

APPLICATION

The CTH 14F is a compact and flexible single boom electro hydraulic jumbo for mining development in cross sections up to 24 m². This track-mounted flameproof jumbo is particularly suited for underground coal mines. It is only available for India and Vietnam.

The robust universal boom has 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.

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

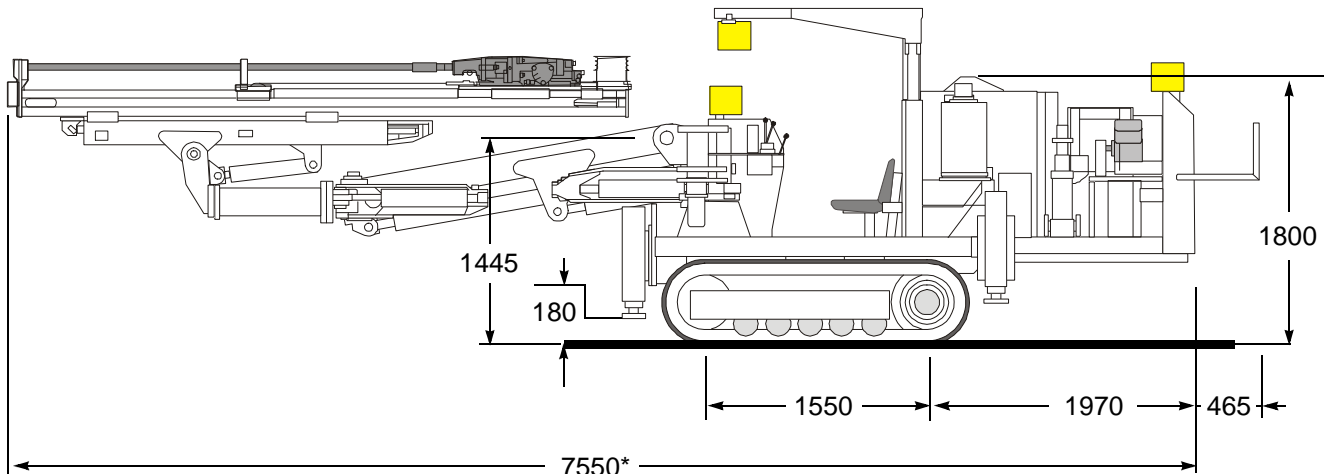
The comfortable operator environment and the automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

All the service points are well protected, but easy to access, to ensure fast and cheap maintenance and maximum machine reliability and availability.

MAIN SPECIFICATIONS

Carrier	1 x CTH 14
Safety canopy	1 x Protective Structure
Rock drill	1 x HL 510
Feed	1 x NVT 8/12
Boom	1 x B 14 F
Power pack	1 x 55 kW FLP
Air compressor	1 x TUFLO 1000
Water pump	1 x Water Booster Pump
Length	8 015 mm
Width	1 700 mm
Height (without canopy)	1 800 mm
Ground clearance	180 mm
Weight	6 600 kg
Tramming speed	2 km/h
Gradeability, max	30 %

GENERAL DIMENSIONS



* depending on feed type / length

All dimensions in mm, subject to change without further notice

HL 510 ROCK DRILL

Standard male shank	T 38
Weight	130 kg
Percussion pressure	120 - 175 bar
Rotation (max)	175 bar
Impact power	16 kW

NVTF 8/12 FEED

(Technical Specification 3-401 S-D)

Model	NVT 8/12
Drill steel	H 25
Feed length	3900 + 860 mm
Feed force	9 kN/120 bar
Steel length	2 475 mm
Weight	480 kg

B 14F BOOM

(Technical Specification 4-100 S-E)

Type	Parallel holding
Weight (with hoses)	1 200 kg
Feed roll-over	360°
Feed extension	2 000 mm

