

# Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

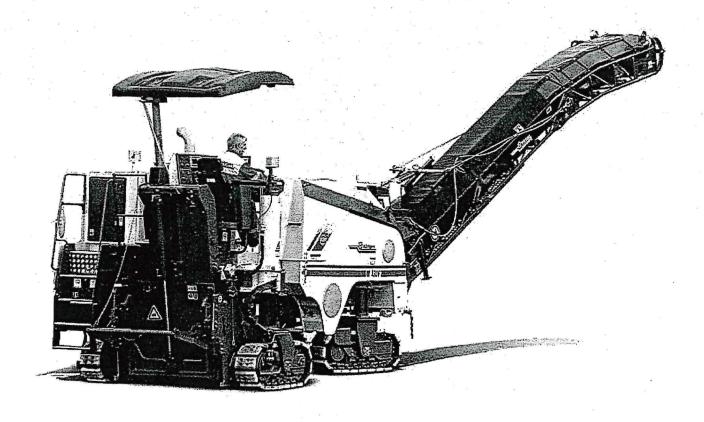
Make:	Wirtgen				
Model:	W 100 Fi				
Equipment Type:	Cold Milling Machine				
Contractor Modifications:	None				
Inter	rstate Approval Conditions		Non-Inte	erstate Approval Conditions	
Approval Type	Crossing Only		Approval Type	Crossing Only	
Speed:	No Restriction	,	Speed:	No Restriction	
Weight:	41,300 lb or less	1	Weight:	41,300 lb or less	
Traffic:	Approved with regular traffic		Traffic:	Approved with regular traffic	
Location Restrictions:	No Restriction		Location Restrictions:	No Restrictions	
Comments:					
	and specifications on following pages. Approval does no	ot apply to posted bri	dges, Other construct	tion equipment is not allowed to operate on or cross bridge a	it the





