



## APPLICATION

The Tamrock Quasar NV is a compact and versatile single boom electro hydraulic jumbo for development, bolting and/or production in narrow vein mining.

The unique multi-purpose boom has a large optimum shaped coverage. A double rotation device allows a vertical positioning on both side and the possibility to drill extremely close to the hanging and foot walls, both to the right and left.

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.

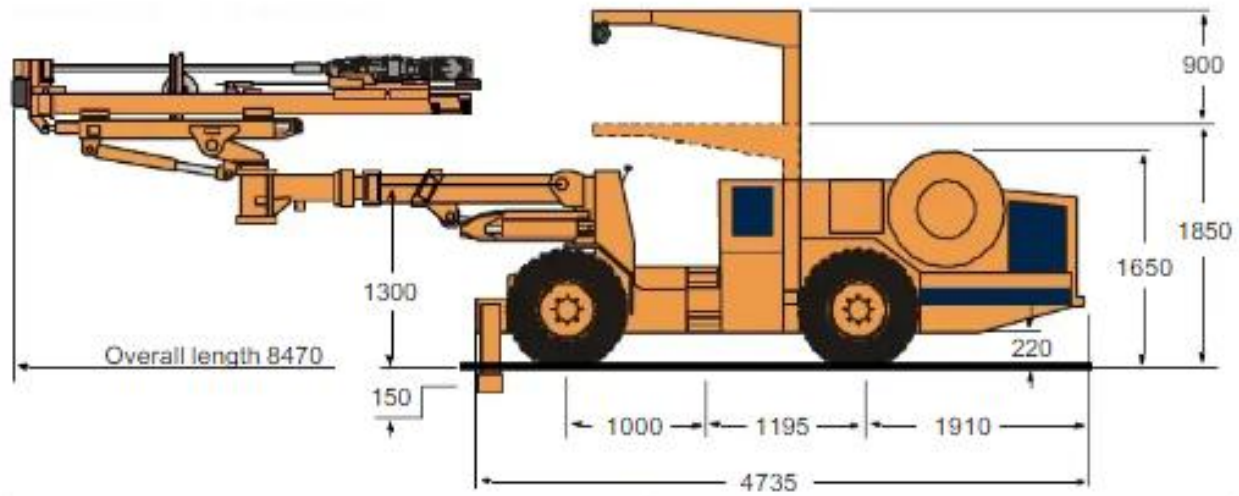
The operator environment and added automatic functions allow the operator to concentrate on safe, fast and accurate drilling.

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

## MAIN SPECIFICATIONS

Carrier		1 x Quasar
Rock drill		1 x X 2 NV
Boom		1 x B 14 NV
Feed		1 x NVF
Length		8 470 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		6.5 kph
	13%=1;7=8°	4 kph
Gradeability, maxi		35 %
Noise level		< 98 dB(A)
Weight		8 650 kg

**GENERAL DIMENSIONS**



All dimensions in mm

**ROCK DRILL**

Model	X 2 NV
Standard male shank	R 32 - R 38 - T 38
Weight	135 kg
Impact frequency	57 - 59 Hz
Percussion pressure	175 - 210 bar
Impact power	15 - 19 kW

**FEED**

Model	NVF
Drill steel	H 25 till H 35 - ø 39

**FEED ALTERNATIVE**

Model	NVTF
Type	Telescopic
Steel length	6/10 ft
Drill steel	H 25 till H 35 - ø 39

**BOOM**

Model	B 14 NV
Type	Universal
Weight (with hoses)	1 200 kg
Feed roll-over	360°
Feed angle	± 95°
Boom extension	800 mm
Feed extension	1 400 mm

**DRILLING ALTERNATIVES**

**Equipment for long hole function :**

- Specific hydraulic components (back pressure compensator, screwing/unscrewing..)
- Hydraulic stinger on drill feed + controls.
- Front clamping centralizer on drill feed + controls.

**Equipment for remote control :**

- Electro-valves for remote control implementation.
- Water-proofed electric remote control relay cabinet.

