

CityCleanfast



TrenchIntel

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DGPS guidance system:

Extra high precision 3D GPS system
Automatic depth and grade control
Autosteering to a predefined path
Pass optimization and fleet control



FEATURES AND APPLICATIONS

City Cleanfast is the ideal solution to deploy fiber optic networks, it guarantees high productivity especially in urban environment and highways. High-performance trencher for a cost efficient, clean and fast deployment of FTTH, CCTV, smart grid and electric networks.

The cutting wheel is axially driven, digs simultaneously with suction and collection of the excavated material and allows trenching in curves.

City Cleanfast assures a clean and dust-free job site, a reduced amount of excavated material produced with adapted narrow tools and no material or dust thrown out during earth works; it provides complete filtration of rejected air.



METROPOLITAN NETWORKS
INSTALLATION



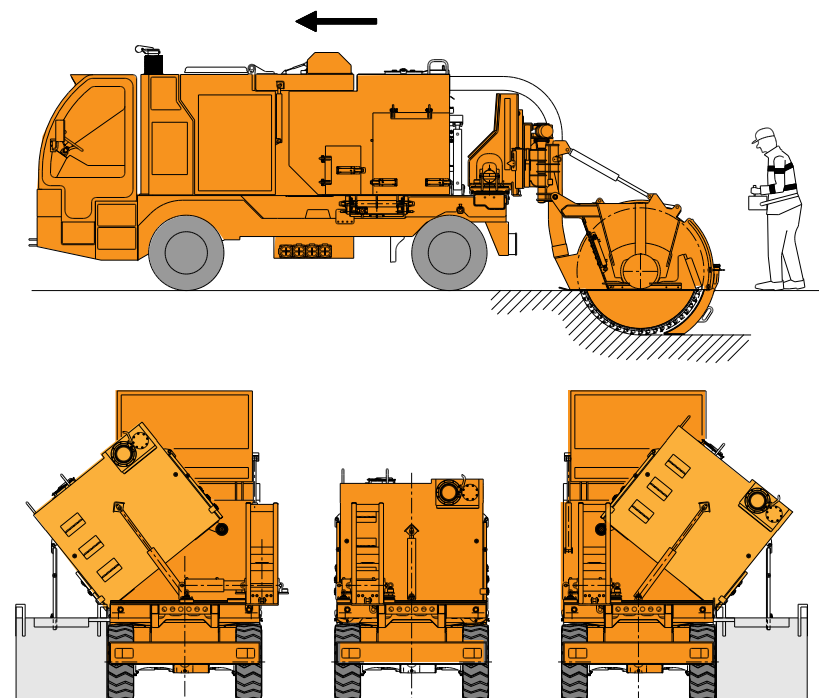
OPTICAL FIBER INSTALLATION



ACCESS NETWORKS INSTALLATION
(TRENCHING OR TRENCHLESS)



Manufactured Under
US Patent No. 10,794,042



CITYCLEANFAST TECHNICAL SPECIFICATIONS

Standard Features

Closed cabin: ergonomic for optimal visibility, seat with seatbelt, adjustable steering column, heating ventilation pack
 Detection radar for collision avoidance in front of carrier
 - active in transfer and work mode
 Radio control: ergonomic with LCD display and operator presence function
 Manual bank valve: emergency commands for urgent troubleshooting
 Telescopic arms bigbag support on the left and right sides
 Lights and signaling conform to legislation to circulate in public and private ways
 Tools compartments: 1 right side + 1 left side
 Electrical system: 24 V

Trenching Dimensions

R450ACC WHEEL
 Max depth.....1' 5" (45 cm)
 Width segments.....1,77"-2,36"-3,14" (4,5-6-8 cm)
 PCD DISK
 Max depth.....9,84" (25 cm)
 Width segments:
 PCD disk.....0,51"-0,74" (1,3-1,9 cm)
 Cutter bits disk.....0,98"-1,18"-1,37" (2,5-3-3,5 cm)