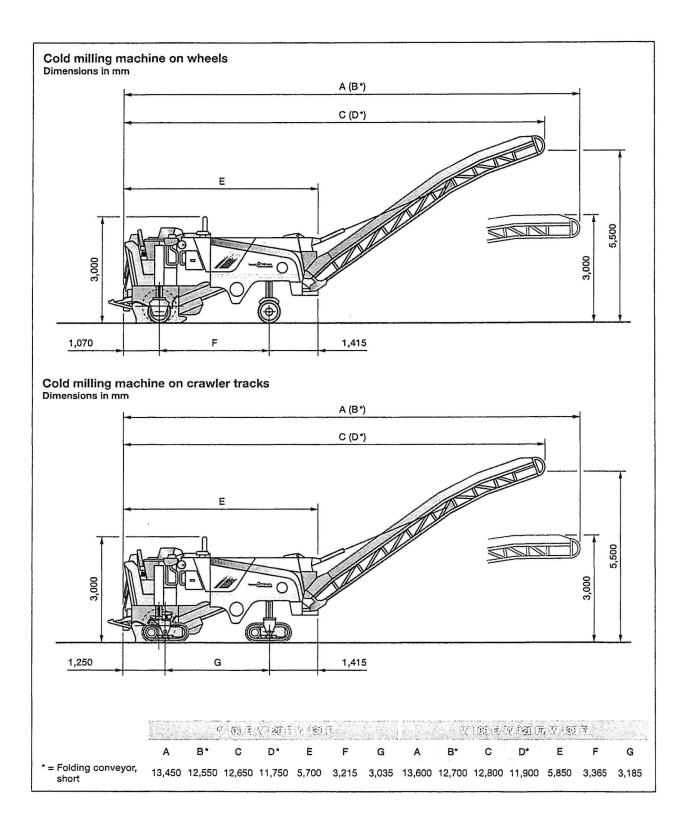
Technical specification

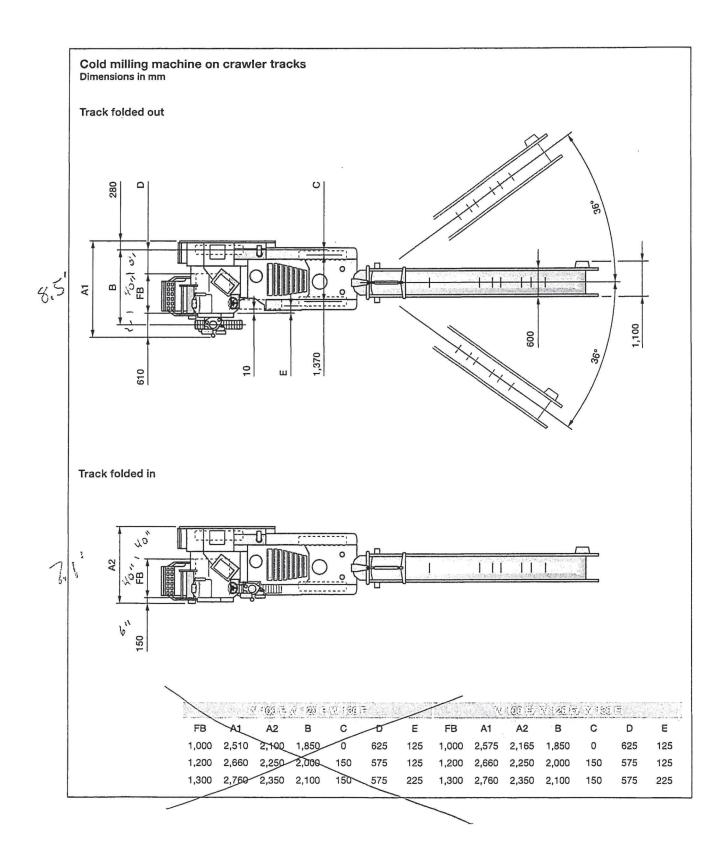
# Cold milling machines W 100 F-W 120 F-W 130 F W 100 Fi - W 120 Fi-W 130 Fi

