



ROTTNE F10^B

WORLD-CLASS COMFORT AND FUNCTION!



F10^B


NEW FORWARDER CAB

The newly-developed cab features an extremely modern design where the operator actually sits in the centre. The large windows and low-built instrument panel provide a fantastic view of the immediate surroundings and upwards. The cab, which has a height enough for a standing person, is extremely spacious and well insulated to ensure a low noise level. It has a number of storage compartments and a heated compartment for a lunch box integrated into the instrument panels.

The air conditioner with filters for both fresh air and recirculated air has a high fan capacity and 16 air inlet vents in the lower part of the cab, as well as adjustable vents in the roof.

The operator's seat with air suspension is equipped with Airvent and infinitely adjustable armrests. The lever panels with function buttons and the display for monitoring and setting of the machine control system are incorporated into the armrests, so that they follow the seat when it is turned around.



An attractive and comfortable operator station

ROTTNE D5

The machine control system Rottne D5, which is based on CAN bus technology, controls and monitors the engine, transmission and loader. D5 comprises a main computer, a 7" colour touch screen, and a number of nodes set out on the machine close to the function to be controlled. The main computer communicates by means of a CAN bus cable linked to all the nodes.

The operator can adjust settings for the loader, transmission and engine, monitor pressure, temperatures and fluid levels and perform troubleshooting using the display (touch screen) in the armrest. Alarms are indicated by visual and audible signals and are displayed in clear text on the display.

NEW DESIGN



WELL DESIGNED

Rottne F10^B is a further development of the popular thinning forwarder Rottne F10. F10^B has all the features demanded of a genuine thinning forwarder. Stability, flexibility and good tracking are typical characteristics for this machine and are good conditions for being able to carry out good thinning work in dense thinning stands.

The machine has a robust design and a powerful articulated joint with good steering ability, and even though this is a thinning forwarder, it can also be used for log-hauling after light final felling without forgoing function and service life.

The new loader RK 85 has significantly better performance than the predecessor. The loader geometry is refined and the new powerful swing base has much more swing torque. The king post has roller bearings instead of bushings, which minimizes the friction loss when lifting heavy loads. A new single telescope with 2.1 meter stroke provides a 7.5 meter outreach in the standard version. The loader can also be equipped with a double telescope giving a 9.2 meter outreach.

The hydraulically controlled moveable head board means the load area can be adapted to short timber for optimum weight distribution and stability.

ROTTNE F10^B NEW TECHNOLOGY. FIRST-CLASS COMFORT AND FUNCTION



Rottne D5 is a CAN bus-based machine control system with small robust nodes for demanding environments that controls all electronic equipment on the machine. The operator controls the system and is kept informed of its status via a colour touch screen in the armrest. The system permits personal settings for the loader and transmission for up to 8 different operators, which speeds up shift changes.

The electrical system also uses modern CAN bus technology, providing considerable benefits in terms of wiring in narrow passages, as the fewer wires there are the simpler the wiring.

Also, the position of the distribution box in the side wall of the cab has been optimised, as fuses can be checked/replaced from the operator seat. However, servicing of the box is performed via an access panel on the outside of the cab.

The newly-developed forwarder cab easily satisfies the ergonomic guidelines that apply for forestry machines.

Rottne has, as the first manufacturer in the branch, made a huge breakthrough by reducing vibrations in the cab by means of the gas/hydraulic cab suspension system Comfort Line, which is now available as an option. The system is activated by a button once the engine has been started. This raises the cab approximately 5 centimetres to ensure suspension movement, after which point the suspension functions automatically until the engine is switched off.



The hydraulic filters can easily be changed when the tank is folded out

Nowadays, almost all forestry machines use synthetic oil in their hydraulic systems. However, this type of oil is sensitive to aeration. To counteract this problem Rottne has developed a system where the return filters always remain below oil level. This system has been used to good effect in Rottne's harvesters for a number of years, so it has now been incorporated into Rottne F10^B. When you need to replace the filters, the hydraulic tank can be folded out to one side by a single handle so that the filters are on top.

As safety is a top priority, on most markets the machines are equipped with a rear vision system. On forwarders there is one camera on the front of the cab and a second on the back of the wagon. The of travel direction automatically determines which camera is connected, and when the machine is in motion the picture is shown on the D5 display in the armrest.

Loose tools and other objects on the cab floor are a risk but are still a common sight when little storage space is available. The F10^B cab has a number of storage compartments integrated into the instrument panels, and there is also a heated compartment for a lunch box.





SERVICE ACCESS

Serviceability is an important factor during development work on all Rottne machines. Downtime can prove expensive for machine owners and good service access can significantly reduce the time needed for servicing, repairs and cleaning. Rottne F10^B is no exception in this respect.

It takes only a few minutes to access all areas of the machine. The engine and transmission are revealed by tilting the engine hood forwards and tipping the cab sideways using hydraulics. The front and rear belly plates have hinges mounted under the front axle and the entire underside opens when these are lowered.

Hard-to-reach lubrication nipples are moved to a better position by extension pieces, and filling equipment for hydraulic oil and diesel is available as an optional extra.



FLEXIBLE FORWARDER

Rottne F10^B is an ideal thinning forwarder with a potential machine width from 2.5 metres depending on the tyres selected. The articulated joint is positioned almost in the centre between the axles, and when combined with a 43-degree steering angle, the forwarder achieves good tracking and excellent weight distribution.

