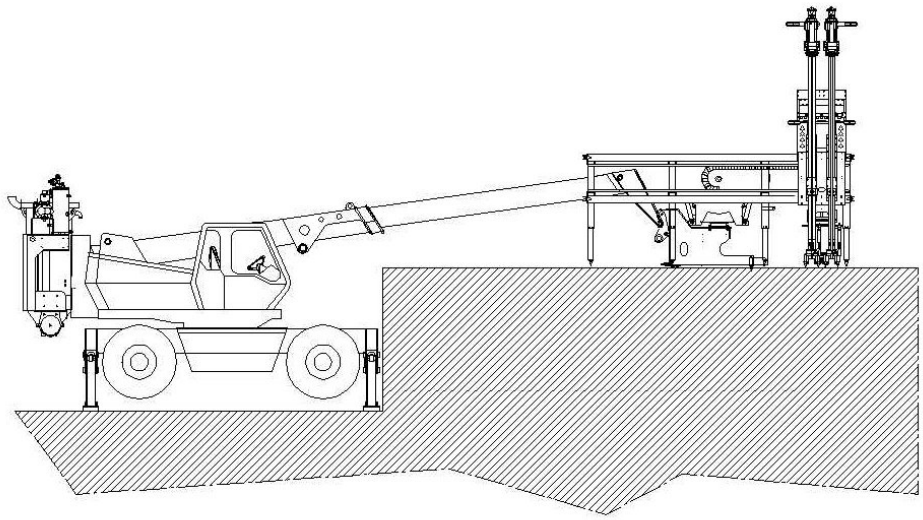


Girodrill 200 is a hydraulic drilling mobile unit, totally independent, and suitable for vertical drilling on any inclined and in any type of rock.

Girodrill 200 is made up by a drilling unit placed on the boom of a four wheels driver vehicle, is equipped with two hydraulic drifters, models Doofor DF420 or Doofor DF522, fitted out with an anti jamming device and mounted on two independent chain feed slides.

Hydraulic unit can rotate +/- 90°vertically, a +/- 20° vertical inclination and a +/- 25° horizontal inclination and it can have a 0,30 m. extension from the ground support without moving the boom. Besides the possibility of 360° rotation pledges a great increase in the production activity and allows a time and energy conservation.

The holes that are produced are vertically lined up by an indicator angle settled on the unit base and they can have a diameter between 22 to 45 mm. by the use of Integral drill steels - 22 mm. (7/8").

Drilling unit has a telescopic boom shift with extension of 9,4 m and covers a working surface, considering the machine possibility of 360° working, as 258 m^2. The presence of this boom gives the possibility of squaring the blocks situated over 9 m. or under 1 m respect to the place self-moving is situated. The self-moving shifting is made easier by the hydrostatic drive, four wheels driver in any conditions of the ground. The four hydraulic stabilizer legs allow the lifting and the shifting, also in difficult situations, and they guarantee the working without displacing the self-moving.

All the drilling and boom shifting operations can be effected by radio through a remote control panel operating on proportional controls of directional valves. Radio remote control panel, now fundamental characteristic of our drilling unit, it allows simplicity in the unit usage and at the same time it guarantees a surer and controlled work.

Our module, constituted by oil filters, the heat exchanger and hydraulic compressor, is mounted on the back part of the self-moving in order to limit the encumbrance.

Drilling unit has been planned and built respecting all the structures fitted to preserve the environment and quarry working safety. Environment protection occurs by lower consumption and exhaust gas emission. Then, thanks to the presence of a hydraulic suction system, the issued dusts are immediately overturned and collected in suitable plastic bags.

Hydraulic drifters present acoustics emission values very low and this factor, allowed by the technological innovation that constantly give improvements, 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 acoustics pollution.

Drilling unit:

- 4 Mts. translation track
- Four independent hydraulic stabilizer legs
- Two independent columns equipped with an approaching device to the ground +/- 0,30 m
- Two chain feed slides for drifters
- Sliding block and truck made in self-lubricating composite material
- Fast system steel retainer
- Anti jamming device
- Hydraulic device for inclinations regulator
- Cable or Radio remote control panel
- Water or air drain drilling
- Vertical rotation +/- 90°
- Horizontal track inclination +/- 25°
- Vertical track inclination +/- 20°
- Track translation for alignment 0,30 m

Self moving unit:

- Telescopic boom shift up to 9,4 m.
- Cab rotation 360°
- Drilling coverage area 258 m^2
- Vertical straddle 9 – 9,5 m.
- Base inclination +40° / -25°
- Four wheels driver
- Four independent stabilizers
- Hydrostatic drive
- Three mode steering
- Heat exchanger supplementary air and oil

Engine:

- Perkins Mod. “1006-60T”
- Direct injection, turbo
- Cylinders 6
- Power 153 Hp

Dust collectors:

- Mod. “ Bermuda Chiocciola 500”
- Filtering surface 8 m^2
- Suction capacity 500 m^3/H
- Automatic cleaning system of the filters
- Number of filters 4

Compressor for drilling drain and lubricating:

- Mod. “ E 6”
- Air volume 2,5 m^3/min

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

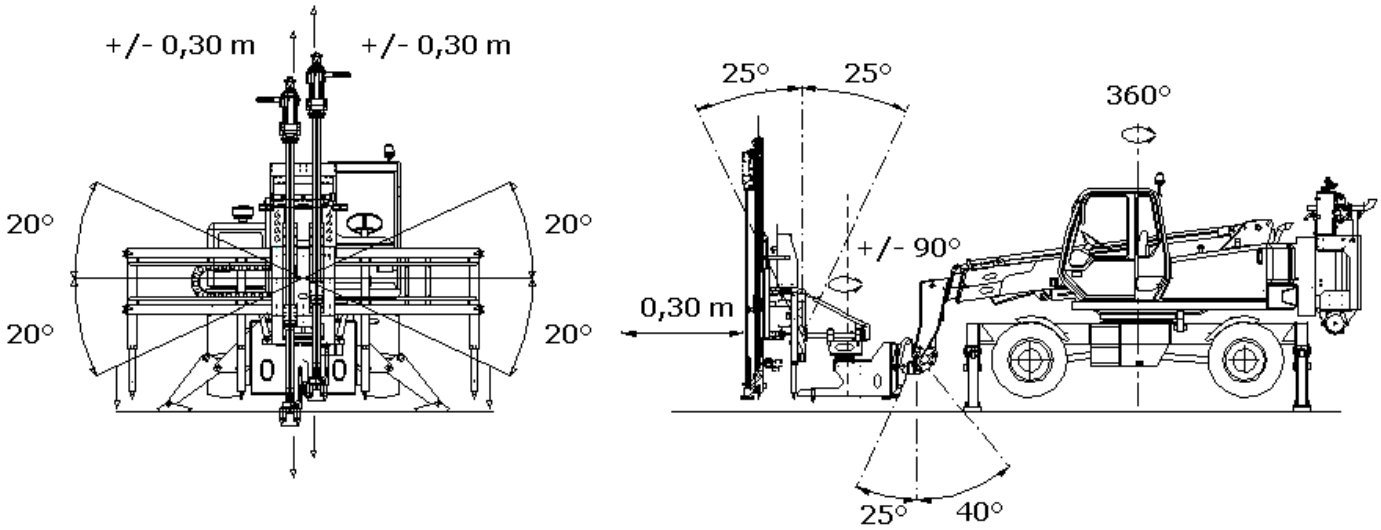
- *Doofor DF522:*

❑ 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

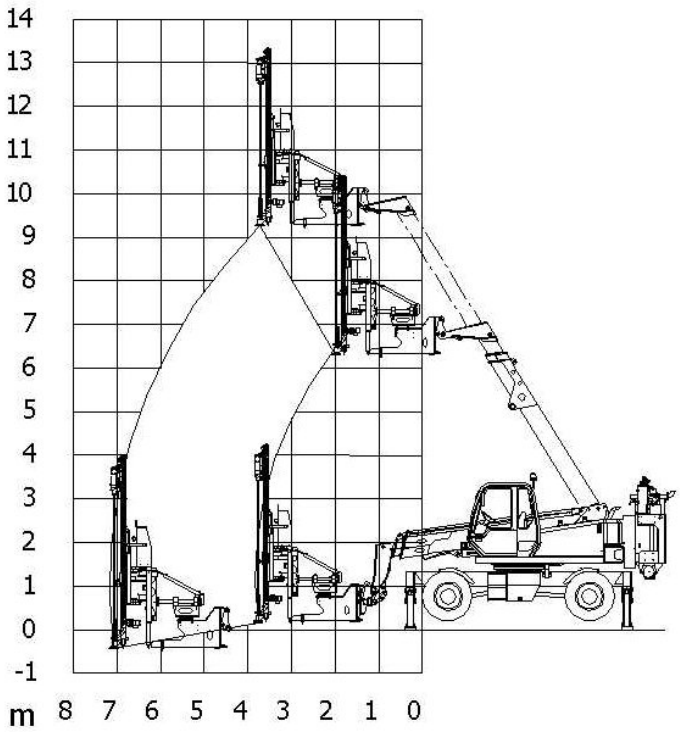
Technical specifications:

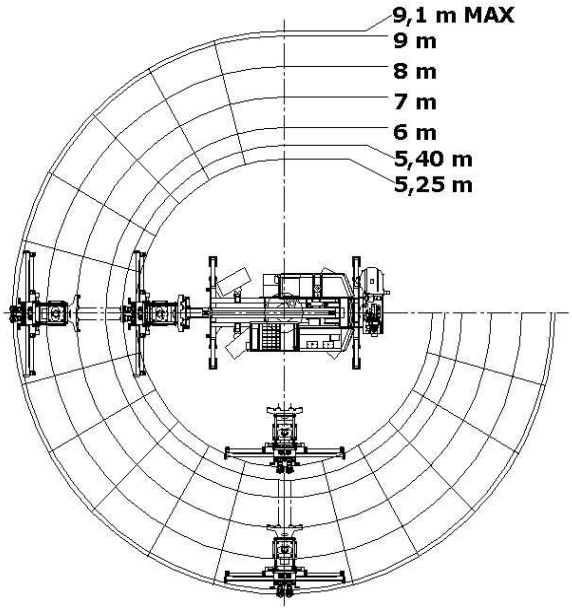
- ❑ Start drilling with 3,20 m Integral Drill Steel
- ❑ Holes diameter 22-45 mm
- ❑ 4 Mts. translation track with 3,30 m working translation

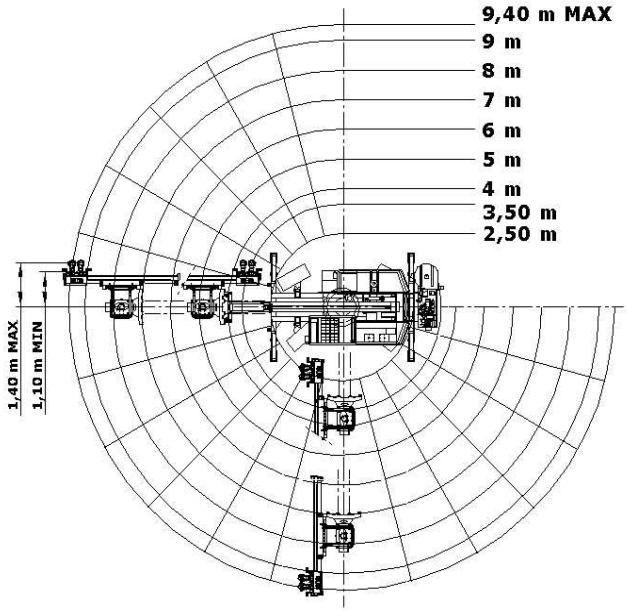
Drilling unit movements:



Drilling geometry:







Indicative performances:

- *Drilling speed with button bit (diameter 32):*

  - Granite tipo Porriño: from 1,4 to 1,8 m/min.
  - "Gneiss" Luserna: from 1,3 to 1,6 m/min.
  - Limestone "Trani": from 1.5 to 1.9 m/min.
  - Marble "Botticino": from 1,5 to 1,9 m/min.

- *Production:*

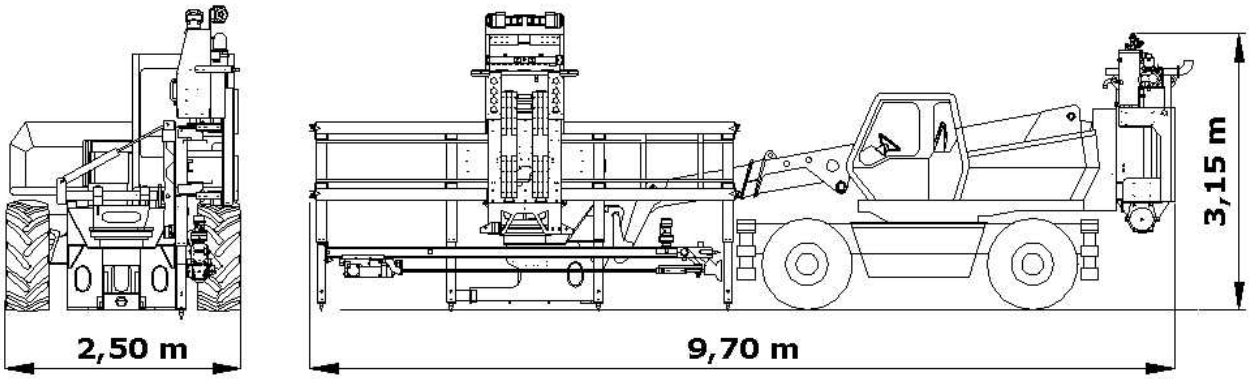
  - Granite Porriño:
    - Blocks squaring: from 500 to 600 m
    - Whole block: from 550 to 700 m
  - Limestone "Trani":
    - Blocks squaring: from 500 to 650 m
    - Whole block: from 550 to 750 m
  - Marble "Botticino":
    - Blocks squaring: from 500 to 650 m
    - Whole block: from 550 to 750 m

Average consumption:

- 12÷15 l/hour

Freight dimensions:

- Total length: 9,70 m
- Total width: 2,50 m
- Height: 3,15 m
- Weight: 15.000 kg



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