

AXERA 5-126 UNDERGROUND DRILLS

TECHNICAL SPECIFICATION



APPLICATION

The Axera 5-126 is a single boom electro hydraulic jumbo for mine development and tunneling in cross sections up to 38 m².

The robust universal boom have a large optimum shaped coverage, 360° rotation and full automatic parallelism for fast and easy face drilling. The boom can also be used for cross-cutting and bolt-hole drilling.

The jumbo layout is designed for good visibility and balance, this and the powerful four-wheel-drive articulated carrier ensure fast and safe manoeuvring in narrow drifts.

The high performance drilling system allows high drilling performance with good drill steel economy and high machine reliability.

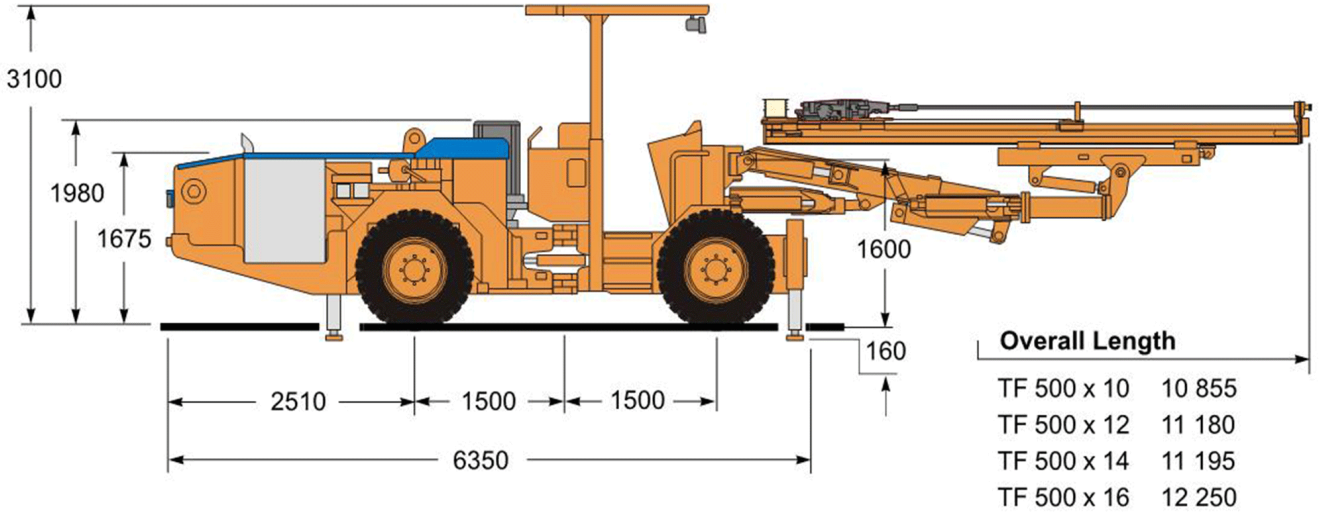
The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

All the service points are well protected but easy to access.

MAIN SPECIFICATIONS

Carrier	1 x TC 5
Safety canopy	1 x FOPS / ROPS
Rock drill	1 x HLX5
Feed	1 x TF 500
Boom	1 x B 26 F
Control system	1 x THC 560
Powerpack	1 x HP 560 (55 kW)
Shank lubrication device	1 x KVL 10-1
Air compressor	1 x CT 10
Water pump	1 x WBP 1
Main switch	1 x MSE 05
Cable reel	1 x TCR 1
Length	10 855 mm
Width	1 750 mm
Height	2 100 / 3 100mm
Weight (without options)	12 000 kg
Tramming speed	
- Horizontal	12 km/h
- 14% = 1:7 = 8°	5 km/h
Gradeability, max	35 %
Noise level	< 98 dB(A)

GENERAL DIMENSIONS



All dimensions in mm

HLX5 ROCK DRILL

Weight	210 kg
Length	955 mm
Profile height	87 mm
Power class	20 kW
Max working pressure	- Percussion 225 bar
	- Rotation 175 bar
Max torque (80 ccm motor)	400 Nm
Hole size	43 - 64 mm
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

Feed type	Cylinder - wire rope
Feed force	25 kN

TF 500	500x10	500x12	500x14	500x16
Total length (mm)	4660	5270	5880	6490
Drill steel length (mm)	3090	3700	4305	4915
Hole depth (mm)	2830	3440	4050	4660
Net weight (kg)	470	500	530	560

B 26 F BOOM

(Technical specification 4-200 S)

