

860.3







Valmet 860.3 – a strong, fast, and comfortable tough guy

Strong, nimble, and flexible. The Valmet 860.3 is a forwarder that can handle everything with ease. **Strong and stable, nimble and flexible, tough and sturdy** – that's the short and simple description of the Valmet 860.3.

Fast travel to and from the landing are important in a forwarder. Minutes earned here quickly become hours and it's easy to do the math on the financial gains. But being able to carry a good size load is also important, to reduce the number of runs, and the actual loading and unloading needs to go fast too, of course. The Valmet 860.3 has all the prerequisites for this – and a little more.

Strong and sturdy

The Valmet 860.3 is a big forwarder with an impressive 15.8-ton load capacity. Yet it's still surprisingly nimble and can slink its way through dense stands and difficult terrain. A new, powerful six-cylinder Tier 3 class diesel engine provides even greater torque than before. Fuel consumption is low and exhaust emission control is better than ever. And that's good for the environment as well as your bank balance.

The Valmet 860.3 has been designed for maximum reliability. The frames, articulation joint, bogie, and more are all sized to withstand heavy loads. The sturdy portal bogie, with the final gear mounted in the wheel rims, provides good ground clearance across the entire width and increases mobility. Other factors contributing to ground clearance and mobility are the bogie suspension and the large turning angle of the articulation joint.

Easy servicing is a necessity if a forwarder is to attain optimum efficiency. The Valmet 860.3 lubrication points, such as those on the crane, have been reduced in number and centralized, so you can reach as many points as possible from a single service position.

Optimized cab comfort

No machine is more efficient than its operator. So the Valmet 860.3 cab is ergonomically designed down to the smallest detail. The cab interior provides plenty of swing room, yet everything is still close to hand. Frequently used buttons are more accessible and the cab interior design delivers plenty of space for personal items and essential equipment.

Visibility is good in all directions. The panels are lower profile with integrated sunshades, ensuring better visibility and a comfortable seating position when working the crane and during driving.

The cab is well damped against impact and vibration, as well as against noise. Simply put, the Valmet 860.3 has an operator environment that enables operators to work highly productively throughout their shifts.

Longer reach

The Valmet 860.3 has a new stronger crane, the CRF 10, with a longer reach, increased to 25.6 feet (7.8 meters), and a full 31.5 feet (9.6 meters) with the combi crane. Lifting torque has been increased to 84,820 ft – lb (115 kNm) and the crane's torque to 21,168 ft – lb (28.7 kNm). Great reliability is ensured by the outer boom and lift cylinders, the hose routing on the crane, and the hose routing between the machine and the crane. Longer reach and increased lift torque make a substantial contribution to higher productivity. Crane maneuvering is smoother and more even thanks to the introduction of limit dampening. The crane hydraulics and crane control have also been refined.

The unique Valmet ProTec crane tip solution is another detail that helps make the Valmet 860.3 a more complete package. ProTec means a completely protected hose passage in the crane tip between the crane and grapple, and a braking technique that effectively dampens grapple swing. Downtime is reduced while crane speed is increased. Valmet ProTec increases productivity, improves ergonomics, and lessens environmental impact.

Intelligent control system

The Valmet 860.3 is fitted with the intelligent and easy-to-use MaxiForwarder control system. This system controls all interaction between the engine, the transmission, and the crane and ensures that the operator always get the most out of the machine. Operating data collection and production reports are included in the system, which even provides information about forwarder status, running time, and total production volume.

MaxiForwarder is PC-based and displayed on a clear color screen.

Big loads

The impressive load capacity can be further improved. The Valmet 860.3 can be fitted with Valmet LoadFlex, the flexible bunk system that provides an extra 4.6 feet (1.4 meters) bunk width. This also provides faster loading and unloading and higher transport speed due to the load's lower center of gravity, while the LoadFlex scales always ensure optimized load capacity.



Valmet 860.3 / Technical data

Weight and dimensions

Weight (approx) 6WD	15.8 tons (14,360 kg)
Weight (approx) 8WD	17.5 tons (15,860 kg)
Permitted load (max)	15.4 tons (14,000 kg)
Load area	48.4 sq.ft. (4.5 m ²)
With grid for 4'10"	
(3-meter) solid mass	51.7 sq.ft. (4.8 m ²)
Standard width 6WD	9' (2,740 mm)
8WD	8' 11" (2,720 mm)

Engine

Sisu Diesel 66 CTA. 6-cylinder turbo diesel with electronic common rail fuel injection.
 Power 190 hp (140 kW DIN) at 2,200 rpm.
 Torque 590 ft – lb (800 Nm) at 1,500 rpm.
 Fuel tank 42.3 gal (160 l).

