

## **TECHNICAL DATA**

operating weigh	t without Attachment	5
MHL390 F	76,2–87,0 t	
Diesel Engine		
	EU Stage V / US EPA Tier 4	EU Stage IIIA / US Tier 3
Manufacturer and model	Deutz TCD 12.0 V6	TCD2015 V06
Design	6-cylinder-V-engine	6-cylinder-V-engine
Functionality	4-stroke diesel, common rail direct injection, turbo- charged with intercooler, controlled exhaust gas recirculation, diesel partic- ulate filter with continuous regeneration and SCR catalytic converter	4-stroke diesel, common rail direct injection, turbo charged with intercooler
Engine power	300 kW	273 kW
Rated speed	1800 rpm	1800 rpm
Displacement	12.0	12.0
Cooling system	Water and charge air cooling with temperature controlled fan speed	Water and charge air cooling with temperature controlled fan speed
Exhaust emission standard	EU Stage V / US EPA Tier 4	EU Stage IIIA / US Tier 3*
Kraftstofftank	822 I Diesel	822   Diesel
Urea Tank	85 I AdBlue	
Electric Motor		
Power	250 kW	
Total connected load	304 kW	
Motor start	Via soft start	
Optional cable reel	Up to 50 metres (other lengt	hs on request)
Electrical Syster	n	
Alternator	28 V / 100 A	
Operating voltage	24 V	
Battery	2 × 12 V / 110 Ah / 750 A	
Lighting system	2 × LED floodlights at the fro rear parking lights and indica	
Optional equipment	30 kW DC generator with ins	ulation monitoring
Travel Drive		
	jh infinitely variable axial pistor avel brake valves, all-wheel driv	
Travel speed	max. 8 km/h	
Gradeability	max. 11 %	
Turning radius	12.85 m	
Swing Drive		
Slewing ring	Internally geared double row greasing via automatic lubric	
Drive	2-stage planetary gear with i	ntegrated multi-disc brake
Uppercarriage swing speed	0–5.5 rpm infinitely variable	
	Electronically activated	

Front axle	Planetary drive axle with integ	grated drum brake,							
Rear axle	Planetary drive axle with integ	Planetary drive axle with integrated drum brake, oscillating axle with selectable oscillating lock							
Outriggers	4-point stabilizers								
Tyres	Solid rubber 8-ply 14.00-24								
Brakes									
Service brake	Hydraulically operated brakin	g system,							
Parking brake	acting on all four wheel pairs Electrically operated disc bral	ke. acting on both axles							
Hydraulic Syste		, ,							
Max. pump capacity	720 lpm and 200 lpm (for swi	ng drive)							
Max. operating	320 / 360 bar								
pressure Hydraulic oil tank	660 I								
Filtration	Filter fineness defined at a bet 99.5% separation of dirt parti separation values are already	Flow-optimized return filters, integrated in the oil tank. Filter fineness defined at a beta value B(10) = 200 guarantees 99.5% separation of dirt particles with 10 µm. Very good separation values are already achieved with particle sizes of 3 µm. Generously dimensioned for long operating times.							
Cooling system	Separated high-performance with temperature-dependent								
Operator's Cab									
	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. Vertically adjustable cabin: viewing height of 6.14 m Vertically and horizontally adjustable cabin ( option): 2.2 m forward, with max. viewing height of 6.44 m								
Air conditioning	Hydraulically adjustable cabin Automatic air-conditioning. Ir 8-speed fan, 10 adjustable air	finitely variable heating with							
Operator's seat	Air-cushioned comfort seat wi joysticks, safety belt, lumbar s fatigue-free work due to univer seat position, seat inclination a cushion in relation to the armr	th swinging armrests / upport and headrest. Enables sal adjustment options for the and the arrangement of the sea							
Monitoring	Ergonomically arranged, glare- Automatic monitoring and stor (e.g. all hydraulic oil filters, hyd and charge air temperature – di steering), visual and audible we individual sensors via the multi side view camera on the right w	free Multifunction display. age of deviating operating state raulic oil temperature – coolan esel particulate filter loading, rining. Diagnostic option for th function display. Rear view and							
	EU Stage V / US EPA Tier 4	EU Stage IIIA / US Tier 3*							
Schallpegel	$\begin{array}{l} \mbox{Sound power level} \\ (ambience) \\ \mbox{L}_{_{WA}} 104.4 \ dB(A) \ (metered) \\ acc. to directive 2000/14/EC \\ \mbox{L}_{_{WA}} 106 \ dB(A) \ (guaranteed) \\ acc. to directive 2000/14/EC \end{array}$	Sound power level (ambience) $L_{WA}$ 106 dB(A) (metered) acc. to directive 2000/14/E( $L_{WA}$ 106 dB(A) (guaranteed) acc. to directive 2000/14/E(							
	Sound pressure level (inside the cabin) acc. to directive ISO 6396 ISO 6396 L <sub>pA</sub> 73 dB(A)	Sound pressure level (inside the cabin) acc. to directive ISO 6396 ISO 6396 L <sub>pA</sub> 73 dB(A)							
Vibrations	Weighted r.m.s. value of acce of upper limbs: under 2.5 m/s								
	Weighted effective value of ac	celeration							

