







# **TECHNICAL SPECIFICATIONS**

MHL420	46,076 - 48,281 lbs		
Diesel engine			
	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3**	
Manufacturer and model	Deutz TCD 3.6 L04	Deutz TCD 3.6 L04	
Design	4-cylinder in-line engine	4-cylinder in-line engine	
Operation	4-stroke diesel, common rail direct injection, turbocharger with charge air cooling, regulated exhaust gas recirculation, diesel particle filter with continuous regeneration and SCR catalytic converter	4-stroke diesel, common rail direct injection, turbocharger with charge air cooling	
Engine rating	127 hp	127 hp	
Rated speed	1800 rpm	1800 rpm	
Displacement	220 cui	220 cui	
Cooling system	Water and charge air cooling with demand driven, temperature-dependent fan drive and reversible fan	Water and charge air cooling with demand driven, temperature-dependent fan drive and reversible fan	
Emission standard	EU Stage V / US Tier 4 / China 4	EU Stage IIIA / US Tier 3*	
Fuel tank (Diesel)	73 gal	73 gal	
Urea Tank (AdBlue)	5,3 gal	-	
Electrical system			
Alternator	28 V / 100 A	28 V / 100 A	
Operating voltage	24 V		
Battery	2 × 12 V / 105 Ah / 750 A (according to EN)		
Lighting system	2 × LED floodlights at the front of the machine, rear parking lights and indicator lights, 2 × LED working lights on cab		
Travel drive			
Hydrostatic travel drive via infinitely	variable axial piston motor with directly mounted trav	el brake valve, two-speed manual gearshift, 4-wheel drive	
Traveling speed 1st gear	max. 3.1 mph		
Traveling speed 2nd gear	max. 11.8 mph		
Turning radius (all-wheel steering)	14'9"		
Slewing drive			
Slewing ring	Internally geared, double-row ball turning ring, greasing via automatic lubrication system		
Drive	2-stage planetary gear with integrated multi-disc brake		
Uppercarriage rotation speed	0–8 rpm		
Swivel lock	Electrically activated		

# **TECHNICAL SPECIFICATIONS**

Front axle	Planetary drive axle with integrated, low-maintenance dru	um brake, rigidly mounted			
Rear axle	Oscillating planetary drive axle with integrated, low-maintenance drum brake and selectable oscillating lock				
Outrigger	4-point stabilizers, individually operated 2-point stabilizers and support blade, individually operated				
Tires	Forestry tires 600/50 - 22.5				
Brakes					
Service brake	Hydraulic braking system acting on all four wheel pairs				
Parking brake	Electrically operated spring-loaded drum brake at transmission, acting on both front and rear axle				
Hydraulic system					
Axial piston variable displacement pump	With load sensing, coupled with a load-independent flow distribution, allows simultaneous independent control of all work functions.				
Max. Flow rate	81 gpm				
Max. Working pressure	4641 / 5221 psi				
Hydraulic oil tank	72 gal				
Filtration	Flow-optimized return filter, integrated in the oil tank. Filter fineness defined at a beta value $\beta(10) = 200$ guarantees 99.5% separation of dirt particles with 10 $\mu$ m. Very good separation values are already achieved with particle sizes of 3 $\mu$ m. Generously dimensioned for long operating times.				
Cooling system	Separated high-performance cooler with demand driven, temperature-dependent fan drive and reversible fa				
Cab					
Cab	Infinitely variable hydraulic height-adjustable cabin with sliding door. Reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front window with roller blind, glass panel in the cabin roof with sliding blind. Heating and air conditioning, separate heat exchangers, fresh and recirculated air filters. Multifunction touch display, bottle holder, paper clip and multiple storage and mounting options. Digital radio (DAB+, USB, Bluetooth and hands-free), USB charging station 5V.				
	Infinitely variable hydraulic height-adjustment with eye level up to 5.3 m above ground				
Air-conditioning system	Automatic air-conditioning. Hot water heating with variab	ole temperature control and 8-speed fan, 8 adjustable air nozzles, 3 defroster nozzles			
Operator's seat	Air-cushioned comfort seat with swinging armrests / joysticks, safety belt, lumbar support and headrest. Enables fatigue-free work due to univers adjustment options for the seat position, seat inclination and the arrangement of the seat cushion in relation to the armrests and joysticks				
Monitoring	Ergonomically arranged, glare-free multifunction display, multifunction display, automatic monitoring and storage of deviating operating state (including all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering), visual and acoustic warning systems. Diagnostic option for the individual sensors via the multifunction display. Rear view and side view came on the right with separate monitor.				
	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*			
Sound level	Sound power level (outdoor)	Sound power level (outdoor)			
	<sub>LWA</sub> 97.7 dB(A) (measured) according to directive 2000/14/EC	<sub>LWA</sub> 99.3 dB(A) (measured) according to directive 2000/14/EC			
	LWA 99 dB(A) (guaranteed) according to directive 2000/14/EC	LWA 100 dB(A) (guaranteed) according to directive 2000/14/EC			
		Sound pressure level (inside the cabin) according to ISO 6396 standard			
	Sound pressure level (inside the cabin) according to ISO 6396 standard	LpA 69 dB(A)			
	<sub>LpA</sub> 72 dB(A)				
Vibrations Weighted r.m.s. value of acceleration of upp					
	Weighted r.m.s. value of acceleration for seat area and fe	et is delow u.b m/s² (20 in/s²)			