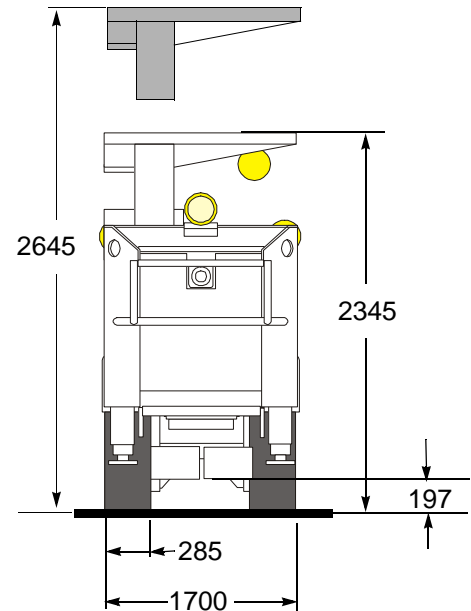
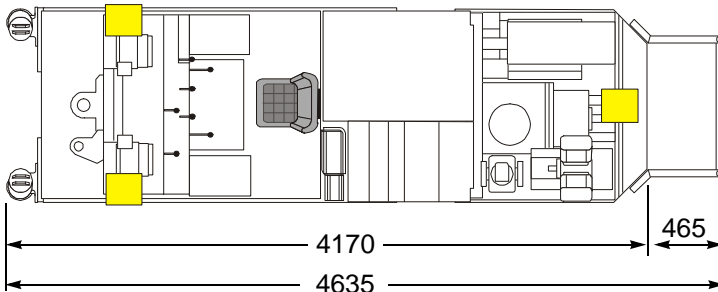
HYDRAULIC CONTROL SYSTEM

Providing	Manual smooth collaring
	RPP control
	Low/High power
	controlled by feed pressure

ELECTRO HYDRAULIC POWER PACK

Electrical motor	55 kW, Flameproof
Hydraulic pump for tramming and drilling:	
4Q, 4 X radial piston fixed displacement	4 X 37cc/rev

TRAMMING DIMENSIONS



All dimensions in mm

CARRIER

Model	CTH14
Hydrostatic transmission	
- Two motor	Gear, 2 X 41,8 cc/rev
Steering	
- Each track is independently controlled	
- Control	Stick
Brakes	
- Service, Emergency & parking	
Spring applied, hydraulically released fail safe type oil immersed multi disc brakes in both track	
Stabilizers	
- Front	2 hydraulic jacks
- Rear	2 hydraulic jacks
Safety canopy	Hydraulic, protective structure
- Lowering capability	300 mm
Hydraulic tank	130 liters
Hydraulic oil type	Flame Proof & Biodegradable oil Condat HF DU68

AIR CIRCUIT

Compressor	TUFLO 1000 Piston type
- Capacity	560 l/min at 4 bar
Hydraulic motor	20 cm³/rev
Air Mine net work connection + IP5 air cleaner	

