



# Cat<sup>®</sup> CM845

## MINER BOLTER

### Specifications

#### Operating Dimensions

Mining Range (recommended)	2800 mm- 3900 mm	110.2 in- 153.5 in
Minimum Height Over Cutting Boom Assembly (with 1067 mm (42 in) diameter cutting drum and without bolting rigs)	1800 mm	70.7 in
Maximum Reach (with 1067 mm (42 in) diameter cutting drum and 350 mm (13.8 in) ground clearance)	4150 mm	163.4 in
Ground Clearance	350 mm	13.8 in
Length Rear Bumper to Bit Tip (with 1067 mm (42 in) diameter cutting drum)	8460 mm	27 ft 9 in

#### Transport Dimensions

Frame Width (outside rub rails and without platforms)	3333 mm	10 ft 11 in
Overall length	11 900 mm	39 ft 0.5 in
Height – Cover Line (i.e. without bolting rigs and material pods)	1500 mm	59 in
Weight Standard Machine (total)	92 tonnes	202,800 lb

#### Cutting Unit

Cutting Drum Diameter	1067 mm	42 in
Cutting Drum Width	Refer to Cutting Width Options	
Cutting Head Speed – Bit Tip (maximum 53 rpm)	2.97 m/s	584 fpm
Cutting Drum Power (one-hour rating)	2 × 173 kW	2 × 232 hp

#### Loading Unit

Loading Method	6 finger CLA	
Loading Unit Width	Refer to Cutting Width Options	
Conveyor Width	914 mm	36 in
Conveyor Speed	2.23 m/s	439 fpm
Conveyor Depth (without sideboards)	300 mm	12 in
Loading Capacity	31.5 tonnes/min	35 ton/min
Conveyor Power through CLAs (one-hour rating)	2 × 41 kW	2 × 55 hp

#### Traction Units

Crawler Chain Width	559 mm	22 in
Crawler Assembly Length	2850 mm	9 ft 4.2 in
Ground Pressure	230 kPa	33 psi
Crawler Speed	0-0.33 m/s	0-65 fpm
Traction Power DC (one-hour rating)	2 × 56 kW	2 × 75 hp

#### Electrical System

Machine Voltage	1000 VAC
Control System	Processor Based/ Radio Remote Control

#### Hydraulic System

Hydraulic Pump Unit (load sensing)	Variable Displacement Pump
Hydraulic Power (one-hour rating)	2 × 67 kW      2 × 90 hp

#### Bolting System (standard)

Emergency Shutoff	Lanyard on Both Sides of Machine
Roof Bolter Rigs (2 per side)	4 × Units
Roof Bolter Controls	Semi Automatic to MDG 35
Rib Bolters (1 per side)	2 × Units
Rib Bolter Controls (Outbye of Rig)	Semi Automatic to MDG 35
Rib Protection	AROPS

#### Total Installed Power

Standard (one-hour rating)	674 kW      904 hp
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## Optional Loading Unit

Loading Method	Plow with Vaned Cutting Unit	
Loading Unit Width	Refer to Cutting Width Options	
Conveyor Width	914 mm	36 in
Conveyor Speed	2.23 m/s	439 fpm
Conveyor Depth (without sideboards)	300 mm	12 in
Loading Capacity	31.5 tonnes/min	35 ton/min
Conveyor Power Tail Drive (one-hour rating)	2 × 29 kW	2 × 39 hp

## Optional Dust Suppression

Scrubber Type	Wet Bed	
Scrubber Capacity	3.8 m³/s-8 m³/s	8,000 cfm-17,000 cfm
Scrubber Power (one-hour rating)	1 × 22 kW	1 × 30 hp

