TEREX | FUCHS

PRELIMINARY

Loading Machine | Better efficiency in modern timber handling

ENGINE	173 kW 232 HP
WEIGHT	35.5 t - 38 t 78,264 - 83,775 lbs
REACHES	12.5/14/15/16 m 41‘/46‘/49‘/53‘
GRAB	$0.25\ m^2$ - $2.0\ m^2$ $0.3\ yd^2$ - $2.4\ yd^2$

- Efficient 173 kW (232 HP) turbocharged Diesel engine (TIER III/COM III/EPA III)
- Operating weight 35.5 to 38 t (78,264 - 83,775 lbs)
- Efficient hydraulic system
- Multi-functional display
- Trailer approved: Loading – transporting – unloading
- „Live Heel“ boom option (12.5 m/41‘ loading system)

WORKHORSE

FOR THE TIMBER HANDLING COURSE

LOADING MACHINE

MHL 460

NEW MHL 460 GENERATION

The machine can be fitted with optional equipments

LOGS IN MOTION

With an increased work radius, extremely stressable slewing gear and higher lifting capacities, the TEREX FUCHS MHL 460 brings new momentum to your timber handling. Depending on the operational requirement, a reach ranging from 12.5 m (41‘) to 16 m (53‘) and up to four tons of lifting capacity at maximum reach are available. With the aid of the innovative hydraulic system, all movements can be carried out harmoniously and exactly as required. One special feature is the “Live Heel” loading system in the 12.5 m (41‘) variation: It will enable you to reach logs outside of the center and still maneuver them in a horizontal position. These ingenious kinematics make it possible to pick up and set down long timber precisely on target – also see the special LIVE HEEL brochure!

THE 38 TON LOADIN

LIFT AFTER LIFT. PULL AFTER PULL: LOA

FIT IN ALL DISCIPLINES

Loading, transporting, unloading – the MHL 460 masters every discipline. Thanks to the front steering and oscillating axle, pulling trailers is possible without problems, which speeds up the company’s internal transport. This gives you work equipment that is just as flexible as it is high performing for the complete timber handling workflow.

IG MASTER OF THE NEWEST GENERATION

DING, TRANSPORTING AND UNLOADING IN ONE ROUTE

MACHINE AND HYDRAULIC FEATURES AT A GLANCE

- A reach of up to 16 meters (53‘) and up to four tons of lifting capacity
- „Live-Heel“ loading system 12.5 m (41‘) reach
- Hydraulic system with load sensing control
- Front steering with oscillating axle; ideal for trailer operation
- The new slewing gear and new revolving ball joint ensure maximum longevity and running smoothness during operations

EVERYTHING IN BALANCE

Even logs that are heavy and long won’t disturb the balance of the machine. With its increased support width, the larger stabilizer cylinders and optimized steel design, this MHL 460 is a prime example of solidity.

MORE OUTPUT. MORE RUNNING SMOOTHNESS. MORE RESERVES

RUNNING LONG, RUNNING QUIETLY, RUNNING CLEANLY

A CLEAN ENDURANCE RUNNER

It’s not only due to its high-quality workmanship that the TEREX FUCHS MHL 460 seems to be made for non-stop operations in regular, tough work-days. In order to keep the intervals between refueling as long as possible, the Diesel tank was enlarged to a capacity of 550 liters (145.30 US GAL) – which means that one full tank will enable an operating time of up to 24 hours. The 173 kW (232 HP) Diesel engine has an EMR control and is therefore very economical in its consumption while maintaining a top performance capacity. This is also demonstrated by the emission values: The engine complies fully with the emission standards TIER III / Com III / EPA III.

