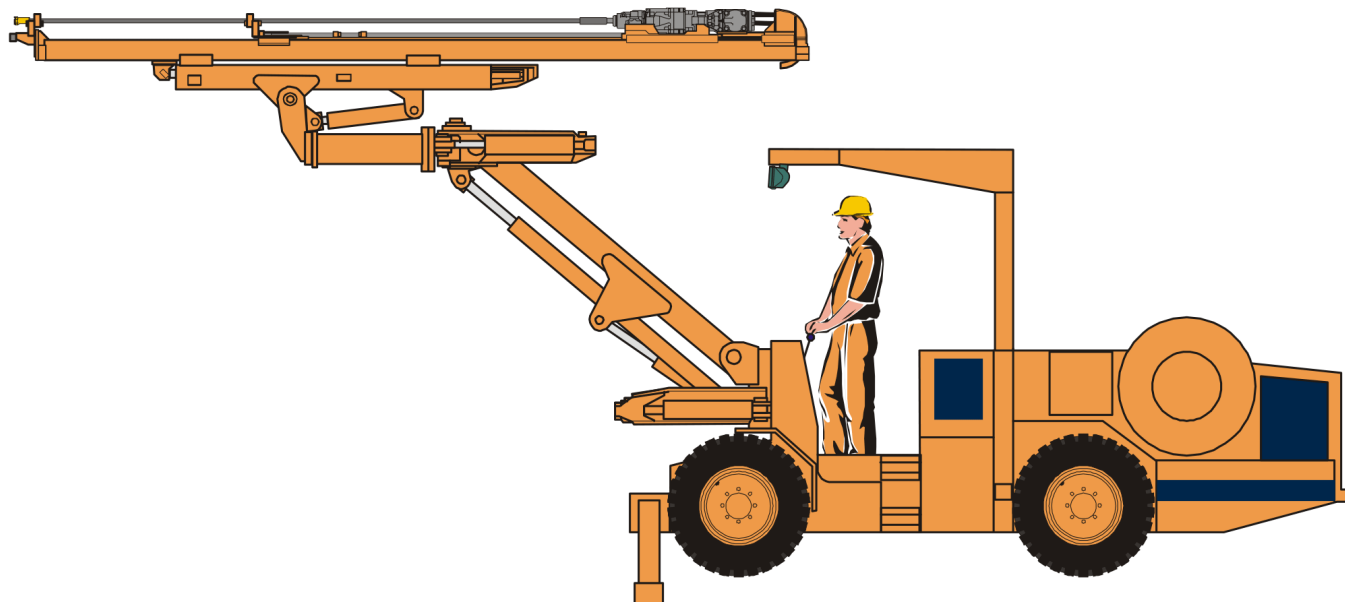


QUASARF SURFACE DRILLS

TECHNICAL SPECIFICATION



APPLICATION

The Tamrock Quasar 1F is a compact and flexible single boom electro hydraulic jumbo for mining development in cross sections up to 24 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 small drifts.