## Bolting System Options

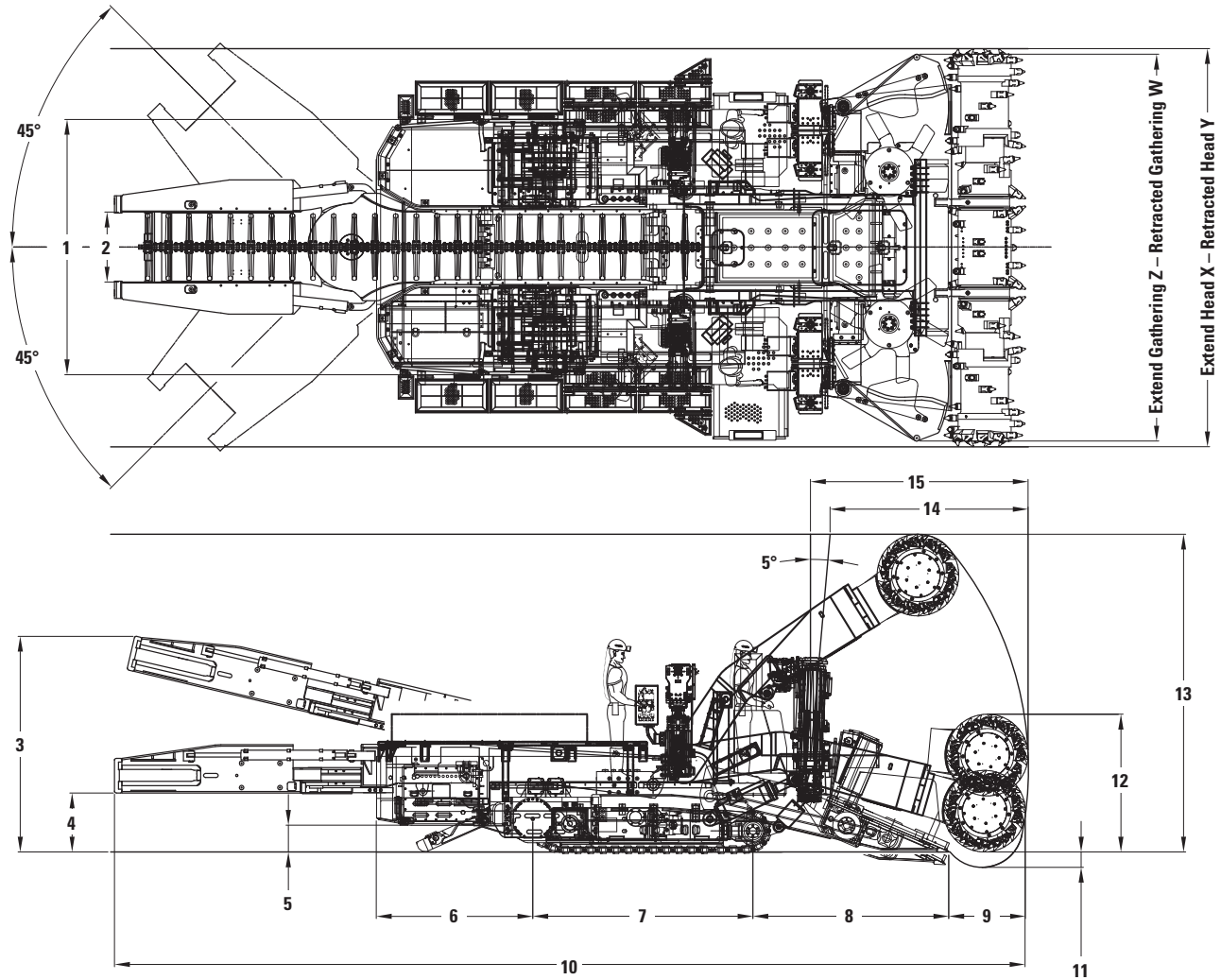
Custom Package Configuration to Suit Mine Conditions  
(i.e. traversing rigs, east west or north south chuck orientation, TRS)

