444	493	615	786	1042	1131	1309	1428	1577
T' lbs.	107	131	145	181	197	241	267	333	426	564	613	710	774	855
TM315 - 430 (3.0 HP 1740 RPM)	Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 282.20 LBS. @ L=23.62"													
V (ft/min)	524	429	387	310	243	183	169	146	133	121				
NLV (ft/min)	550	451	406	326	255	192	177	153	140	127				
BP (lbs)	189	231	256	320	408	542	588	681	743	820				
T' lbs.	99	120	134	167	213	282	306	355	387	427				
WITH 0.25" LAGGING														
V (ft/min)	544	446	402	322	252	190	175	151	139	126				
NLV (ft/min)	572	469	422	339	265	200	184	159	146	132				
BP (lbs)	182	222	247	307	393	521	565	655	714	789				
T' lbs.	99	120	134	167	213	282	306	355	387	427				
TM315 - 630 (3.0 HP 1125 RPM)	Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 282.20 LBS. @ L=23.62"													
V (ft/min)	349	286	258	207	162	122	112	97	89	81				
NLV (ft/min)	367	300	271	217	170	128	118	102	93	85				
BP (lbs)	284	347	385	480	613	812	882	1021	1114	1230				
T' lbs.	148	181	200	250	319	423	460	532	581	641				

Continued ...

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NOTE: Total weight of the unit increases by 3.92 lbs. per inch above 23.62 inches.

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TM315 SERIES (12.5" diameter)



SPECIFICATIONS

WITH 0.25" LAGGING

V (ft/min)	363	297	268	215	168	127	117	101	92	84
NLV (ft/min)	381	312	281	226	177	133	123	106	97	88
BP (lbs)	273	333	370	461	589	781	848	982	1071	1183
T' lbs.	148	181	200	250	319	423	460	532	581	641

TM315 - 830 (3.0 HP 850 RPM) Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"

V (ft/min)	262	214	193	155	121	91	84	73	67	60
NLV (ft/min)	275	225	203	163	127	96	88	76	70	63
BP (lbs)	379	462	513	640	817	1083	1176	1362	1486	1640
T' lbs.	197	241	267	333	426	564	613	710	774	855

WITH 0.25" LAGGING

V (ft/min)	272	223	201	161	126	95	88	76	69	63
NLV (ft/min)	286	234	211	169	132	100	92	80	73	66
BP (lbs)	364	444	493	615	786	1042	1131	1309	1428	1577
T' lbs.	197	241	267	333	426	564	613	710	774	855

TM315 - 620 (2.0 HP 1125 RPM) Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"

V (ft/min)	349	286	258	207	162	122	112	97	89	81
NLV (ft/min)	367	300	271	217	170	128	118	102	93	85
BP (lbs)	189	231	256	320	408	542	588	681	743	820
T' lbs.	99	120	134	167	213	282	306	355	387	427

WITH 0.25" LAGGING

V (ft/min)	363	297	268	215	168	127	117	101	92	84
NLV (ft/min)	381	312	281	226	177	133	123	106	97	88
BP (lbs)	182	222	247	307	393	521	565	655	714	789
T' lbs.	99	120	134	167	213	282	306	355	387	427

TM315 - 820 (2.0 HP 850 RPM) Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"

V (ft/min)	262	214	193	155	121	91	84	73	67	60
NLV (ft/min)	275	225	203	163	127	96	88	76	70	63
BP (lbs)	252	308	342	426	545	722	784	908	990	1093
T' lbs.	132	161	178	222	284	376	409	473	516	570

WITH 0.25" LAGGING

V (ft/min)	272	223	201	161	126	95	88	76	69	63
NLV (ft/min)	286	234	211	169	132	100	92	80	73	66
BP (lbs)	242	296	329	410	524	694	754	873	952	1051
T' lbs.	132	161	178	222	284	376	409	473	516	570

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TM315 SERIES (12.5" diameter)



SPECIFICATIONS

TM315 - 1220 (2.0 HP 550 RPM)				Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 291.00 LBS. @ L=23.62"						
V (ft/min)	174	143	129	103	81	61	56	48	44	40
NLV (ft/min)	183	150	135	108	85	64	59	51	47	52
BP (lbs)	379	462	513	640	817	1083	1176	1362	1486	1640
T' lbs.	197	241	267	333	426	564	613	710	774	855
WITH 0.25" LAGGING										
V (ft/min)	181	149	134	107	84	63	58	50	46	42
NLV (ft/min)	191	156	141	113	88	66	61	53	48	44
BP (lbs)	364	444	493	615	786	1042	1131	1309	1428	1577
T' lbs.	197	241	267	333	426	564	613	710	774	855
TM315 - 815 (1.5 HP 850 RPM)				Minimum Face Width (L): DESIGN A = 19.69" DESIGN B = 21.65" WEIGHT = 282.20 LBS. @ L=23.62"						
V (ft/min)	262	214	193	155	121	91	84	73	67	60
NLV (ft/min)	275	225	203	163	127	96	88	76	70	63
BP (lbs)	189	231	256	320	408	542	588	681	743	820
T' lbs.	99	120	181	226	289	383	306	355	387	427
WITH 0.25" LAGGING										
V (ft/min)	272	223	201	161	126	95	88	76	69	63
NLV (ft/min)	286	234	211	169	132	100	92	80	73	66
BP (lbs)	182	22	247	307	393	521	565	655	714	789
T' lbs.	99	120	181	226	289	383	306	355	387	427

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

NOTE: Total weight of the unit increases by 3.92 lbs. per inch above 23.62 inches.

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