MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*HAMM*
Model:	*HD+ 120i VO*
Equipment Type:	*Tandem Roller*
Contractor Modifications:	*None*

Interstate Approval Conditions

Approval Type	*Crossing only*
Speed:	*No Restriction*
Weight:	*30,208 lb or less*
Traffic:	*Approved with regular traffic*
Location Restrictions:	*No Restriction*

Non-Interstate Approval Conditions

Approval Type	*Crossing only*
Speed:	*No Restriction*
Weight:	*30,208 lb or less*
Traffic:	*Approved with regular traffic*
Location Restrictions:	*No Restriction*

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge. Vibratory system must be turned off while on bridge.

Technical data

HD+ 120i VO



Tandem rollers Series HD+ | **H274**

Tandem roller with vibration and oscillation drum

HIGHLIGHTS

> Operating concept Easy Drive
> Electronic machine management Hammtronic
> Excellent view of machine and construction site
> Track offset for comfortable starting and driving away and compacting at curbsides
> Compaction with oscillation

TECHNICAL DATA HD+ 120i VO (H274)

Weights		
Operating weight with cab	kg lbs	12885 28,411
Operating weight with ROPS	kg lbs	12645 27,882
Max. operating weight	kg lbs	13700 30,208
Static linear load, front/rear	kg/cm lbs/in	31,9/31,9 178.6/178.6
French classification, value/class		30,1/VT2
Machine dimensions		
Total length	mm in	5300 208.7
Total height with cab	mm in	2980 117.3
Total height with ROPS	mm in	3030 119.3
Height loading, min.	mm in	2140 84.3
Center distance	mm in	3900 153.5
Total width with cab	mm in	2145 84.4
Maximum working width	mm in	2150 84.6
Ground clearance, center	mm in	340 13.4
Curb clearance, left/right	mm in	900/900 35.4/35.4
Turning radius, inside	mm in	6280 247.2
Drum dimensions		
Drum width, front/rear	mm in	1980/1980 78.0/78.0
Drum diameter, front/rear	mm in	1400/1400 55.1/55.1
Drum thickness, front/rear	mm in	19/20 0.7/0.8
Drum type, front		Smooth/non-split
Drum type, rear		Smooth/non-split
Track offset, left/right	mm in	170 6.7
Diesel engine		
Manufacturer		DEUTZ
Model		TCD 4.1 L4
Cylinders, quantity		4
Power ISO 14396, kW/PS/rpm		115,0/156,4/2300
Power SAE J1349, kW/HP/rpm		115,0/154,1/2300
Exhaust emission standard		EU Stage V / EPA Tier 4
Exhaust gas after-treatment		DOC-DPF-SCR

Travel drive		
Regulation, infinitely variable		HAMMTRONIC
Gradeability, with/without vibration	%	41/41
Vibration		
Vibration frequency, front, I/II	Hz vpm	40/50 2,400/3,000
Amplitude, front, I/II	mm in	0,95/0,35 .037/.014
Centrifugal force, front, I/II	kN lbs	159/93 35,775/20,925
Oscillation		
Oscillation force, rear	kN lbs	170,5 38,362
Oscillation frequency, rear	Hz vpm	36 2,160
Tangential amplitude, rear	mm in	1,25 .049
Steering		
Swing angle +/-	°	10
Steering, type		Articulated steering
Water-sprinkling system		
Water sprinkling, type		Pressure
Tank capacity/filling capacity		
Fuel tank, capacity	L Gal	260 68.7
AdBlue/SCR reducing agent tank, capacity	L Gal	20 5.3
Water tank, capacity	L Gal	1145 302.5
Sound level		
Sound power level L(WA), guaranteed	db(A)	109
Sound power level L(WA), representative measurement	db(A)	107

EQUIPMENT

Heating and air conditioning | Tachograph | | Bluetooth interface for Smart Doc | | Dashboard cover | Edge pressing and cutting equipment | HAMM Compaction Meter (HCM) | Automatic engine-off function | HAMM Temperature Meter (HTM) | Track offset display | Back-up alarm | Telematics interface | Working light | Rotating beacon | Coming home lighting | Locking device
from both sides | Central water outlet

OPTIONAL EQUIPMENT

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