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# **EQUIPMENT**

Diesel engine	Standard	Option
Direct electronic fuel injection / common rail	•	
ECO and Power Mode	•	
Water and charge air cooler	•	
DEF injection, passive regeneration	•	
Advanced automatic idling with engine shutdown function	•	
Engine diagnostic interface	•	
Temperature-controlled fan drive	•	
Engine preheating		•
Undercarriage		
All-wheel drive	•	
All-wheel steering	•	
Low maintenance drum brakes	•	
Rear axle oscillating lock	•	
2-speed powershift transmission		•
2-speed manual transmission	•	
4-point stabilizers	•	
Dozer blade in addition to the 4-point stabilizers		•
2-point stabilizers and support blade		•
Stabilizer cylinders with integrated two-way check valves	•	
Piston rod protection on stabilizer cylinders	•	
Protection guard for drivetrain		•
Tool box	•	
Special paint (customer paint work)		•
Forestry tires 600/50 - 22.5	•	
Uppercarriage		
Separated high-performance cooling system for engine, hydraulics and air-conditioning system	•	
Adjustable reversing fan	•	
Automatic central lubrication system	•	
Rear view camera	•	
2 x side cameras on the right	•	
Service platform	•	
2 rotating beacons on the counterweight		•
Electric refuelling pump		•
Light protection		•
Cab		
Vertically adjustable cabin	•	
Tiltable cab up to 30°	•	•
	•	•
Single-pane safety glass (ESG)  Polycarbonate safety screens (front & roof)	•	
Sliding window in cab door	•	•

# **EQUIPMENT**

Cab	Standard	Option
Cabin with penetration resistant glass front and top (classification P5A)		•
Cabin with bullet-proof glass (classification P8B)		•
Windshield washer system(front windshield)	•	
Washing device for roof window		•
Enlarged roof window	•	
Air-cushioned operator seat with headrest, seatbelt and lumbar support	•	
Seat heating Seat heating		•
Joystick steering		•
Steering column, height and tilt adjustable	•	
Automatic air conditioning	•	
Auxiliary heating		•
Multifunction display	•	
Bottle holder with cooler	•	
Document net	•	
Protective front and roof guard		•
Voltage converter 12 V		•
Digital radio (DAB+, USB, Bluetooth and hands-free)	•	
12V socket / cigarette lighter		•
Fire extinguisher, dry powder		•
Travel alarm w/ rotating beacons		•
Other equipment		
Close proximity range limiter for dipperstick	•	
Coolant and hydraulic oil level monitoring system	•	
Filter system for attachments		•
Pressure switch 3626/ 4641 psi for attachments	•	
Rupture valves for lifting cylinders		•
Active cyclone prefilter		•
Preheating of hydraulic oil		•
Lubrication of the grab suspension by central lubrication system		•
Basic LED light packages		•
Power LED light packages		•
Basic LED working lights cabin roof front	•	
Basic LED head lights at the front of the machine	•	
Boom cylinder damping system (piston accumulator)		•
Lift cylinder protection		•
Paint color according to customer's request		•
Road permission		•
Fuchs Connect telematics system, including 5-year license	•	