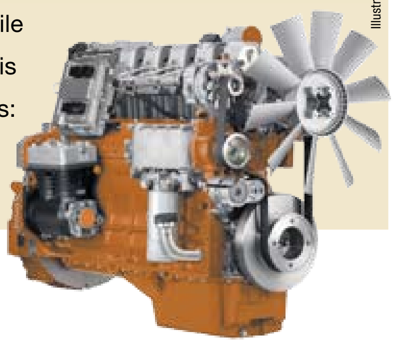


Illustration similar

COOLING SYSTEM AND ENGINE FEATURES AT A GLANCE

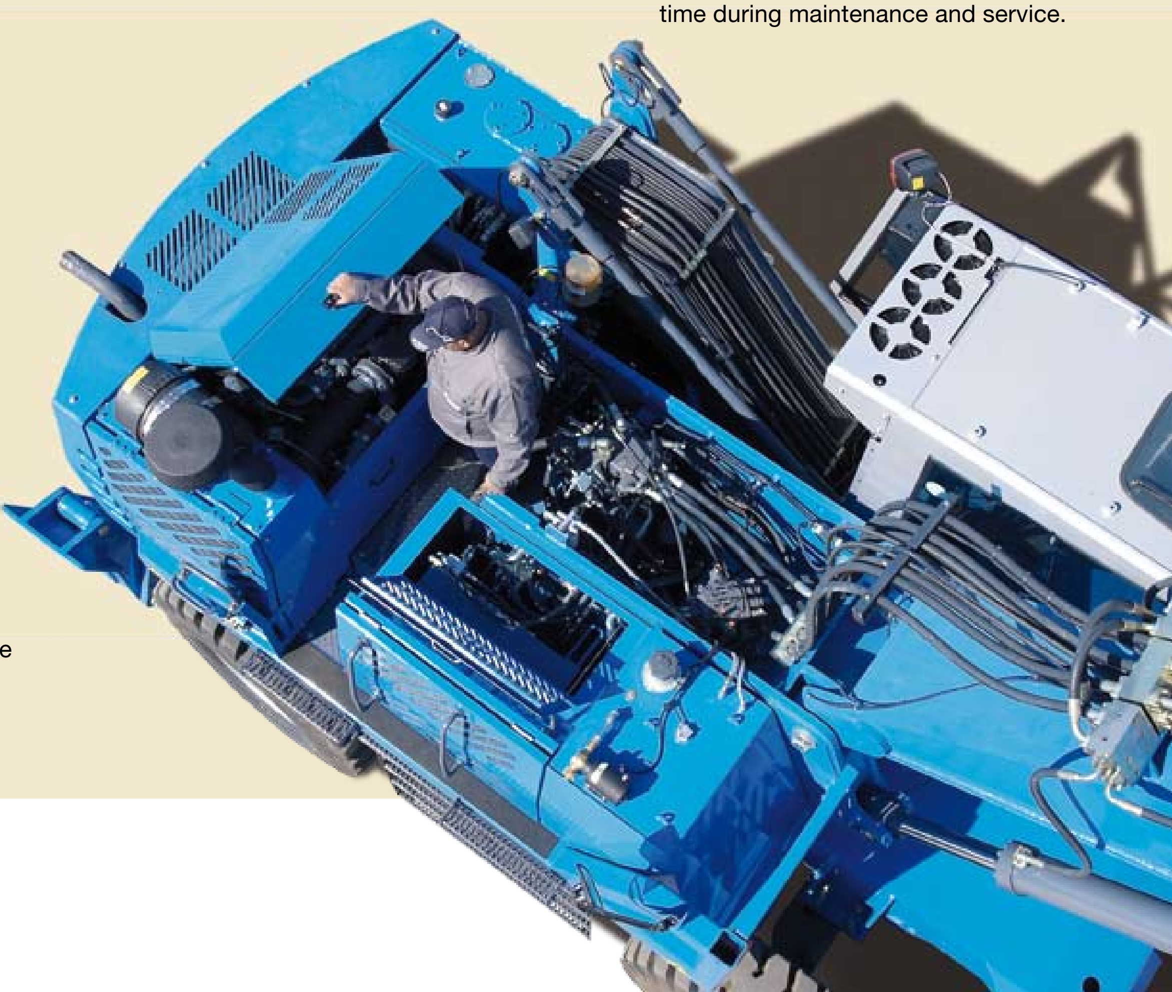
- Consistently high cooling performance with a low noise level, thanks to thermostatic speed control, optimized fan design and separate cooling system
- Minimal loss of operating time due to refueling: The 550 liter (145.30 US GAL) tank lasts for up to 24 operating hours
- High-output 173 kW (232 HP) Diesel engine with EMR control and especially low emission values
- A maintenance ascent facilitates the accessibility of the most important components

ALWAYS WITHIN EASY REACH

In connection with the maintenance ascent, the new arrangement of the tank and aggregates offers an optimal accessibility of all components – this shortens the work time during maintenance and service.

STAYING COOL IN HOT MOMENTS

The hydraulic cooling system and engine cooler with a hydrostatically powered fan have been newly developed. The optimized geometry of the fans ensures the best possible cooling performance with a low rotational speed and little noise emission, and thanks to the separate cooling system, the ideal temperature is maintained in any operational condition.



EVERYTHING IN SIGHT

With its large panoramic windows, the height adjustable cab offers the perfect overview and the clear color display conveys all of the important data about operating conditions with plain text and unambiguous symbols. Other advantages of this workspace include the back-friendly comfort seat, the adjustable steering column and the standard air conditioning system.

EVERYTHING UNDER CONTROL

The steering technology, which embodies a maximum in safety and sensitivity, has been complete revised. The innovations also include the electric drive pedal for finely tuned travel operation, the electrical control of the parking brake and slewing adjustment, and the simple switching of the driving direction by means of a push button in the joystick – of course in connection with a clear indication of the current direction on the display.

LEAR POSITION, SUPERIOR ONTROL TECHNOLOGY

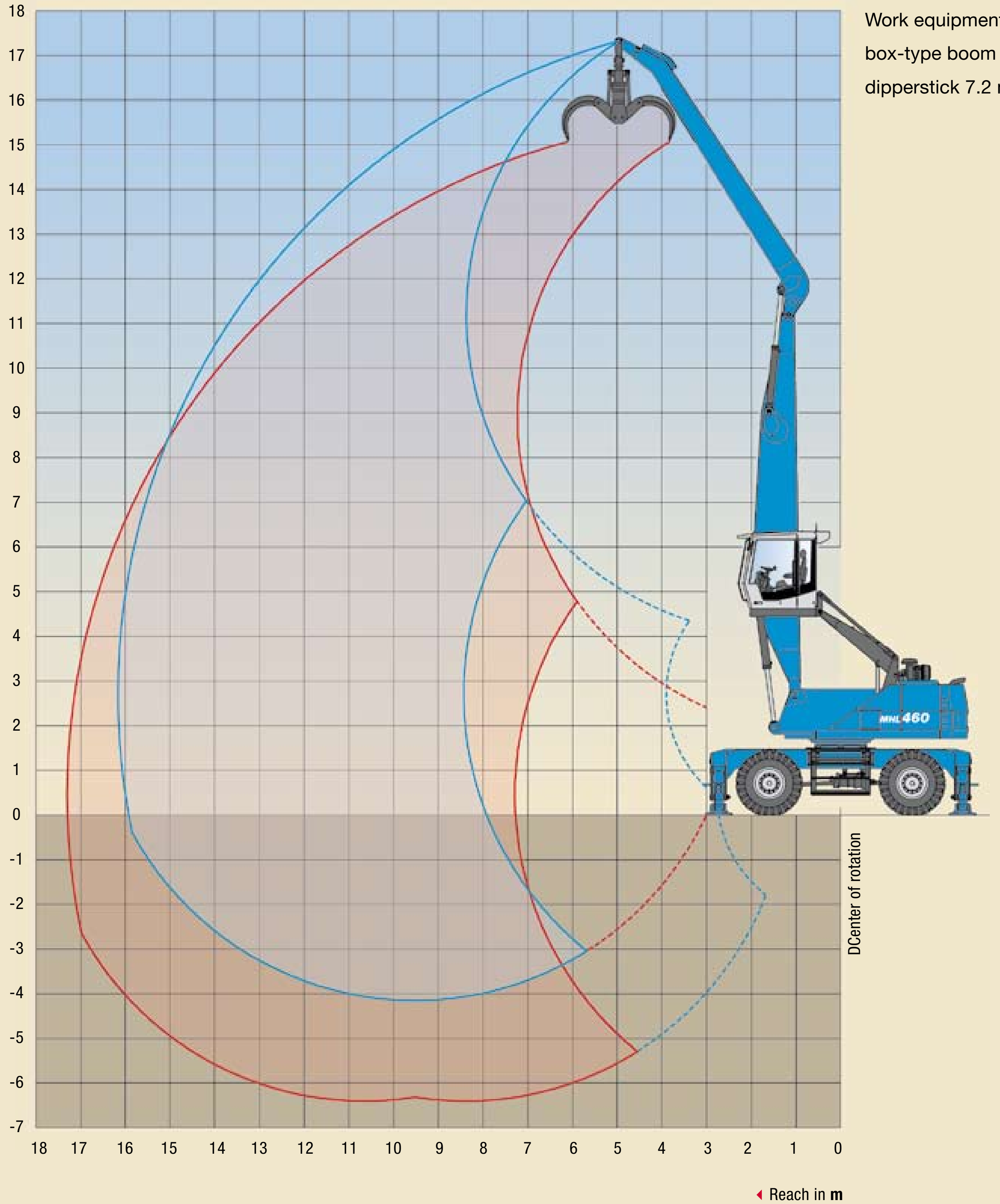
THIS WORKSPACE YOU WILL HAVE EVERYTHING UNDER CONTROL