\* for low-regulated markets

# EQUIPMENT

Diesel Engine	Standard	Option
Water and charge air cooler	•	
Temperature-dependent fan drive	•	
Reversible fan		•
Direct electronic fuel injection / common rail	•	
DEF injection, passive regeneration	•	
Advanced automatic idle incl. engine shut-off function	•	
ECO and Power Mode	•	
Engine diagnostics interface	•	
Undercarriage		
All-wheel drive	•	
Disk brakes	•	
Rear axle oscillating lock	•	
4-point stabilizers	•	
Stabilizer cylinder with integrated, double-sided shut-off valves	•	
Piston rod protection for support cylinder	•	
Tool box	•	
Special paint		٠
Solid rubber 8-ply 14.00-24	•	
Uppercarriage		
Separated high-performance cooling system	٠	
Hydraulic oil cooler with temperature-dependent fan drive	٠	
Reversible fan		٠
Automatic central lubrication system	٠	
Rear view camera	٠	
Side view camera	•	
Travel alarm		٠
Electric refuelling pump		٠
Light protection		٠
Special paint		٠
Operator's Cab		
Vertically adjustable cabin	٠	
Vertically and horizontally adjustable cabin		•
Hydraulically adjustable cabin "Port" with rigid cab riser (viewing height 8.8 m), including 360° camera system, solid rubber tyres 16.00-25 Magnum		•
Single-pane safety glass (ESG)	•	
Cabin tinted windows (side, rear)	•	
Sliding window in cab door	•	

Operator's Cab	Standard	Option
Cabin with penetration resistant glass front and top (classification P5A)		•
Cabin with bullet-proof glass (classification P8B)		٠
Windshield washer system	•	
Washing device for roof window		٠
Roof window clear glass	•	
Air-cushioned operator seat with headrest, seatbelt and lumbar support	•	
Seat heating		٠
Joystick steering	•	
Steering column, height and tilt adjustable		٠
Air Conditioner	•	
Auxiliary heating incl. timer		٠
Multi-function display	•	
Document clip	•	
FOPS Guard		٠
Cabin front and top guard		٠
12 V transformer		٠
Digital radio (DAB+, USB, Bluetooth and hands-free system)	•	
12 V socket / cigarette lighter		٠
Fire extinguisher, dry powder with holder		٠
Travel alarm flashing alarm light with acoustic warning signal		٠
Other Equipment		
30 kW DC generator		٠
Close proximity range limiter for dipper stick	•	
Coolant and hydraulic oil level monitoring system	•	
Overload and working area control		٠
Filtration system for attachments		٠
Rupture valves for lifting cylinders	•	
Rupture valves for stick cylinders	•	
Overload warning device		٠
Quick coupling on dipper stick	•	
Active cyclone prefilter		٠
Hydraulic oil preheating		٠
Lubrication of the grab suspension by central lubrication system	•	
LED head lights at the front of the machine	•	
LED light packages		٠
Float switch		٠
Fuchs Connect telematics system, incl. 5 years contract	•	

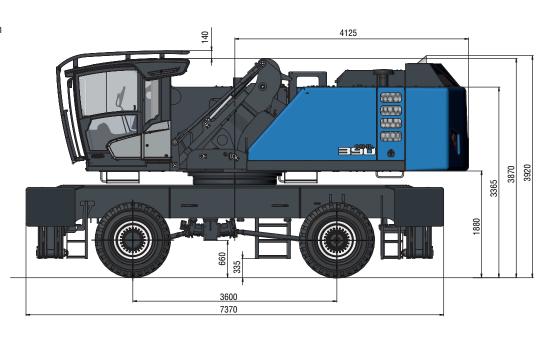


## DIMENSIONS

## Vertically adjustable cabin

Side view

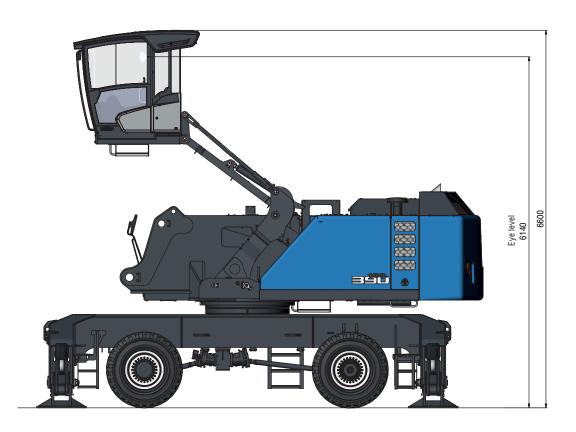
all dimensions in mm



### Side view

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all dimensions in mm

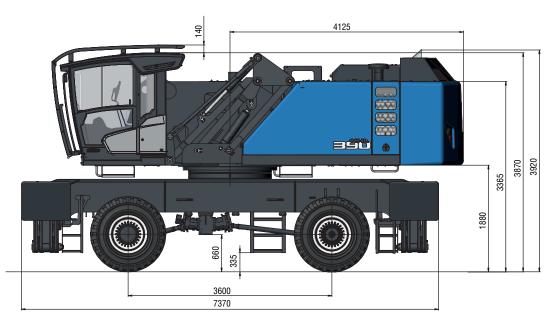


### DIMENSIONS

## Vertically and horizontally adjustable cabin ${\strut}{}^{\star}$

### Side view

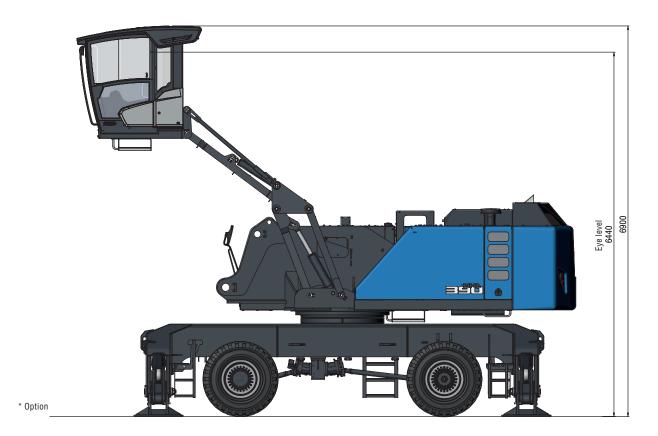
all dimensions in mm



### Side view

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all dimensions in mm



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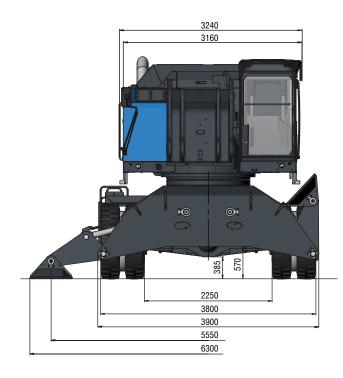