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# **CAB**

- Fuchs comfort cab
- Tiltable cab up to 30°\*
- Large panoramic roof for optimal overhead visibility
- Polycarbonate safety screens \*
- Wiper arms and motors out of the field of view
- Automatic climate control

# ATTACHMENTS & LOADING EQUIPMENT

- Telescopic stick with a maximum reach up to 49'3"
- Robust loading equipment designed for heavy-duty applications in the timber industry and tree care applications
- Hydraulic preparation for various forestry attachments

# **FUCHS SERVICE PLATFORM**

- Unique on the market
- Easily accessible, spacious service platform
- Convenient access to engine compartment, main control block, central lubrication system, air filter, tanks, and much more.
- Maintenance work can be completed quickly, safely and comfortably

# **DRIVE**

# Diesel engine

- Low emissions thanks to state-of-the-art EU Stage 5 exhaust gas cleaning system
- ROW solutions
- Best in class fuel consumption
- Exhaust system incl. DPFs are optimally protected against mechanical damage

# **UNDERCARRIAGE**

- Specially developed for heavy-duty forestry and tree care applications
- Individually controllable extended outrigger, enlarged support plates
- Powerful travel drive
- Forestry tires

## Various undercarriage variants:

- 4-point stabilizers
- 2-point stabilizers & parallel guided support plate\*



- High-performance cooling systems, with physically separated coolers for water, charge air, hydraulic oil and air conditioning
- Thermostatically controlled cooler
- Highly efficient mobile hydraulics
- Rear view and side camera
- 2 x side cameras on the right

\* optionally available





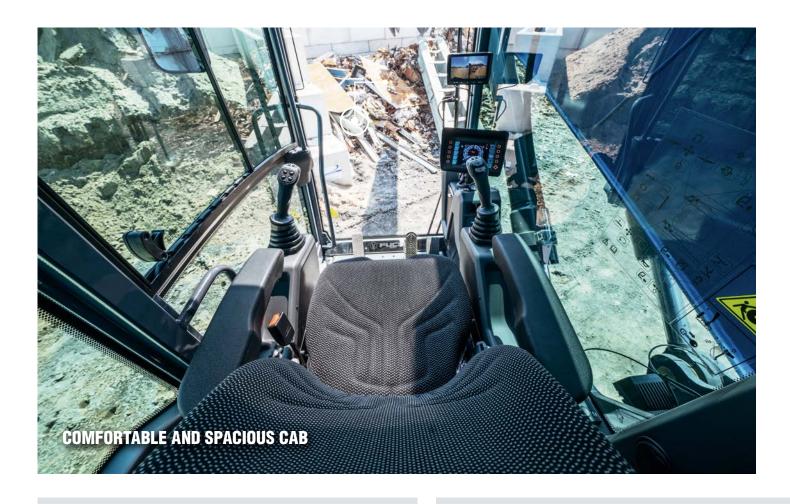




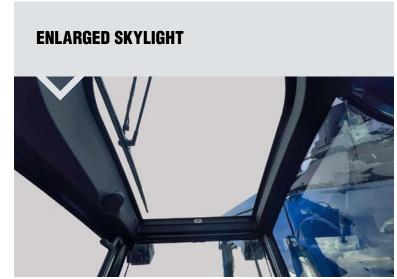




# GREAT FEATURES COME STANDARD WITH YOUR FUCHS















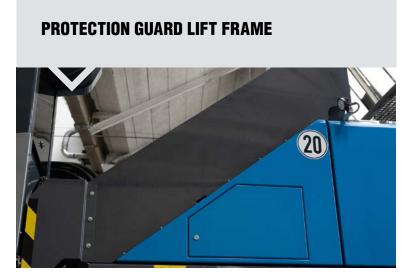


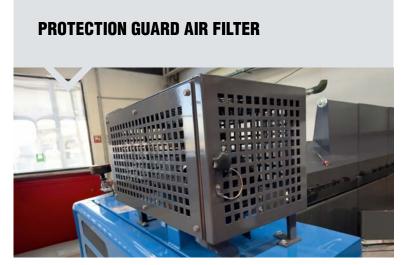
# **SPECIAL OPTIONS** – FOR TREE CARE APPLICATIONS