CONTROL SYSTEM FEATURES AT A GLANCE

- The height adjustable cab with panorama windows affords an optimal overview
- Work ergonomically and safely thanks to the air-cushioned comfort seat that has been specially designed for driving machines, along with the air conditioning and clear color display with plain text
- Finely-tuned driving with new electrical drive pedal, whose high resolution enables sensitive driving maneuvers
- Good accessibility of the central electric system through its positioning under the lifting frame

WORKING DIAGRAM

MHL 460 (SERIES C) REACH 16 m (53‘)



Work equipment:

box-type boom 8.5 m (28‘),

dipperstick 7.2 m (24‘)

LIFTING CAPACITY

MHL 460 (SERIES C) REACH 16 m (53')

HEIGHT m	UNDERCARRIAGE STABILIZERS	REACHES m							
		4.5	6	7.5	9	10.5	12	13.5	15
15	non supported			(5.8*)	(4.5*)				
	4-pt. supported			5.8* (5.8*)	4.5* (4.5*)				
13.5	non supported				(5.8*)	(4.5*)			
	4-pt. supported				5.8* (5.8*)	4.5* (4.5*)			
12	non supported				(6.5*)	(5.0)	(3.9)		
	4-pt. supported				6.5* (6.5*)	5.6* (5.6*)	5.6* (5.6*)		
10.5	non supported				(6.5)	(5.0)	(3.9)	(3.1)	
	4-pt. supported				7.1* (7.1*)	6.5* (6.5*)	5.4* (5.4*)	3.5* (3.5*)	
9	non supported				(6.4)	(4.9)	(3.9)	(3.1)	
	4-pt. supported				7.4* (7.4*)	6.7* (6.7*)	6.1* (6.1*)	4.7* (4.7*)	
7.5	non supported			(8.4)	(6.2)	(4.8)	(3.8)	(3.0)	(2.5)
	4-pt. supported			8.8* (8.8*)	7.7* (7.7*)	6.8* (6.8*)	6.1* (6.1*)	5.2 (5.6*)	3.3* (3.3*)
6	non supported			(8.0)	(5.9)	(4.8)	(3.7)	(3.0)	(2.4*)
	4-pt. supported			9.4* (9.4*)	8.1* (8.1*)	7.1* (7.1*)	6.2 (6.3*)	5.1 (5.6*)	4.2* (4.2*)
4.5	non supported	(14.9*)	(10.6)	(7.5)	(5.6)	(4.4)	(3.5)	(2.9)	(2.4)
	4-pt. supported	14.9* (14.9*)	12.8* (12.8*)	10.2* (10.2*)	8.5* (8.5*)	7.3* (7.3*)	6.1 (6.4*)	5.0 (5.6*)	4.2 (4.8*)
3	non supported	(14.6)	(9.5)	(6.9)	(5.2)	(4.1)	(3.4)	(2.8)	(2.3)
	4-pt. supported	20.6* (20.6*)	14.2* (14.2*)	10.9* (10.9*)	8.9 (8.9*)	7.2 (7.5*)	5.9 (6.5*)	4.9 (5.6*)	4.2 (4.9*)
1.5	non supported	(6.1*)	(8.6)	(6.3)	(4.9)	(3.9)	(3.2)	(2.7)	(2.3)
	4-pt. supported	6.1* (6.1*)	15.0* (15.0*)	11.3* (11.3*)	8.8 (9.1*)	7.0 (7.6*)	5.7 (6.5*)	4.8 (5.6*)	4.1 (4.7*)
0	non supported	(5.1*)	(8.0)	(5.9)	(4.6)	(3.7)	(3.1)	(2.6)	(2.2)
	4-pt. supported	5.1* (5.1*)	11.0* (11.0*)	11.1 (11.3*)	8.5 (9.1*)	6.8 (7.5*)	5.6 (6.3*)	4.7 (5.4*)	4.1 (4.4*)
-1.5	non supported	(5.3*)	(7.7)	(5.7)	(4.4)	(3.6)	(3.0)	(2.5)	(2.2)
	4-pt. supported	5.3* (5.3*)	9.2* (9.2*)	10.8* (10.8*)	8.3 (8.7*)	6.6 (7.2*)	5.5 (6.0*)	4.7 (5.0*)	3.9* (3.9*)
-3	non supported		(7.6)	(5.8*)	(4.3)	(3.5)	(3.0)		
	4-pt. supported		9.0* (9.0*)	9.7* (9.7*)	8.0* (8.0*)	6.6* (6.6*)	5.4* (5.4*)		

