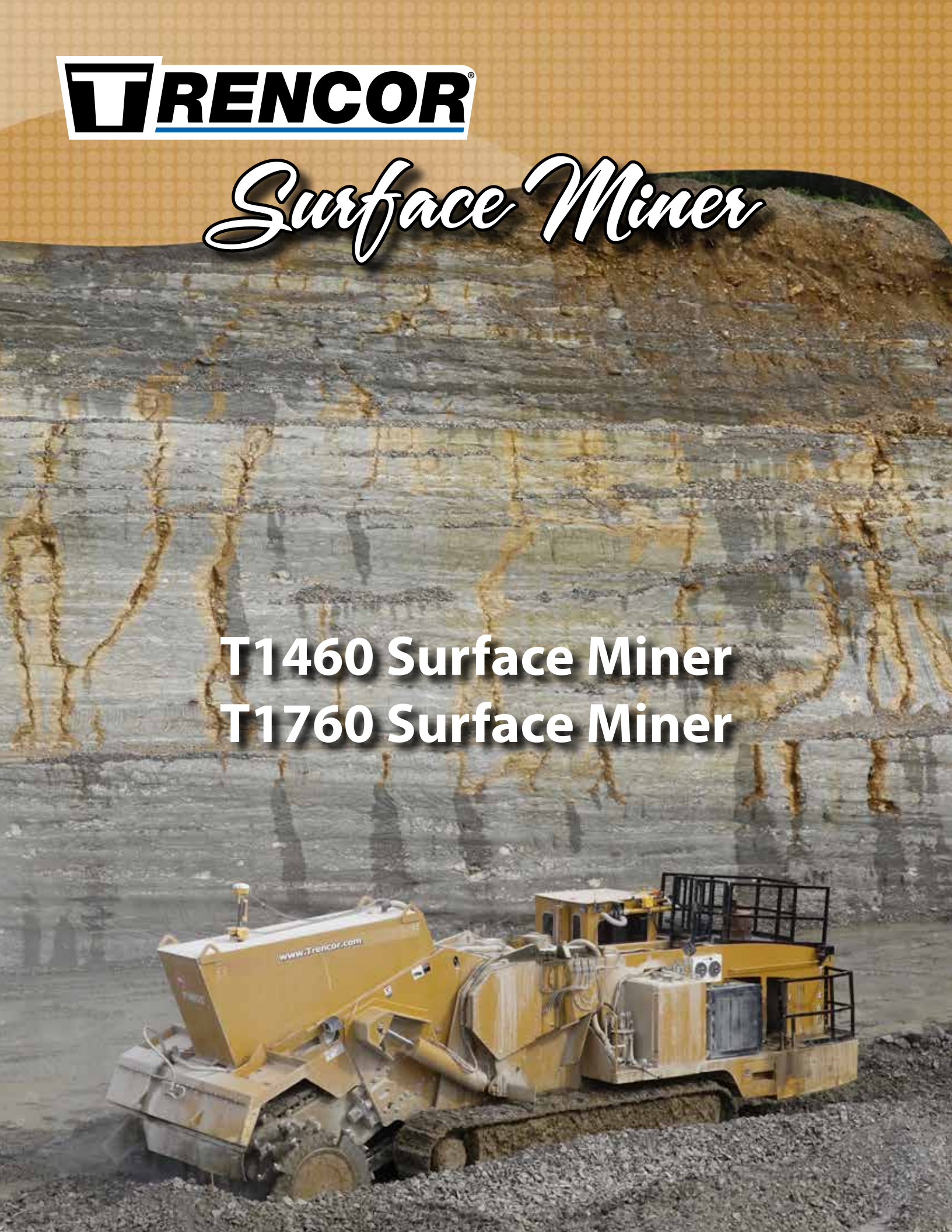
TRENCOR®

Surface Miner

T1460 Surface Miner
T1760 Surface Miner



The *Greener* Choice over Blasting

· Greatly reduced noise & dust pollution

· Eliminates the need for drilling & blasting with dangerous explosives

· Productive alternative when in proximity to populated areas

Surface Miner

Building Foundations · Road Development · Mining

Eliminates drilling & blasting · Clean, even cut

No need to invest in a primary crusher for new Greenfield development projects

Mining operators have the opportunity to increase production without permanent infrastructure; enabling rapid expansion beyond existing primary crusher capacity

Consistent spoil sizes · High production · Cost competitive

TRENCOR®

Rotary
Surface Mining
Attachment

The mechanically-driven drum operates at a cutting speed and breakout force which are selected through a range of 4 gears. Power is driven through a strong, durable Allison® transmission with a torque converter to increase digging force in tough conditions.