## DIMENSIONS

Front view

all dimensions in mm





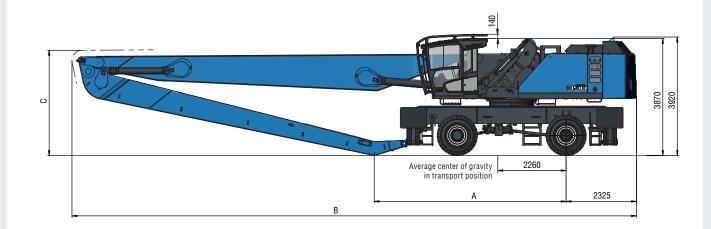
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## **TRANSPORT DIMENSIONS**

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### Loading equipment with dipper stick

all dimensions in mm



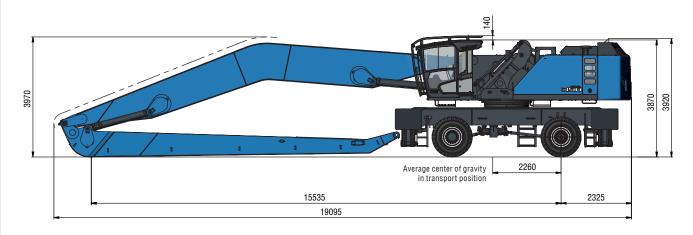
Reach	<b>22</b> m	<b>24</b> m	
A	6165 mm	6350 mm	
В	17315 mm	18665 mm	
C	3560 mm	3480 mm	