The capacity values are stated in metric tons (t). The pump pressure is 350 bar (5076 psi). The values, in accordance with ISO 10567, amount to 75 % of the static tipping load or 87% of the hydraulic lifting force (marked *). They apply to slewing operations through 360° on a firm and level surface. Values in brackets apply to the longitudinal direction of the undercarriage. "Non-supported" values apply when the load is hoisted above the front or rear axle. The weight of the attached hoisting equipment (grab, load hook etc.) must be deducted from the capacity values. In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and an overload warning device are required for crane operations.

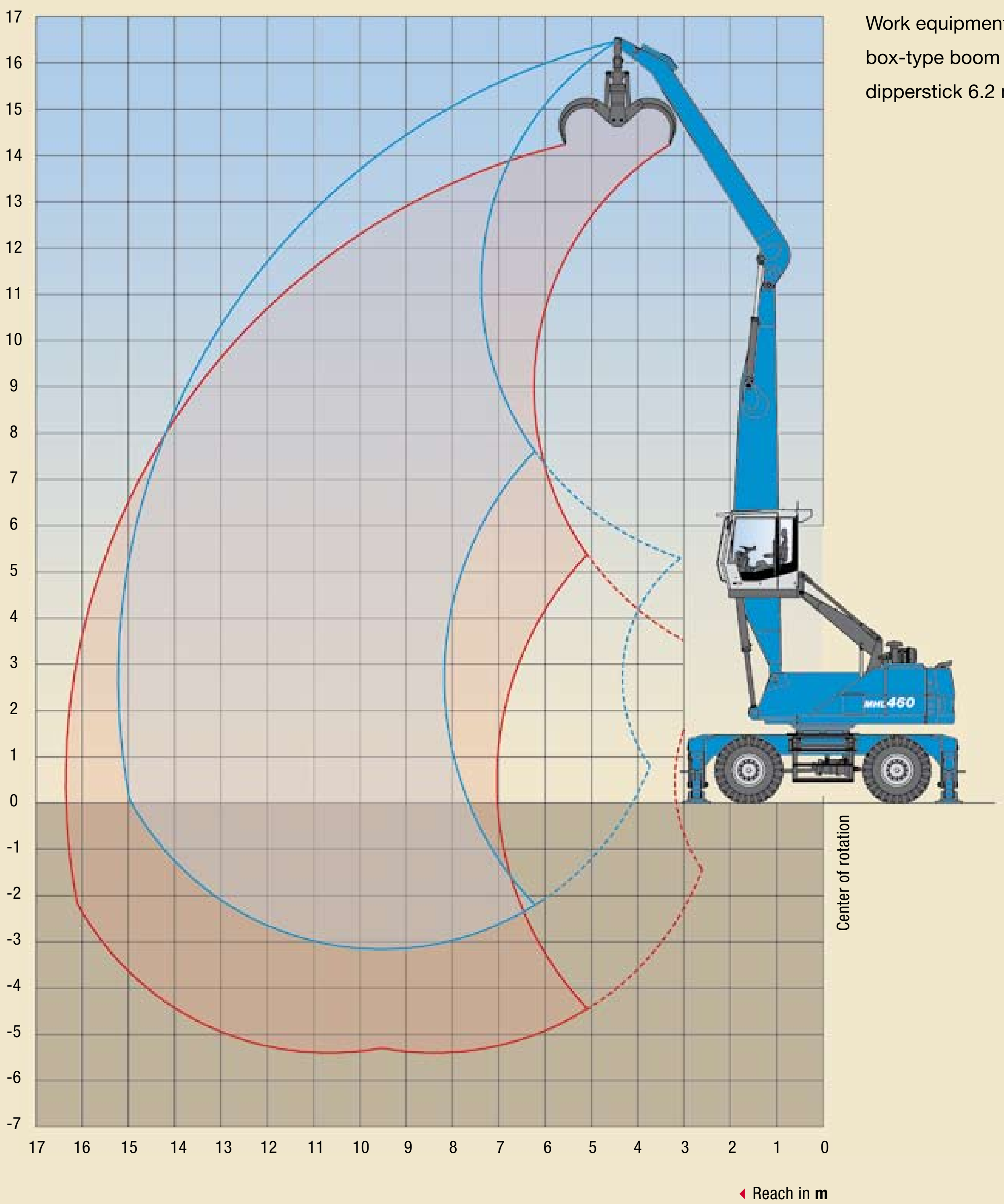
RECOMMENDED ATTACHMENTS

Loading system 16 m (53')

LUMBER GRABS	Capacity up to 0,25 m² (0,3 yd²) - 2,0 m² (2,4 yd²)
GRAB SIZE	The grab size and the length of the logs depend on the type of timber and its condition and have to be in accordance with the machine's permissible lifting capacities in every case

WORKING DIAGRAM

MHL 460 (SERIES C) REACH 15 m (49‘)



Work equipment:

box-type boom 8.5 m (28‘),

dipperstick 6.2 m (20.3‘)

LIFTING CAPACITY

MHL 460 (SERIES C) REACH 15 m (49‘)