The drum components are designed and manufactured from high strength, heat treated steels such as A514, 4140, 4340 and other alloys. These heavy-duty steels are structured to withstand high break-out force in hard rock. The Trencor mechanical powertrain delivers ultimate power to the cutting tools.

The pattern in which the tools are welded to the barrel vigorously grind materials to the required gradation (spoil size).

TRENCOR®

Operator's Control Center

· Fully enclosed and pressurized cabin with filtration for dust control.

· Suspended seat with high back and arm rests.

· Heated & air-conditioned cabin.

· 6 LED flood lights for good visibility.

· Certified roll-over and fall-on (ROPS & FOPS) protective cabin.

· Joystick and controls are CAN based with a Danfoss® processor and a 4-button control screen.

· Equipped with processor-based load control to facilitate maximum power at all times.

· Options available for GPS and/or laser guidance system for more consistent grade control.

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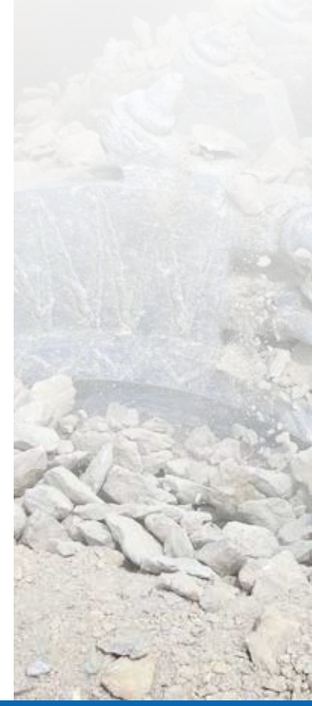
The Trencor® *Surface Miner* can Assist in Developing your Greenfield Mine Prior to Actual Mining!

Create haul roads, conveyor landing spots, jobsite office locations, workshop sites, stock pile settings, parking areas and mining sites before the Surface Miner moves permanently to the mining site for long term, day-to-day operation.

Performance Specifications

	T1460 Surface Miner	T1760 Surface Miner
Caterpillar® Engine	C18 Tier 3, Stage IIIA	C27 Tier 2
Power	470 kW (630 (HP) @ 2100 RPM	1274 kW (950 HP) @ 2100 RPM
Torque	2768 Nm (2042 ft. lbs.)	4341 Nm (3122 ft. lbs.)
Full Power	131 L (34.6 US gal.) / hour	178.2 L (47.1 US gal.) / hour
Fuel Capacity	1450 L (383 US gal.)	2256 L (596 US gal.)
Hydraulic Capacity	965 L (255 US gal.)	900 L (238 US gal.)
Hours/Full Tank - Full Power	11.1	12.6
Transmission	Allison® 6600	Allison® 8600
Cutter Speed / Cutter Force		
First Gear	50 m (164 ft.) / minute @ 8.97 RPM / 537 kN (120,636 lbs.)	103 m (339 ft.) / minute @ 18.59 RPM / 391 kN (87,803 lbs.)
Second Gear	66 m (218 ft.) / minute @ 11.96 RPM / 402 kN (90,477 lbs.)	142 m (465 ft.) / minute @ 25.49 RPM / 285 kN (64,027 lbs.)
Third Gear	99 m (325 ft.) / minute @ 17.83 RPM / 270 kN (60,723 lbs.)	183 m (602 ft.) / minute @ 33.01 RPM / 220 kN (49,450 lbs.)
Fourth Gear	134 m (439 ft.) / minute @ 24.08 RPM / 200 kN (44,947 lbs.)	240 m (786 ft.) / minute @ 43.10 RPM / 168 kN (37,872 lbs.)
Reverse Gear	26 m (85 ft.) / minute @ 4.68 RPM / 1424 kN (320,115 lbs.)	42 m (137 ft.) / minute @ 7.50 RPM / 969 kN (217,766 lbs.)
Weights		
Machine Weight	84,642 kg (186,600 lbs.)	97,978 kg (216,000 lbs.)
Minimum Operating Weight	112,165 kg (247,277 lbs.)	131,482 kg (289,865 lbs.
Shipping Weight (no counterweight, boom or tracks)	49,170 kg (103,400 lbs.)	61,690 kg (136,000 lbs.)
Undercarriage Weight	22,680 kg (50,000 lbs.)	31,297 kg (69,000 lbs.)
Counterweight	2268 kg (5000 lbs.)	4536 kg (10,000 lbs.)
Attachment	27,523 kg (60,677 lbs.)	33,505 kg (73,865 lbs.)