### Loading equipment with banana boom

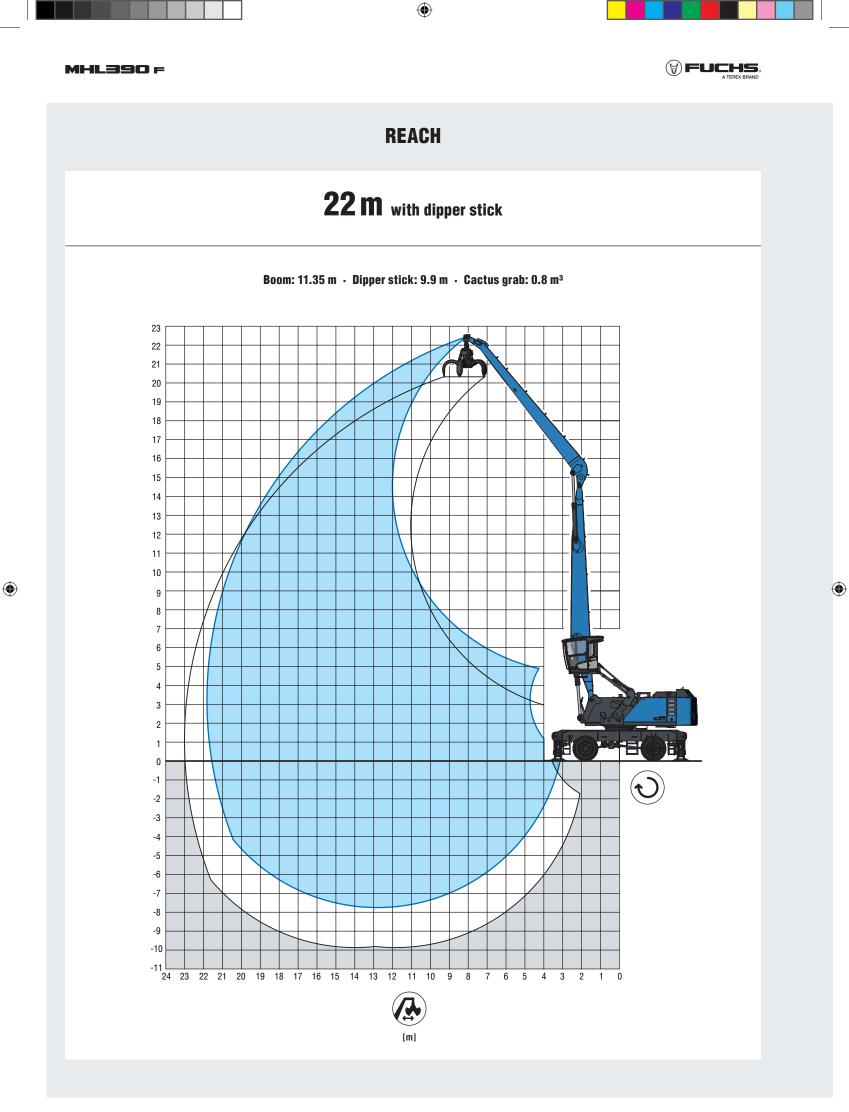
all dimensions in mm



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		6 m	7.5 m	9 m	10.5 m	12 m	13.5 m	15 m	16.5 m	18 m	19.5 m	21 m
21 m	ര‴ത				7.9° (7.9°)							
19.5 m	ര്ത					8.2° (8.2°)	6.1° (6.1°)					
18 m	ര്ത					9.5° (9.5°)	8.2° (8.2°)	6.2° (6.2°)				
16.5 m	ത്ത					9.6° (9.6°)	8.9° (8.9°)	7.9° (7.9°)	5.8° (5.8°)			
15 m	ത്ത						8.8° (8.8°)	8.2° (8.2°)	7.5° (7.5°)	4.9° (4.9°)		
13.5 m	10 <b>-</b> 01					9.5° (9.5°)	8.8° (8.8°)	8.2° (8.2°)	7.7° (7.7°)	6.7° (6.7°)		
12 m	ര <b>ം</b>					9.6° (9.6°)	8.9° (8.9°)	8.2° (8.2°)	7.7° (7.7°)	7.2° (7.2°)	5.3° (5.3°)	
10.5 m	ര്ത					9.8° (9.8°)	9.0° (9.0°)	8.3° (8.3°)	7.7° (7.7°)	7.2° (7.2°)	6.7° (6.7°)	
9 m	ro <b>=</b> 01				11.3° (11.3°)	10.2° (10.2°)	9.2° (9.2°)	8.5° (8.5°)	7.8° (7.8°)	7.3° (7.3°)	6.7° (6.7°)	4.4° (4.4°)
7.5 m	10 <sup></sup> 01			13.5° (13.5°)	11.9° (11.9°)	10.6° (10.6°)	9.5° (9.5°)	8.7° (8.7°)	8.0° (8.0°)	7.3° (7.3°)	6.8° (6.8°)	5.5° (5.5°)
6 m	10 <b>-</b> 01		17.5° (17.5°)	14.6° (14.6°)	12.5° (12.5°)	11.0° (11.0°)	9.8° (9.8°)	8.9° (8.9°)	8.1° (8.1°)	7.4° (7.4°)	6.8° (6.8°)	6.2° (6.2°)
4.5	ര്ത	25.6° (25.6°)	19.4° (19.4°)	15.7° (15.7°)	13.2° (13.2°)	11.5° (11.5°)	10.1° (10.1°)	9.1° (9.1°)	8.2° (8.2°)	7.4° (7.4°)	6.8° (6.8°)	6.1° (6.1°)
3 m	ത്ത	23.0° (23.0°)	21.0° (21.0°)	16.7° (16.7°)	13.8 (13.8°)	11.9° (11.9°)	10.4° (10.4°)	9.2° (9.2°)	8.3° (8.3°)	7.5° (7.5°)	6.7° (6.7°)	6.0° (6.0°)
1.5 m	ര്ത	9.7° (9.7°)	22.0° (22.0°)	17.3° (17.3°)	14.3° (14.3°)	12.1° (12.1°)	10.5° (10.5°)	9.3° (9.3°)	8.3° (8.3°)	7.4° (7.4°)	6.6° (6.6°)	5.8° (5.8°)
0 m	ര്ത	7.9° (7.9°)	15.0° (15.0°)	17.5° (17.5°)	14.4° (14.4°)	12.2° (12.2°)	10.6° (10.6°)	9.3° (9.3°)	8.2° (8.2°)	7.3° (7.3°)	6.5° (6.5°)	5.6° (5.6°)
-1.5 m	ര്ത	7.9° (7.9°)	12.7° (12.7°)	17.3° (17.3°)	14.3° (14.3°)	12.1° (12.1°)	10.5° (10.5°)	9.2° (9.2°)	8.1° (8.1°)	7.1° (7.1°)	6.2° (6.2°)	5.2° (5.2°)
-3 m	ര‴ത	8.4° (8.4°)	12.1° (12.1°)	16.6° (16.6°)	13.9° (13.9°)	11.8° (11.8°)	10.2° (10.2°)	8.9° (8.9°)	7.8° (7.8°)	6.7° (6.7°)	5.8° (5.8°)	
-4.5 m	ര്ത	9.0° (9.0°)	12.3° (12.3°)	15.5° (15.5°)	13.1° (13.1°)	11.2° (11.2°)	9.6° (9.6°)	8.4° (8.4°)	7.2° (7.2°)	6.2° (6.2°)	5.1° (5.1°)	
-6 m	ro <del>-</del> o1		12.7° (12.7°)	13.9° (13.9°)	11.9° (11.9°)	10.2° (10.2°)	8.8° (8.8°)	7.6° (7.6°)	6.5° (6.5°)	5.4° (5.4°)		

	5.4° (5.4°)	6.5° (6.5°)	7.6° (7.6°)	8.8° (8.8°)	10.2° (10.2°)	11.9° (11.9°)	13.9° (13.9°)	12.7° (12.7°)	10_01	-6 M
				7.7° (7.7°)	8.9° (8.9°)				ര്ത	-7.5 m
max. reach 21.8 m										
4.6° (4.6°)									ര=ന	3.3 m

### **Recommended attachments upon request**



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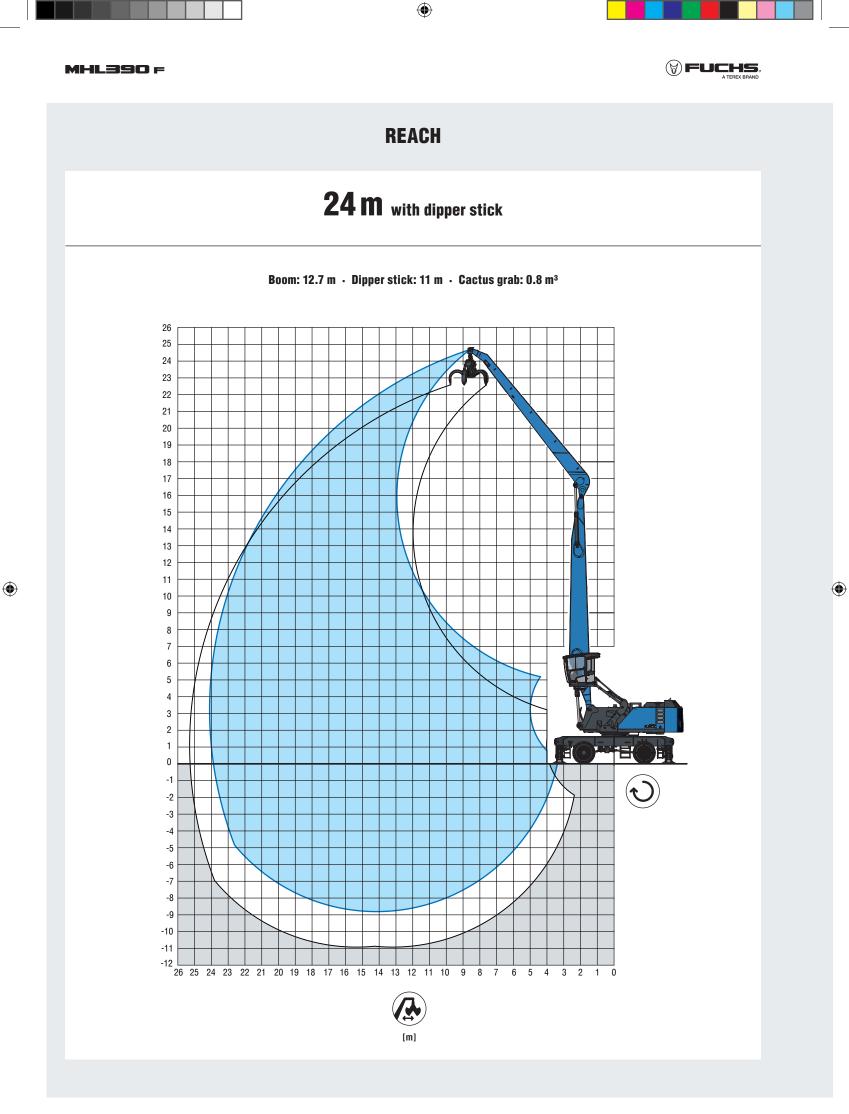




