MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make:	Bomag
Model:	BM 2000 / 60-2
Equipment Type:	Milling Machine
Contractor Modifications:	Knife River max weight 66,800 lb

Interstate Approval Conditions

Approval Type	Crossing Only
Speed:	No restriction
Weight:	66,800 lb or less
Traffic:	Approved with regular traffic
Location Restrictions:	No restriction

Non-Interstate Approval Conditions

Approval Type	Denied
Speed:	Denied
Weight:	Denied
Traffic:	Denied
Location Restrictions:	Denied

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.

Note: This approval is not for the maximum operating weight of the Bomag BM 2000/60-2. It is only for a max weight of 66,800 lb.

SUBMITTAL

KNIFE RIVER
AN MDU RESOURCES COMPANY

Billings Division
PO Box 80066, Billings MT 59108

To: James Stevenson
Owner: MDT
E-Mail jlstevenson@mt.gov

Job name:	**Mossmain**
Contract No.	**05422**
KRY Job No.	28221021

From: Van Hildreth
E-Mail van.hildreth@kniferiver.com

SUBMITTAL NUMBER: **S-041**

DATE: 03/31/23

Total pages INCLUDING this sheet **3**

SUBJECT: ACEL Request - Bomag BM2000 Milling Machine

SPEC:

SUBMITTAL FORWARDED:

Please find attached information for ACEL approval. NOTE: this machine is similar to Cat PM620 and PM622 currently on ACEL.

REPLY FROM ENGINEER: **Date:**

No Exceptions Taken: ☐	Rejected: ☐	Resubmittal Not Required: ☐
Make Corrections Noted: ☐	Comments Attached: ☐	Resubmit in Entirety: ☐
Revision Needed: ☐		Revise & Resubmit Noted Items: ☐
		Submit Specified Items: ☐

This review is for general conformance with design concept only. Any deviation from plans or specifications not clearly noted by the Contractor has not been reviewed. Review by the engineer shall not serve to relieve the Contractor of the contractual responsibility for any error or deviation from the contract requirements.

MDT

Architect, Designer, or Engineer

cc: Submittal Folder

Bomag BM 2000-60 – Milling Machine

ACEL request

- Equipment manufacturer's product specifications - Attached
- Detailed equipment dimensions and data
  - Vehicle width 98.4in (8.5')
  - Vehicle length Conveyor extended: 586.6in (48.9'), Conveyor folded: 472.4in (39.4')
  - Number of axles Track assembly front and rear, each assembly has 2 "axles"
  - Track or wheel dimensions Track Height: 25.8in, Track length: 66.9in, Pad width: 11.8in
  - Track or wheel spacing (width) Outside to outside: 73.6in (6.1')
  - Track or wheel gage spacing (centerline to centerline of wheel lines)
    - Center front assembly to Center rear assembly: 185.8 in (15.5')
    - 1st to 2nd axle: 3.8', 2nd to 3rd: 11.7', 3rd to 4th: 3.8'
  - Gross vehicle weight rating Operating Weight: 66,800 lbs
  - Hauling capacity (weight) Does not haul
- Maximum operating speed 3.1 MPH
- Potential dynamic or vibratory effects of vehicle during operation (note that some vehicle attributes may preclude inclusion onto the ACEL) None
- Information on any equipment modifications for your vehicle (note that some modifications may preclude inclusion onto the ACEL) None
- Contractor's contact information for ACEL analysis-related correspondence or follow-up information. Van Hildreth, Knife River, van.hildreth@kniferiver.com 406.672.0954

Specifications

SHIPPING DIMENSIONS IN INCHES (MM) L X W X H

BM 2000/60-2 472 x 98 x 117 (12000 x 2500 x 2960)