Engine

HIGHLY REGULATED COUNTRIES (EU, USA)
 Model.....Perkins 1204F-E44TAN Tier 4f / Stage IV
 Max horsepower.....142 hp (105 kW)
 Max no load rpm.....1.850 rpm
 Fuel tank capacity.....42 gal (160 l)
 Urea tank capacity.....5 gal (19 l)
 Fuel consumption at full load.....4gal/hr (15 l/hr)

LESSER REGULATED COUNTRIES
 Model.....Perkins 1104D-E44TA Tier 3 / Stage IIIa
 Max horsepower.....134 hp (99 kW)
 Max no load rpm.....1.850 rpm
 Fuel tank capacity.....42 gal (160 l)
 Fuel consumption at full load.....4gal/hr (15 l/hr)

Operating and Transport Weight

Max unloaded weight.....
 ..19.180-19.841 lbs (8700-9000 kg) following tool type
 Max useful load authorized.....3306 lbs (1500 kg)

Noise

Guaranteed sound power level.....105 dB(A) LWA

Trenching tool movement

Left offset.....max 19,1" (48,5 cm) tool axis/machine axis
 Right offset.....max 33,46" (85 cm) tool axis/machine axis
 Tilt correction.....tool axis/ground: $\pm 15^\circ$
 Pivot.....tool axis/machine axis: 25° left and 90° right
 Axially driven by hydraulic motor on the left side
 Evacuation of excavated material by suction

Carrier driving

Road mode driving.....sitting
 in cabin - speed 0 to 14,3 mph (0 to 23 km/h)
 Transfer mode driving.....outside cabin with
 radio control - speed 0 to 1,24 mph (0 to 2 km/h)
 Work mode driving.....outside cabin with
 radio control - speed 0 to 0,11 mph (0 to 180 m/h)
 Transmission.....hydrostatic 2x2 driving wheels
 Modes:
 - 2 steering wheels.....road / transfer / work modes
 - 4 steering wheels.....road limited to 9,32 mph (15
 km/h) / transfer / work modes
 - crab.....road limited to 9,32 mph (15
 km/h) / transfer / work modes
 Front axle.....oscillating
 Rear axle.....fixed
 Wheels:
 Pneumatics.....full anti puncture
 Rims.....7,5x20

Hydraulic circuit

Carrier advance pump
 Suction turbine pump
 Trenching tool pump
 Servo pump
 Hydraulic oil tank capacity.....58 gal (220 l)

Suction base

Turbine:
 Flow.....311475 to 381398 ft³/h (8820 to 10800 m³/h)
 Depression.....1,26 to 1,72 psi (8700 to 11900 Pa)
 Suction hose diameter.....5,9' (15 cm)
 Air filtration:
 Dust filters.....Nb 21
 Emptying of delicate dust...Access doors left and right on tank
 Maintenance.....Access from the top of the tank
 Filtered air discharge:
 Cycle.....continuous
 Circuit.....through soundproof duct then in rooftop air
 Disclogging:
 Type.....OFF Line through compressed air flow
 Cycle.....manual start on remote control
 Cycle duration.....1 min
 Air compressor flow.....211 gal/min (800 l/min)
 Air compressor max pressure.....145 Psi (10 bar)
 Tank:
 Useful capacity.....264 gal (1
 m³)
 Materials emptying.....left or right lateral spill
 Materials packaging:
 Bigbag.....264 gal (1 m³) or 3306 lbs (1500 kg)
 Ampliroll skip

Transport dimensions

Carrier length without attachment.....19' 1" (585 cm)
 Carrier length with R450ACC disk.....23' 4" (715 cm)
 Width.....5' 7" (170 cm)
 Height.....8' 10" (270 cm)

Optional Equipment

Bigbag 1 m³: canvas 180 g/m² with holding tunnels and
 drainage chute
 Skip 1m³: opening bottom with automatic release

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