

Wheel trencher for the mechanical laying of networks



ST2

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

Process

- Tangentially driven trenching wheel designed by Marais

Specific features

- 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

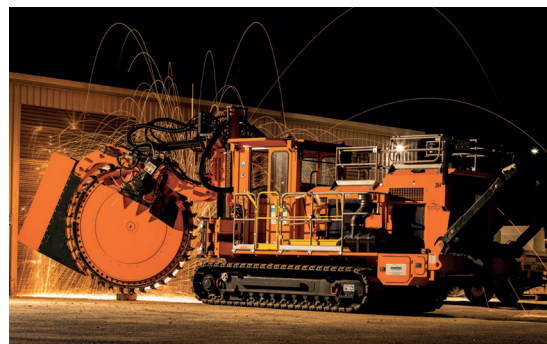
- Cutting of different grounds
- Frame slope correction making it possible a vertical cutting on an inclined ground
- Reduction in building costs

Output

- From 300 to 2500 ml per day depending on the grounds, sections of trenches and nature of the network to be laid.

 YouTube





Features of the trenching tool

- Marais tangentially driven trenching wheel

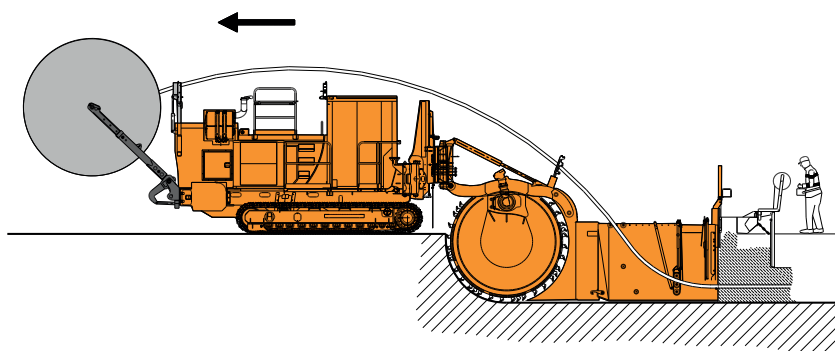
Type of wheel	Cutting width (mm)	Trench depth (m)
R1200E	180 to 250	1.20
R1200	280 to 350	1.20
R1400E	180 to 250	1.40
R1400	250 to 480	1.40
R1600	250 to 520	1.60

- Trenching wheel mounted on 5-axis boom
- Lateral offset of the tool outside the machine: 200 mm on the left and right side
- Cutting tool mounted on pivot $\pm 27^\circ$
- Slope correction of the tool $\pm 15^\circ$

Sizes and weight of the unit

- Length in working position: Approx. 18 m (with reel and laying unit)
- Length in transport position: 11 m
- Width: 2.50 m
- Height: 3.50 m
- Weight: 24 - 30 tons according to the tool

Technical diagram



Carrier

- Carrier with caterpillar
- 510 HP (375 kW) diesel engine Stage 4 Tier 4 Final
- 536 HP (394 kW) diesel engine Stage 2 Tier 2
- Hydrostatic advance

Accessories

- Radio control (option)
- Reel carrier in front of the machine (capacity: 5 tons maximum)
- Removable guardrails on the machine
- Laying units
- Coating materials of networks: sand sprayer, concrete hopper with vibrating unit, excavated material screen, backfiller
- Combs and guide rollers