



APPLICATION

The Axera 5-140 is a single boom electro hydraulic jumbo for mine development and tunneling in cross sections up to 41 m².

The robust universal boom have a large optimum shaped coverage 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.

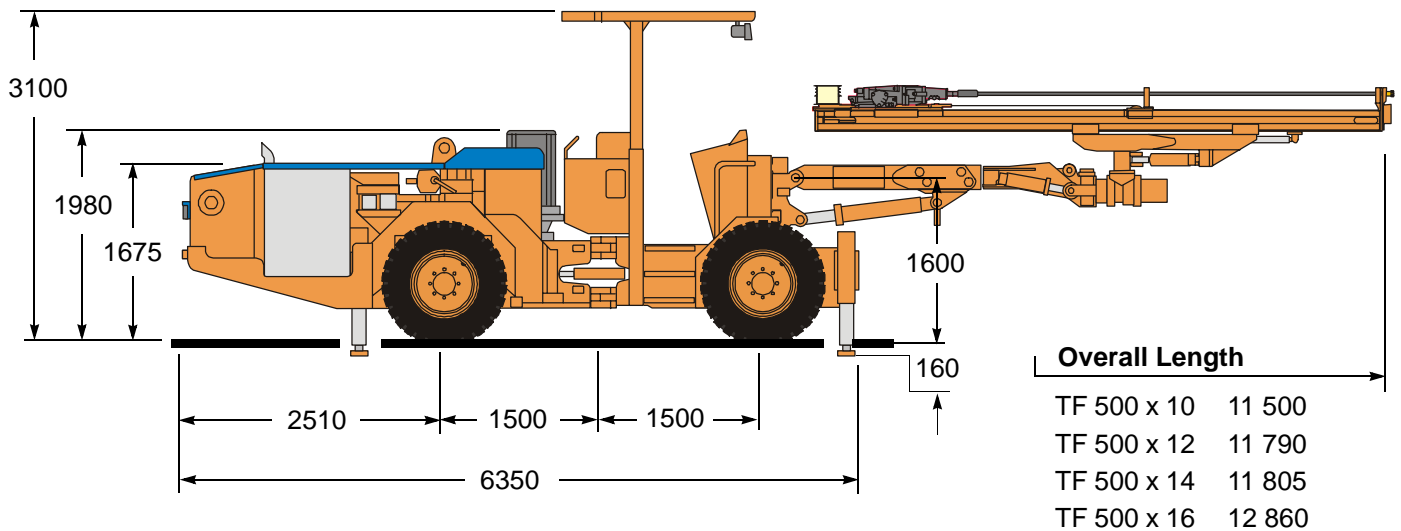
The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

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 TB 40 |
| Control system | 1 x THC 560 |
| Powerpack | 1 x HP 560 (55 kW) |
| Shank lubricating 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 | 11 500 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 |

TB 40 BOOM

| | |
|---------------------|------------------|
| Type | Parallel holding |
| Weight (with hoses) | 1 850 kg |
| Feed roll-over | 358° |
| Boom extension | 1 050 mm |
| Feed extension | 1 350 mm |

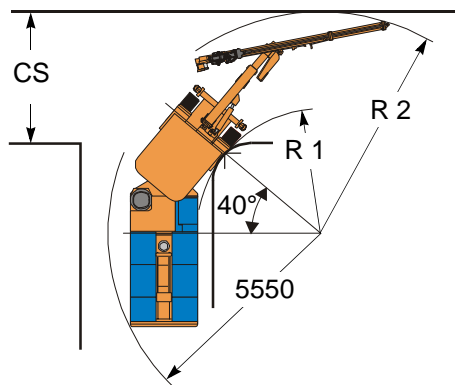
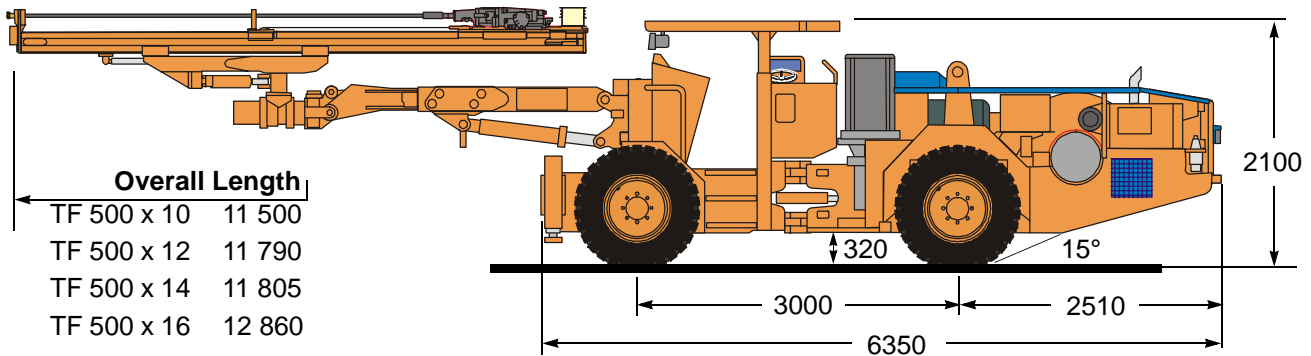
THC 560 CONTROL SYSTEM

