

COMPACTION PERFORMANCE | VMD AND VMT SERIES





ASPHALT COMPACTION PERFORMANCE AND PRODUCTIVITY | VMD AND VMT SERIES

ASPHALT PERFORMANCE AND PRODUCTIVITY – COMPACTED OUTPUT

Structure	Weight (kg)	Wearing course	Binder course	Base course
Compacted layer thickness up to (mm)		20...50	50...100	100...150
Compacted output (t/h)				
Walk behinds				
VMD70 (t/h)	720	10...25	21...42	36...53
VMD100 (t/h)	940	12...29	25...49	42...63
Tandems				
VMT160-80 (t/h)	1840 [†]	13...32	26...53	45...68
VMT160-90 (t/h)	1900 [†]	15...36	30...60	52...78
VMT160-100 (t/h)	1970 [†]	16...41	34...68	58...87
VMT260-100 (t/h)	2670 [†]	16...41	34...68	58...87
VMT260-120 (t/h)	2940 [†]	20...50	42...83	71...107
VMT390 (t/h)	4000 [†]	26...65	43...87	75...112
VMT400 (t/h)	4080 [†]	28...71	47...95	81...122
VMT480 (t/h)	4720 [†]	35...87	52...104	87...130
VMT500 (t/h)	4830 [†]	38...95	57...113	95...142
VMT860 (t/h)	9250*	45...112	84...167	134...201
Compacted output (m²/h)				
Walk behinds				
VMD70 (m ² /h)	720	297	248	212
VMD100 (m ² /h)	940	351	293	251
Tandems				
VMT160-80 (m ² /h)	1840 [†]	378	315	270
VMT160-90 (m ² /h)	1900 [†]	432	360	309
VMT160-100 (m ² /h)	1970 [†]	486	405	347
VMT260-100 (m ² /h)	2670 [†]	486	405	347
VMT260-120 (m ² /h)	2940 [†]	594	495	424
VMT390 (m ² /h)	4000 [†]	776	518	444
VMT400 (m ² /h)	4080 [†]	844	563	482
VMT480 (m ² /h)	4720 [†]	1035	621	518
VMT500 (m ² /h)	4830 [†]	1125	675	563
VMT860 (m ² /h)	9250*	1328	996	797
Compacted output (m³/h)				
Walk behinds				
VMD70 (m ³ /h)	720	4...11	9...19	16...24
VMD100 (m ³ /h)	940	5...13	11...22	19...28
Tandems				
VMT160-80 (m ³ /h)	1840 [†]	6...14	12...24	20...30
VMT160-90 (m ³ /h)	1900 [†]	6...16	14...27	23...35
VMT160-100 (m ³ /h)	1970 [†]	7...18	15...30	26...39
VMT260-100 (m ³ /h)	2670 [†]	7...18	15...30	26...39
VMT260-120 (m ³ /h)	2940 [†]	9...22	19...37	32...48
VMT390 (m ³ /h)	4000 [†]	12...29	19...39	33...50
VMT400 (m ³ /h)	4080 [†]	13...32	21...42	36...54
VMT480 (m ³ /h)	4720 [†]	16...39	23...47	39...58
VMT500 (m ³ /h)	4830 [†]	17...42	25...51	42...63
VMT860 (m ³ /h)	9250*	20...50	37...75	60...90



Wearing course



Binder course



Base course

Assumption and Notes (Asphalt):

The achieved compaction and productivity values will vary with exact material composition and moisture content.

In critical applications these values need to be verified by physical measurement.

Laboratory soil test should always be carried out to assess the soil structure & strength for compaction.

Weights – CECE with ROPS[†] or Cab* (apply on Tandems only)

Overlap of paths: 100 mm =>(VMD70 - VMT260), and 100 mm => (VMT390 - VMT500) and 200mm => (VMT860)

Working speed: VMD70 - VMT860 = 60m/min (= > 3.6 km/h)

Compaction Output speed: 75 % of working speed => 2.7 km

Compaction Output: assumes 80% of maximum layer thickness stated in upper table

Number of passes are 3...7





SOIL COMPACTION PERFORMANCE AND PRODUCTIVITY | VMD AND VMT SERIES

SOIL COMPACTION PERFORMANCE AND PRODUCTIVITY

			COMPACTED LAYER THICKNESS UP TO (mm)		
Structure	Weight (kg)	Working width (m)	Sand/gravel	Mixed soil	Clay/loam
Walk behinds					
VMD70	720	0.65	200	180	100
VMD100	940	0.75	200	180	100
Tandems					
VMT160-80	1840 [†]	0.8	250	200	150
VMT160-90	1900 [†]	0.9	250	200	150
VMT160-100	1970 [†]	1	250	200	150
VMT260-100	2670 [†]	1	270	220	160
VMT260-120	2940 [†]	1.2	270	220	160
VMT390	4000 [†]	1.3	270	220	160
VMT400	4080 [†]	1.4	270	220	160
VMT480	4720 [†]	1.3	300	250	180
VMT500	4830 [†]	1.4	300	250	180
VMT860	9250*	1.675	350	300	200
Compacted output (m³/h)					
Structure	Weight (kg)	Working width (m)	Sand/gravel	Mixed soil	Clay/loam
Walk behinds					
VMD70	720	0.65	26...51	23...47	13...26
VMD100	940	0.75	31...61	28...55	15...31
Tandems					
VMT160-80	1840 [†]	0.8	59...118	47...95	35...71
VMT160-90	1900 [†]	0.9	67.5...135	54...108	41...81
VMT160-100	1970 [†]	1	76...152	61...122	46...91
VMT260-100	2670 [†]	1	82...164	67...134	49...97
VMT260-120	2940 [†]	1.2	100...200	82...163	59...119
VMT390	4000 [†]	1.3	109...219	89...178	65...130
VMT400	4080 [†]	1.4	118...237	97...193	70...140
VMT480	4720 [†]	1.3	122...243	101...203	73...146
VMT500	4830 [†]	1.4	132...263	110...219	79...158
VMT860	9250*	1.675	174...348	149...299	100...199



Sand /gravel



Mixed soil



Clay/loam

Assumption and Notes:

The achieved compaction and productivity values will vary with exact material composition and moisture content.

In critical applications these values need to be verified by physical measurement.

Laboratory soil test should always be carried out to assess the soil structure & strength for compaction.

Weights – CECE with ROPS[†] or Cab* (apply on Tandems only)

Overlap of paths: 100 mm (VMD70 - VMT500) and 200 mm (VMT860)

Working speed: VMD70 & VMD100 => 42 m/min (= 2,52 km/h); VMT160 - VMT860) => 60 m/min (= 3,6 km/h)

Compaction Output speed: 75 % of working speed => 1,89 km (VMD70 & VMD100) and 2.7 km/h (VMT160 - VMT860)

Compaction Output: assumes 80% of maximum layer thickness stated in upper table

Number of passes are 3...6 (soil)





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