HEIGHT m	UNDERCARRIAGE STABILIZERS	REACHES m 4.5	6	7.5	9	10.5	12	13.5	15
15	non supported			(5.2*)					
	4-pt. supported			5.2* (5.2*)					
13.5	non supported			(6.9*)	(5.6*)				
	4-pt. supported			6.9* (6.9*)	5.6* (5.6*)				
12	non supported			(7.9*)	(6.2)	(4.7)			
	4-pt. supported			7.9* (7.9*)	6.9* (6.9*)	5.5* (5.5*)			
10.5	non supported			(8.4)	(6.2)	(4.8)	(3.7)		
	4-pt. supported			8.6* (8.6*)	7.7* (7.7*)	6.8* (6.8*)	4.9* (4.9*)		
9	non supported			(8.3)	(6.1)	(4.7)	(3.7)	(3.0)	
	4-pt. supported			9.0* (9.0*)	7.9* (7.9*)	7.0* (7.0*)	6.3* (6.3*)	3.6* (3.6*)	
7.5	non supported			(8.0)	(6.0)	(4.6)	(3.7)	(3.0)	
	4-pt. supported			9.5* (9.5*)	8.2* (8.2*)	7.2* (7.2*)	6.2 (6.4*)	5.1 (5.1*)	
6	non supported	(13.1*)	(10.9)	(7.6)	(5.7)	(4.5)	(3.6)	(2.9)	
	4-pt. supported	13.1* (13.1*)	12.5* (12.5*)	10.1* (10.1*)	8.5* (8.5*)	7.4* (7.4*)	6.1 (6.5*)	5.1 (5.8*)	
4.5	non supported	(15.6)	(10.0)	(7.1)	(5.4)	(4.3)	(3.4)	(2.8)	(2.4)
	4-pt. supported	19.8* (19.8*)	13.9* (13.9*)	10.8* (10.8*)	8.9* (8.9*)	7.3 (7.6*)	6.0 (6.6*)	5.0 (5.7*)	3.2* (3.2*)
3	non supported	(6.3*)	(9.0)	(6.6)	(5.1)	(4.1)	(3.3)	(2.8)	(2.3)
	4-pt. supported	6.3* (6.3*)	15.0* (15.0*)	11.4* (11.4*)	9.0 (9.2*)	7.1 (7.7*)	5.8 (6.6*)	4.9 (5.7*)	3.7* (3.7*)
1.5	non supported	(4.1*)	(8.3)	(6.2)	(4.8)	(3.9)	(3.2)	(2.7)	(2.3)
	4-pt. supported	4.1* (4.1*)	11.8* (11.8*)	11.4* (11.6*)	8.7 (9.3*)	6.9 (7.7*)	5.7 (6.5*)	4.8 (5.5*)	3.7* (3.7*)
0	non supported	(4.4*)	(8.0)	(5.9)	(4.6)	(3.8)	(3.1)	(2.6)	
	4-pt. supported	4.4* (4.4*)	9.0* (9.0*)	11.1 (11.3*)	8.5 (9.1*)	6.8 (7.5*)	5.6 (6.3*)	4.8 (5.2*)	
-1.5	non supported		(7.9)	(5.8)	(4.5)	(3.7)	(3.1)	(2.6)	
	4-pt. supported		8.7* (8.7*)	10.4* (10.4*)	8.3 (8.5*)	6.7 (7.0*)	5.6 (5.8*)	4.6* (4.6*)	
-3	non supported				(4.5)				
	4-pt. supported				7.4* (7.4*)				

The capacity values are stated in metric tons (t). The pump pressure is 350 bar (5076 psi). The values, in accordance with ISO 10567, amount to 75 % of the static tipping load or 87% of the hydraulic lifting force (marked *). They apply to slewing operations through 360° on a firm and level surface. Values in brackets apply to the longitudinal direction of the undercarriage. “Non-supported” values apply when the load is hoisted above the front or rear axle. The weight of the attached hoisting equipment (grab, load hook etc.) must be deducted from the capacity values. In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and an overload warning device are required for crane operations.

