Exc@v8

PFANZELT MASCHINENBAU



Wildfire Response

Pfanzelt Moritz FR75



Base machine:

Pfanzelt Moritz FR75

The Moritz FR75 is a 75 hp crawler tractor driven and worked entirely by radio remote. The machine can be operated from up to 350m away, clear of heat, smoke and unstable ground.

The tracks of the Moritz extend hydraulically for stability across slopes and retract for narrow access and transport. Its low ground pressure protects soft ground, and an all-steel construction and integrated roll frame protect the machine from damage.

Specification	Moritz FR75
Engine	Deutz 4-cylinder, Stage V, 55.4 kW (75 hp), max torque 260 Nm
Control	Full machine and winch control by radio remote panel
Hydraulics	Three separate circuits: traction drive, on-board and high-flow auxiliary. Up to 5 double-acting spool valves plus case drain
PTO	Direct mechanical drive for implements, minimal power loss and heat
Linkage	Rear 3-point up to Cat 2. Front 3-point [optional]
Undercarriage	Extends hydraulically by 400 mm. Hydraulic track tensioning with double idler
Ground clearance	320 mm
Approach / departure angle	50° / 40°
Cable winch	Integrated geared winch, up to 7.5 t
Operating weight	1,405 kg
Transport	Fits a car trailer without implements



Firefighting:

Exc@v8 Wildfire Water Cannon

The water cannon puts water directly onto a fire from a safe operating distance, which ground crews can't approach. It is custom-built by Exc@v8 for the Moritz.

The operator sets pitch and rotation by radio remote for accurate targeting, with spray patterns from fine mist to full deluge. An optional onboard PTO pump makes it self-contained.

Specification	Exc@v8 Wildfire Water Cannon
Output	40 L/min to 10,000 L/min (10 m³/min)
Spray pattern	Fine mist to full deluge
Media	Fresh or brackish water, foam and other firefighting fluids
Rotation	300° with traction winch fitted. 360° endless-rotation version available
Control	Pitch and rotation by radio remote
Pump	Optional high-output onboard PTO pump for self-contained operation
Applications	Moorland, heathland and forest fires. Industrial and petrochemical incident recovery











Firebreak mulching:

Pfanzelt MAXPro forest mulcher

The MAXPro mulcher cuts firebreaks by shredding heather, gorse, scrub and standing timber, removing the fuel in a fire's path. Its chisel rotor works soil as well as vegetation, so breaks can be cut back to the ground.

The mulcher can be paired with the Wildfire Water Cannon to cut and wet a line in one pass. Outside fire season it handles vegetation clearance, ride maintenance and planting preparation.

Specification	MAXPro forest mulcher
Working width	1,200 mm
Drive	PTO shaft drive for maximum power to the rotor
Chisel rotor	40 carbide-tipped turnable round chisels, for all vegetation and soil
Blade rotor	20 sharp blade tools, for high-output timber mulching and above-ground stumps
Teeth	Fixed, in a helical pattern
Adjustment	Hydraulic pitch, hydraulic front door, optional hydraulic side shift



Fire hose deployment and recovery:

Exc@v8 Wildfire Hose Reeler

The hose reeler lays fire hose into ground that crews can't safely reach, then recovers it once the fire is out. It is custom-built by Exc@v8 for the Moritz and run by one operator on the radio remote.

Deployment. The Moritz carries hose up steep, unstable or hazardous ground and lays it where it's needed. Multi-hose cassettes can deploy over 1,000 m per trip.

Recovery. Recovering hose by hand across burnt moorland is slow, heavy work. The reeler winds in multiple joined lengths of damaged or reusable hose in one pass and coils them into standard rolls, ready for inspection, storage or reuse.

Specification	Exc@v8 Wildfire Hose Reeler
Motor	High-torque, with overload valve for a steady feed speed without pressure spikes
Configurations	Single-hose or multi-hose
Multi-hose capacity	Interchangeable cassettes, over 1,000 m of hose per trip
Output	Hose coiled in standard rolls. Quick release for removing coils
Operation	One operator, fully radio controlled
Hose compatibility	2-6 inch diameter - all coupling types









Traction winch

The traction winch anchors the Moritz to a fixed point so it can climb and traverse slopes that other machines could not access and where ground crews couldn't safely walk.

The winch is fully synchronised with the traction drive, paying cable in and out automatically as the machine moves. A rotating arm keeps the cable clear, so the Moritz can drive in any direction and turn underneath the winch rope whilst working with an attachment.

Specification	Traction winch
Drive	Hydraulic, automatic, synchronised with travel
Traction force	0–850 kgf, infinitely variable
Rope capacity	Up to 1,000 m × 6 mm
Cable guide	Continuously rotating infeed pulley on a supported radial arm



LGP tracks

Optional wide, low-ground-pressure tracks spread the Moritz's weight over a larger footprint, so it can cross peat, bog and saturated moorland that would cause other machines to sink. Lower ground pressure also means less damage to sensitive peat, which has to survive the response as well as the fire.

Hydraulic track tensioning with fast pressure release lets one operator change tracks in minutes. The same machine can run standard tracks for forestry work and other duties and switch to wide tracks when the call comes in.



Recovery winch

The Moritz's low-geared recovery winch pulls stuck and overturned vehicles out of fields, ditches and soft ground that a recovery truck can't reach. It is separate from the traction winch, which holds the Moritz itself on steep ground.

Low gearing gives a slow, controlled pull, so the load moves steadily without snatching. The operator runs the winch by radio remote, standing well clear of the cable.





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