roto 4-point supported

The lift capacity values are stated in metric tons (t). In accordance with ISO 10567, the lift capacity values represents 75 % of the static tipping loads or 87% of the hydraulic lifting force (marked °). On solid and level ground the values apply to a swing range of 360°. The (...) values apply in the longitudinal direction of the undercarriage. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed. In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. The machine has to be supported on a level ground for object handling application.

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## LIFTING CAPACITY

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		6 m	7.5 m	9 m	10.5 m	12 m	13.5 m	15 m	16.5 m	18 m	19.5 m	21 m	22.5 m	24 m
		0 11	7.5 11	5 111	10.5 11	12 111	10.0 m	15 11	10.5 m	TO III	15.5 11	2111	22.5 11	24 111
22.5 m	10 <b>-</b> 01					7.1° (7.1°)								
21 m	10=01					8.3° (8.3°)	7.2° (7.2°)	5.7° (5.7°)						
19.5 m	ເວັັດາ						8.3° (8.3°)	7.2° (7.2°)	5.6° (5.6°)					
18 m	10 <sup></sup> 01						9.0° (9.0°)	8.1° (8.1°)	7.0° (7.0°)	5.3° (5.3°)				
16.5 m	ເວັດ						9.0° (9.0°)	8.3° (8.3°)	7.7° (7.7°)	6.6° (6.6°)	4.7° (4.7°)			
15 m	ເວືອງ						9.0° (9.0°)	8.3° (8.3°)	7.7° (7.7°)	7.1° (7.1°)	6.1° (6.1°)			
13.5 m	10 <b>-</b> 01						9.1° (9.1°)	8.3° (8.3°)	7.7° (7.7°)	7.1° (7.1°)	6.6° (6.6°)	5.1° (5.1°)		
12 m	ເຈື້ອາ						9.2° (9.2°)	8.4° (8.4°)	7.7° (7.7°)	7.1° (7.1°)	6.6° (6.6°)	6.1° (6.1°)		
10.5 m	ເວັັດ					10.4° (10.4°)	9.4° (9.4°)	8.5° (8.5°)	7.8° (7.8°)	7.2° (7.2°)	6.6° (6.6°)	6.1° (6.1°)	4.7° (4.7°)	
9 m	ro <del>-</del> o1				12.1° (12.1°)	10.7° (10.7°)	9.6° (9.6°)	8.7° (8.7°)	7.9° (7.9°)	7.2° (7.2°)	6.7° (6.7°)	6.2° (6.2°)	5.6° (5.6°)	
7.5 m	ro <del>-</del> o1			14.7° (14.7°)	12.6° (12.6°)	11.0° (11.0°)	9.8° (9.8°)	8.8° (8.8°)	8.0° (8.0°)	7.3° (7.3°)	6.7° (6.7°)	6.2° (6.2°)	5.6° (5.6°)	
6 m	ത്ത		18.7° (18.7°)	15.6° (15.6°)	13.2° (13.2°)	11.4° (11.4°)	10.1° (10.1°)	9.0° (9.0°)	8.1° (8.1°)	7.4° (7.4°)	6.7° (6.7°)	6.1° (6.1°)	5.6° (5.6°)	
4.5	10 <sup></sup> 01	27.6° (27.6°)	20.6° (20.6°)	16.5° (16.5°)	13.8° (13.8°)	11.8° (11.8°)	10.3° (10.3°)	9.2° (9.2°)	8.2° (8.2°)	7.4° (7.4°)	6.7° (6.7°)	6.1° (6.1°)	5.5° (5.5°)	4.2° (4.2°)
3 m	10 <sup></sup> 01	12.6° (12.6°)	21.8° (21.8°)	17.2° (17.2°)	14.2° (14.2°)	12.1° (12.1°)	10.5° (10.5°)	9.3° (9.3°)	8.3° (8.3°)	7.4° (7.4°)	6.7° (6.7°)	6.1° (6.1°)	5.5° (5.5°)	4.4° (4.4°)
1.5 m	ര <b>്</b> ത	6.5° (6.5°)	14.9° (14.9°)	17.6° (17.6°)	14.5° (14.5°)	12.3° (12.3°)	10.6° (10.6°)	9.3° (9.3°)	8.3° (8.3°)	7.4° (7.4°)	6.7° (6.7°)	6.0° (6.0°)	5.3° (5.3°)	4.3° (4.3°)
0 m	ര <b>-</b> ത	5.6° (5.6°)	10.3° (10.3°)	17.6° (17.6°)	14.5° (14.5°)	12.3° (12.3°)	10.6° (10.6°)	9.3° (9.3°)	8.2° (8.2°)	7.3° (7.3°)	6.5° (6.5°)	5.8° (5.8°)	5.1° (5.1°)	
-1.5 m	10 <sup></sup> 01	5.7° (5.7°)	9.0° (9.0°)	15.2° (15.2°)	14.3° (14.3°)	12.1° (12.1°)	10.5° (10.5°)	9.2° (9.2°)	8.1° (8.1°)	7.2° (7.2°)	6.4° (6.4°)	5.6° (5.6°)	4.8° (4.8°)	
-3 m	ro <del>-</del> o1	6.2° (6.2°)	8.9° (8.9°)	13.5° (13.5°)	13.8° (13.8°)	11.8° (11.8°)	10.2° (10.2°)	8.9° (8.9°)	7.8° (7.8°)	6.9° (6.9°)	6.1° (6.1°)	5.3° (5.3°)	4.4° (4.4°)	
-4.5 m	ro <b>=</b> o1	6.8° (6.8°)	9.1° (9.1°)	12.9° (12.9°)	13.0° (13.0°)	11.2° (11.2°)	9.7° (9.7°)	8.5° (8.5°)	7.4° (7.4°)	6.5° (6.5°)	5.7° (5.7°)	4.8° (4.8°)	3.8° (3.8°)	
-6 m	10 <sup></sup> 01		9.5° (9.5°)	12.9° (12.9°)	11.9° (11.9°)	10.3° (10.3°)	9.0° (9.0°)	7.9° (7.9°)	6.9° (6.9°)	6.0° (6.0°)	5.1° (5.1°)	4.2° (4.2°)		
-7.5 m	ro <del>-</del> o1				10.5° (10.5°)	9.2° (9.2°)	8.1° (8.1°)	7.0° (7.0°)	6.1° (6.1°)	5.2° (5.2°)				
													max. rea	ch 24.1 m
3.3 m	10 <sup></sup> 01													4.0° (4.0°)