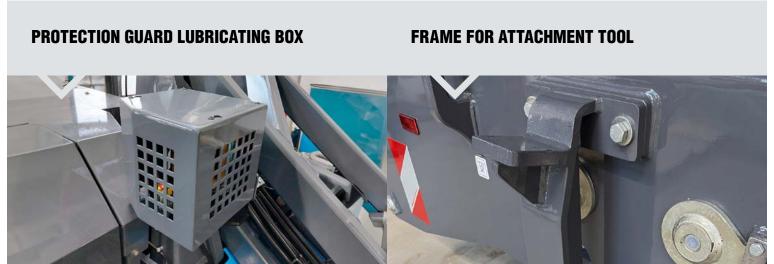
















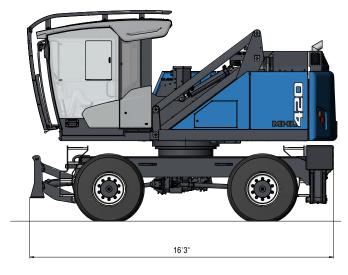
# **TECHNICAL DIMENSIONS**

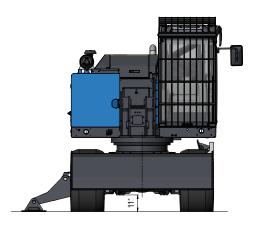
# Side view all dimensions 8' 8' 82' 82'