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

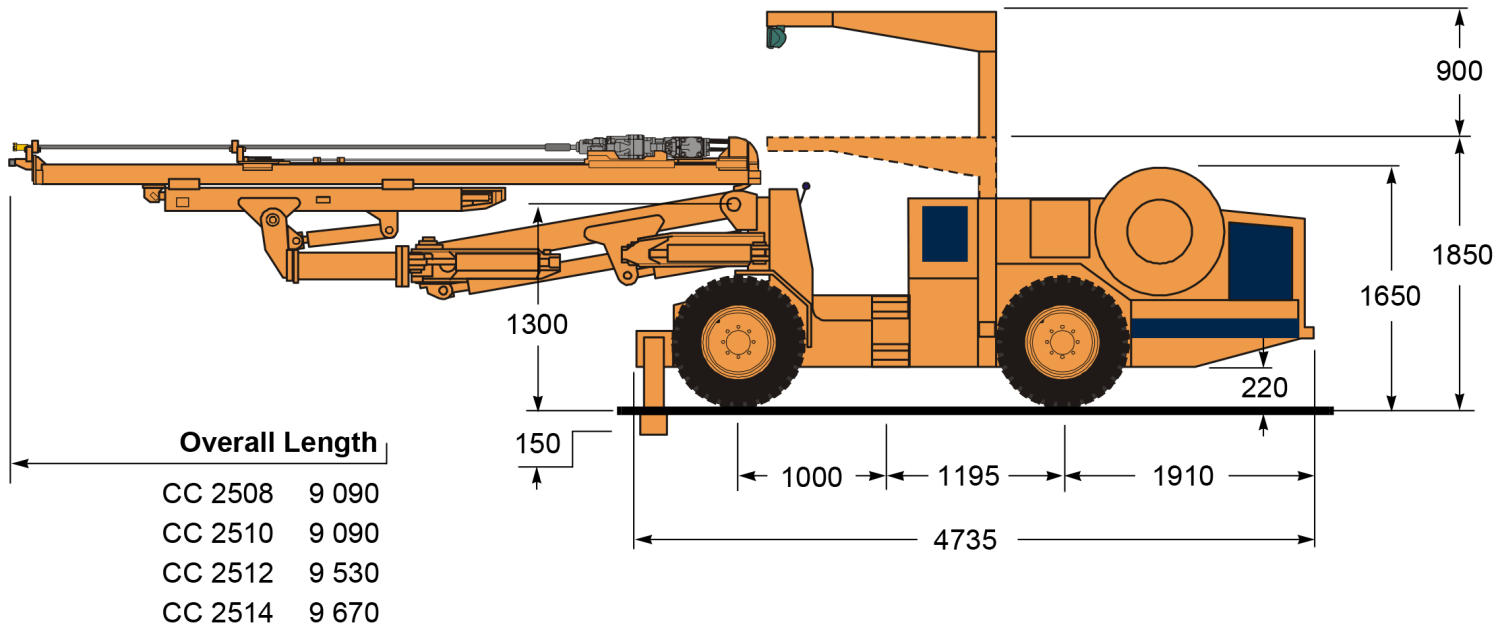
The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

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

MAIN SPECIFICATIONS

Carrier		1 x Quasar
Rock drill		1 x X 2 F
Boom		1 x B 14 F
Feed		1 x CC 2500
Length		9 090 mm
Width		1 200 mm
Height	roof down	1 850 mm
	roof up	2 750 mm
Turning radius		5 100 / 3 400 mm
Tramming speed	horizontal	6.5 kph
	13%=1;7=8°	4 kph
Gradeability, maxi		35 %
Noise level		< 98 dB(A)
Weight		9 100 kg

GENERAL DIMENSIONS



All dimensions in mm

ROCK DRILL

Model	X 2 F
Standard male shank	R 38 - T 38
Weight	135 kg
Impact frequency	52 - 59 Hz
Percussion pressure	160 - 210 bar
Impact power	14 - 19 kW

FEED

Model	CC 2500
Drill steel	H 25 till H 35

	CC 2508	CC 2510	CC 2512	CC 2514
Total length (mm)	4055	4665	5275	5880
Drill steel length (mm)	2475	3090	3700	4305
Hole depth (mm)	2090	2700	3310	3910
Net weight (kg)	300	360	420	480
Feed force, max. (kN)	12	12	12	12

