

# ATLAS

SINCE 1919

-  40 - 41 t
-  180 kW (245 PS)
-  13.5 - 18.1 m<sup>3</sup>

**FAST.  
RELIABLE.  
VERSATILE.**



## **MATERIAL HANDLING MACHINE 400MH**

[WWW.ATLASGMBH.COM](http://WWW.ATLASGMBH.COM)

# TECHNICAL SPECIFICATION 400MH

## Technical Specification

ENGINE	HYDRAULIC SYSTEM	TRACTION DRIVE AND BRAKES
Power according to ISO 14396 ..... 180 kW (245 HP)	• AWE 4 System (Load Sensing)	• Variable displacement motor
RPM ..... 1900/min	• Load-limit-controlled high-perform. piston pumps	• 2-gear transmission
Make.....Deutz TCD 6.1 L6 (Tier 4 F)	• Fuel-efficient required power regulation	• Double-acting brake valve
Design.....Turbocharger / intercooler	• Primary and secondary protection against overload	• Driving direction pre-selection via lever at steering-wheel
Cylinder capacity.....6000 cm <sup>3</sup>	• Suction valves for all work functions	• Maximum speed.....16 km/h
Number of cylinders.....6	• Load-retaining and fine-drop valve in lifting circuit	• Terrain speed.....5 km/h
Borehole/lift.....101 / 126	• Pipe-break protection valves for lifting cylinders	• Crawling speed.....1 km/h
Cooling system.....Water-cooled	• Grab and grab-rotating function	• All-wheel drive
Air filter.....Dry air filter	• 2 additional circuits for add. consumer loads possible	• Dual circuit brake system.....Drum
Battery.....2 x 12 V / 100 Ah	• Temperature-controlled fan for cooler	• Parking brake.....Spring-loaded brake
Alternator.....24 V / 55 Ah	• Max. oil flow .....640 l/min	
Starter.....24 V / 4.8 kW	• Max. operating pressure .....320 bar	

SWING ASSEMBLY	UNDERCARRIAGE	FILL CAPACITIES
• Swing motor: Axial piston motor with priority valve	• 70 t special excavator axles	• Fuel tank ..... 425 Liter
• Swing gear: Planetary transmission	• Steering axle with auto. oscillating axle blocking	• Cooling system.....48 Liter
• Swing brakes: Multidisc brake via pedal	• 8 rubber tyres .....12.00 - 24 Superelastic	• Engine oil.....15.5 Liter
• Max. swing speed .....8.5/min		• AdBlue <sup>®</sup> tank ..... 32 Liter
• Swing torque.....93.4 kNm		• Hydraulic tank.....505 Liter
		• Hydraulics system.....970 Liter

DRIVER'S CAB		
• Meets latest safety standards	<b>DRIVER'S SEAT:</b>	<b>CLIMATE CONTROL:</b>
• Extra-wide entrance	• Air-cushioned comfort seat (optional seat heating)	• Climatronic standard in all models
• Spacious leg room	• Arm rests and lumbar support	• Very good air distribution
• Excellent circumferential visibility	• Seat adjustable separately from console	
• Preparation for radio installation		<b>SOUND LEVELS:</b>
	<b>CONTROL:</b>	• ISO 6396 (LpA) in driver's cab.....70 dB(A)
	• Ergonomic pilot lever	• 2000/14EG (LwA) based on ambience level.....103 dB(A)
	• Slim steering column, height and tilt adjustable	
	• Clear and concise arrangement of control switches	















EQUIPMENT		
• Loading boom 10.60 m (C84.7i)	<b>Hydraulics:</b>	<b>Cab:</b>
• Stick 6.90 m (D84.16i)	• Grab and grab-rotating functio	• Air conditioning
• Stick 7.70 m (D84.17i)	• Accumulator for emergency lowering of the arm system	• Preparation for radio installation
<b>STANDARD EQUIPMENT:</b>	• Pipe break protection valves for lifting cylinders	• Slim steering column, height and tilt adjustable
<b>Engine:</b>	• Overload warning device	• Seat adjustable separately from console
• Automatic idle	• Cylinder end-position damping	
• Diesel pre-filter		<b>EQUIPMENT:</b>
• Engine monitoring	<b>UNDERCARRIAGE:</b>	• Combined lubricating points for swing bearing and arm equipment
	• Drum brakes	















