AXERA T11 DATA-315



APPLICATION

The Tamrock Axera T11 DATA-315 is a computer controlled 3-boom electro-hydraulic jumbo for fast and accurate drilling in tunneling and cavern excavation of $20-177~\text{m}^2$ cross sections.

The TDATA is an automatic control system for all drilling functions and boom positioning under supervision of a rig operator. The user interface consists of an ergonomically designed operator panel with color display and integrated keyboard for data drilling operations. The computerized drilling of a preprogrammed drill plan enables continuous productivity, quality and economy. TDATA includes TLOG system for data collection and reporting. Extensive built-in diagnostics help to minimize maintenance time.

The HFX5T high frequency rock drills deliver superior performance with high consumable life.

The TB 150 universal booms have a large optimum shaped coverage and full automatic parallelism. The booms can also be used for cross-cutting, bolt hole drilling and extension drilling applications. An optional basket boom for bolting and utility works is available.

The powerful 4-wheel-drive wheel steered carrier ensures rapid and safe tramming with good balance.

The noise and vibration insulated safety cabin provides an ergonomic workplace with excellent visibility for both tramming and drilling.

MAIN SPECIFICATIONS

Carrier	1 x TC 11	
Safety cabin	1 x FOPS (ISO 3449)	
	Elevating (1 000 mm)	
Rock drill	3 x HFX5T	
Feed	3 x TF 500–18	
Boom	3 x TB 150	
Control system	1 x TPC 561 DATA	
Powerpack	3 x HP 575 (75,0 kW)	
Air compressor	1 x CT 28 (18,5 kW)	
Shank lubricating device	1 x SLU 3	
Water pump	1 x WBP 3 HP (11,0 kW)	
Main switch	1 x MSE 30	
Cable reel	1 x TCR 6 E	
Greasing reel	1 x reel	
	With pump and nozzle	

Length	17 780 mm
Width	2 900 mm
1.1-1-1-4	

Height

Cabin down 3 690 mm
Cabin up 4 690 mm
Weight 40 500 kg

Tramming speed

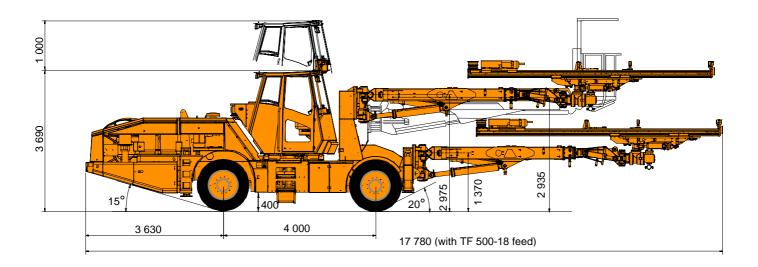
Horizontal 12,0 km/h 14 % = 1:7 = 8° 3,5 km/h Gradeability 28 % = 1:3,5 = 15°

Noise level (EN 791, free field condition) In cabin LpA = 80 dB Emitted LwA = 128 dB



AXERA T11 DATA-315

GENERAL DIMENSIONS



TC 11 CARRIER

Diesel engine

Transmission

Axles

Brakes

Service

Parking and emergency

Tyres

Steering

Rear oscillation Ground clearance Fuel tank

Hydraulic jacks

Front

Rear Safety cabin MB OM 904 LA 110 kW (148 hp)

Clark 20 000 Hydrodynamic

Clark-Hurth

Hydraulically operated wet

disc brakes

SAHR type fail-safe Front: dry disc brakes

Rear: wet disc brakes 14.00 - 24 PR 28

Double wheels in front

Axle steering in engine end

Orbitrol

+ 8° 400 mm

150 I

2 x TJ 60 Telescopic 2 x TJ 75

FOPS (ISO 3449) Elevating (1 000 mm)

Pressurized

Cabin heating (drilling)

Operator seat

HFX5T ROCK DRILL

Weight 218 kg Length 1 020 mm Profile height 87 mm Power class 24,5 kW

Max working pressure

Percussion 245 bar Rotation 175 bar

Max torque

125 cm³ motor 625 Nm

Stabilizer Hydraulic, 2-stage 45 – 64 mm Hole size Recommended steel T38-H35-R32 T38-H35-alpha 330

T38-R39-R35

Shank adapter 7304-7585-01 (T38)

Flushing water pressure 10 - 20 bar

TF 500 FEED

Cylinder - wire rope Feed type Feed force 25 kN

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FEED TF 500-	Total length (mm)	Hole length (mm)	Rod length (mm)	Machine length (mm)
14'	5 880	4 050	4 305	16 740
16'	6 490	4 660	4 915	17 340
18'	7 100	5 270	5 525	17 780
20'	7 710	5 880	6 135	18 540
21'	8 015	6 180	6 440	18 740