FEED ALTERNATIVE

Model	NVTF
Type	Telescopic
Steel length	6/10 ft
Drill steel	H 25 till H 35

BOOM

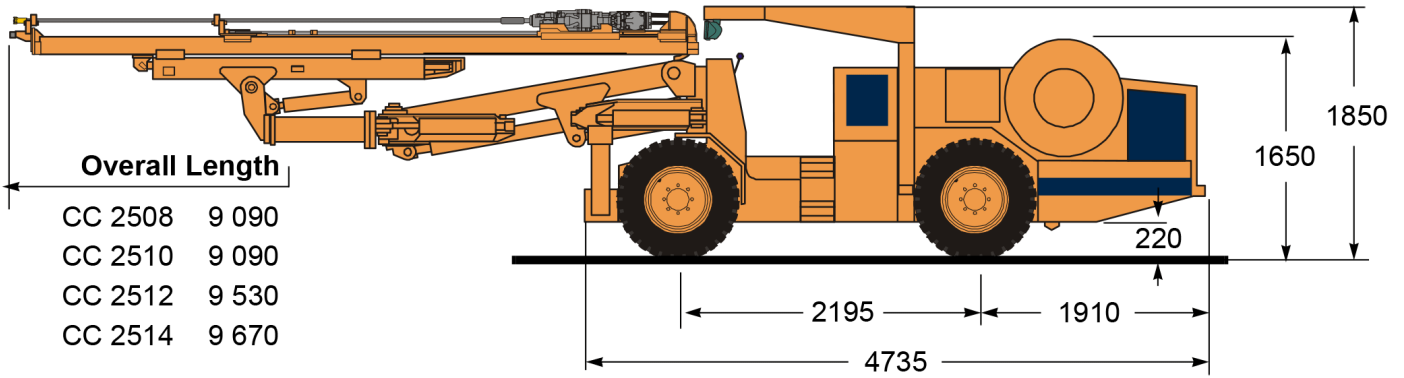
Model	B 14 F
Type	Parallel holding
Weight (with hoses)	1 500 kg
Feed roll-over	360°
Feed extension	2 000 mm

HYDRAULIC CONTROL SYSTEM

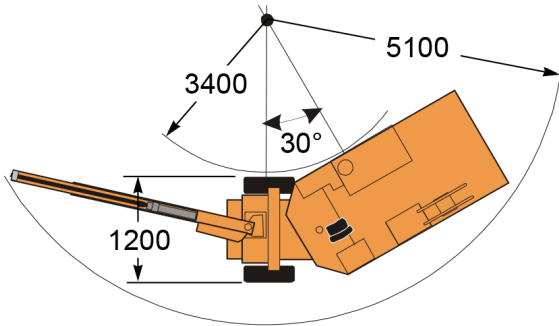
Type	IBCQF
Control functions	Auto smooth collaring Precise anti-jamming
	Only 1 control lever for thrust/percussion (full & half)

ELECTRO HYDRAULIC POWER PACK

Electrical motor	45 kW (60hp)
Hydraulic pump type	Radial piston Fixed displacement



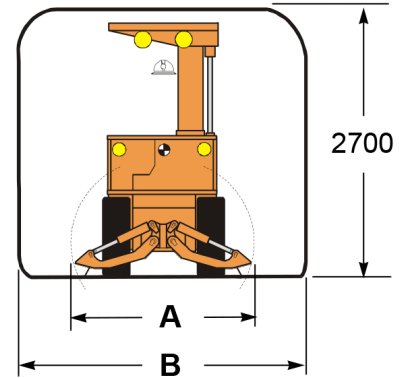
TURNING RADIUS



All dimensions in mm

MINI OPERATING SECTION

Outriggers	A	B
Standard	2360	2700
Narrow	2015	2100



CARRIER

Model	Quasar
Diesel engine	Deutz F3L 912 W, 30 kW (41 hp)
- Exhaust	Catalyser
Hydrostatic transmission	Variable displacement
- One pump	Axial piston, 0-75 cm ³ /rev
- Four wheel-motor	Radial piston
Oscillation	Rear axle, 2 x 6°
Tyres	10.00 x 15
Steering	Frame steering, 2 x 30°
Brakes	
- Service	Hydrostatic transmission
- Emergency & parking	Hydraulic oil immersed
	multiple disc brakes on each wheel
Stabilizers	2 hydraulic outriggers, front
- with 14 ft. or telescopic feed	2 hydraulic jacks, rear
Safety canopy	Hydraulic, FOPS
- Lowering capability	900 mm
Fuel tank	60 litre
Hydraulic tank	130 litre

AIR CIRCUIT

Compressor	C.T. 1, piston type
- Capacity	400 l/min. at 4 bar
Electric motor	3 kW (4 hp)

WATER CIRCUIT

Water booster pump	W.B.P. 2, centrifugal
- Capacity	4000 l/h at 15 bar
- Electric motor	4 kW (5.5 hp)
Oil cooler	OC 25, water-actuated counterflow
- Cooling capacity	25 kW