ATTACHMENTS		
• Clamshell grab	• Load hook	• Log grab
• Orange peel grab	• Load lifting magnet	

ADDITIONAL EQUIPMENT		
<b>Engine:</b>	<b>Equipment:</b>	• Lift-Cab (elevation up to 2.5, 2.7 and 2.7+0.6 m)
• Refueling pump	• Electric central lubrication system	• Cab elevation 0.60 m / 1.20 m / 1.50 m
• Auxiliary heating		• Vario cab can be elevated 2 m high and 2 m forwards
• Cold startup assistance	<b>Cab:</b>	• LED working lights
	• Sliding door + Gangway	
<b>Hydraulics:</b>	• Cab protection guard	<b>Undercarriage:</b>
• Hydraulic kit, to operate front and rear supports separately	• Beacon light	• Solid rubber tyres (standard)
• Hydraulic kit, to operate supports per axle separately	• Heated driver's seat	• Tool box in the undercarriage
• Bio oil	• Radio CD/MP3, front AUX in, USB	<b>Other special equipment:</b> See price list

# LIFTING CAPACITIES 400MH

## Lifting capacities Loading boom 10.60 m (C84.7i)

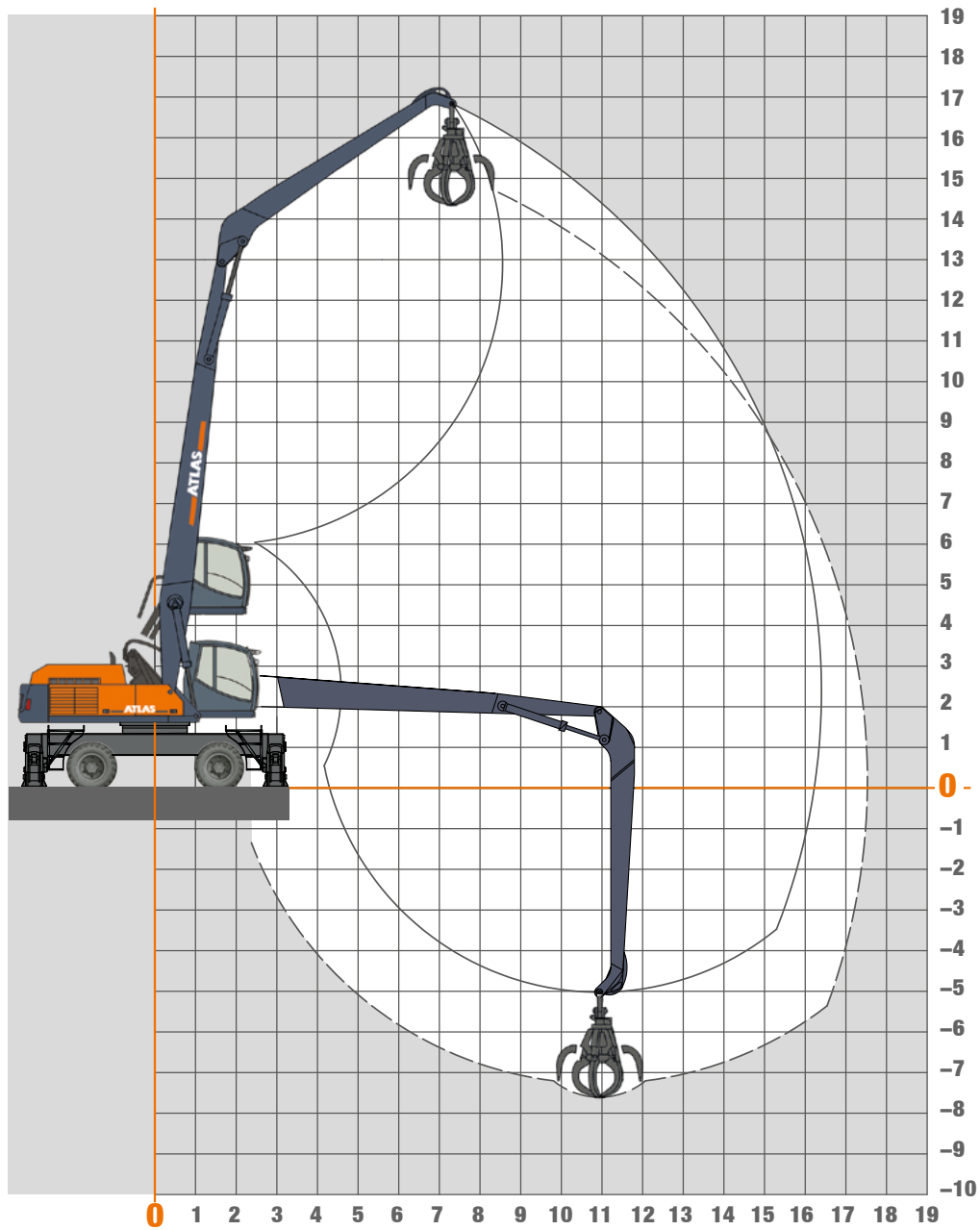
		4.0 m		6.0 m		8.0 m		10.0 m		12.0 m		14.0 m		16.0m	
															
