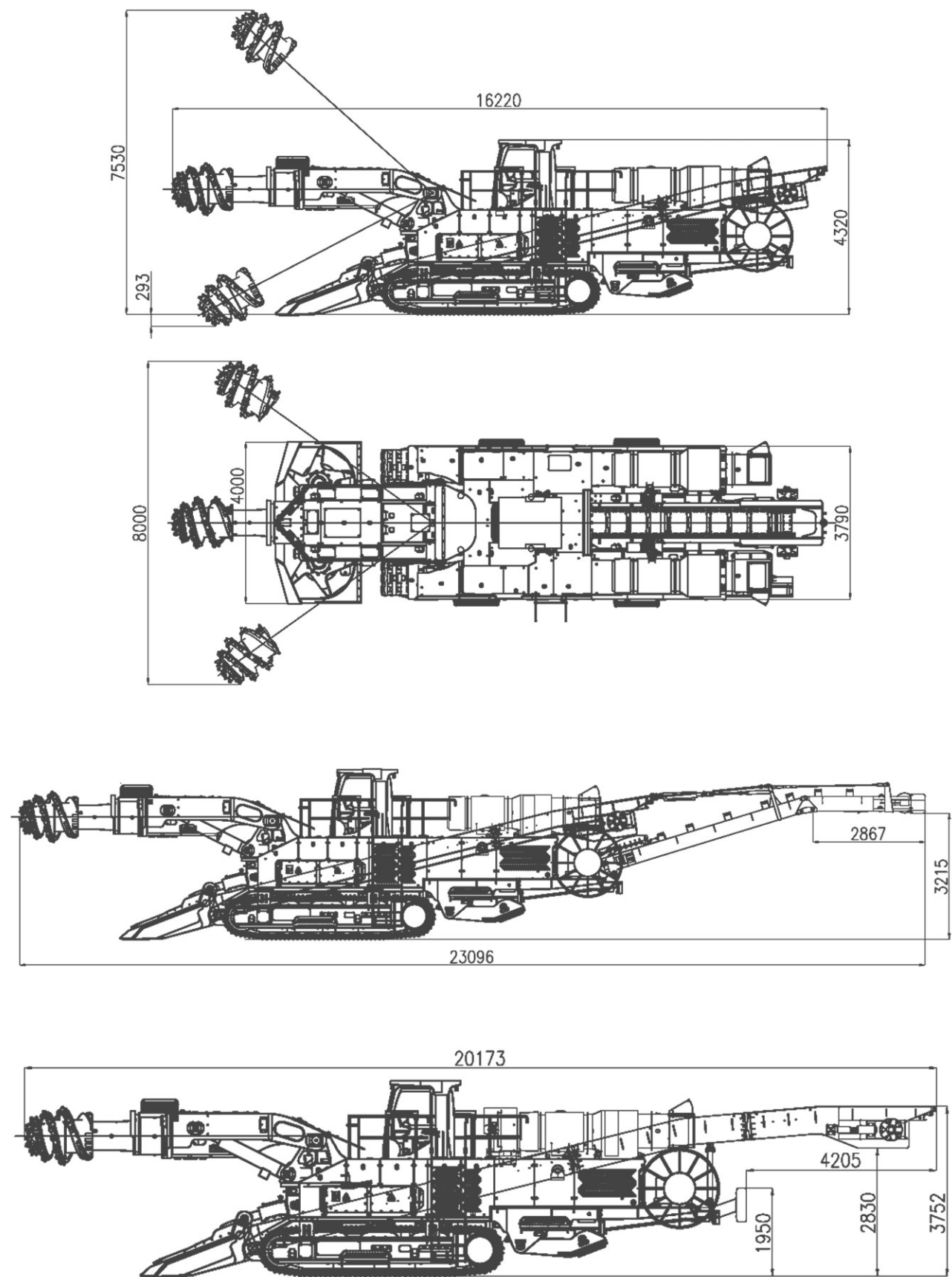


TECHNICAL DRAWING



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CREG CTR323 ROADHEADER

PRODUCT LEAFLET





CREG CTR323

CTR series roadheaders by CREG are efficient integrated operation machines integrating cutting, traveling, loading, spraying, and dust suppression functions. They feature a high degree of mechanization, minimal damage and disturbance to surrounding rocks, excellent tunnel section formation, easy control of over-excavation and under-excavation, continuous excavation and mucking, few operators, low labor intensity, high safety, and flexible adaptability to sections. They are the most suitable mechanical excavation equipment for tunnels constructed using mining methods, in line with the principles of the New Austrian Tunneling Method. Because of their crawler-type traveling mechanism, they are easy to turn and climb slopes, and have strong adaptability to complex geological conditions. They are widely used in tunnel construction for subways, municipal projects, highways, and water conservancy projects.

At present, CREG has mass-produced three roadheader series: CTR450, CTR323, and CTR300A, along with a range of specialized models such as hard rock, soft rock, plateau, metro, water conservancy, and mine roadheaders. They have been successfully applied to various complex strata, including old hard loess, broken mudstone/sandstone/dolomite/limestone/glutenite, intact mudstone/sandstone/dolomite/limestone, carbonaceous slate/phyllite with high geostress, and red beds in central Yunnan. The surrounding rock strength ranges from 5 to 120 MPa, and the applicable construction methods include the full-section method, two-bench method, circular excavation with reserved core soil method, double sidewall heading method, and CD method. The application fields cover various sizes of single-track, double-track, and double-arch tunnels and adits for railways, highways, subways, water conservancy projects, municipal projects, and mines. The excavation sections include circular, rectangular, and horseshoe sections, which have been highly recognized by customers.



KEY FEATURES AND BENEFITS

- 1 Wide cutting range, with a cutting width of 8 m, a cutting height of 7.5 m, and a single pass cutting area of up to 57.5 m²;
- 2 Excellent overall machine stability, capable of efficiently cutting rocks with a uniaxial compressive strength of 80 Mpa;
- 3 Equipped with an on-board dust removal system with a treated air volume of over 1000 m³/min, which can effectively control dust during operation;
- 4 Equipped with a closed cab (with optional cab air treatment and air-conditioning systems), and a high-strength protective shed to ensure operator safety during operation;
- 5 An optional intelligent system enables status monitoring of key components of the entire machine, automatic adjustment and control of cutting parameters after sensing working conditions, measurement of excavation volume and footage, detection and control of over-excavation and under-excavation, three-dimensional data archiving of the tunnel excavation profile, and semi-automated cutting path planning and operation.



TECHNICAL DATA

Machine model	CTR323
Overall length w/wo second belt conveyor, min. (m)	23.5/16.2
Height, min (m)	4.32
Total weight +/-5 (t)	132.5
Ground pressure (MPa)	0.18
Cutting height, max. (m)	7.5
Cutting width, max. (m)	8
Undercut max. (mm)	265
Cutting speed, 50 Hz (m/sec)	1.92/1.25
Loading table width (m)	4
Maximum navigable in-&decline gradient	±16
Maximum navigable side gradient (°)	±8
Navigable cone radius, min. (m)	25
Navigable basin radius, min. (m)	20
Electric supply voltage (V)	1140
Cutter motor (kW)	323/220
Tramming speed, max. (m/min)	75
Total installed power (kW)	633

KEY COMPONENTS AND FUNCTIONS OF CTR323 ROADHEADER