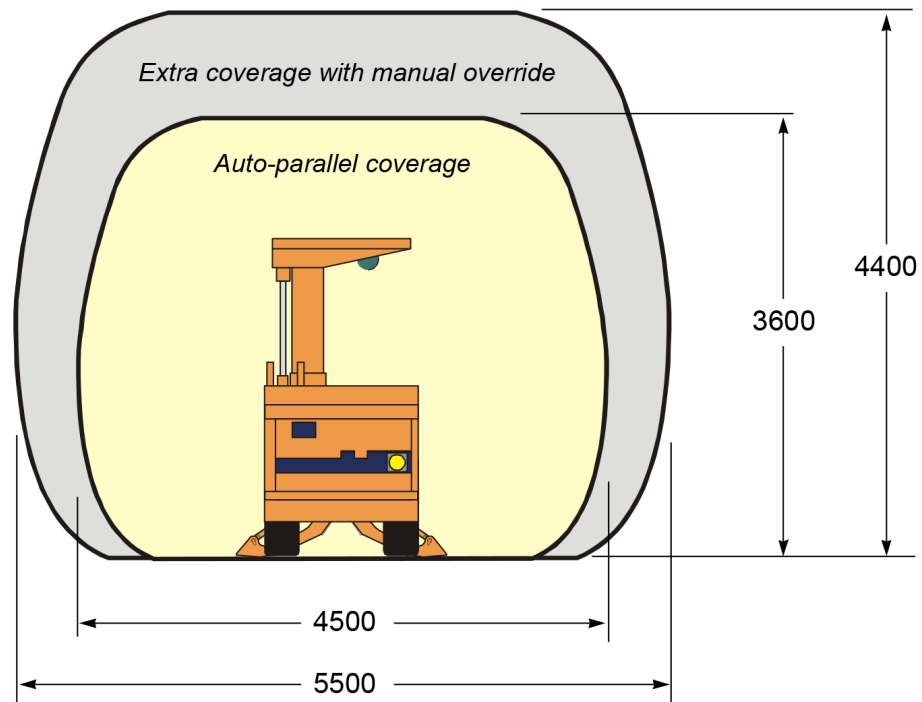
ELECTRICAL SYSTEM

Total installed power	60 kW
High / Low voltage	Separate cabinets
Voltage	<i>Standard</i> 380 - 660 V
	<i>Alternative</i> 1 000 V
Frequency	50 or 60 Hz
Starting method	Star / Delta
Cable reel	CRQ type
- Capacity	80 m of cable 32 mm O.D
Lighting	
- Working lights	2 x 70 W, 24 V
- Trimming lights	3 x 70 W, 24 V
	(the 2 front lights are also used as working lights)

FULL DIESEL VERSION AVAILABLE

Air-cooled engine	Deutz F6L 912 W
- Max. rating at 2300 rpm	54 kW (74 hp)
Fuel tank capacity	170 litre
Compressor & water pump driven by hydraulic motors	
Total machine weight	8 200 kg

Quasar 1F on jacks.
All dimensions in mm.



OPTIONAL EQUIPMENT

DRILLING SYSTEM

- H.A.R. Rock drill auto-return.
- Drill angle measuring instrument TMS D2.
- Air flushing.
- Air mist flushing kit for auxiliary water/air connection.
- *) Front clamping head on drill feed.

BRAKES

- Hand pump for manual brake release.

ELECTRICAL SYSTEM

- *) 1 000 V electric power supply.
- Ground fault detector
 - not applicable to 1 000 V
- Electric cable
 - 380-575 V, 4 x 25 mm², ø 32 mm, 80 m length
 - 660-690 V, 4 x 25 mm², ø 32 mm, 80 m length, direct start
- *) Allen Bradley electrics.

CARRIER

- *) Front narrow outriggers for confined areas + 2 rear jacks.
- *) Extendable front jacks.
- Fume diluter.
- *) Electric oil filling pump.
- Hydraulic low oil level indicator and switch.
- Complete spare wheel.
- *) 4 Michelin X mine D2 instead of standard types.

OTHER OPTIONAL EQUIPMENT

- Fire suppression system ANSUL, 6 nozzles.
- Reverse alarm.
- *) EU, UL, CSA, AUS norms package + local standards and regulations.
- Automatic lubrication system (Lincoln) for both boom and carrier.
- Central lubrication system.
- Hook up for mine air network (IP5 air cleaner included).
- *) Ni-Cr plated cylinder rods.
- Manuals other than French/English language.

*) replaces standard component