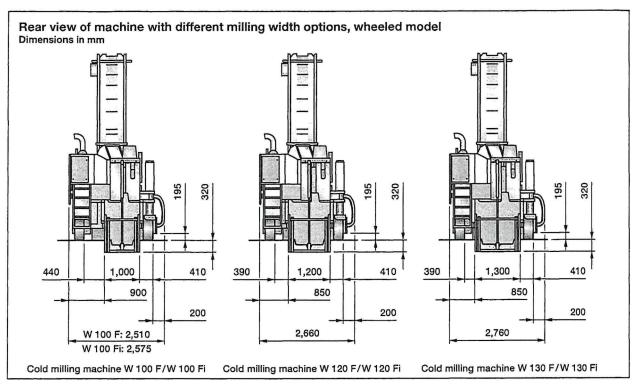


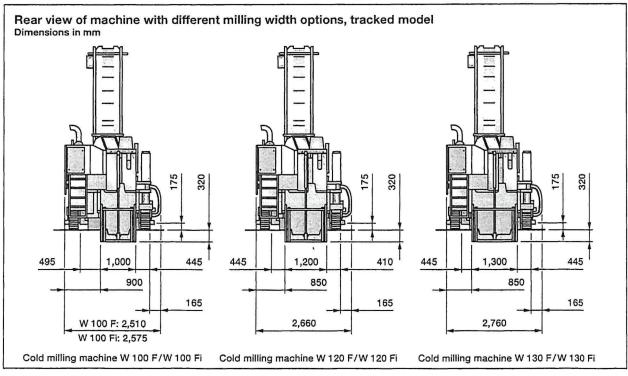
			F, W 120 F, W 130 F Fi, W 130 Fi		
Milling drum	FB 1,000	FB 1,200	FB 1,300		
Milling width	1,000 mm	1,200 mm	1,300 mm		
Milling depth*1	0-320 mm	0-320 mm	0-320 mm		
Tool spacing	15 mm	15 mm	15 mm		
Number of tools	99	115	121		
Drum diameter with tools	980 mm	980 mm	980 mm		
Engine	W 100 F, W 120 F, W 130 F		W 100 Fi, W 120 Fi, W 130 Fi		
Manufacturer	CUMMINS	and severe a significant	CUMMINS		
Туре	QSC 8.3		QSL 9		
Cooling	Water		Water		
Number of cylinders	6		6		
Rated power at 2,100 min <sup>-1</sup>	209 kW/280 HP/285 PS		224 kW/300 HP/305 PS		
Maximum power at 1,900 min <sup>-1</sup>	227 kW/304 HP/308 PS		239 kW/320 HP/325 PS		
Displacement	8.31		8.91		
Fuel consumption at rated power	62 l/h		64 l/h		
Fuel consumption in field mix	25 l/h		26 l/h		
Emission standards	EU Stage 3a/US Tier 3		EU Stage 3b/US Tier 4i		
Electrical system	24 V		24 V		
Filling capacities					
Fuel tank	620	265 6.5	6101		
Hydraulic fluid tank	130		130		
Water tank	1,400 l		1,340		
Driving properties		(8) FG			
Travel speed in milling gear, max.	0-32	m/min (1,9 k	km/h)		
Travel speed in travel gear, max.	0-125	m/min (7,5	km/h)		
Drive unit			P		
Tyre tracks front and rear (Ø x W)	660 x 280 mm				
Crawler tracks front and rear (L x W x H)	1,330	0 x 260 x 550	) mm		
Loading the milled material					
Belt width of primary conveyor	650 mm				
Belt width of discharge conveyor	600 mm				
Theoretical capacity of discharge conveyor		176 m³/h			
Shipping dimensions	W 100 F, W 120 F, W 130 F	٧	V 100 Fi, W 120 Fi, W 130 Fi		
Machine, track folded out					
Milling width FB 1,000 (L x W x H)	5,900 x 2,600 x 3,100 mm		6,050 x 2,665 x 3,100 mm		
Milling width FB 1,200 (L x W x H)	5,900 x 2,750 x 3,100 mm		6,050 x 2,750 x 3,100 mm		
Milling width FB 1,300 (L x W x H)	5,900 x 2,850 x 3,100 mm		6,050 x 2,850 x 3,100 mm		
Machine, track folded in					
Milling width FB 1,000 (L x W x H)	5,900 x 2,190 x 3,100 mm		6,050 x 2,255 x 3,100 mm		
Milling width FB 1,200 (L x W x H)	5,900 x 2,340 x 3,100 mm		6,050 x 2,340 x 3,100 mm		
Milling width FB 1,300 (L x W x H)	5,900 x 2,440 x 3,100 mm	6,050 x 2,440 x 3,100 mm			
Conveyor (L x W x H)	8,200 x 1,200 x 1,500 mm				

 $<sup>^{*}</sup>$  = The maximum milling depth may deviate from the value indicated, due to tolerances and wear.









	Veame wagins 17 100 F	Meanine veignes V 100 I	
Empty weight of machine without filling media	17,400 kg	17,750 kg	
Operating weight, CE*	18,463 kg	18,733 kg	
Operating weight, max. (full tanks, full range of equipment)	22,595 kg	22,835 kg	
		Meetine weights W 120	
Empty weight of machine without filling media	18,300 kg	18,600 kg	
Operating weight, CE*	19,363 kg	19,633 kg	
Operating weight, max. (full tanks, full range of equipment)	23,685 kg	23,925 kg	
	Wadine veight Will F	Weamie vereins W 160	
Empty weight of machine without filling media	18,700 kg	19,000 kg	
Operating weight, CE*	19,763 kg	20,033 kg	
Operating weight, max. (full tanks, full range of equipment)	24,135 kg	24,375 kg	
	Weight's offilling media V 190 F W 120 F W 180 F	Weights of filling meets 160 F. W 120 F. W 130	
Water tank filling in kg	1,400 kg	1,340 kg	
Diesel tank filling in kg (0.83 kg/l)	515 kg	506 kg	
	ীগোলার জ্যালাভা ছি ভেডেনাড় ভাগ্		
Driver and tools	•		
Driver	75 kg		
Weight of 5 cutting tool containers	125 kg		
On-board tools	30 kg		
Optional milling drum assemblies in lieu of standard			
Milling drum housing, milling width 1,000 mm, FCS-L	280 kg		
Milling drum housing, milling width 1,200 mm, FCS-L	: . 330 kg		
Milling drum housing, milling width 1,300 mm, FCS-L	370 kg		
Tandem scraper	180 kg		
Optional milling drums in lieu of standard			
Milling drum, milling width 1,000 mm, tool spacing 15, HT11, FCS-L	60 kg		
Milling drum, milling width 1,200 mm, tool spacing 15, HT11, FCS-L	60 kg		
Milling drum, milling width 1,300 mm, tool spacing 15, HT11, FCS-L	60 kg		
Milling drum, milling width 1,000 mm, tool spacing 8, HT11, FCS-L	400 kg		
Milling drum, milling width 1,200 mm, tool spacing 8, HT11, FCS-L	440 kg		
Milling drum, milling width 1,300 mm, tool spacing 8, HT11, FCS-L	460 kg		
Milling drum, milling width 1,000 mm, tool spacing 6x2, FCS-L	320 kg		
Milling drum, milling width 1,200 mm, tool spacing 6x2, FCS-L	350 kg		
Milling drum, milling width 1,300 mm, tool spacing 6x2, FCS-L	360 kg		
Optional additional equipment			
Crawler tracks in lieu of wheels	1,400 kg		
Canopy in lieu of standard	200 kg		
Short folding conveyor in lieu of standard	40 kg		
Long folding conveyor in lieu of standard	90 kg		
VCS - Vacuum Cutting System	150 kg		
Supplementary weight for flexible use, milling width 1,000 mm	430 kg		
Supplementary weight for flexible use, milling width 1,200 mm or 1,300 mm	540 k	g	

