

# Moritz Fr70/75 mini forestry tractor

## Technical specification

Technical specs:	Fr70 (PS_RH-10550/6-II)	Fr75 (PS_RH-10575/6-II)
Engine	Deutz diesel engine D2.9L4 Four cylinders, water cooled, Cleanfix reversible fan, combination radiator, fuel capacity 45 l	
Performance	36 kW / 50 hp	55 kW / 75 hp
Traction hydraulics	Closed proportional two-circuit system, all travel functions controllable via radio, Stepless driving speed, 1st driving step 0-3 km/h, 2nd driving step 0-6 km/h, Infinitely variable final speed, drift adjustment to compensate for slope downforce when mowing across slopes, automatic hydraulically tensioned double guide wheel	
Running gear	Crawler chassis with rubber running gear in AS design (width 250 mm, length 1,650 mm), Width hydraulically adjustable	
Chassis	torsion-resistant box section made of special steel, large lockable storage compartment integrated in the chassis Various anchor points for securing the mini tractor, floor protection tray made of solid steel, circumferential branch deflector with integrated hood guard	
Onboard hydraulics	separate oil circuit with pump (18 l/min at 200 bar) One proportional control system for lifting gear with floating position	
Operation	Remote control for all functions (emergency stop, gas adjustment of Diesel engine, driving and steering, fan reversal, 1st and 2nd gear, drift adjustment, optional linkage relief, forwarding shield up/down, float position of linkage, width adjustment, PTO on/off, auxiliary control valves, horn, lights, cable winch operation / pick- up for foreign devices	
Dimensions	Length 2,300 mm, width 1,150 mm / 1,550 mm Height 1,350 mm, weight 1,370 kg	Length 2,300 mm, width 1,150 mm / 1,550 mm Height 1,350 mm, weight 1,405 kg

### Accessory programme for Moritz Fr70 and Fr75

Running gear 300 mm width (instead of 250 mm series)

LED working lights front and rear with bracket (caterpillar) | *Prerequisite: additional DW control valve*

Rollover bar

Transport box

Chain curtain for use with mulcher or forestry tiller

Front auxiliary winch | *Prerequisite: additional DW control valve*

- 10 kN Pulling power
- Rope 6 mm dia. x 30 m (max. 50 m)
- Rope reel and drum brake
- Control via track remote control
- Forward and reverse with freewheel clutch

Deflection pulley bottom for auxiliary front winch

Three-point linkage for external devices at the rear hydraulics

Lifting gear relief for rear hydraulics

Front power lift with max. lifting force of 7kN | *Prerequisite: Only in connection with four DW prop. and two BW valves*

#### Crawler PTO transmission

- Maintenance-free oil-bath running and oil-cooled multi-plate clutch
- PTO shaft speed at transmission approx. 540 at 2,100 rpm

Hydraulic top link

#### Power hydraulics

- closed oil circuit with axial piston variable displacement pump max. 48 kW
- infinitely variable adjustment of the oil flow rate 0 - 96 l
- maximum pressure 300 bar
- with multicoupler (A + B + leakage oil, voltage 12 V)

Pressureless return with holder

Proportional DW valve 2/1 (max. 4 pieces)

Black/White DW valve (max. 2 pieces)

#### Fire-fighting version

flashing beacon light mounted on a bracket and flasher in the bonnet, warning label,

## Implements

### Wood mulcher "MAX" with hydraulic flap and hydraulic pushing device

*Prerequisite: PTO shaft transmission and 2 additional DW control valves*

*Recommendation: Hydraulic top link for forestry mulcher*

Mechanically driven via power take-off shaft, with hydraulic flap, optimised reshredding by counter-knives in the flap, mechanical lateral displacement, hydraulic pusher device for use in high branch material, wide skids and optimised geometry, cutting depth adjustment via hydraulic top link (hydraulically Top link option), 40 carbide-tipped round bits, can be used on three sides (by turning the bit), spirally arranged, tool flight circle diameter 340 mm, power requirement from 20 kW with cardan shaft

**(Option: with lateral hydraulic adjustment)**

### Mulcher 120

*Prerequisite: PTO shaft transmission*

Working width: 120 cm

Three-point linkage, cutting rotor with 24 hammer flails type 21, input oil-bath gearbox with integrated freewheel for PTO 540 rpm left-turning (front), skids, back-up roller with 140 mm diameter, CE guards with mechanical side shift (approx. 400 mm), flap (for rotor cleaning at standstill), cardan shaft

**(Option: hydraulic cylinder for hydraulic flap)**

### Lateral hydraulic adjustment for wood mulcher 120

*Prerequisite: Control valves*

*Recommendation: Hydraulic top link for forestry mulcher*

### Mulcher 135

*Prerequisite: PTO shaft transmission and additional DW control valve*

Working width: 135 cm

Mulcher with hydraulic side shift, input oil bath gearbox with integrated freewheel for 540 rpm PTO, front guards, adjustable belt tension, hammer-flail type 08, lower counter blade, support roller with 170 mm diameter, cardan shaft

### Strip mulcher

*Prerequisite: PTO shaft transmission*

Milling depth 200 mm, mechanically driven via PTO shaft, trench type v-shaped (top 200 mm wide, bottom 20 mm wide), hard-metal tipped teeth with cardan shaft

**Seed module with hopper** (*only in combination with strip cutting machine*)

Separate hoppers for coarse grain with approx. 55 l capacity and fine seed with 10 l capacity, electrically adjustable sowing frequency, automatic switch-off of the sowing unit when vehicle stops, macrolon cover for inspection

### Plantomat planting machine

Semi-automatic, radio-controlled planter for inserting container plants into the soil.

Bale size up to 6 x 6 cm square or 6.5 cm diameter, bale length up to 20 cm, planting height up to 45 cm

*Description see page 155*

### Traction winch

*Description see page 155*

### Stump grinder

*Description see page 155*

### Protection shield for persons

*Description see page 155*

## Winch aggregates

### Hydraulic winch 50 kN pulling power

*Prerequisite: Power hydraulics*

- Worm gear drive: Power transmission to the winch drums by means of hydraulically actuated multi-disc clutches
- Pulling force 50 kN
- max. cable capacity 110 m x 11 mm
- Average cable velocity hydr. 0.40 m/s
- Multi-disc brake
- Sinter plate clutch
- electric solenoid valve control (wet armature)
- Shield:
  - Hydraulically height-adjustable with pushing function
  - Rope reel also running upwards
  - Lifting force on the skirting bar: 14 kN
  - Shield width approx. 1100 mm
  - Trailer coupling and combination bolt K 50 (ball)

### Hydraulic winch 50 kN pulling power with cable brake

*Prerequisite: Power hydraulics*

(Technical specifications see item 1) with swivel roller and cable brake

### Hydraulic winch 60 kN pulling power

*Prerequisite: Power hydraulics*

- Pulling force 60 kN
- Max. cable capacity 110 m x 11 mm

*all other specifications correspond to the cable winch unit with 50 kN pulling force*

### Hydraulic winch 60 kN pulling power with cable brake

*Prerequisite: Power hydraulics*

(Technical specifications see item 3) with swivel roller and cable brake

### Hydraulic winch 72 kN pulling power

*Prerequisite: Power hydraulics*

- Pulling force 72 kN
- Max. cable capacity 90 m x 12 mm

*all other specifications correspond to the cable winch unit with 50 kN pulling force*

### Hydraulic winch 72 kN pulling power with cable brake

*Prerequisite: Power hydraulics*

(Technical specifications see item 5) with swivel roller and cable brake

Lift-out device - mechanical installation and removal aid for quick winch change

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