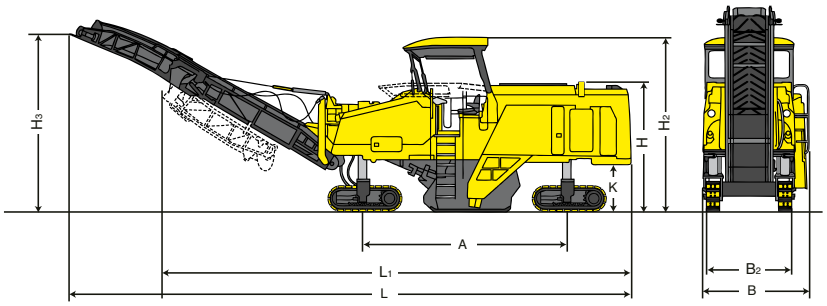
STANDARD EQUIPMENT

- Four-track steering front or/and rear, crabwalk
- Automatic maximum load control
- Differential lock
- Automatic milling depth control "INTELPLANER"
- 2 INTELPLANER Displays
- Slope control with slope sensor
- Hydraulically foldable conveyor belt
- Display of RPM
- Display of engine oil pressure and temperature
- Display of operating hours
- Display of diesel level
- Display of hydraulic oil temperature
- Display of hydraulic system pressures ground control panels
- Sound insulated engine hood
- 10 removable headlights
- Adjustable water spraying system
- Tool box for servicing and maintenance
- Back-up warning alarm
- Rotary beacon

OPTIONAL EQUIPMENT

- Hydraulically foldable canopy with windscreens
- Hydraulically driven water pump for refilling
- High pressure wash system
- Electrical diesel pump for fuel refilling
- Compressed air system
- Milling width 86.7 in (2200 mm)

BOMAG AMERICAS, INC.
125 Blue Granite Parkway
Ridgeway, SC 29130



Dimensions in inches (mm)

	A	B	B2	H	H2	H3	K	L	L1
BM 2000/60-2	185.8	98.4	73.6	116.5	157.1	177.2	44.1	586.6	472.4
	(4720)	(2500)	(1870)	(2960)	(3990)	(4500)	(1120)	(14900)	(12000)

Technical data		**BM 2000/60-2**
Milling drum		
Milling width	inches (mm)	78.7 (2000)
Milling depth	inches (mm)	0-12.6 (0-320)
Milling line distance	inches (mm)	.6 (15)
Cutting circle diameter	inches (mm)	42.1 (1070)
Number of cutting teeth		168
Output per cutting tooth	Hp (kW)	3.5 (2.62)
Speed	rpm	108
Engine		
Manufacturer / Type		Deutz / TCD2015
Cooling		Liquid
Cylinder number		8
Performance J 1349	Hp (kW)	590 (440)
Speed	rpm	1900
Fuel type		Diesel
Voltage	V	24
Weights		
Max. operating weight w/full fuel tank	lbs (kg)	71650 (32500)
Operating weight	lbs (kg)	66800 (30300)
Basic weight	lbs (kg)	61950 (28100)
Drive features		
Transport speed	mph (kmph)	0-3.1 (0-5)
Working speed	fpm (m/min)	0-131.2 (0-40)
Inside turning radius	ft (m)	7 (2.1)
Chassis		
Type of chassis		Track drive
Width	in (mm)	11.8 (300)
Height	in (mm)	25.2 (640)
Length	in (mm)	66.9 (1700)
Filling capacities		
Fuel	gal (l)	317 (1200)
Water	gal (l)	924.6 (3500)
Hydraulic oil	gal (l)	61 (230)
Loading system		
Width of gathering belt	in (mm)	31.5 (800)
Length of gathering belt	in (mm)	94.5 (2400)
Width of loader conveyor belt	in (mm)	31.5 (800)
Length of loader conveyor belt	in (mm)	299.2 (7600)
Transport dimensions		
Belt lowered, length	in (mm)	586.6 (14900)
Belt lowered, width	in (mm)	98.4 (2500)
Belt lowered, height	in (mm)	116.5 (2960)
Belt folded, length	in (mm)	472.4 (12000)

We reserve the right to make technical changes. Machines may be illustrated with optional accessories.