<sup>&#</sup>x27; = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and on-board tools.

# Equipment features of sold milling magnine W 100 E W 120 E W 150 F / W 100 F, W 120 F, W 130 F

# Standard equipment:

# Basic machine with engine

- Mechanically opening, soundproof engine cowling
- Water cooler with temperature-related fan speed
- Highly effective soundproofing of entire engine compartment
- Situation-dependent automatic engine speed control
- Elastically mounted engine station to reduce vibrations and noise
- Standard painting in Wirtgen white with orange stripes

# Milling drum housing

- Right-hand side plate in hinged design
- Hydraulically opening scraper blade with mechanical locking mechanism

# Milling drums

- Milling drum, milling width 1,000 mm, tool spacing 15 mm, HT11 quick-change toolholder system
- Mechanical milling drum drive via multiple V-belts with automatic belt tensioner

#### Loading of milled material

- Heavy-duty discharge conveyor, 8.2 m long, with 600 mm wide belt system
- Discharge conveyor slewing angle 36 degrees left, 36 degrees right
- Conveyor system with adjustable conveying speed

# Machine and levelling control

- Mechanical milling depth indication via dials
- Manually engageable hydraulic traction control (flow divider)
- Manually engageable maximum milling speed control
- Automatically engaging high-pressure water system
- Water spray bar in milling drum assembly
- Water spray system at primary conveyor

# Operator's platform

- Individually adjustable driver's seat on the right side of the machine
- Adjustable steering wheel
- Convenient control panel with practical switches
- Right-hand armrest including major operating functions Digital multi-functional display for all important operation
- parameters Lockable control panel cover
- Access to operator's platform at the rear left of the machine
- Exterior rear view mirrors left and right, as well as at the left side of the operator's platform
- Reversing horn with clearly audible sound
- Illuminated control panel/night design

# Chassis and height adjustment

- Infinitely variable, hydrostatic all-wheel drive
- Differential lock selectable in both forward and reverse gear
- Hydraulically folding wheel/crawler track unit at the rear right
- Hydraulic height adjustment at the front wheel/crawler track units
- Hydraulic height adjustment with two speed settings at the rear wheel/crawler track units
- Low-resistance wheel units for maximum manoeuvrability

# Miscellaneous

- Lighting package with 6 halogen working lights
- Comprehensive tool kit
- Towing device
- Generously dimensioned water and fuel tanks
- Comprehensive safety package with several emergency stop switches
- European design type certification, GS mark
- (Geprüfte Sicherheit =Tested Safety) and CE conformity Standard warranty of 12 months or 1,000 engine operating hours
- Machine commissioning by qualified personnel

# Optional equipment:

# Basic machine with engine

- Air compressor system
- Special painting in one, two or several colours

### Milling drum housing

- Milling drum housing in FCS Light design, milling width 1,000 mm (1,200 mm, 1,300 mm)
- Milling drum housing in full FCS design, milling width 1,000 mm (1,200 mm, 1,300 mm)
- Hydraulically lifting side plates
- Pneumatic cutting tool driver and extractor

### Milling drums

- Milling drums with HT11, tool spacing 25 mm, for FCS
- Milling drums with HT11, tool spacing 8 mm, for FCS
- Milling drums with HT5, tool spacing 6x2 mm, for FCS
- Mounting carriage for milling drums