### **Recommended attachments upon request**

Height

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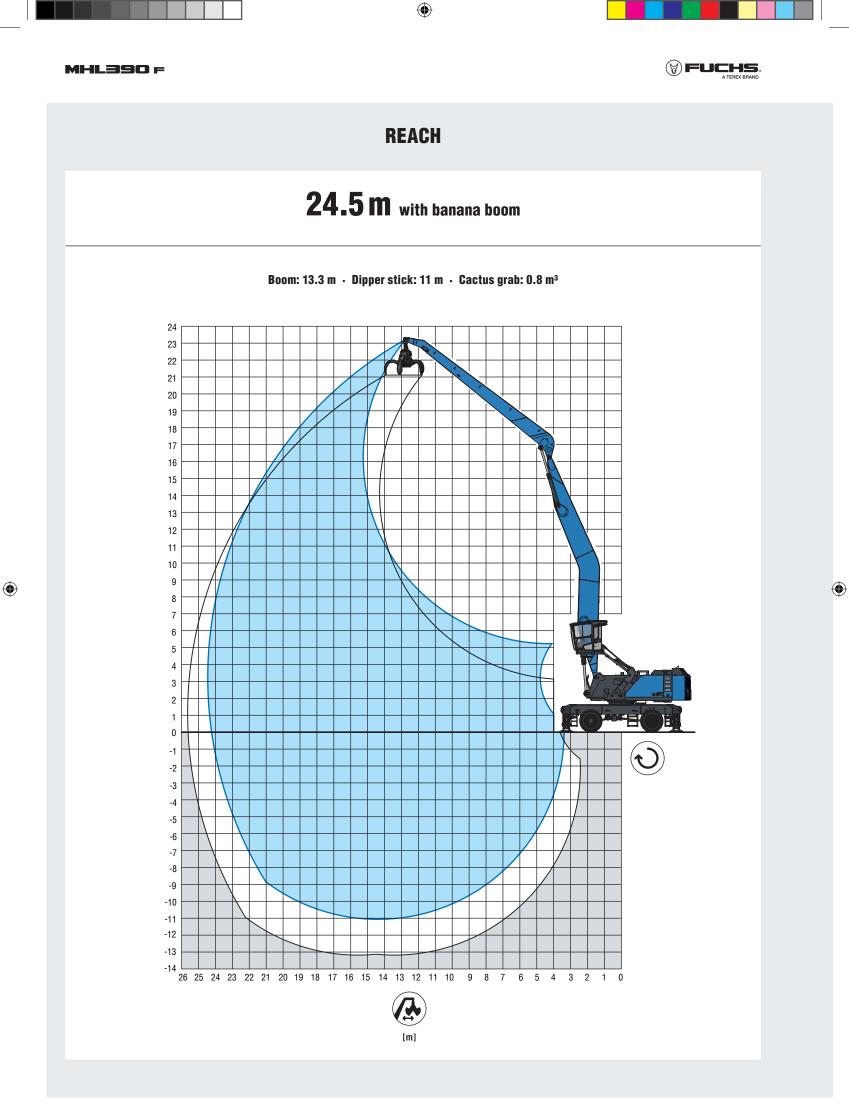


Center of rotation

roto 4-point supported

The lift capacity values are stated in metric tons (t). In accordance with ISO 10567, the lift capacity values represents 75 % of the static tipping loads or 87% of the hydraulic lifting force (marked °). On solid and level ground the values apply to a swing range of 360°. The (...) values apply in the longitudinal direction of the undercarriage. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed. In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. The machine has to be supported on a level ground for object handling application.