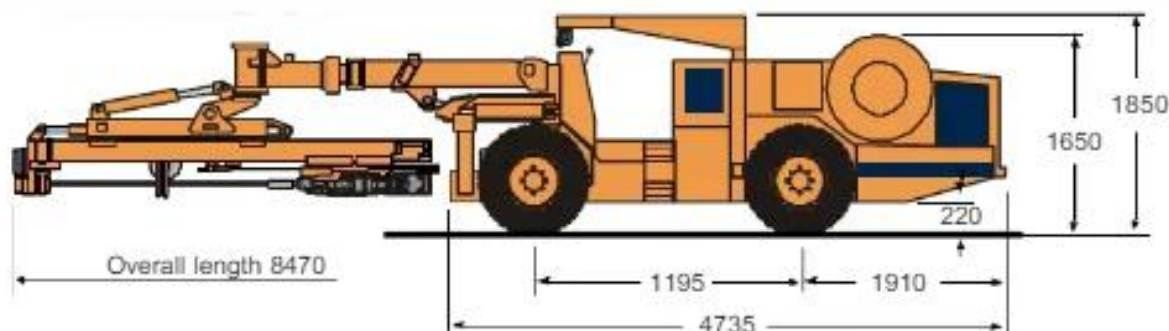
**HYDRAULIC CONTROL SYSTEM**

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

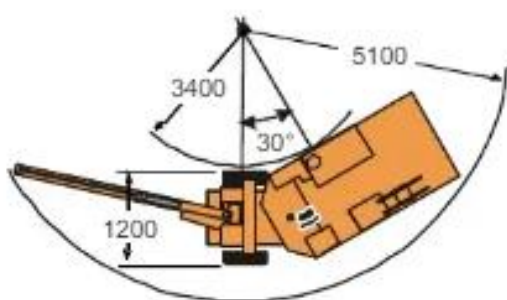
**ELECTRO HYDRAULIC POWER PACK**

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

## TRAMMING DIMENSIONS

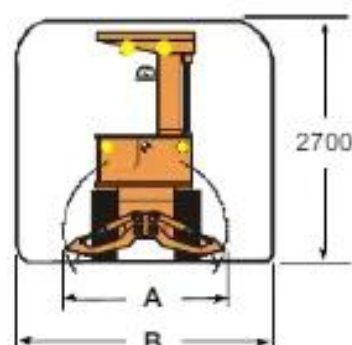


## TURNING RADIUS



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 <sup>3</sup> /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
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

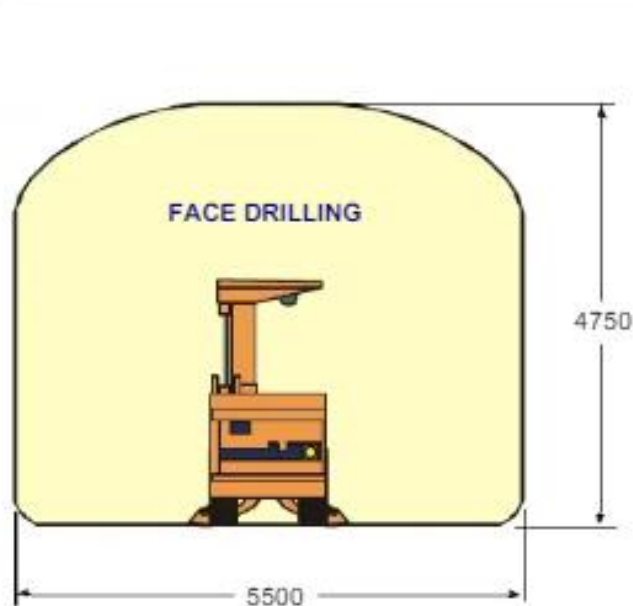
Total installed power	60 kW
High / Low voltage	Separate cabinets
Voltage	Standard 380 - 660 V
	Alternative 1 000 V
Frequency	50 or 60 Hz
Starting method	Star / Delta
Cable reel	CRQ type
- Capacity	80 m of cable 32 mm O.D
Lighting	
- Working lights	2 x 70 W, 24 V
- Tramming lights	3 x 70 W, 24 V
	(the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

## FULL DIESEL VERSION AVAILABLE

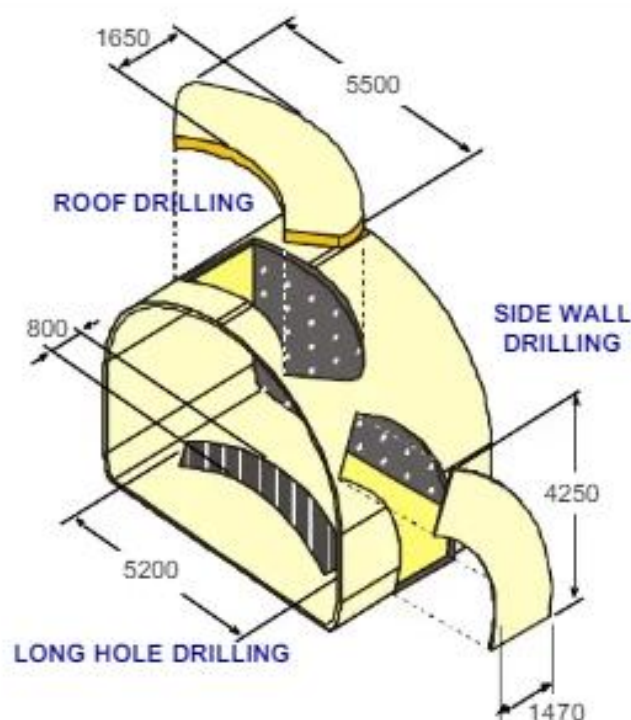
Air-cooled engine	Deutz F6L 912 W
- Max. rating at 2300 rpm	54 kW (74 hp)
Fuel tank capacity	170 litre
Compressor & water pump driven by hydraulic motors	
Total machine weight	8 200 kg



## COVERAGE AREA



Quasar NV on jacks.  
All dimensions in mm.



## OPTIONAL EQUIPMENT

### DRILLING SYSTEM

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

### REMOTE CONTROL

Portable electric remote control.  
One 24 V x 150 W pedestal mounted halogen light.

### BRAKES

Hand pump for manual brake release.

### ELECTRICAL SYSTEM

Two working lights 24V x 150 W halogen.  
\*) 1 000 V electric power supply.  
Ground fault detector  
- not applicable to 1 000 V  
Electric cable  
- 380-575 V, 4 x 25 mm<sup>2</sup>, ø 32 mm, 80 m length  
- 660-690 V, 4 x 25 mm<sup>2</sup>, ø 32 mm, 80 m length, direct start  
\*) Allen Bradley electrics.

### CARRIER

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

[www.tamrock.sandvik.com](http://www.tamrock.sandvik.com)

Sandvik Tamrock reserve the right to change this specification without further notice

**TAMROCK**

SANDVIK TAMROCK SECOMA S.A., B.P. 46 - 69881 Meyzieu Cedex, France  
Tel. + 33 4 7245 2200 Fax + 33 4 7831 7980

4/4