

# SOLID F12 S



An intermediate class forwarder usually alternates between thinning and final felling and it is then beneficial if the machine is extremely flexible. Solid F12-S has a strong chassis and 26.5" wheels, however, the unique articulated wagon makes this medium sized forwarder incredibly responsive on narrow strip roads and in sharp turns that in most cases it outstrips pure thinning forwarders.

## ROTTNE

Solid F12 s has a large and spacious cab with excellent all-round visibility that can be improved yet further by the optional skylight window. The air conditioner with ACC has a newly developed filter system on the fresh air intake with a large filter area that gives good air exchange and also filters recirculated air.

The operator sits comfortably in an air-sprung seat that features lever panels suspended on the armrests where all essential functions are placed next to the mini levers for the loader.



The IQAN system, which controls and monitors the 6 cylinder environment-friendly engine with turbo as well as the hydrostatic transmission and loader, offers the possibilities of individual settings for different operators.

The side mounted cooling system for the engine and transmission has a thermostat controlled, hydraulic powered fan, which means the cooling effect is fully independent of the engine speed.



The tried and tested forwarder loader, RK 72, is fitted as standard, but a stronger loader alternative is available as an option and both can be equipped with double telescopic arms for a longer reach.

The range of extra equipment includes Xenon work lighting that makes working in the dark much easier, there is also a great deal of other equipment available that means the forwarder can be equipped for different requirements.





**ENGINE**

JOHN DEERE 6068 HF 485, Tier 3.  
6-cylinder turbo engine with intercooler.  
Side mounted radiator and variable speed hydraulic fan with temperature control.  
Cylinder volume: .....6.8 litres (415 in<sup>3</sup>)  
Torque at 1200 rpm: .....838 Nm (618 lbf ft)  
Output at 1600 rpm: ..... 137 kW (184 hp)  
Fuel tank: .....160 litres (42 US gal)

**TRANSMISSION**

IQAN-controlled, hydrostatic/mechanical transmission with power control.  
Two-speed drop gearbox with disengageable wagon drive and electronic quick shifting. Gear driven bogies with manually operated differential lock.  
Traction: .....168 kN (37 800 lbf)  
Speed, gear 1: .....0-9 km/h (0-5.6 mph)  
Speed, gear 2: .....0-25 km/h (0-15.5 mph)

**BRAKES**

Dual circuit hydraulic wet disk brakes, automatic loading brake. Spring loaded parking and emergency brake.

**WHEELS**

6 WD  
Front: .....600/65 x 34/14 SB\*  
.....710/55 x 34/14 SB  
Rear: .....600/55 x 26.5/16 SB\*  
.....710/45 x 26.5/16 SB  
8WD.....600/55 x 26.5/16 SB  
.....710/45 x 26.5/16 SB

\*) standard

**HYDRAULIC SYSTEM**

The machine has separate systems, one for transmission and one for working hydraulics. Load sensing hydraulic system with filters in return line and leakline. Extra fine filter circuit (3µ) with water separation.  
Pump capacity: .....210 litres / 1 500 rpm (55 US gal)  
Working pressure: .....3-21,0 Mpa (440-2 500 psi)  
Filtration grade: .....10 µ abs (10 micron)  
Tank volume: .....120 litres (32 US gal)

**ELECTRICAL SYSTEM**

24 volt electrical system with IQAN control and monitoring system.  
System voltage: .....24 V  
Alternator: .....2 x 55 A  
Battery: .....2 x 115 Ah  
Working light: .....22 x 70 W

**STEERING**

Articulated steering joint of ball race type with double acting cylinders. Steering wheel control by orbital, proportionally controlled off-road steering.  
Max. steering angle: .....±43°  
Max. wagon steering angle.....±15°  
Max. steering torque: .....49,7 kNm (36 600 lbf ft)  
Max. wagon steering torque.....68,5 kNm (50 500 lbf ft)

**FRAMES**

Welded puller frame with steering joint of ball race type and built in steering cylinders. Stabilizer using 2 cylinders. Articulated wagon with central frame and 3 bunks. Front gate, hydraulic adjustable 350 mm (14 in) horizontally and 400 mm (16 in) vertically.  
Loading area: .....timber 4,25 m<sup>2</sup> (46 ft<sup>2</sup>)  
Loading area: .....pulp 5,25 m<sup>2</sup> (57 ft<sup>2</sup>)

**CAB**

Rubber mounted welded safety cab with very good visibility. Polycarbonate glazing in the rear and rear side windows. Air suspended, electrically heated drivers seat with waist safetybelt. Air conditioning system with automatic ACC control and pollen filter. Hydraulic running board. Sound level below 75 dBA.

