

PT-475 D:Mine designed for demining



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The tracked PrimeTech PT-475 D:Mine with the FAE 500/TD (Tiller Demining) front attachment is an innovative vehicle designed for clearing anti-personnel (AP), anti-tank (AT) mines, landmines and unexploded ordnance (UXOs) on all types of terrain, even in the presence of stones and tree stumps.

PT-475 D:Mine is powered by a Caterpillar inline 6-cylinder engine, a 475 HP power plant that together with the design of the rotor guarantees very high productivity in all conditions. An innovative remote control ensures accurate guidance of the vehicle at a range of up to 1000 meters.

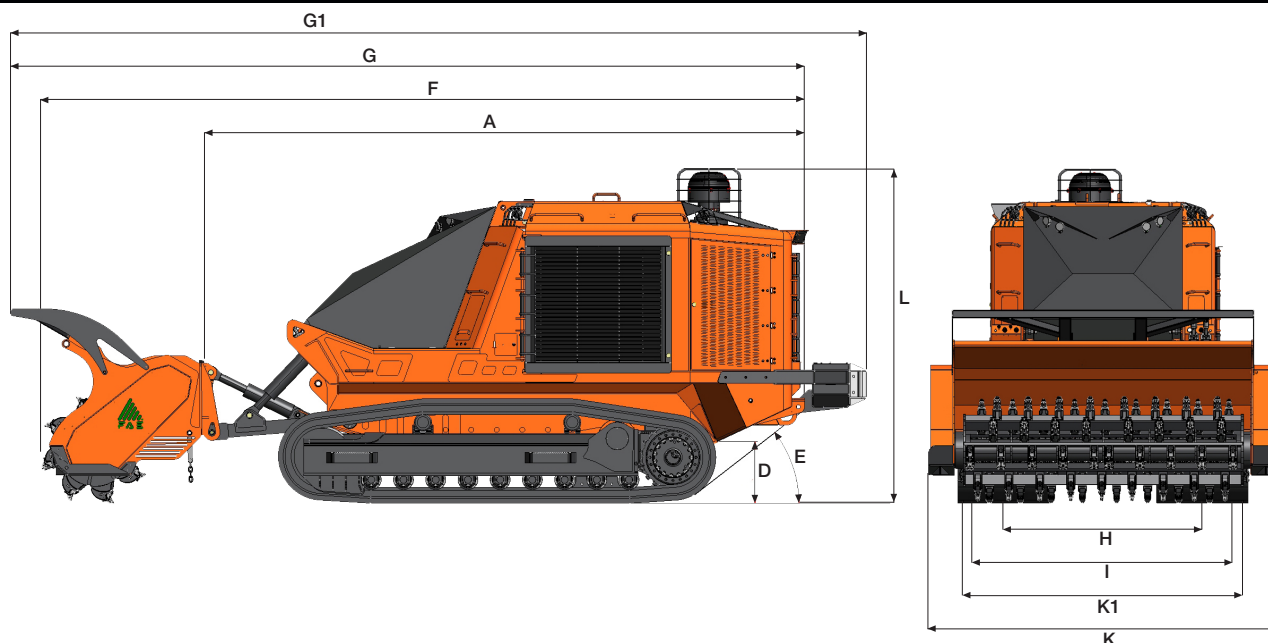
PT-475 D:Mine is a machine built for severe-duty jobs, in accordance with the CWA 15044:2009 standards. It has a rugged and extremely resistant structure made of special steels selected for their exceptional strengths, offering a very high level of reliability.

This mechanical demining asset is equipped with an FAE 500/TD tiller or flail, which is specially designed for mine clearance. Working width of the 500/TD is 2750 mm and working depth is 300 mm.

The design of tiller head and rotor and the materials used on them, limit the blast effects.

Other types of front attachments can be mounted as required (forestry mulcher, forestry tiller, rock crusher).





> DIMENSIONS

A Overall length without tiller	231 in	5860 mm
D Ground clearance	24 in	600 mm
E Hitch angle	38°	
F Overall length with tiller on ground	295 in	7490 mm
G Transport length with tiller on ground	306 in	7764 mm
G1 Transport length with tiller on ground and winch	330 in	8370 mm
L Maximum height	129 in	3270 mm

VERSION	STD
Track shoe width	24 in 600 mm
H Track gauge	77 in 1950 mm
I Overall track width	100 in 2550 mm
FAE TILLER ATTACHMENT 500/TD	
K Overall tiller width	135 in 3430 mm
K1 Working tiller width	108 in 2750 mm

> MAIN KEYS

• Max forward speed	4 mph	6,5 km/h
• Max reverse speed	4 mph	6,5 km/h
• Drawbar pull	81600 lbf	36300 daN
• Gradeability	100%	
• Tracks control	Remote - One joystick on transmitting unit	
• Service hydraulic circuit control	Remote - One joystick on transmitting unit	

• Parking brake	Negative, hydraulically activated
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VERSION	STD
• Track width	24 in 600 mm
• Operating weight	53352 lbs 24200 kg
• Ground pressure	7.69 psi 0,54 kg/cm ²

> DIESEL ENGINE

• Model	Caterpillar C13 Acert
• Maximum power	475 HP 354 kW
• Rating	@2100 rpm
• Displacement	763 in ³ 12.5 l

• N° of cylinders	6
• Max Torque	1544 lb-ft 2094 Nm @ 1400 rpm
• Fuel rate from	15 gal/h 58 l/h
• Emission	Tier 3, Stage IIIA

> HYDROSTATIC TRACKS TRANSMISSION

• Pumps	Danfoss
• Displacement	100 cc
• Motors	Danfoss
• Displacement	160 cc
• Hydraulic emergency stop	

> HYDROSTATIC TILLER TRANSMISSION

• Pumps (2)	Danfoss
• Displacement	130 cc
• Motors (2)	Danfoss
• Displacement	160 cc

> REFILLING

• Hydraulic oil tank	127 gal	480 l
• Fuel tank	209 gal	790 l

> UNDERCARRIAGE AND TRACKS

• Undercarriage	D5-H, oscillating
• Track shoes single grouser type	24 in 600 mm

> ELECTRICAL SYSTEM REMOTE CONTROL

• Nominal voltage	24 V
• Batteries	2 x 12 V High cold cranking Amps
• Alternator	95 A
• Track control	Joystick on transmitting unit
• Tiller movements control	Joystick on transmitting unit
• Tiller rotor speed control	Potentiometer on transmitting unit

• Engine control	Buttons for start/stop and rpm increase/decrease on transmitting unit
• Safety features	Hydraulic engage and stop buttons on transmitting unit. Hydraulic disengage in case of remote control signal loss.
• Batteries run time	Up to 10 h
• Remote control range	Up to 1000 m

> FAE TILLER ATTACHMENT 500/TD

MODEL	500/TD
• Rotor diameter	43 in 1100 mm
• Overall width	135 in 3430 mm
• Working width	108 in 2750 mm
• Weight with options	12125 lbs 5500 kg

• Max working depth	12 in 300 mm
• Rotor rpm	350
• Quantity of cutting teeth tungsten carbide type "G/3"	68
• Quantity of cutting teeth tungsten carbide type "STC/3/FP"	2

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