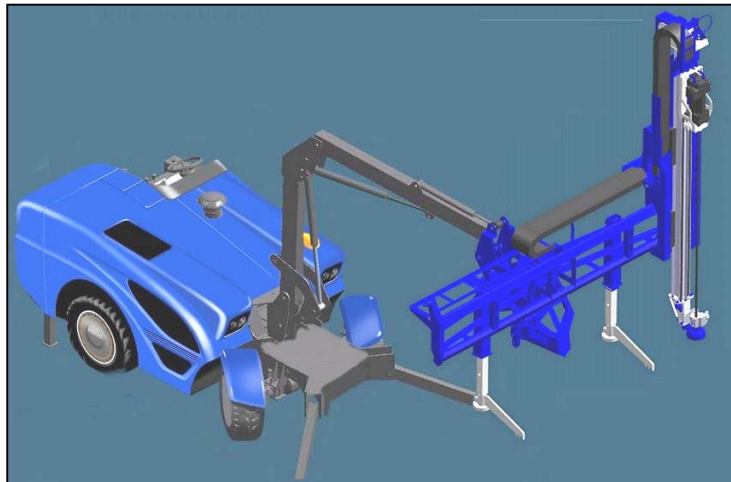


a modern unrivalled leadership



Rock Buggy is a hydraulic mobile drilling unit, completely independent and suitable for vertical drilling on any inclined and any type of rocks.

Rock buggy is made by a four wheel drive machine equipped with an articulated boom where it is possible hooking a drilling unit complete with track (for blocks squaring and in general for the execution of aligned holes) or simply the drilling column of the unit itself; with this second configuration is so possible to execute drilling in any direction (also in horizontal at round level) with the advantage of an easier handling thanks to the reduced dimensions and weight.

The wheeled machine is characterized by two powered axles by which we have been able to supply to user a machine with a reliable and functionally valid system considering also the reduced dimensions of the machine.

The solution of a double steering axle grants a better sensitivity in steering, it offers the possibility of adopting a wider wheel step and track, granting a bigger stability of the machine. By the usage of low stiffness wheels there is a bigger lowering of the vibrations and the deleting the big wear and tear of tyres. The adopted solution of the rigid front axle compared to the balancing rear axle allows a perfect stability on the rambling round; and the differential automatic block system "LIMITED SLIP", on the front axle, allows movements on muddy floor.

Other important feature of the self moving is the adoption of hydrostatic drive in closed circuit that allows a better control of the unit particularly in starting and in stopping phases granting soft accelerations and braking. The machine reaches the speed of 9,5 Km/h and it is preset of a first and second gears.

The equipment of an electronic control system by graphic display allows the usage of a simplified electric system, the possibility of having the report of eventual working anomalies.

It is foreseen, as optional, also the possibility of software connection by GSM and GPRS phone line for teleassistance interventions and data download furthermore the visualization of the due dates concerning machine maintenance.

The presence of a hydraulic suction system allows the capture of dusts produced during drilling operations and to collect them in suitable plastic bags. Hydraulic drifter, allowed by technological innovations that constantly give improvements, presents acoustics emission values very low and this factor has characterized our drifters, among the drilling equipment circulating up today with the lower noise emission. Finally the presence of a remote control panel allows to the operator in the quarry to work and check the machine at the proper distance guaranteeing an higher working safety, a minor exposition to the dangers, the accidents and the acoustic pollution.

Unità semovente:

- *Carrier:*
 - 4 drive and steering wheels
 - 9,5 Km/h maximum speed
 - Automatic block of differential
 - Front axle rigid to the power loom
 - Balancing rear axle
 - 4 hydraulic stabilizer legs

- *Engine:*
 - Cummins B 3.3 Turbo
 - Direct injection
 - 4 Cylinders
 - Power 85 HP

- *Transmission:*
 - Hydrostatic transmission Sauer Danfoss at closet circuit with pump and variable – powered pistons engine

- *Hydraulic system:*
 - Variable – powered pistons main pump with load-sensing control system
 - Gears secondary pump for starting the hydrostatic drive system
 - Automatic device of oil pre-heating system
 - Oil cooling system

- *Compressor::*
 - Mod. E 3
 - Air volume 1,3 m.³/min
 - Maximum pressure 12 bar

- *Dust collectors:*
 - Mod. “Bermuda Chiocciola 310”
 - Filtering surface 6 m²
 - Suction capacity 350m³/h
 - Suction pressure 950 mm c.c
 - Automatic cleaning system of the filters
 - Number of filters: 2

Articulated boom:

Technical data and performances over listed are not binding for the builder, the machines are liable to changes and improvements during manufacture without notice.

