MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*Bomag*
Model:	*BW 190 AD-5*
Equipment Type:	*Tandem Roller*
Contractor Modifications:	*None*

Interstate Approval Conditions

Approval Type	*Crossing Only*
Speed:	*No Restriction*
Weight:	*26,566 lb or less*
Traffic:	*Approved with Regular Traffic*
Location Restrictions:	*No Restriction*

Non-Interstate Approval Conditions

Approval Type	*Crossing Only*
Speed:	*No Restriction*
Weight:	*26,566 lb or less*
Traffic:	*Approved with Regular Traffic*
Location Restrictions:	*26,566 lb or less*

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. Equipment must be empty while crossing. Vibratory system must be turned off while on bridge. Approval is for use of single roller only, not two rollers working in tandem.

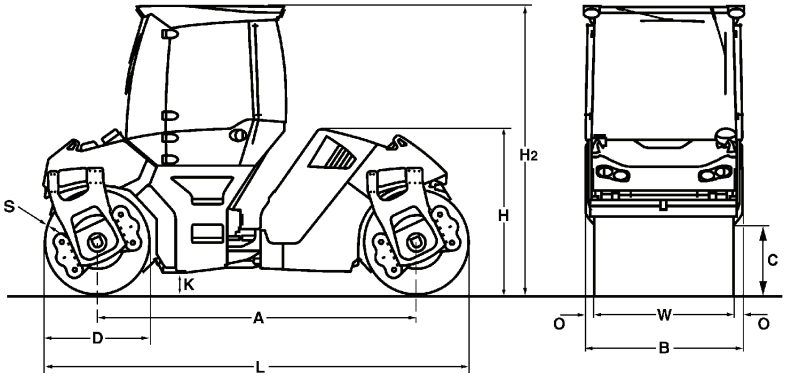
BOMAG
FAYAT GROUP

TECHNICAL DATA

TANDEM ROLLERS

BW 161 AD-5, BW 190 AD-5





Dimensions in inch

	A	B	C	D	H	H2	K	L	O	S	W
BW 161 AD-5	142.5	72.3	26.4	48.0	91.1	120.1	9.8	190.6	3.1	0.67	66.1
	142.5	84.5	26.4	48.0	91.1	120.1	9.8	190.6	3.1	0.75	78.3

Shipping dimensions in cub.yd	**without ROPS**	**with ROPS**
BW 161 AD-5	26,903	35,467
BW 190 AD-5	31,443	41,452

BW 161 AD-5	196.2-418.5	183.1-340.1	130.8-287.7
BW 190 AD-5	340.1-654.0	235.4-470.9	183.1-287.7

BW 161 AD-5	65.4-130.8	130.8-261.6	196.2-300.8
BW 190 AD-5	91.6-157.0	157.0-300.8	248.5-392.4

Technical Data		BOMAG BW 161 AD-5	BOMAG BW 190 AD-5
Weights			
Operating weight CECE w. cab.	lb	22,046	26,566
Axle load, front CECE	lb	11,244	13,669
Axle load, rear CECE	lb	10,803	12,897
Static linear load, front CECE	lb/in	170.2	173.6
Static linear load, rear CECE	lb/in	163.5	164.1
Grossweight	lb	24,251	28,660
Dimensions			
Track radius, inner	in	192.9	186.8
Length (without towing hitch)	in	190.6	190.6
Driving Characteristics			
Max. travel speed	mph	0- 7.5	0- 9.3
Max. gradeability without/with vibr.	%	35/30	35/30
Drive			
Engine manufacturer		Deutz	Deutz
Type		TCD 3.6 L4	TCD 3.6 L4
Emission stage		Stage V / TIER4f	Stage V / TIER4f
Exhaust gas aftertreatment		DPF+SCR	DPF+SCR
Cooling		Liquid	Liquid
Number of cylinders		4	4
Performance ISO 14396	hp	127.4	127.4
Performance SAE J 1995	hp	127.0	127.0
Speed	min-1	2,300	2,300
Electric equipment	V	12	12
Brakes			
Service brake		hydrost.	hydrost.
Parking brake		multi disc	multi disc
Steering			
Steering system		oscil.artic.	oscil.artic.
Exciter system			
Vibrating drum		front + rear	front + rear
Autom. vibr. shut off		standard	standard
Frequency	vpm	2,400.0/3,180.0	2,400.0/3,300.0
Amplitude	in	0.034/0.017	0.035/0.013
Centrifugal force	lb	21,357/20,233	28,326/19,783
Centrifugal force	t	2,181/2,068	2,878/2,023
Capacities			
Fuel	gal	38.3	38.3
Water	gal	198.1	198.1

Technical modifications reserved. Machines may be shown with options.

Standard Equipment

- ☑ 2 amplitudes / 2 frequencies
- ☑ ECOMODE
- ☑ Autom. vibration operation
- ☑ Individual vibration control
- ☑ Driver's seat, slewable
  - laterally slidable with steering wheel
- ☑ Emergency stop button
- ☑ On-board computer
  - engine speed
  - Speedometer
  - Fuel consumption
  - Engine temperature
- ☑ V-belt protection
- ☑ Pressure sprinkling system with 2 pumps
- ☑ Indicator and hazard lights
- ☑ Back-up alarm
- ☑ Battery disconnect switch
- ☑ Compartments for documents and tools

Optional Equipment

- ☐ ROPS cabin with seat belts
  + heating, Ventilation
  + 4 Working head lights
- ☐ ECONOMIZER
- ☐ ROPS cabin with air conditioning
- ☐ Rotary beacon
- ☐ Crab-walk to both sides (6.7in)
- ☐ 2 LED-lights for cabin roof (flatbeam)
- ☐ Edge cutter
- ☐ Special painting
- ☐ Environmentally compliant hydraulic oil
- ☐ Radio/Radio preparation
- ☐ ROPS/FOPS with safety belt
- ☐ Precision spreader BS180 laterally slidable
- ☐ Precision spreader BS180
- ☐ Asphalt temperature display
- ☐ Lighting for drum edge front and rear
- ☐ Seat heating
- ☐ Frequency 67Hz(BW161),70Hz(BW190)
- ☐ Approval by the German TÜV
- ☐ BOMAG TELEMATIC POWER
- ☐ Outside mirrors
- ☐ BOMAP compaction navigation with GPS

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