Type	Parallel holding
Weight (with hoses)	1 900 kg
Feed roll-over	360°
Boom extension	1 200 mm
Feed extension	1 600 mm

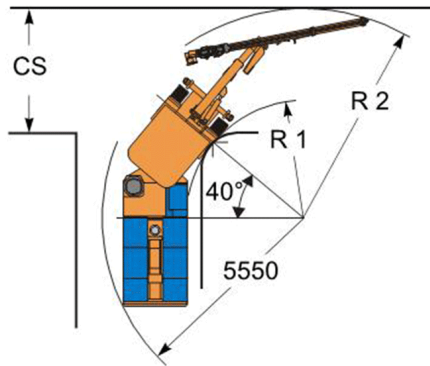
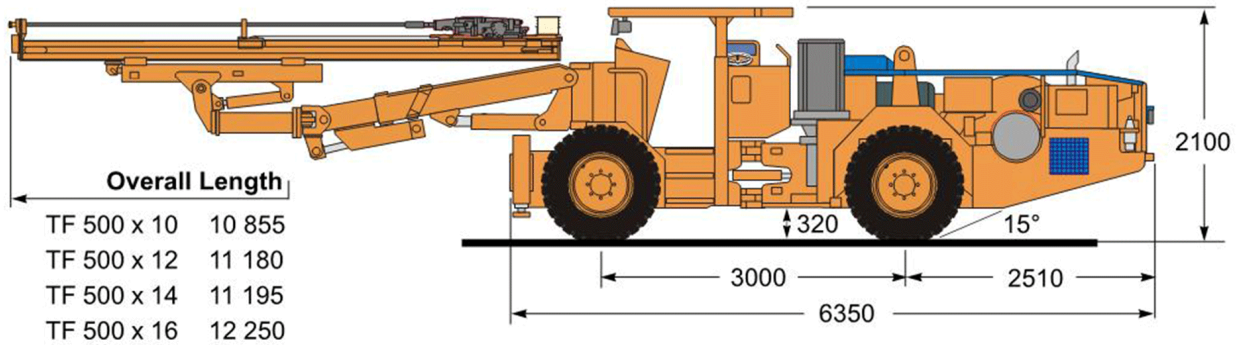
THC 560 CONTROL SYSTEM

Power control	Adjustable full power
	Adjustable collaring power
Rotation control	Adjustable rotation speed
	Reversible rotation
Automatic functions	Collaring
	Feed controlled percussion
	Anti-jamming
	Flushing
	Stop-and-return
Boom controls	Fully proportional

HP 560 POWER PACK

Electrical motor	1 x 55 kW (75 hp)
	3-phase motor
Pump types	
- Percussion, feed & boom	Axial piston,
	1 x 130 l/min variable displacement
- Rotation	1 x 60 l/min gear pump
Filtration	- Pressure 1 x 20 micron
	- Return 1 x 10 micron
Hydraulic tank volume	180 liters

TRAMMING DIMENSIONS



TURNING RADIUS

	R 1	R 2	CS
TF 500 x 10	3260	5655	3290
TF 500 x 12	3260	5800	3435
TF 500 x 14	3260	5945	3580
TF 500 x 16	3260	6070	3705

All dimensions in mm

TC 5 CARRIER

Diesel engine	Deutz BF4L 2011, 55 kW (74hp)
- Exhaust	Catalyser
Transmission	Hydrostatic, automotive
Transfer case	Drop gear Clark-Hurth
Axles, Front & Rear	Case New Holland D45
- Oscillation	Rear axle, 2 x 10°
- Tyres	12.00 x 20
Steering	Frame steering, 2 x 40°
Brakes	
- Service	Hydrostatic transmission+positive braking
- Emergency & parking	Hydraulic oil immersed multiple disc brakes on both axles
Stabilizers	2 hydraulic jacks, front 2 hydraulic jacks, rear
Safety canopy	Hydraulic, FOPS-ROPS
- Lowering capability	1 000 mm
Fuel tank	80 liters
Hydraulic tank	55 liters

WATER CIRCUIT

Water pump type	1 x WBP 1
- Capacity	30 l/min at 11 bar
- Electric motor	4 kW (5.5 hp)
Oil cooler	OW 30, water-actuated counterflow
- Cooling capacity	30 kW

ELECTRICAL SYSTEM

Total installed power	70 kW
Main switch	1 x MSE 05
Standard voltages	380...690 V / 50 or 60 Hz
Voltage fluctuation	Max ±10 %
Starting method	Direct start
Cable reel	1 x TCR 1
- Capacity (rubber cable)	130 m - 33 mm O.D
Lighting (24 V)	
- Working lights	2 x 35 W HID, front 2 x 70 W, rear
- Driving lights	2 x 70 W, front 2 x 70 W, rear