Dimensions

Dimensions	T1460 Surface Miner	T1760 Surface Miner
(A) Machine Length (no attachments)	10,196 mm (401.4 in.)	11,074 mm (436 in.)
(B) Machine Width (no attachments)	3548 mm (139.7 in.)	4196 mm (165.2 in.)
(C) Machine Overall Width	3835 mm (151 in.)	4496 mm (177 in.)
(D) Machine Overall Height	4176 mm (164.4 in.)	4313 mm (169.8 in.)
(E) Track Width	762 mm (30 in.)	800 mm (31.5 in.)
(F) Track Length	4851 mm (191 in.)	4801 mm (189 in.)
(G) Frame Height	414 mm (16.3 in.)	533 mm (21 in.)
(H) Frame Width	1651 mm (65 in.)	2083 mm (82 in.)
(I) Deck Height	1511 mm (59.5 in.)	1620 mm (63.8 in.)
(J) Cab Height, Lowered	3772 mm (148.5 in.)	3886 mm (153 in.)
(K) Cab Extended	1067 mm (42 in.)	1067 mm (42 in.)
(L) Front Overhang Height	696 mm (27.4 in.)	676 mm (27.4 in.)
(M) Front Overhang Distance	3251 mm (128 in.)	4115 mm (162 in.)
(R) Machine Length (Short Boom)	11,989 mm (472 in.)	13,157 mm (518 in.)
(S) Diggine Depth (Short Boom)	1067 mm (42 in.)	1067 mm (42 in.)
(T) Cutting Range Width	3835 mm (151 in.)	4496 mm (177 in.)
Track Chain Pitch	heavy duty 9 in.	heavy duty 10.25 in.
Digging Chain Pitch	(2) heavy duty 9 in.	(3) heavy duty 9 in.
Height Without Tracks	3429 mm (135 in.)	3345 mm (131.7 in.)
Shipping Width	3493 mm (137.5 in.)	4186 mm (164.8 in.)

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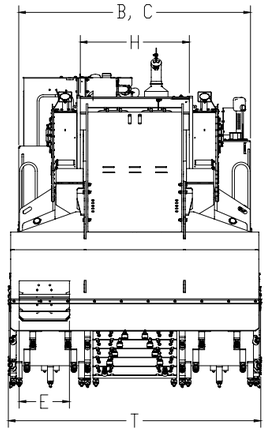

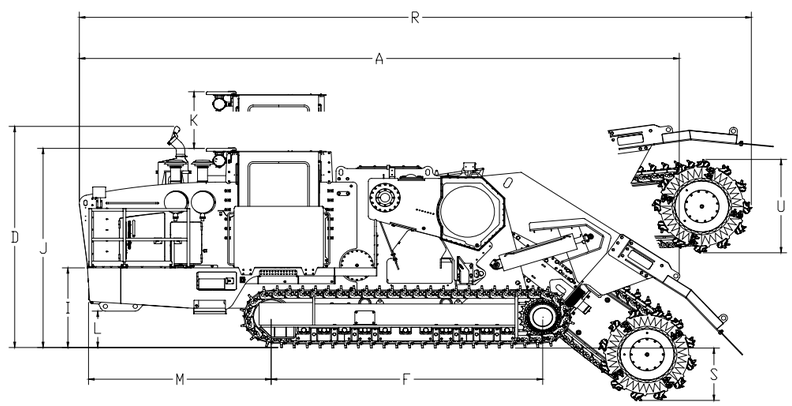

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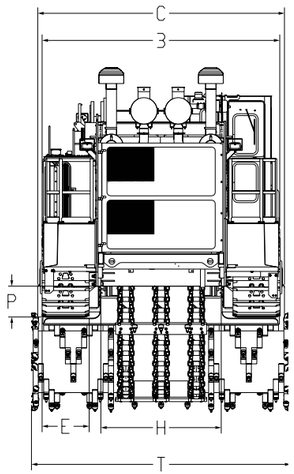

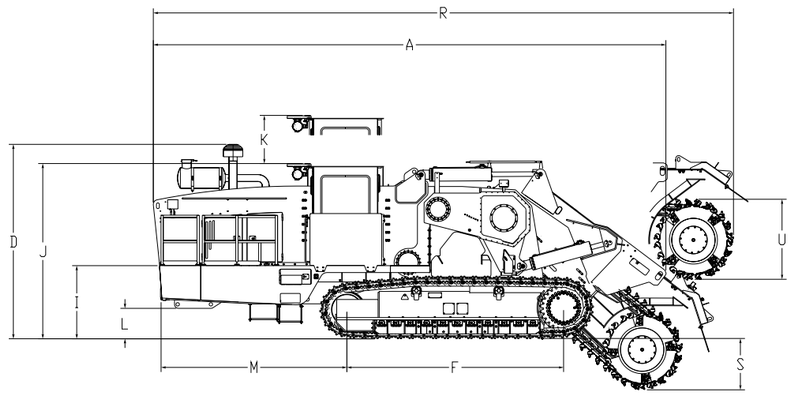

TRENCOR®

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