- Length boom 4,8 m
- Boom horizontal rotation +/- 45°
- Horizontal maximum working straddle 4,3 m
- Covered filtering surface 65 m²

Drilling unit:

- *With block cutter:*

- 3 Mts. translation track
- 2 independent hydraulic stabilizer legs
- Sliding block in self lubricating composite
- Track front rotation +/- 20°
- Track lateral rotation +/- 20°
- Track horizontal rotation +/- 180°

- Column*:
 - independent column in aluminium with hardened steel inserts for slide advancing
 - Hydraulic approaching device to the ground
 - Chain feed slide with hydraulic engine and reducer
 - Sliding block in self lubricating composite
 - Hydraulic fast system inferior and superior drill steel
 - Hydraulic pipes for horizontal drilling containing system

* the column can be used individually by hooking it to the boom.

Drifters:

- *Doofor DF420:*

- Weight Kg 41
- Working pressure Bar 110/140
- Percussion rate 6500/7000
- Lit./Min rotation 11/20
- Lit/Min percussion 40/60
- Rotation speed torque Nm 97

- *Doofor DF522:*

- Weight Kg 55
- Working pressure Bar 100/130
- Percussion rate 2700/4200
- Lit./Min rotation 9/18.5
- Lit/Min percussion 46/80
- Rotation speed torque Nm 107

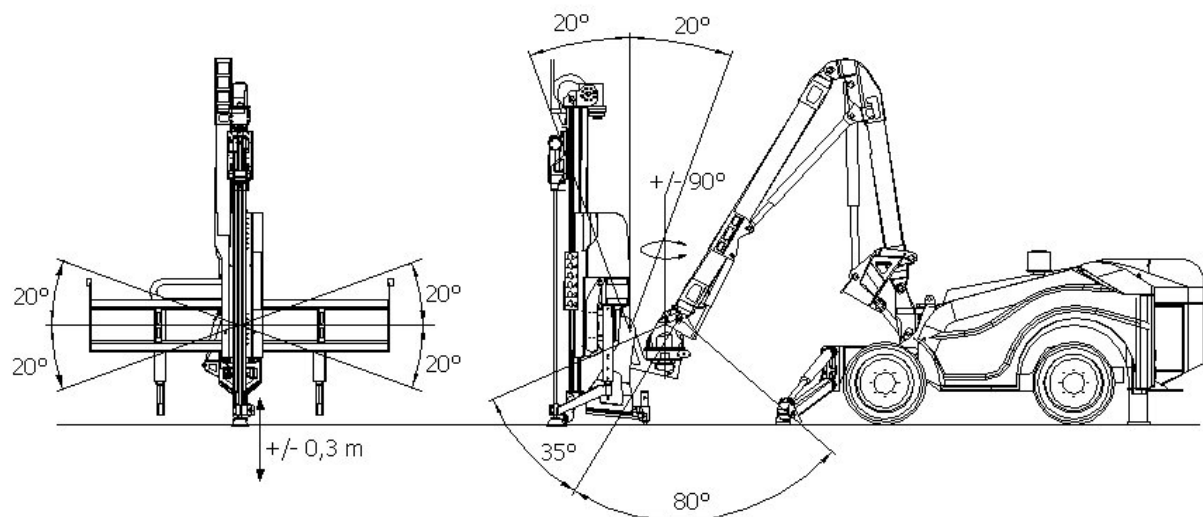
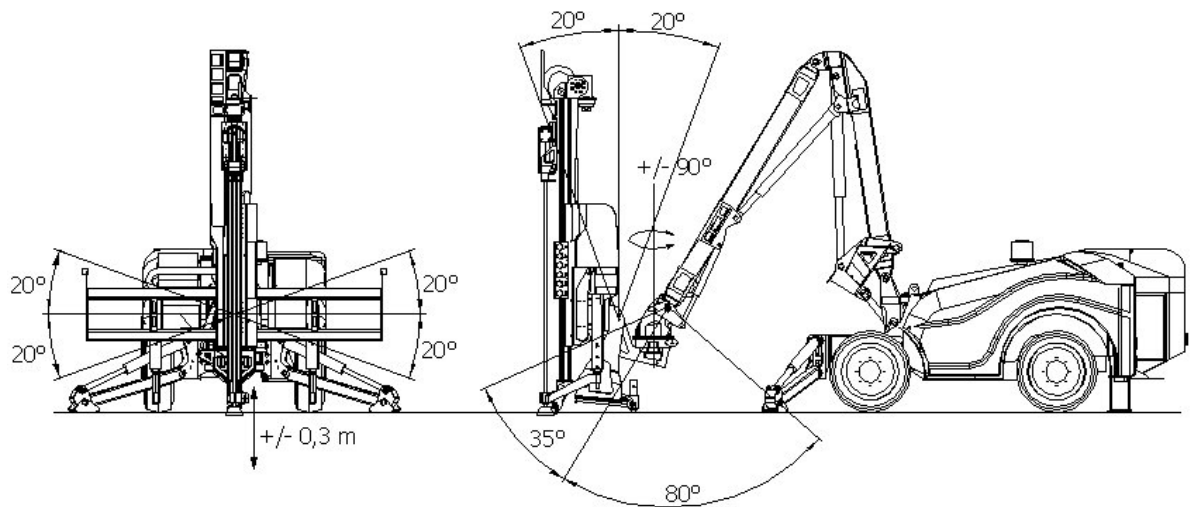
Control system:

