

MARAIS

TESMEC GROUP COMPANY

Building of
networks in
urban and
highway
environments



CITY CLEANFAST

Performance of
microtrenches for
the deployment of
FTTH, CCTV, smart
grid and electric
networks.

Process

- Axially driven cutting wheel with simultaneous suction and collection of the excavated material
- Laying of the ducts and backfilling of the trench with a quick-setting and self-placing mortar

Specific features

- Easily usable road vehicle
- Microtrenching with a suction system
- Combined cutting and suction of the excavated material
- Unloading of the excavated material in big-bags
- Radiocontrol piloting

Assets

- Cleanliness of trenches and job site
- Vehicle traffic not interrupted during the works
- Cutting in the curves
- Increased safety of the work site
- Quick restoration of the road
- Reduction in building costs

Innovations

- Combined cutting and suction of the excavated material
- Reduced dimension (< 1.70 m)
- 4 direction wheels

Output

- Up to 500 ml/day in an urban environment
- Up to 1000 ml/day on motorway

YouTube





Features of the cutting tool

- Axially driven cutting wheel

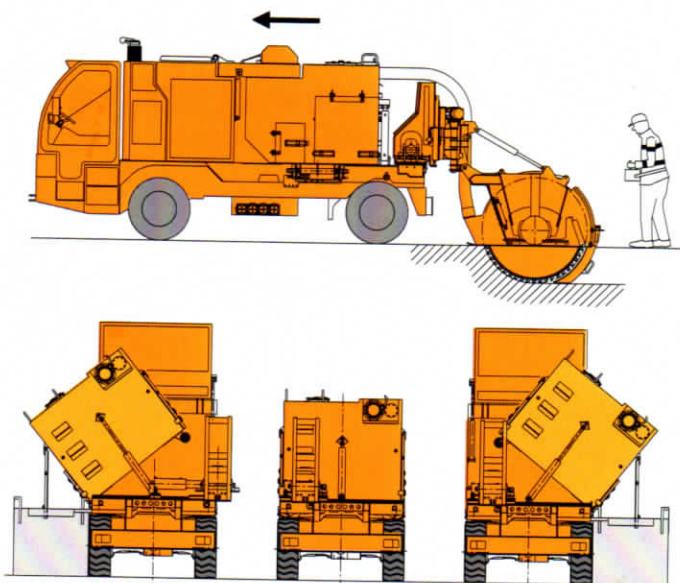
Type of wheel	Cutting width (mm)	Trench depth (mm)
R250 CC	25 to 60	250
R350 CC	35 to 70	350
R450 CC	45 to 80	450
Meteor	10	100
PCD	13 to 19	250

- Trenching wheel mounted on 5-axis boom
- Minimum Cutting radius = 3 m

Sizes and weight

- Length in working position: 7.70 m according to the tool
- Length in transport position: 7 m
- Width: 1.7 m
- Height: 2.70 m
- Unloaded weight: 9 tons
- Loaded weight: 10.5 tons
- Loading capacity of the bucket: 1 m³ abounded
- Unloading height: 900 mm
- Unloading both side (left or right)

Technical diagram



Carrier

- Carrier with wheels
- 150 ch (110 kW) diesel engine
- Speed in road mode: 16 mph / 25 km/h
- Hydrostatic advance
- Driving modes :
 - 2 directional wheels
 - 4 directional wheels in crab
 - 4 directional wheels in opposition



Suction unit

- 35 kW hydraulic turbine
- Capacity: 10 800 m³/hr
- Complete filtration of air rejections with automatic filter cleaning system

Accessories

- Radiocontrol piloting
- Wheel equipped of a suction system

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