The machine is extremely stable and has a bogie lift (optional extra) that increases flexibility in certain situations. The loader can be equipped with double telescopic extension arm that increase the reach to 9.2 metres.

The operator environment is superb thanks to the light, spacious and quiet cab that also provides excellent visibility.

The ergonomically designed lever panels feature all the functions used most frequently, which means that forwarding work can be performed in a safe and flexible manner.



The new cab offers the operator fantastic visibility

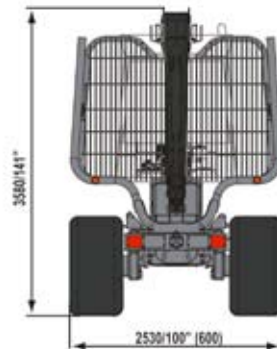
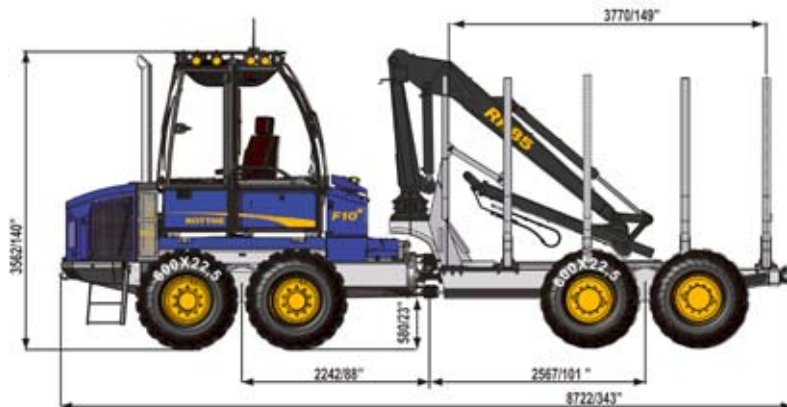
FORWARDER COMPUTER

Communication between forwarder and harvester and with principals and landowners is becoming increasingly important. To satisfy this requirement, a forwarder computer comprising a computer and a colour touch screen is available as an optional extra. It is possible to connect a GSM telephone and a GPS receiver with GIS program to the forwarder computer.

This equipment enables the harvester's production files and tract maps with working routes to be transmitted to the forwarder to ensure that all felled timber is collected.

Programs are also available for reporting the daily production of forwarders with coordinates for the position of roadside timber stacks.

An advanced operations follow-up program is also available for anyone wanting more detailed follow-up of times for loading, unloading, transport, servicing and repairs, etc.



CLEANER ENGINE

Rottne F10[®] has a powerful tier 3 diesel engine. It easily satisfies emission requirements for modern industrial engines.

The new engine has been named Power Tech Plus, and it has, among other things, 4-valve cylinder heads, a Common Rail injection system and a variable turbocharger.

This technology and electronic means of control enables the power curve and torque to be adapted to the optimum rpm range for forwarders and harvesters, which means that the forwarder can be operated at a lower working engine speed.

Compared with its predecessor, the new engine also produces a much more rapid response, less vibrations, a lower noise level and, most importantly, lower fuel consumption.



TECHNICAL DATA

ENGINE

JOHN DEERE 4045 HF 485 Power Tech Plus, Tier 3.
Cylinder volume.....4.5 litres (274 in)
Torque at 1400 rpm.....645 Nm (476 lb ft)
Output at 1800 rp.....116 kW
Fuel tank125 litres (33 US gal)

TRANSMISSION

Hydrostatic/mechanical with full capacity control.
Tractive force139 kN (31 250 lbf)

BRAKES

Dual-circuit el/hydraulic negative wet disc brakes.
Automatic load brake.
Spring-assisted parking and emergency brake.

HYDRAULIC SYSTEM

Load-sensing constant pressure system.
Entirely separated form transmission.
Pump capacity165 litres/1500 rpm (43.5 US gal)
Working pressure3-24 MPa (440-3480 psi)

ELECTRICAL SYSTEM

24-volt system with CAN bus technology.
Machine control system..... Rottne D5
Work lighting21 lamps

FRAMES

Front frame with articulated joint of slew bearing type.
Articulated frame lock with cylinders integrated into front frame.
Load area4.0 m² (43 sq ft)

CAB

Comfortable and spacious forwarder cab.
ISO-Certified for ROPS, FOBS and OPS
Noise level..... 69 dBa

LOADER RK 85

Knuckle boom loader with fixed tower and 2.1 m telescope.
Lifting torque86.7 kNm (63 950 lb ft)
Torque27 kNm (19 920 lb ft)
Angle of rotati.....380 °
Reach7.5 m (24.6 ft)

WEIGHT AND CARRYING CAPACITY

Service weight12.000-13.200 kg (26 455-29 125 lbs)
Load capacity9.000 kg (19 850 lbs)

EQUIPMENT

Technical documentation. Toolkit. Radio with CD player.
Fire extinguishers. Sprinkler system. Bogie lift. Balanced bogie
Engine/cab heater with heating coil for hydraulic tank.
Sunvisors. Comfort line. Rear vision system. Green oil
Xenon. Mobile phone. Vacuum pump. Double telescope.
Forwarder computer. GPS/Gis.

Specifications and equipment are subject to alteration.

Images do not always show the machine in its standard design.



ROTTNE F10[®] is a stable and flexible thinning forwarder with excellent properties and good overall economy.



Rotne Industri AB
www.rotne.com