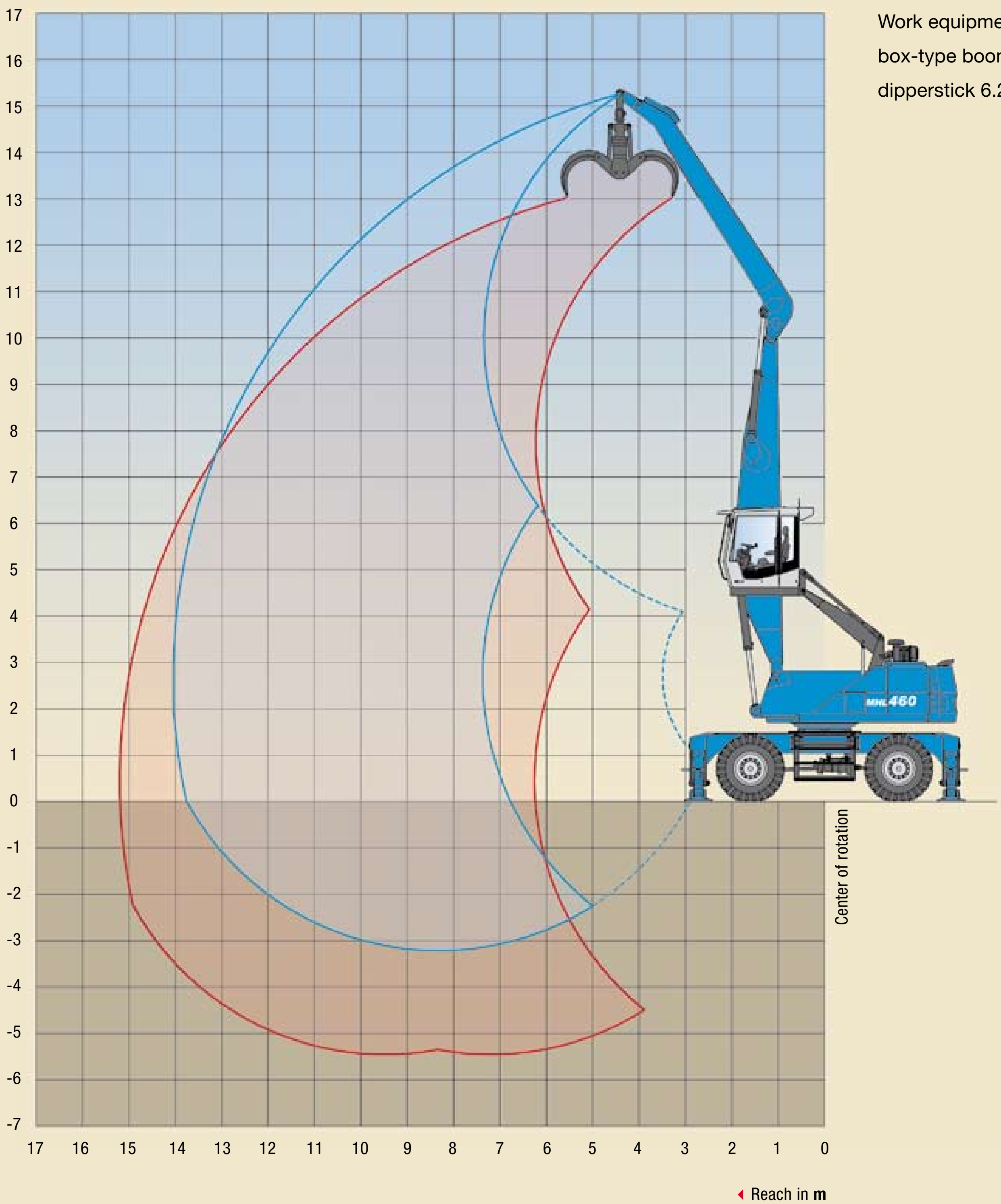
RECOMMENDED ATTACHMENTS

Loading system 15 m (49‘)

LUMBER GRABS	Capacity up to 0,25 m² (0,3 yd²) - 2,0 m² (2,4 yd²)
GRAB SIZE	The grab size and the length of the logs depend on the type of timber and its condition and have to be in accordance with the machine’s permissible lifting capacities in every case

WORKING DIAGRAM

MHL 460 (SERIES C) REACH 14 m (46‘)



Work equipment:

box-type boom 7.3 m (24‘),

dipperstick 6.2 m (20.3‘)

LIFTING CAPACITY

MHL 460 (SERIES C) REACH 14 m (46‘)

HEIGHT	UNDERCARRIAGE	REACHES m						
m	STABILIZERS	4.5	6	7.5	9	10.5	12	13.5
13.5	non supported			(5.5*)				
	4-pt. supported			5.5* (5.5*)				
12	non supported			(7.1*)	(5.6*)			
	4-pt. supported			7.1* (7.1*)	5.6* (5.6*)			
10.5	non supported			(8.0*)	(6.3)	(4.8*)		
	4-pt. supported			8.0* (8.0*)	7.0* (7.0*)	5.2* (5.2*)		
9	non supported			(8.4)	(6.2)	(4.8)	(3.8)	
	4-pt. supported			8.7* (8.7*)	8.0* (8.0*)	6.6* (6.6*)	4.1* (4.1*)	
7.5	non supported			(8.3)	(6.1)	(4.8)	(3.8)	
	4-pt. supported			9.3* (9.3*)	8.3* (8.3*)	7.5* (7.5*)	5.7* (5.7*)	
6	non supported		(11.2*)	(8.0)	(6.0)	(4.7)	(3.7)	(3.0)
	4-pt. supported		11.2* (11.2*)	9.9* (9.9*)	8.7* (8.7*)	7.7* (7.7*)	6.3 (6.8*)	3.3* (3.3*)
4.5	non supported	(15.3*)	(10.8)	(7.6)	(5.7)	(4.5)	(3.7)	(3.0)
	4-pt. supported	15.3* (15.3*)	13.3* (13.3*)	10.8* (10.8*)	9.1* (9.1*)	7.6 (7.9*)	6.2 (7.0*)	4.3* (4.3*)
3	non supported	(15.5)	(10.0)	(7.2)	(5.5)	(4.4)	(3.6)	(3.0)
	4-pt. supported	21.4* (21.4*)	14.9* (14.9*)	11.6* (11.6*)	9.4 (9.6*)	7.4 (8.1*)	6.1 (7.0*)	4.9* (4.9*)
1.5	non supported	(10.2*)	(9.3)	(6.8)	(5.3)	(4.2)	(3.5)	(2.9)
	4-pt. supported	10.2* (10.2*)	16.0* (16.0*)	12.0 (12.1*)	9.1 (9.8*)	7.3 (8.2*)	6.0 (6.9*)	5.0* (5.0*)
0	non supported	(7.6*)	(8.8)	(6.5)	(5.1)	(4.1)	(3.4)	(2.9)
	4-pt. supported	7.6* (7.6*)	15.9* (15.9*)	11.7 (12.1*)	8.9 (9.7*)	7.1 (8.0*)	5.9 (6.6*)	4.3* (4.3*)
-1.5	non supported	(7.7)	(8.6)	(6.4)	(5.0)	(4.0)	(3.4)	
	4-pt. supported	7.7* (7.7*)	14.8* (14.8*)	11.5* (11.5*)	8.8 (9.2*)	7.1 (7.4*)	5.9* (5.9*)	
-3	non supported			(6.3)	(4.9)			
	4-pt. supported			10.0* (10.0*)	8.0* (8.0*)			

The capacity values are stated in metric tons (t). The pump pressure is 350 bar (5076 psi). The values, in accordance with ISO 10567, amount to 75 % of the static tipping load or 87% of the hydraulic lifting force (marked *). They apply to slewing operations through 360° on a firm and level surface. Values in brackets apply to the longitudinal direction of the undercarriage. “Non-supported” values apply when the load is hoisted above the front or rear axle. The weight of the attached hoisting equipment (grab, load hook etc.) must be deducted from the capacity values. In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and an overload warning device are required for crane operations.