| | |
|---------------------|----------------------------|
| 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 | 6010 | 3630 |
| TF 500 x 12 | 3260 | 6165 | 3790 |
| TF 500 x 14 | 3260 | 6320 | 3950 |
| TF 500 x 16 | 3260 | 6450 | 4090 |

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 |

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 |

WATER CIRCUIT

| | |
|--------------------|-----------------------------------|
| Water pump type | 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

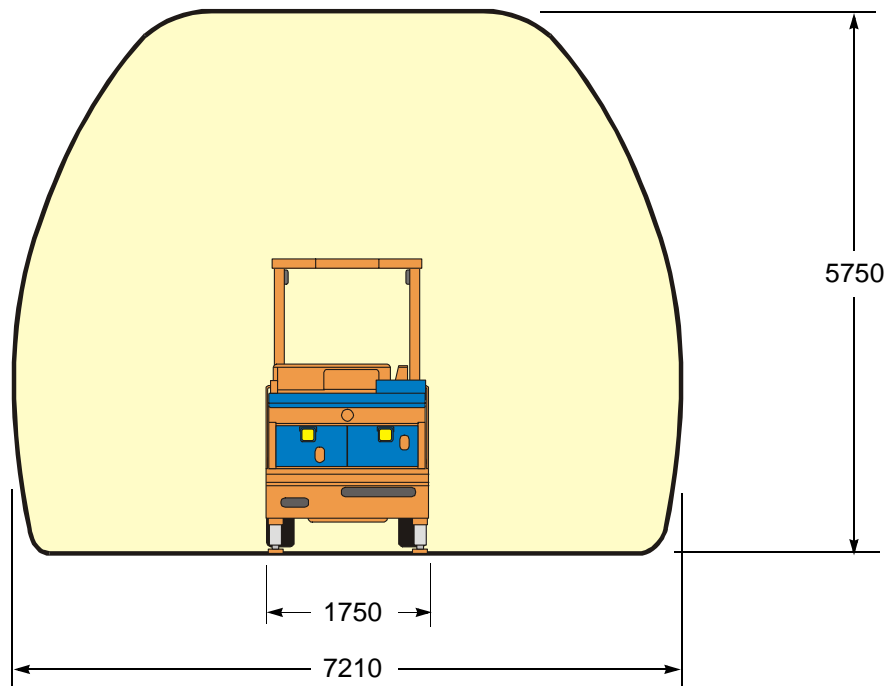
| | |
|---------------------------|---------------------------------------|
| Total installed power | 70 kW |
| Main switch | 1 x MSE 05 |
| Standard voltages | 380...690 V / 50 or 60 Hz |
| Voltage fluctuation | Max ±10 % |
| Starting method | Direct start |
| Cable reel | 1 x TCR 1 |
| - Capacity (rubber 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 |

FULL DIESEL VERSION OPTIONAL

| | |
|--|------------------|
| Water-cooled engine | Deutz BF4M 2012C |
| - Max. rating at 2300 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 5-140 on jacks.
All dimensions in mm.



OPTIONAL EQUIPMENT

DRILLING SYSTEM

- *) HL 510S rock drill.
- *) Telescopic feed TFX 500 6/12 or TFX 500 8/14.
- TRS two rod system with controls (incl. TRR 1).
- *) Rod retainer TRR 1.
- 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 or 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.