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**LIFTING CAPACITY** 





		6 m	7.5 m	9 m	10.5 m	12 m	13.5 m	15 m	16.5 m	18 m	19.5 m	21 m	22.5 m	24 m
22.5 m	ത്ത						5.4° (5.4°)							
21 m	ര‴ത							5.7° (5.7°)						
19.5 m	ര്ത							7.0° (7.0°)	5.6° (5.6°)					
18 m	ത്ത								6.5° (6.5°)	5.4° (5.4°)				
16.5 m	ത്ത								6.4° (6.4°)	6.0° (6.0°)	4.9° (4.9°)			
15 m	ത്ത								6.4° (6.4°)	6.0° (6.0°)	5.6° (5.6°)	4.1° (4.1°)		
13.5 m	ത്ത							7.0° (7.0°)	6.4° (6.4°)	6.0° (6.0°)	5.6° (5.6°)	5.3° (5.3°)		
12 m	ത്ത							7.1° (7.1°)	6.5° (6.5°)	6.0° (6.0°)	5.6° (5.6°)	5.3° (5.3°)	4.0° (4.0°)	
10.5 m	ത്ത							7.2° (7.2°)	6.6° (6.6°)	6.1° (6.1°)	5.7° (5.7°)	5.3° (5.3°)	4.9° (4.9°)	
9 m	ര്ത						8.1° (8.1°)	7.3° (7.3°)	6.7° (6.7°)	6.2° (6.2°)	5.7° (5.7°)	5.3° (5.3°)	4.9° (4.9°)	
7.5 m	ത്ത					9.4° (9.4°)	8.4° (8.4°)	7.5° (7.5°)	6.8° (6.8°)	6.3° (6.3°)	5.8° (5.8°)	5.3° (5.3°)	4.9° (4.9°)	3.7° (3.7°)
6 m	ത്ത			13.5° (13.5°)	11.3° (11.3°)	9.8° (9.8°)	8.6° (8.6°)	7.7° (7.7°)	7.0° (7.0°)	6.3° (6.3°)	5.8° (5.8°)	5.4° (5.4°)	4.9° (4.9°)	4.3° (4.3°)
4.5	ത്ത	24.5° (24.5°)	18.1° (18.1°)	14.3° (14.3°)	11.9° (11.9°)	10.2° (10.2°)	8.9° (8.9°)	7.9° (7.9°)	7.1° (7.1°)	6.4° (6.4°)	5.9° (5.9°)	5.4° (5.4°)	5.0° (5.0°)	4.5° (4.5°)
3 m	ത്ത	8.6° (8.6°)	19.2° (19.2°)	15.1° (15.1°)	12.4° (12.4°)	10.5° (10.5°)	9.1° (9.1°)	8.1° (8.1°)	7.2° (7.2°)	6.5° (6.5°)	5.9° (5.9°)	5.4° (5.4°)	4.9° (4.9°)	4.5° (4.5°)
1.5 m	ത്ത	5.7° (5.7°)	11.6° (11.6°)	15.6° (15.6°)	12.7° (12.7°)	10.8° (10.8°)	9.3° (9.3°)	8.2° (8.2°)	7.3° (7.3°)	6.6° (6.6°)	5.9° (5.9°)	5.4° (5.4°)	4.9° (4.9°)	4.4° (4.4°)
0 m	ത്ത	5.3° (5.3°)	9.0° (9.0°)	15.8° ( 15.8°)	12.9° (12.9°)	10.9° (10.9°)	9.4° (9.4°)	8.2° (8.2°)	7.3° (7.3°)	6.6° (6.6°)	5.9° (5.9°)	5.4° (5.4°)	4.8° (4.8°)	4.3° (4.3°)
-1.5 m	ത്ത	5.5° (5.5°)	8.2° (8.2°)	12.9° (12.9°)	12.9° (12.9°)	10.9° (10.9°)	9.4° (9.4°)	8.3° (8.3°)	7.3° (7.3°)	6.5° (6.5°)	5.9° (5.9°)	5.3° (5.3°)	4.7° (4.7°)	
-3 m	ത്ത	6.0° (6.0°)	8.2° (8.2°)	11.8° (11.8°)	12.7° (12.7°)	10.8° (10.8°)	9.3° (9.3°)	8.2° (8.2°)	7.2° (7.2°)	6.4° (6.4°)	5.8° (5.8°)	5.1° (5.1°)	4.5° (4.5°)	
-4.5 m	ത്ത	6.6° (6.6°)	8.4° (8.4°)	11.5° (11.5°)	12.4° (12.4°)	10.5° (10.5°)	9.1° (9.1°)	8.0° (8.0°)	7.1° (7.1°)	6.3° (6.3°)	5.6° (5.6°)	4.9° (4.9°)	4.2° (4.2°)	
-6 m	ത്ത	7.1° (7.1°)	8.8° (8.8°)	11.5° (11.5°)	11.8° (11.8°)	10.1° (10.1°)	8.8° (8.8°)	7.7° (7.7°)	6.8° (6.8°)	6.0° (6.0°)	5.3° (5.3°)	4.6° (4.6°)		
-7.5 m	ത്ത		9.3° (9.3°)	11.8° (11.8°)	10.9° (10.9°)	9.5° (9.5°)	8.3° (8.3°)	7.2° (7.2°)	6.4° (6.4°)	5.6° (5.6°)	4.8° (4.8°)	4.1° (4.1°)		
-9 m	10 <b>-</b> 01			11.3° (11.3°)	9.9° (9.9°)	8.6° (8.6°)	7.5° (7.5°)	6.6° (6.6°)	5.8° (5.8°)	5.0° (5.0°)	4.2° (4.2°)			
–10.5 m	ത്ത					7.5° (7.5°)	6.6° (6.6°)	5.8° (5.8°)	5.0° (5.0°)					
													max. rea	ch 24.4 m
3.3 m	10 <b>-</b> 01													3.8° (3.8°)