RECOMMENDED ATTACHMENTS

Loading system 14 m (46‘)

LUMBER GRABS	Capacity up to 0,25 m² (0,3 yd²) - 2,0 m² (2,4 yd²)
GRAB SIZE	The grab size and the length of the logs depend on the type of timber and its condition and have to be in accordance with the machine’s permissible lifting capacities in every case

TECHNICAL DATA

MHL 460 (SERIES C)

OPERATING WEIGHT	
	35.5 t - 38 t (78,264 - 83,775)

DIESEL ENGINE	
MANUFACTURER AND MODEL	Deutz TCD 2013 L06 2V
DESIGN	6 Cylinder Inline
ENGINE CONTROL	EMR III
TYPE	4-stroke diesel engine, direct common-rail fuel-injection, turbocharger with intercooling
ENGINE OUTPUT	173 kW (232 HP)
NOMINAL SPEED	2000 min^{-1}
DISPLACEMENT	7.2 l (1.9 US GAL)
COOLING SYSTEM	Water charge air cooler with temperature controlled fan-speed, hydraulically driven
EMISSION STANDARDS	COM III and EPA Tier III
AIR FILTER DESIGN	Two-stage filter with safety valve
FUEL CAPACITY (USABLE)	550 l (145.30 US GAL) Fuel prefilter with water separator

ELECTRICAL SYSTEM	
OPERATING VOLTAGE	24 V
BATTERY, OPERATING	2 x 12 V / 100 Ah / 760 A (in accordance with EN)
LIGHTING SET	2 x XENON floodlight integrated at machine front, 2 x XENON floodlight on dipper stick, turn-signal and rear side-marker lamps
GENERATOR	28 V / 80 A

TRAVEL DRIVE	
DRIVE ENGINE AND TRANSMISSION	Hydrostatic drive through infinitely variable axial piston motor and directly mounted travel brake valves two-speed power shift gear with safe-guard, 4-wheel drive, electric drive pedal with 22° rotation angle (precisely adjustable) and a switch in the driving direction
TRAVEL SPEED 1ST GEAR	0 - 6 km/h (0 - 3.73 mph)
MAX TRACTION FORCE 1ST GEAR	196 kN
TRAVEL SPEED 2ST GEAR	0 - 20 km/h (0 - 12.4 mph)
MAX TRACTION FORCE 2ND GEAR	48 kN
TURNING RADIUS	9.5 m (31.2')

SWING SYSTEM	
RING GEAR	Internally toothed ball ring gear (double row)
DRIVE	Three-stage planetary gear with integrated multi-disc brake
UPPER CARRIAGE SWING SPEED	0 - 8 min^{-1} with infinitely variable electrical
PIVOT BRAKE	Electrically actuated

UNDERCARRIAGE	
FRONT AXLE	Planetary drive axle with integrated wet, maintenance-free, oscillating multi-disc brakes, with switchable oscillating lock, max. steering angle 30°
REAR AXLE	Planetary drive axle with integrated wet, maintenance-free, multi-disc brakes, rigidly mounted
STABILIZERS	4-point-stabilizers
TIRES	Single air-filled tires XKA 20.5-R25 Michelin

BRAKE SYSTEM	
SERVICE BRAKE	Hydraulic 2-circuit brake system acting on all wheels, snap-in pedal
PARKING BRAKE	Electric, integrated into power-shift transmission

HYDRAULIC SYSTEM	
MAIN HYDRAULIC SYSTEM	LINDE mobile hydraulic system with load limit control and fuel conserving power demand control Separate oil cooler with temperature controlled fan speed, hydraulically pivotable. Grab valve with individual adjustment of operating pressure and oil level at grab
AUXILIARY HYDRAULIC SYSTEM	Cogwheel pumps for - Control / turning of the lifting cab and grab - Service brake - Fan drive for water intercooler - Fan drive for oil cooler and steering fluid supply
HYDRAULIC OIL FILTER	Combination fluid return filter integrated into oil tank, filter elements with maintenance interval of 3,000 operating hrs.; pressure oil filtering for the steering fluid supply
MAX PUMP CAPACITIES	640 l/min (169 US GAL/min)
MAX OPERATING PRESSURE	350 bar (5076 psi)
HYDRAULIC OIL VOLUME/TANK	690 l (182 US GAL)

OPERATOR CAB	
CAB	Hydraulically height-adjustable up to an eye level of 5.80 m, ergonomically designed operator's seat with functional design and good all-around view, sound-deadened, heat-insu-lated windows, hinged front and roof windows with pull-down sunblind, sliding window in cab door, steering column height and tilt adjustable
OPERATOR'S SEAT	Air-cushioned comfort-seat with integrated headrest, low frequency suspension, safety-belt and lumbar support. Seat position, seat inclination and seat cushion multi-adjustable in line with position of armrests and pilot control units, allowing fatigue-free operation
HEATING	Infinitely variable hot water heating with 3-speed fan, 4 adjustable defroster nozzles
MONITORING	Ergonomic and glare-free layout of switches and displays. Multi-function monitor for the display of the automatically monitored ope-rating conditions. Warning and/or shutdown if operating conditions such as temperature, pressure, fuel supply, etc. exceed permissible levels
AIR CONDITIONING	With reheat function
NOISE EMISSION LEVELS IN ACCORDANCE WITH GUIDELINE 2000/14 EG	Guaranteed sound power level: $L_{W(A)}$ = 105 dB(A) Sound pressure level: $L_{P(A)}$ = 73 dB(A)

SAFETY INSTALLATIONS	
	For crane operations in accordance with EN 474-5
	Cab protection by close proximity range limiter

OFFICIAL HOMOLOGATION	
	Certification according to CE-regulations

EQUIPMENT

MHL 460 (SERIES C)

ENGINE	SERIES	OPTION
Turboscharger	●	
Intercooling	●	
Direct electronic fuel injection/Common Rail	●	
Automatic idle	●	
Engine pre-heating		●
Interface for engine diagnosis	●	
Temperature-controlled fan drive	●	
Fan reverse mode		●
Zyklon pre-separator for air-filter		●