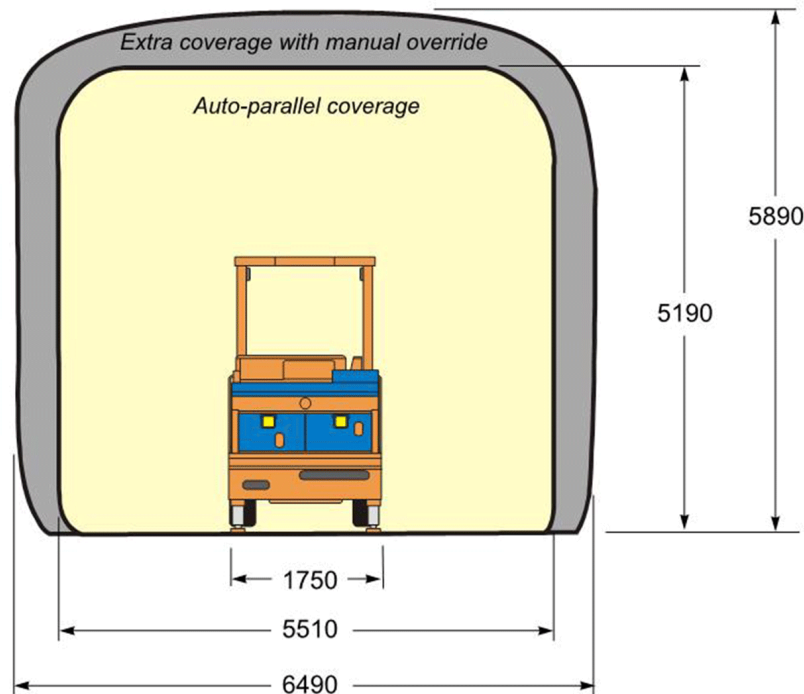
AIR CIRCUIT

Compressor	C.T. 10, screw type
- Capacity	1000 l/min at 7 bar
Electric motor	7.5 kW (10 hp)
Shank lubrication device	1 x KVL 10-1
- Air consumption	250-350 l/min
- Oil consumption	180-250 g/h

FULL DIESEL VERSION OPTIONAL

Water-cooled engine	Deutz BF4M 2012C
- Max. rating at 2200 rpm	93 kW (125 hp)
Fuel tank capacity	240 liters
Compressor & water pump driven by hydraulic motors	
Total machine weight	10 500 kg

COVERAGE AREA



Axera 5-126 on jacks.
All dimensions in mm.

OPTIONAL EQUIPMENT

DRILLING SYSTEM

- *) HL 510S rock drill.
- *) Telescopic feed TFX 500 series.
- TRS two rod system with controls (incl. TRR 1).
- *) Rod retainer TRR 1.
- *) B 26 NV boom.
- Drill angle measuring instrument TMS D1.
- Auto air flushing on rock drill return.
- *) SLU 1 shank lubricating device.
- *) Double flushing (air/water) with CT 10 compressor (incl. 2 x 60 l air receiving).
- *) Double flushing (air/water) with 11 kW CT 16 compressor (incl. 2 x 60 l air receiving).
- Air cleaner IP5 plus auxiliary connection for mine air network.
- *) Air mist flushing kit for auxiliary water/air connection.
- *) Drilling on both electric and Diesel.

ELECTRICAL SYSTEM

- *) 1 000 V electric power supply.
- Ground fault and overcurrent unit VYK
- Electric cable rubber ou PUR.
- *) Star-Delta electric starting method (380...690 V only).
- 2 x 35 W High Intensity Discharge (HID) extra working lights.

CARRIER

- Complete spare wheel.
- Hand pump for manual brake release.
- *) Stainless steel 350 l water tank.
- *) Exhaust scrubber.

OTHER OPTIONAL EQUIPMENT

- Fire extinguisher (bottle only).
- Manual fire suppression system ANSUL, 6 nozzles.
- Pressure cleaning system (10 bar) with reel.
- Automatic water hose reel (60 m capacity).
- Water hose 1"½.
- *) Electric filling pump for oil.
- Greasing reel with pump and nozzle.
- Centralized greasing.
- Automatic lubrication system (Lincoln).
- Biodegradable oils.
- Fast filling and evacuation system (Wiggins) for fuel.
- Fast filling and evacuation system (Wiggins) for fuel, transmission, engine and hydraulic oil.
- *) EU, UL, CSA, AUS norms package..
- Manuals other than French/English language.

*) replaces standard component.