HEIGHT		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
15.0 m	outriggers down							5.1	5.1						
	outriggers up							5.1	4.8*						
13.5 m	outriggers down							5.0	5.0	4.4	4.4				
	outriggers up							5.0	4.9*	4.4	3.5*				
12.0 m	outriggers down							5.0	5.0	4.4	4.4				
	outriggers up							5.0	4.9*	4.4	3.5*				
19.5 m	outriggers down							5.1	5.1	4.4	4.4	3.9	3.9		
	outriggers up							5.1	4.8*	4.4	3.5*	3.4*	2.6*		
9.0 m	outriggers down							5.2	5.2	4.4	4.4	3.9	3.9		
	outriggers up							5.2	4.7*	4.4*	3.4*	3.4*	2.6*		
7.5 m	outriggers down					6.6	6.6	5.4	5.4	4.5	4.5	3.9	3.9		
	outriggers up					6.6	6.4*	5.3*	5.4	4.9	3.9*	3.8*	2.9*		
6.0 m	outriggers down	14.2	14.2	9.3	9.3	6.9	6.9	5.6	5.6	4.6	4.6	4.0	4.0	3.4	3.4
	outriggers up	14.2	14.2	9.3	9.1*	6.9	6.0*	5.5*	4.3*	4.2*	3.2*	3.2*	2.4*	2.5*	1.9*
4.5 m	outriggers down			10.0	10.0	7.3	7.3	5.7	5.7	4.7	4.7	4.0	4.0	3.4	3.4
	outriggers up			10.0	8.1*	7.2*	5.5*	5.2*	4.0*	4.0*	3.0*	3.1*	2.3*	2.5*	1.8*
3.0 m	outriggers down			5.3	5.3	7.5	7.5	5.9	5.9	4.8	4.8	4.0	4.0	3.3	3.3
	outriggers up			5.3	5.3	6.7*	5.1*	5.0*	3.7*	3.8*	2.9*	3.0*	2.2*	2.4*	1.8*