# 2-point stabilizers and support plate

# Side view

all dimensions

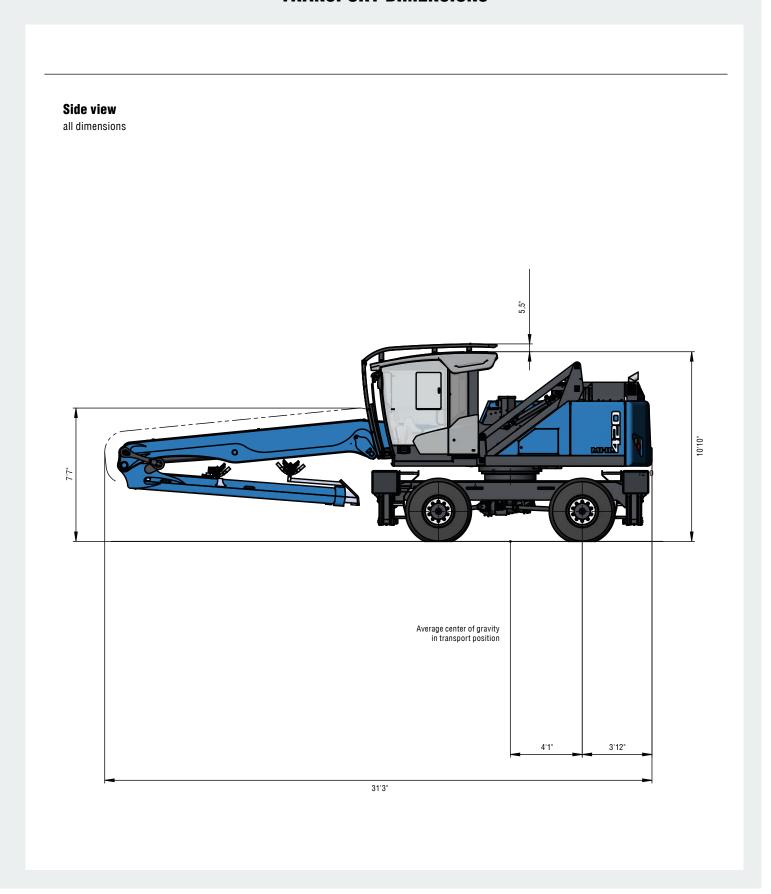






Support blade in addition to 2-point stabilizers

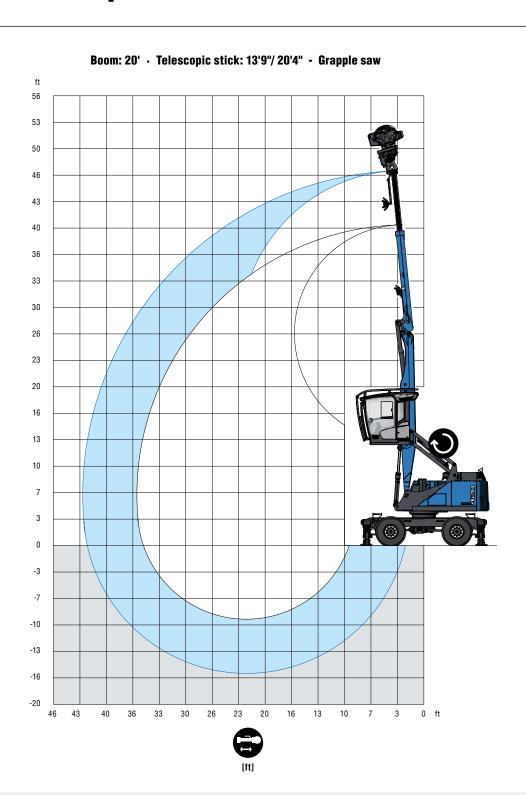
# TRANSPORT DIMENSIONS





# REACH

# up to 49'3" with telescopic stick



# **LIFTING CAPACITY**

Loading equipment: boom 20', telescopic stick 13'8" / 20'3"							
<b>[</b>							
height	Undercarriage Outrigger	Reach in ft					
ft		15	20	25	30	35	40
45	/ര <del>_</del> വ	13,000° 13,000°					
40	/ଚ <mark>=</mark> ବା		7,400° 7,400°	8,100° 8,100°			
35	/ଚ <mark>=</mark> ବୀ			6,300° 6,300°	6,300° 6,300°		
30	/ତ <u>~</u> ତୀ			6,200° 6,200°	5,800° 5,800°	5,900° 5,900°	
25	/ତ <u>~</u> ତୀ			6,500° 6,500°	6,000° 6,000°	5,500° 5,500°	
20	/ତ <u>~</u> ତୀ			7,100° 7,100°	6,500° 6,500°	5,700° 5,700°	5,200° 5,200°
15	/ତ <u>୍</u> କତୀ 'ତ୍କ୍କତୀ		8,000° 8,000°	8,100° 8,100°	7,400° 7,400°	6,300° 6,300°	5,300° 5,200
10	/ତ <u>କ</u> ଥା 'ତ <del>କ</del> ଥା	9,700° 9,700°	10,600° 10,600°	10,000° 10,000°	8,700° 8,100	7,100° 6,400	5,600° 5,200
5	/ତ <del>୍</del> ଟରୀ	19,100° 19,100°	13,900° 13,900°	11,000° 10,200	8,900° 7,800	7,300° 6,200	5,700° 5,100
0	ര <del>−</del> വ	20,300°	14,300°	11,000°	8,700°	6,900°	5,000°

### **Recommended attachments on request**

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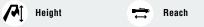
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-5

-10

-15



20,300°

15,600°

15,600°

12,800°

12,800°

Center of rotation

13,500

13,600°

12,900

11,700°

11,700°

8,500°

9,800

10,400°

9,500

8,900°

8,900°

6,500°

ro-o1 4-point supported

7,600

8,000°

7,400

6,700°

6,700°

6,100

6,100°

6,000

4,600°

4,600°

2-point supported with blade

17

5,000°

3,700°

3,700°

max. reach 42'2" 4,400°

The lift capacity values are stated in imperial pounds (lbs) and are valid on the end of the extended telescope stage without attachment. The figures represent 75% of the static tipping load or 87% of the hydraulic lifting force, in accordance with ISO 10567 (marked °). On firm, level ground the values apply to a swing range of 360°. The weights of the attached hoisting equipment (grab, load hook, etc.) must be deducted from the carrying capacity values. The safe working load of the hoisting equipment must be observed. In accordance with EU Standard EN 474-5, hose rupture safety devices on the lift and dipperstick cylinders, an overload warning device, and a table of carrying capacity in the cab are required for hoisting. Hoisting should only be performed when the machine's outriggers are up.





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