UNDERCARRIAGE	SERIES	OPTION
Power-shift transmission with safeguard	●	
Axles with self-locking differential		●
All-wheel drive	●	
Front axle: Steering and oscillating axle	●	
Oscillating axle lock	●	
Rear axle: rigid	●	
Two-circuit brake system with multi-disc brakes	●	
Toolbox, small		●
Toolbox, large		●
Access	●	
Individual operation of 4-point-stabilizers		●
Manual central lubrication system		●
Automatic central lubrication system		●

UPPER CARRIAGE	SERIES	OPTION
Electrical refuelling installation		●
Lighting protection		●
Maintenance hood, actuated by gas strut	●	
Cleaning access openings at water intercooler and oil cooler can be locked	●	
Oil cooler with temperature-controlled hydraulic fan drive	●	
Automatic central lubrication system	●	
Back-up alarm		●
Special paint		●
Water intercooler with temperature-controlled hydraulic fan drive	●	
Quick-drain valve on fuel tank	●	
Quick drain valve on hydraulic oil tank	●	
Quick drain valve on water cooler	●	
Quick-drain valve on engine-oil pan	●	
Reversible fan for hydraulic oil cooler		●
Rotating beacon		●
1 x XENON floodlight on cab roof (center left)		●
1 x XENON floodlight on cab roof (front left)		●
Servicing light		●
Hose set for grab supply (for ball valves)		●
Grab supply (for quick-connect couplings)		●

CAB	SERIES	OPTION
Ash-tray	●	
Lift-up skylight in cabin roof	●	
Air-cushioned comfort-seat with integrated headrest, low frequency suspension, seat belt and lumbar support	●	
Air-conditioned seat w. heating		●
Front and roof protective grating		●
Hinged front windshield	●	
Front-windows break-resistant (LEXAN)		●
Hydraulic, height-adjustable	●	
Steering column, height and tilt adjustable	●	
Air conditioning	●	
Multi-functional monitor	●	
Multi-functional joysticks	●	
Hydraulic steering (steering wheel)	●	
Bulletproof glass, front and top (sky-light not liftable, fixed front windshield)		●
Fire extinguisher, dry powder		●
Preparation for radio		●
Sliding window in cab door	●	
Safety glass	●	
Engine independent heating		●
Cassette radio		●
Radio and CD Player		●
Windshield washer system	●	
Additional tray at instrument box		●

EQUIPMENT	SERIES	OPTION
2 x XENON headlamps integrated at machine front	●	
2 x XENON working floodlights on dipperstick	●	
3 x XENON working floodlights (2 on rear of machine, 1 on right machine side)		●
1 x XENON floodlight on cab roof (front left)		●
1 x XENON floodlight on cab roof (rear left)		●
Grab connection through ball valves on dipper stick	●	
Hydraulic oil preheating		●
Close proximity range limiter for dipperstick	●	
Monitoring of coolant and hydraulic fluid temperature	●	
Coolant and hydraulic oil level monitoring system	●	
Hose rupture protection for stick cylinder		●
Hose rupture protection for lift cylinder		●
Lubrication of the grab suspension by central lubrication system	●	
Grab connected to central lubrication system	●	
Overload warning/ shut-off installation		●
Quick-connect coupling on dipper-stick		●
Special tires		●

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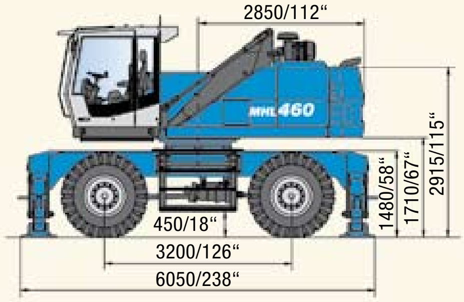
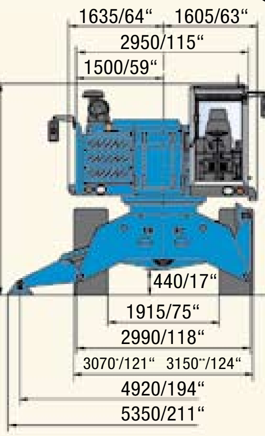
DIMENSIONS

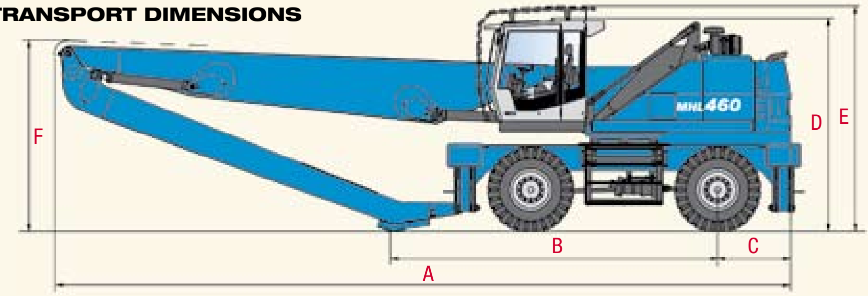




Dimensions in mm/ft.

* 3070/121" for Michelin tires
** 3150/124" for Nokian tires

TRANSPORT DIMENSIONS



DIMEMSIONS	REACH 14 m/46'	REACH 15 m/49'	REACH 16 m/53'
A	11.415 mm/449"	12.610 mm/497"	12.610 mm/497"
B	5.460 mm/215"	6.690 mm/263"	5.550 mm/219"
C	1.250 mm/49"	1.250 mm/49"	1.250 mm/49"
D	3.640 mm/143"	3.640 mm/143"	3.640 mm/143"
E	3.860 mm*/152"*	3.860 mm*/152"*	3.860 mm*/152"*
F	3.220 mm/127"	3.270 mm/129"	3.270 mm/129"

* with protective grating for cab roof

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