

**Wheel
Trencher for
the mechanical
laying of
networks**



SMC 202 R - ST2

Simultaneous performance of trenches and mechanical laying for the deployment of networks (telecoms, electricity, drainage, water, sanitation, gas, etc...) in rural environments and rocky grounds

Process

- Tangentially driven trenching wheel designed by Marais

Specific features

- The Marais SM 200 trenching wheel allows to cut at a 1.40 m depth
- Constant and reduced width of the trench,
Constant building cost per meter
- Non-stop shielding of the cut trench : the laying unit
Preservation of the geometric data of the cut trench
Compliance with the bending radius of the cables and the ducts
- Quality of the trench bottom : the shoe
Smooth clean and compact trench bottom without any salient angle
- Network laying quality
Constant depth
Constant altimetry and planimetry of the laid network

Assets

- Cutting of different grounds
- Frame slope correction making it possible a vertical cutting on an inclined ground
- Reduction in building costs

Output

- From 300 to 2,000 lm/day depending on the grounds, sections of trenches and nature of the network to be laid





Features of the trenching tool

- Type : Marais tangentially driven trenching wheel
- Working widths : 280, 300, 350, 450 mm
- Minimum depth : 0.50 m
- Maximum depth : 1.40 m
- Lateral offset of the tool outside the machine : 200 mm on the left and right side
- Cutting tool mounted on pivot
- Slope correction of the tool

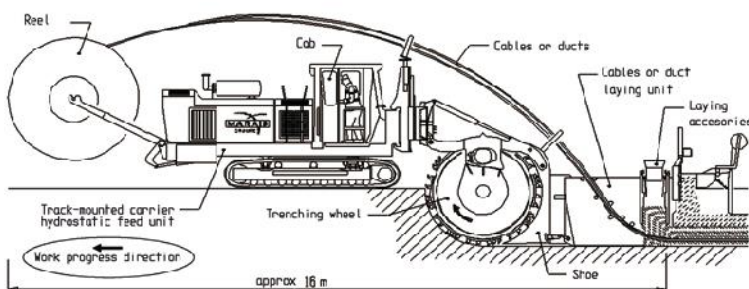
Sizes and weight of the unit

- Length in working position : approx 16 m (with reel and laying unit)
- Length in transport position : 11 m
- Width : 2.50 m
- Height : 3.20 m
- Weight : 26 tons

Motor drive system

- 470 HP (345 kW) diesel thermal motor
- 510 HP (375 kW) diesel thermal motor

Technical diagram



Accessories

- Reel carrier in front of the machine (capacity : 5.2 tons)
- Removable guardrails on the machine
- Laying units : fiber optic, electricity, drainage, HDPE, root-proof screen, warning grid, cable tightener
- Coating materials of networks : sand sprayer, concrete hopper with vibrating unit, excavated material screen, backfiller
- Combs and guide rollers