Transmission

Hydrostatic transmission controlled by MaxiForwarder.
 Disengagable carriage drive. Differential locks (front and rear).
 Max speed: High gear 14.6 mph (23.5 km/h)
 Low gear 5.3 mph (8.5 km/h)
 Pulling power, max 35,969 lbf (160 kN)

Axles and wheels

Front axle 6WD: rigid axle with hub gearing
 Bogie 8WD/6WD: geared bogie, "hi clearance" type with portal gears in the wheel rims
 Wheels:
 6WD Front 600/65x34
 Rear 600/55x26.5
 8WD Front/rear 600/55x26.5

Braking system

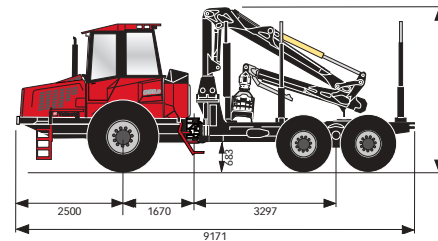
Type	Dual circuit, fully hydraulic multi-disc brakes acting on all wheels
Driving brake	4 multi-disc brakes in oil bath acting on the front and rear axles
Working brake	Same as driving brake
Parking brake	Spring-action brake with electro-hydraulic control. Also acts as an emergency brake

Cab

Spacious with excellent visibility through extremely low-set windows. Comfortable and reflection-free interior. Thermal and noise insulation. Climate control. Safety-approved with integral combined heating and cooling unit. Microfilter air intake. Sideways tilting.

Crane and grapple

Crane	Valmet CRF 10
Lifting torque (gross)	84,672 ft – lb (114.8 kNm)
Slewing torque (gross)	21,168 ft – lb (28.7 kNm)
Grapple	Valmet G28, G36, or G36 HD



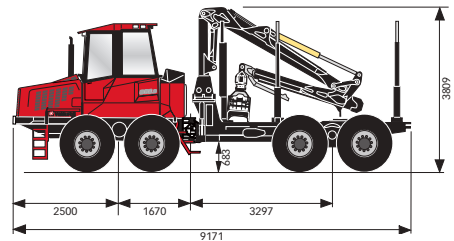
Control and information system

MaxiForwarder is a computerized control system that allows you to control all machine functions with a user-friendly PC. The system permits adjustment of loader functions and affords control over the transmission, diesel engine functions and other machine settings. The system also compiles operating data and includes troubleshooting and alarm systems.

Optional equipment

Standard and extra equipment are adapted to the market and vary from country to country. Your sales representative will have an up-to-date list of what is included.

Technical data/dimensions vary depending on optional equipment selected. Specifications and designs are subject to change without notice. Photos, diagrams, and sketches do not always show the standard version of the machine. Note: Only relates to one of many possible dimension combinations.



Highlights

Cab with the best possible operator comfort and lower profile panels to provide great visibility in all directions

Effective transmission optimized for the engine to produce the right power level without undue strain

Longer reach and increased lifting torque with the CRF 10 boom system

Centralized lubrication points

Sunshades integrated with the panels to provide even better visibility

Powerful working hydraulics and improved MaxiForwarder software for more refined crane control

Increased storage spaces with improved planning to improve cab comfort and safety

Higher productivity and faster crane speed with Valmet ProTec

MaxiForwarder enables you to easily control the machine while keeping track of production

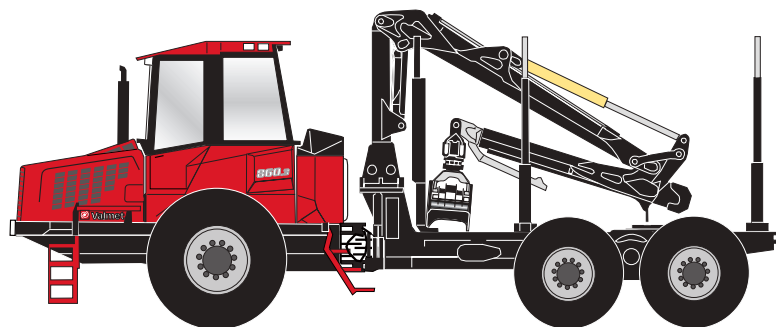
15.4-ton load capacity and 48.4 sq.ft. (4.5 m²) bunk. Alternative bunk spaces for different sorts/markets

Improved control panel layout provides easier access to frequently used buttons

LoadFlex for faster loading and unloading, higher transport speed, and optimized load capacity

Extremely powerful, responsive, and economical engine with impressive torque

17.6 tons pulling power. Full speed uphill!



Valmet's unique articulated design with the steering link in the forward frame and the articulation joint in the rear frame provides superior stability

Limit dampening in the telescopic boom ensures smoother and more comfortable crane control



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