

# CityCleanfast



TrenchIntel

**TrenchIntel**

**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.



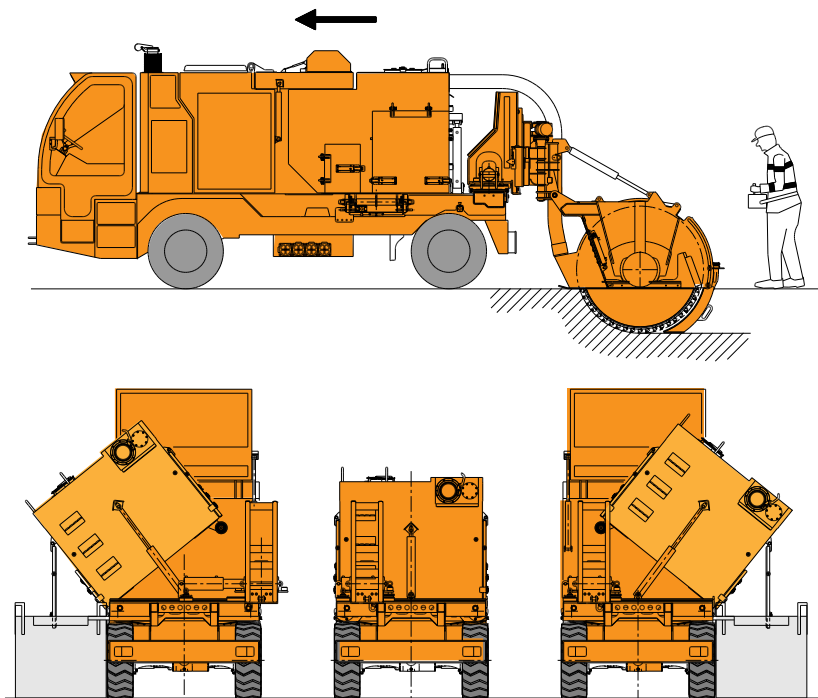
METROPOLITAN NETWORKS  
INSTALLATION



OPTICAL FIBER INSTALLATION



ACCESS NETWORKS INSTALLATION  
(TRENCHING OR TRENCHLESS)



## 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: ± 15°  
 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

Four pumps: hydrostatic advancement, suction turbine, trenching tool and service pump  
 Pressurized hydraulic oil tank:  
 Capacity.....58 gal (220 l)  
 Pressurization.....3,62 Psi

### Suction base

Turbine:  
 Flow.....311475 to 381398 ft<sup>3</sup>/h (8820 to 10800 m<sup>3</sup>/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  
 Dislogging:  
 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 m<sup>3</sup>)  
 Materials emptying.....left or right lateral spill  
 Materials packaging:  
 Bigbag.....264 gal (1 m<sup>3</sup>) 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 m<sup>3</sup>: canvas 180 g/m<sup>2</sup> with holding tunnels and drainage chute  
 Skip 1 m<sup>3</sup>: opening bottom with automatic release