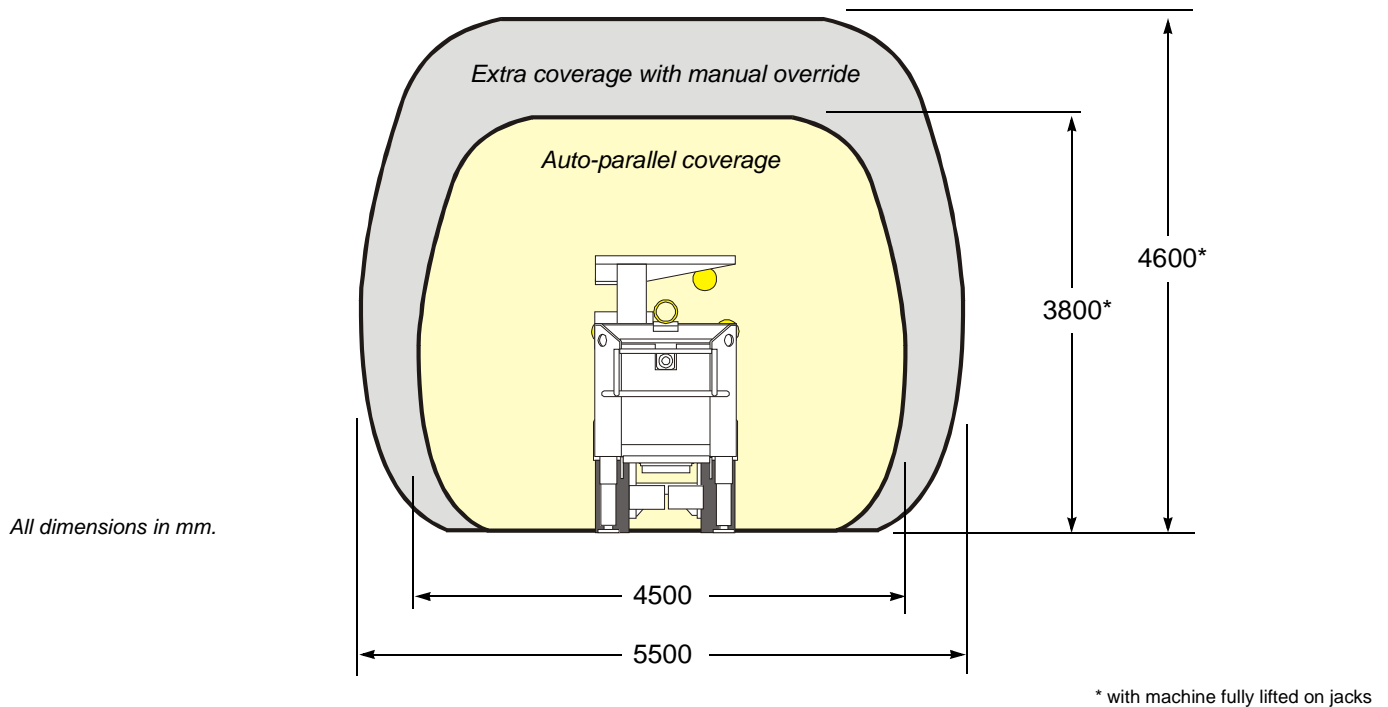
WATER CIRCUIT

Water booster pump capacity	33 l/min at 11 bar
- Hydraulic motor	11 cm³/rev
- Cooling capacity	30 kW
Water / oil cooler	
Water supply pressure	Min 2 bar Max 15 bar

ELECTRICAL SYSTEM

Total installed power	55 kW
Voltage	380 - 550, 660V
Phase sequence indicator	
Frequency	50 or 60 Hz
Starting method	Direct
Lighting	
- Front	4 x 50 W, Flameproof
- Rear	1 x 50 W, Flameproof
Low hydraulic oil level trip + Indicator light	
Hydraulic oil temperature sensor trip + Indicator light when > 65°	

COVERAGE AREA



OPTIONAL EQUIPMENT

DRILLING SYSTEM

- *) NVTF 6/10
- *) 1 x RHR 80 rotary drill / CC2512 steel fixed
- *) 1 x B14NV
- Air-mist flushing for auxiliary water / air connection

ELECTRICAL SYSTEM

Electric cable, FT7 OD 46,3 mm (3x35 mm² + 1x18 mm² + 1x16 mm²) for 380 to 660 V, 90 m according to IS 14 494.

Electric cable reel FLP, with spooling device and end of cable limit switch, 90 meters minimum for cable FT7 OD 52 mm (3x35 mm² + 1x18 mm² + 1x16 mm²)

CTH FLP Audio Visual Safety Alarm and dead man switch (AVSA)

*) replaces standard component

OTHER OPTIONAL EQUIPMENT

- *) Standard hydraulic oil for non flame proof mine
- CTH air / oil cooler
- Manuals other than French/English language.