**LOADER**

**RK 120**  
Knuckle boom loader with fixed tower. Swing base with dual slew cylinders. 1.4 m extension and endless rotator. Hultdin Grapple SG 360.  
Lifting torque, gross / net .... 120/96 kNm (88 500 / 70 800 lbf ft)  
Torque:.....23,3 kNm (17 200 lbf ft)  
Slewing arc:.....375°  
Reach:.....6,9 m (22,5 ft)

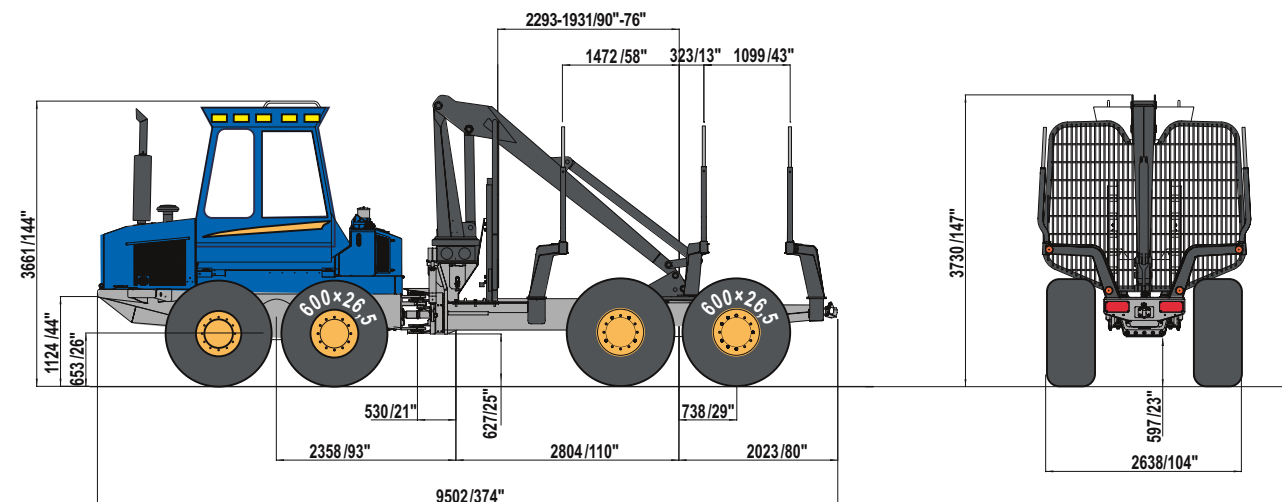
**DIMENSIONS, WEIGHT, AND LOAD CAPACITY**

Length: .....9 650 mm (380 in)  
Width: .....2 550 mm (100 in)  
Transport height: .....3 730 mm (147 in)  
Ground clearance:.....627 mm (25 in)  
Distance gate-bogie centre: ..2 300 mm (91 in)  
Service weight: .....15 700-17 400 kg (34 600-38 400 lb)  
Loading capacity: ....12 000 kg (26 500 lb)

**EQUIPMENT**

**Standard:**  
Fire extinguisher. Service equipment including technical documentation and complete tool set. Radio with CD-player.  
**Extra:**  
Engine/cab preheater with heating coil for hydraulic tank. Skylight windows, sun visors. Dozer blade. Bogie lift. Xenon working light. Sprinkler system. Air vent driver seat. Electronic filter indication. Vacuum pump. Cyclone preleaner. Rear vision system. RK 80 loader. Double telescope. Biodegradable oil. Chains. Tracks.

Specifications and equipment are subject to alteration. Images do not always show the machine in its standard design.



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**S**olid F12 S, that can have either 6 or 8 wheels, is designed as a conventional middle-sized forwarder, but which features unique steering of the wagon bogie giving

The operator can easily steer the wagon away from any obstacles even when reversing into the stand.

The wagon's load area offers flexibility through swivel stakes and a front gate that can be moved and raised hydraulically. As an option, the forwarder can be equipped with a dozer blade or in the 8 wheel design, a bogie lift that makes the machine more responsive in certain situations.



unbeatable ability to twist and turn over difficult terrain, on narrow strip roads or through sharp turns. The articulated wagon can either be manoeuvred automatically connected to the articulated steering or manually with separate steering.



SOLID F12 S as 6 WD



Roof window improves invisibility



**ROTTNE SOLID F12 S**

**ARTICULATED WAGON**