Technical Specification 6-9290-K 2006-09-13

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TURNING RADIUS 6 040 11 860

TB 150 BOOM

Parallel coverage 159 m² Boom extension 3 200 mm Feed extension

With TF-feed 1 650 mm Boom weight, net 3 300 kg Rotation angle 358°

TPC 561 DATA CONTROL SYSTEM

Operational levels **AUTO MANIPULATOR** DIRECT

Power control

Rotation control Automatic functions

Fully automatic operation Manual operation Special operation and service Adjustable full power Adjustable collaring power Adjustable rotation speed Boom positioning with - Correct feature for feed alignment - Find rock feature Collaring with

- Rock detect feature - Two ramps to full power Feed controlled percussion Adaptive drilling

Anti-jamming Flushing with - Flow control

- Hole cleaning with air Stop and return

Reaming

Extension drilling controls Self-diagnostics

Real time fault finding System messages on screen Alarm logs Service mode for check-up and calibration

HP 575 POWERPACK

Electric motor 1 x 75 kW 3-phase motor

Pump types

Percussion, feed and boom Rotation

Basket boom (option)

Filtration

Pressure Return Oil tank volume Tank filling Oil cooling

1 x 148 l/min variable displacement axial piston pump 1 x 81 l/min variable displacement axial piston pump

1 x 45 l/min gear pump

1 x 20 micron 1 x 10 micron Max. 470 I, min. 270 I 1 x electric pump 1 x OW 30 water cooler

AIR CIRCUIT

Compressor type 1 x CT 28 (18,5 kW) Capacity 2,8 m3/min, 7 bar Shank lubricating device 1 x SLU 3

Air consumption 250 - 350 l/min / rock drill Oil consumption 180 - 250 g/h / rock drill

WATER CIRCUIT

Water pump type 1 x WBP 3 HP (11,0 kW) Capacity 375 l/min (15 bar) With 5 bar inlet pressure Inlet pressure 2 – 7 bar (while drilling)

Outlet pressure control valve 1 x WP 100 HP

ELECTRICAL SYSTEM

Total input power 255 kW Main switch 1 x MSE 30 380 - 690 VAC Standard voltages Voltage fluctuation Max. ± 10 %

Lighting

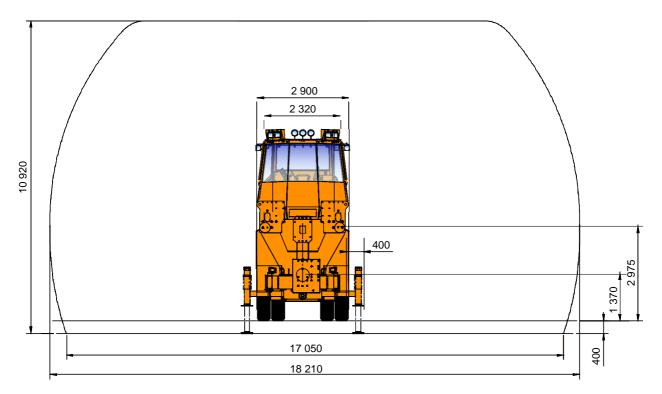
Combined working and driving lights (24 VDC) Working lights

12 x 35 W (HID) front 2 x 35 W (HID) rear **Driving lights** 2 x 35 W (HID) rear Automatic cable reel 1 x TCR 6 E



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COVERAGE AREA



OPTIONAL EQUIPMENT

DRILLING SYSTEM

- *) 3 x 55 kW powerpacks and 3 x HLX5T rock drills
- *) Feed length 14', 16', 20' or 21'
- *) TB 90 middle boom
- Rod retainer TRR1 for one feed
- TRS two-rod system for one boom (includes TRR1)
- Air mist flushing kit for auxiliary water/air connection

ELECTRICAL SYSTEM

- Electric cable rubber or PUR
- Ground fault and overcurrent unit VYK
- *) 1 000 VAC electric system
- Star-Delta starting (380 690 VAC only)
- Spotlight 70 W (24 VDC) for basket boom TBB 5i

CARRIER

- *) Carrier TC 12 (170 kW) with transmission Clark 32000
- Air conditioning for cabin
- Cabin heating (tramming)
- 12 VAC electric outlet and CD-player / radio readiness
- CD-player / radio in cabin
- Exhaust scrubber
- · Exhaust catalyzer
- Complete spare wheel

OTHER OPTIONAL EQUIPMENT

- Fire extinguisher (bottle only)
- Manual fire suppression system ANSUL, 8 nozzles
- Pressure cleaning system (15 bar) with reel
- High pressure cleaning system with reel and handset
- · Automatic water hose reel THR 5 E
- Water hose 2" (60 m)
- Automatic greasing system (Lincoln)
- Biodegradable oils
- Basket boom TBB 5i (Note: Change in weight)
- FOPS safety canopy for basket boom TBB 5i
- PC computer with factory installed software
- *) EU, UL, CSA, AUS norms package

*) = Replaces standard component