## Electrical System Options

Voltages Available to Suit Different Continents/Countries

## Cutting Width Options

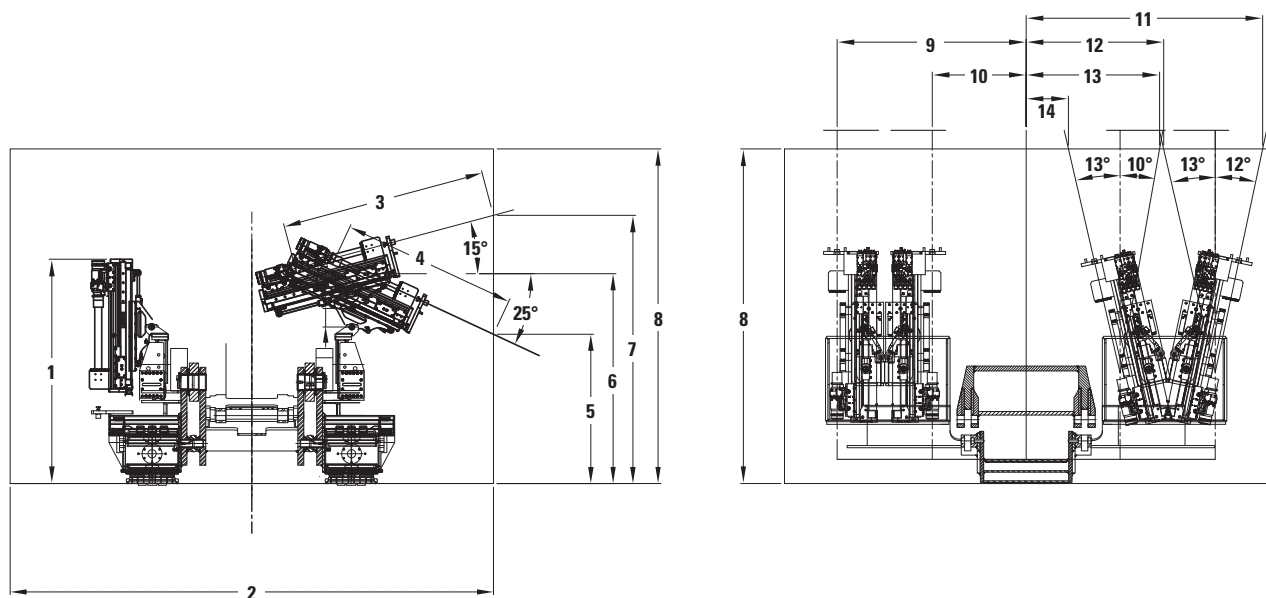
Cutting Width		Cutting Drum Width				Loading Unit Width			
		X		Y		Z		W	
4600 mm	181.1 in	4600 mm	181.1 in	4000 mm	157.5 in	4590 mm	180.7 in	3990 mm	157.1 in
4800 mm	189.0 in	4800 mm	189.0 in	4200 mm	165.4 in	4790 mm	188.6 in	4190 mm	165.0 in
5000 mm	196.8 in	5000 mm	196.8 in	4400 mm	173.2 in	4990 mm	196.5 in	4390 mm	172.8 in
5200 mm	204.7 in	5200 mm	204.7 in	4600 mm	181.1 in	5190 mm	204.3 in	4590 mm	180.7 in
5400 mm	212.6 in	5400 mm	212.6 in	4800 mm	189.0 in	5390 mm	212.2 in	4790 mm	188.6 in
5600 mm	220.5 in	5600 mm	220.5 in	5000 mm	196.8 in	5590 mm	220.1 in	4990 mm	196.5 in
5800 mm	228.3 in	5800 mm	228.3 in	5200 mm	204.7 in	5790 mm	228.0 in	5190 mm	204.3 in



## Dimensions (All dimensions are approximate.)

1 Width – Without Platforms	3333 mm	10 ft 11 in
2 Conveyor Width	914 mm	36 in
3 Maximum Conveyor Height	2820 mm	9 ft 3 in
4 Height to Bottom of Conveyor	770 mm	30.3 in
5 Ground Clearance	350 mm	13.8 in
6 Length – Rear Bumper to Crawler Sprocket	2050 mm	6 ft 8.7 in
7 Length – Crawler Assembly	2850 mm	9 ft 4.2 in
8 Length – Crawler Idler to Loading Unit Tip	2560 mm	8 ft 5 in
9 Length – Loading Unit Tip to Bit Tip	1000 mm	3 ft 3.4 in
10 Overall Length	11 900 mm	39 ft 0.5 in
11 Undercut	200 mm	8 in
12 Zero Cut Height without Rigs	1800 mm	5 ft 11 in
13 Maximum Reach	4150 mm	163.4 in
14 Length – Minimum Bolting Distance to Face	2600 mm	8 ft 6.4 in
15 Maximum Bolting Distance to Face	2850 mm	9 ft 4.2 in

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**Dimensions** (All dimensions are approximate based on the nominal heading shown.)

<b>1</b> Height – Top of Rib Bolter in Parked Position	2413 mm	7 ft 11 in
<b>2</b> Heading Width	5200 mm	17 ft
<b>3</b> Rib Rig – Single Pass Bolt Length with Rig Tilted Up	2205 mm	7 ft 3 in
<b>4</b> Rib Rig – Single Pass Bolt Length with Rig Tilted Down	1888 mm	6 ft 2 in
<b>5</b> Rib Rig – Minimum Bolting Height	1606 mm	5 ft 3 in
<b>6</b> Rib Rig – Nominal Bolting Height	2257 mm	7 ft 5 in
<b>7</b> Rib Rig – Maximum Bolting Height	2885 mm	9 ft 6 in
<b>8</b> Seam Height	3600 mm	11 ft 10 in
<b>9</b> Outer Roof Rig – Nominal Bolting Distance to Machine Centerline	2034 mm	6 ft 8 in
<b>10</b> Inner Roof Rig – Nominal Bolting Distance to Machine Centerline	1011 mm	3 ft 4 in
<b>11</b> Outer Roof Rig – Maximum Bolting Distance to Machine Centerline	2544 mm	8 ft 4 in
<b>12</b> Outer Roof Rig – Minimum Bolting Distance to Machine Centerline	1479 mm	4 ft 10 in
<b>13</b> Inner Roof Rig – Maximum Bolting Distance to Machine Centerline	1435 mm	4 ft 8.5 in
<b>14</b> Inner Roof Rig – Minimum Bolting Distance to Machine Centerline	454 mm	1 ft 6 in

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