- ❑ 1 control unit with graphic display and joystick
- ❑ 3 electronic power stations
- ❑ As optional 1 radio remote control panel. (the control unit allows a cable remote control)
- ❑ Anti jamming device
- ❑ Drilling low start device concerning both the thrust pressure and both the percussion pressure
- ❑ As optional automatic drilling device for measuring the deepness of the holes.

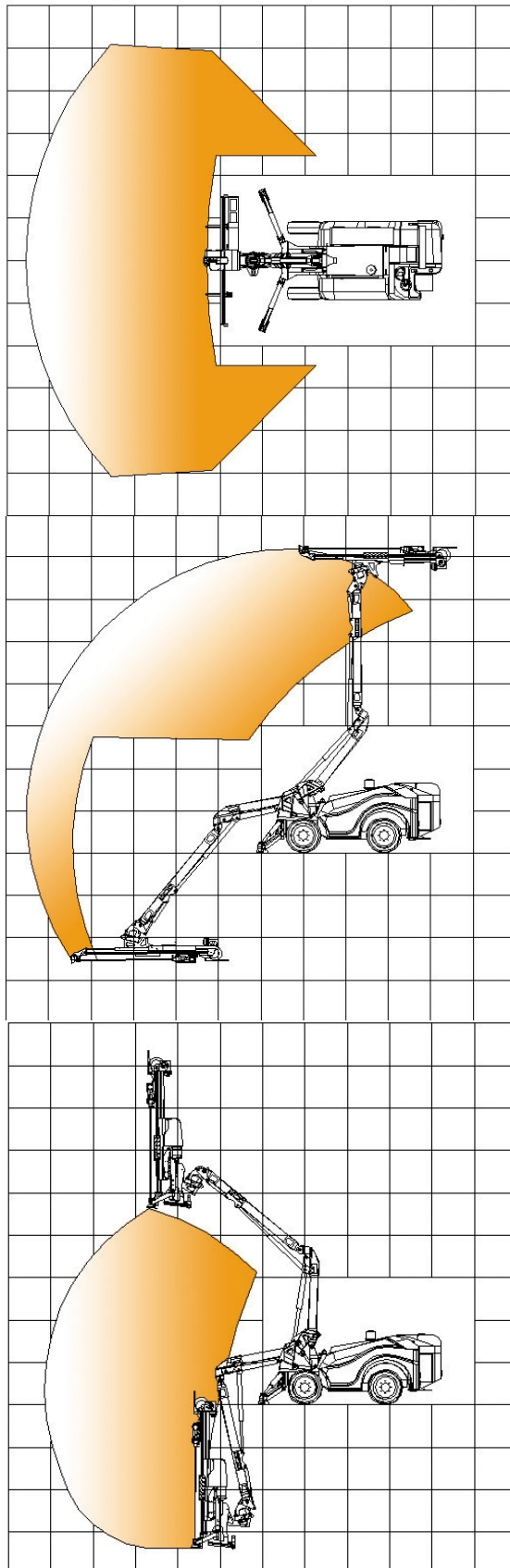
Technical specifications:

- ❑ Start drilling with 2,40 Mts. Integral Drill Steel
- ❑ Holes diameter 22-45 mm
- ❑ 3 Mts. translation track with Mts. working translation

Drilling unit movements:



Drilling geometry:



Freight dimensions:

- Length: 5,5 m
- Width: 2,1 m
- Height: 2,3 m
- Weight: 4500 kg

The machine can be shipped in a 20" container.