### **Recommended attachments upon request**

Height

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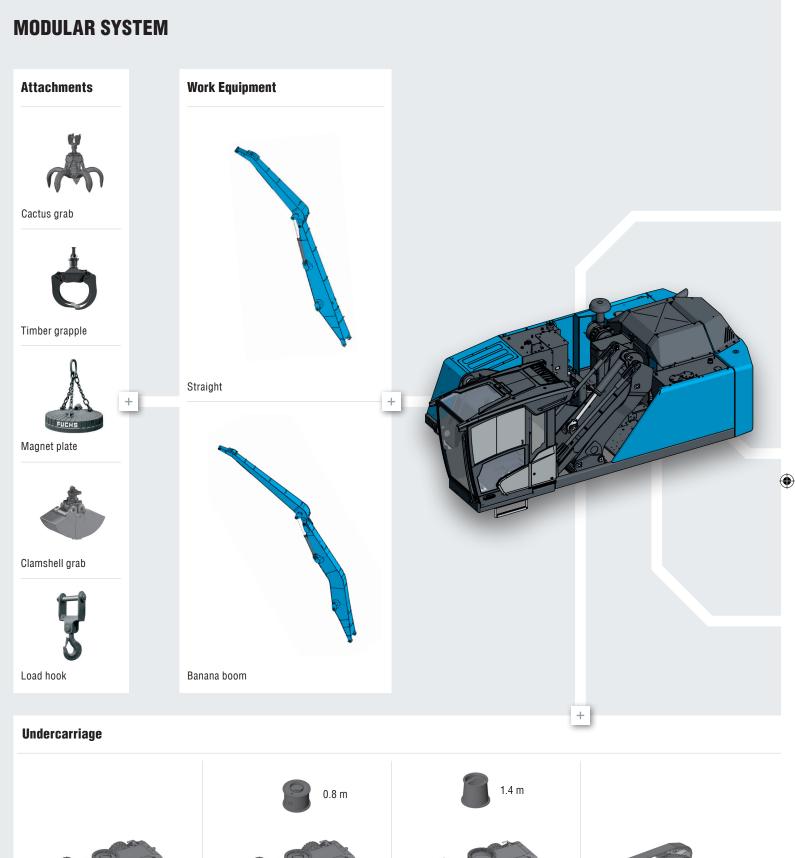


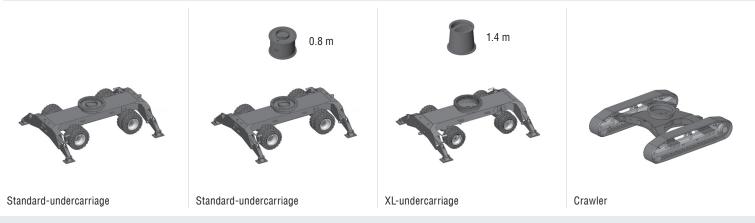
roto 4-point supported

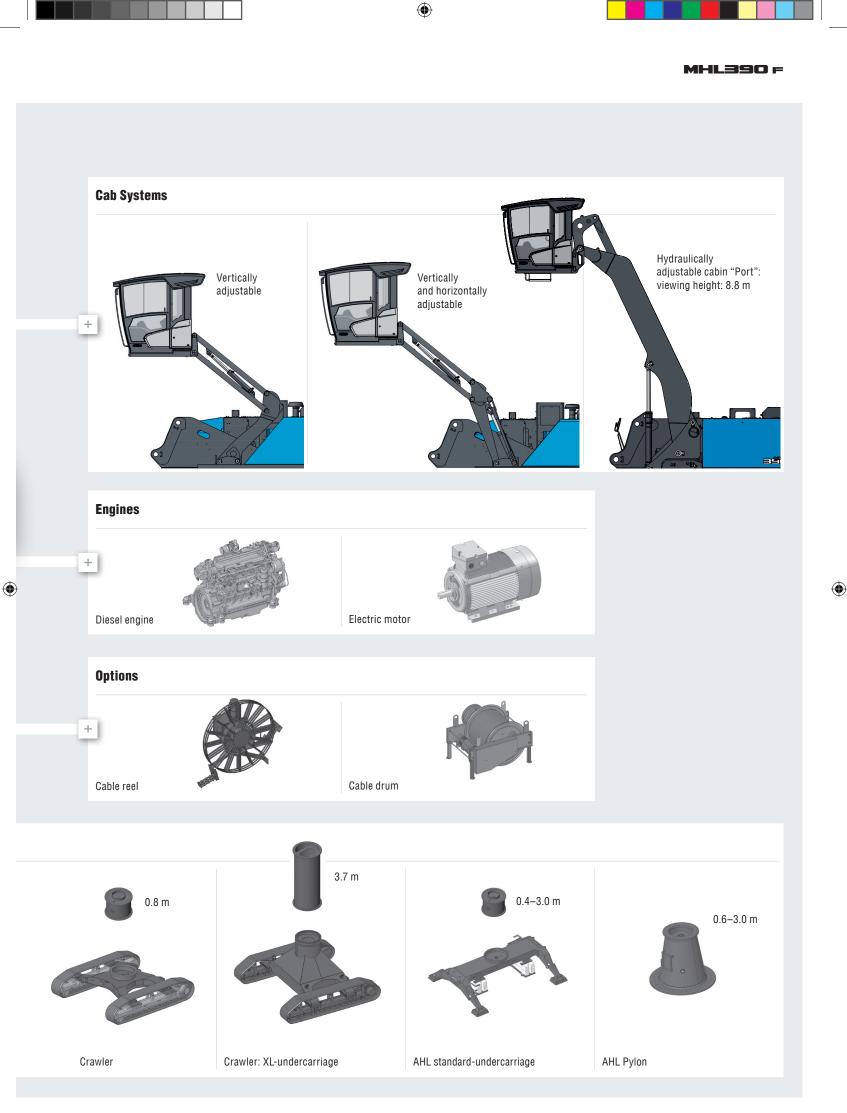
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Terex® Deutschland GmbH | Industriestraße 3 | 76669 Bad Schönborn | Germany | Fon: +49 (0) 7253 84-0 | Fax: +49 (0) 7253 84-102 | info@terex-fuchs.com

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