#### Loading of milled material

- Hydraulically folding discharge conveyor, 8.2 m long
- Hydraulically folding discharge conveyor, 7.3 m long
- VCS vacuum cutting system

# Machine and levelling control

- LEVEL PRO automatic levelling system with 2 wire-rope sensors
- Slope sensor

# Operator's platform

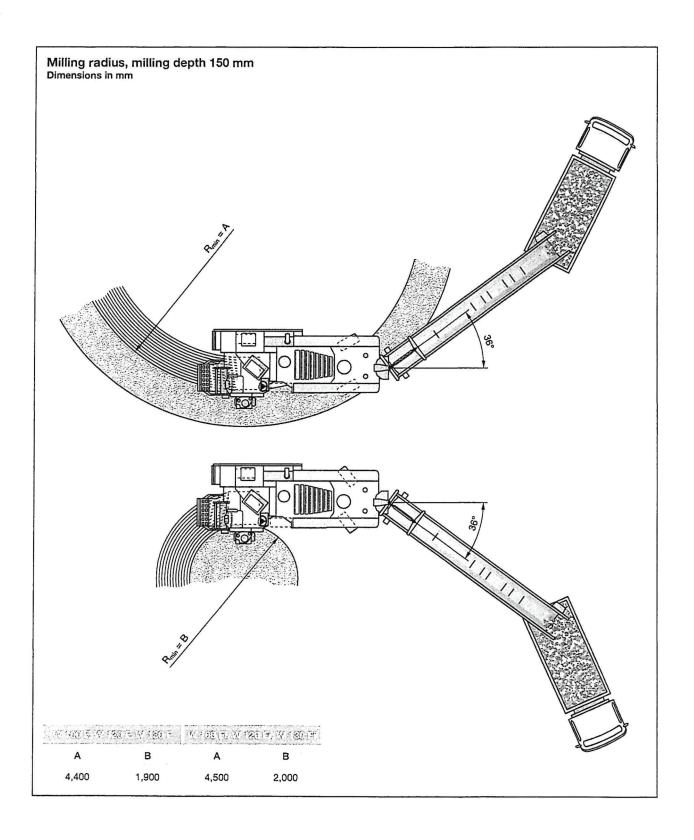
Hydraulically retracting, stable protective canopy

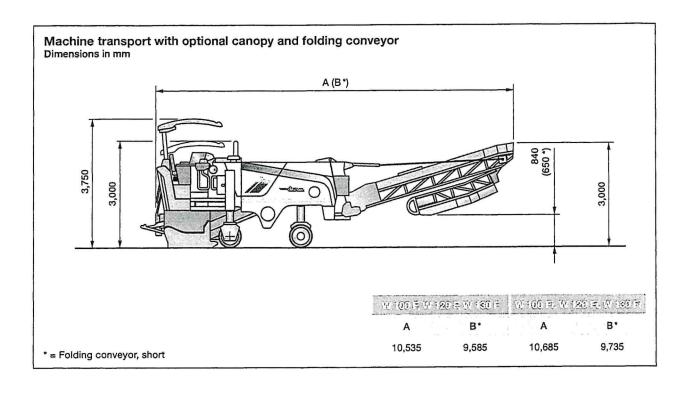
# Machine and levelling control

- Crawler track units with highly wear-resistant, two-piece polyurethane track pads
- Steering option for rear right wheel/crawler track unit in folded-in position

# Miscellaneous

- Lighting system with headlights, rear reflectors and four direction indicators
- Hydraulically operated water filling pump
- Hydraulically operated high-pressure water cleaner (max. 200 bar)
- Bolt-on supplementary weight, 430 kg (540 kg for milling widths 1,200 mm/1,300 mm)





# Cold milling machine on wheels Dimensions in mm Wheel folded out O 320 A 1,100 1,450 Wheel folded in 111 A2 111 150

19 100 F (\* 180 F W 180 F

В

1,850

2,000

A1

1,000 2,510 2,100

2,660

FB

1,200

A2

2,250

1,300 2,760 2,350 2,100

C

45

105

105

D

580

530

530

E

35

35

FB

1,200

A1

1,000 2,575 2,165 1,850

1,300 2,760 2,350 2,100

A2

2,250

W 100 F W 100 F W 150 F

2,000

C

45

105

105

Ε

35

35

135

D

580

530

530