		5.5 m		7.5 m		9.5 m		11.5 m		13.5 m		15.5 m		16.5 m	
															
HEIGHT		FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL	FRONT	LATERAL
15.0 m	outriggers down					5.0	5.0								
	outriggers up					5.0	5.0								
12.0 m	outriggers down					5.0	5.0	4.4	4.4	3.9	3.9				
	outriggers up					5.0	5.0	4.4	4.0*	3.8*	3.0*				
9.0 m	outriggers down					5.2	5.2	4.5	4.5	4.0	4.0	3.5	3.5		
	outriggers up					5.2	5.2	4.5	3.9*	3.7*	2.9*	2.9*	2.2*		
6.0 m	outriggers down			7.1	7.1	5.7	5.7	4.8	4.8	4.1	4.1	3.6	3.6	3.3	3.3
	outriggers up			7.1	7.0*	5.7	4.9*	4.6*	3.6*	3.5*	2.7*	2.8*	2.1*	2.5*	1.8*
4.5 m	outriggers down			7.6	7.6	6.0	6.0	4.9	4.9	4.2	4.2	3.6	3.6	3.3	3.3
	outriggers up			7.6	6.4*	5.9*	4.6*	4.4*	3.4*	3.4*	2.6*	2.7*	2.0*	2.4*	1.8*
3.0 m	outriggers down	5.2	5.2	8.1	8.1	6.2	6.2	5.0	5.0	4.2	4.2	3.6	3.6	3.3	3.3
	outriggers up	5.2	5.2	7.7*	5.8*	5.6*	4.2*	4.2*	3.2*	3.3*	2.5*	2.6*	2.0*	2.4*	1.7*
1.5 m	outriggers down	2.1	2.1	8.3	8.3	6.3	6.3	5.1	5.1	4.2	4.2	3.5	3.5	3.2	3.2
	outriggers up	2.1	2.1	7.2*	5.4*	5.3*	4.0*	4.0*	3.0*	3.2*	2.4*	2.6*	1.9*	2.3*	1.7*
0 m	outriggers down	2.0	2.0	8.3	8.3	6.4	6.4	5.1	5.1	4.2	4.2	3.5	3.5	3.1	3.1
	outriggers up	2.0	2.0	6.8*	5.0*	5.0*	3.7*	3.9*	2.9*	3.1*	2.3*	2.5*	1.8*	2.3*	1.7*
-1.5 m	outriggers down			7.3	7.3	6.2	6.2	5.0	5.0	4.1	4.1	3.3	3.3		
	outriggers up			6.6*	4.8*	4.8*	3.5*	3.8*	2.8*	3.0*	2.2*	2.5*	1.8*		
-3.0 m	outriggers down			7.1	7.1	5.9	5.9	4.8	4.8	3.9	3.9	3.1	3.1		
	outriggers up			6.5*	4.7*	4.7*	3.4*	3.7*	2.7*	3.0*	2.2*	2.4*	1.8*		
-4.5 m	outriggers down			6.8	6.8	5.5	5.5	4.4	4.4	3.5	3.5				
	outriggers up			6.4*	4.6*	4.7*	3.4*	3.6*	2.6*	2.9*	2.1*				

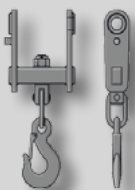
The specified max. loading capacities in kilogrammes (kg) include a stability of 25% or are calculated at 87% of the hydraulic lifting power, as per ISO10567. These values are applicable at the tip of the arm with optimum positioning of the corresponding arm system. Weights of attached load carrying accessories (grab, magnet, load hook, etc.) are not included with the load carrying values. \*Value limited due to excavator stability.

# WORKING RANGES 400MH

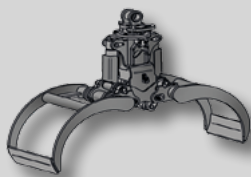
**Working ranges** Loading boom 10.60 m (C84.7i) and stick 6.90 m (D84.16i)



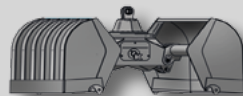
## Attachments



Load hook



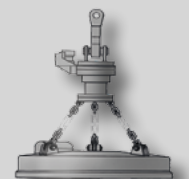
Log grab



Clamshell grab



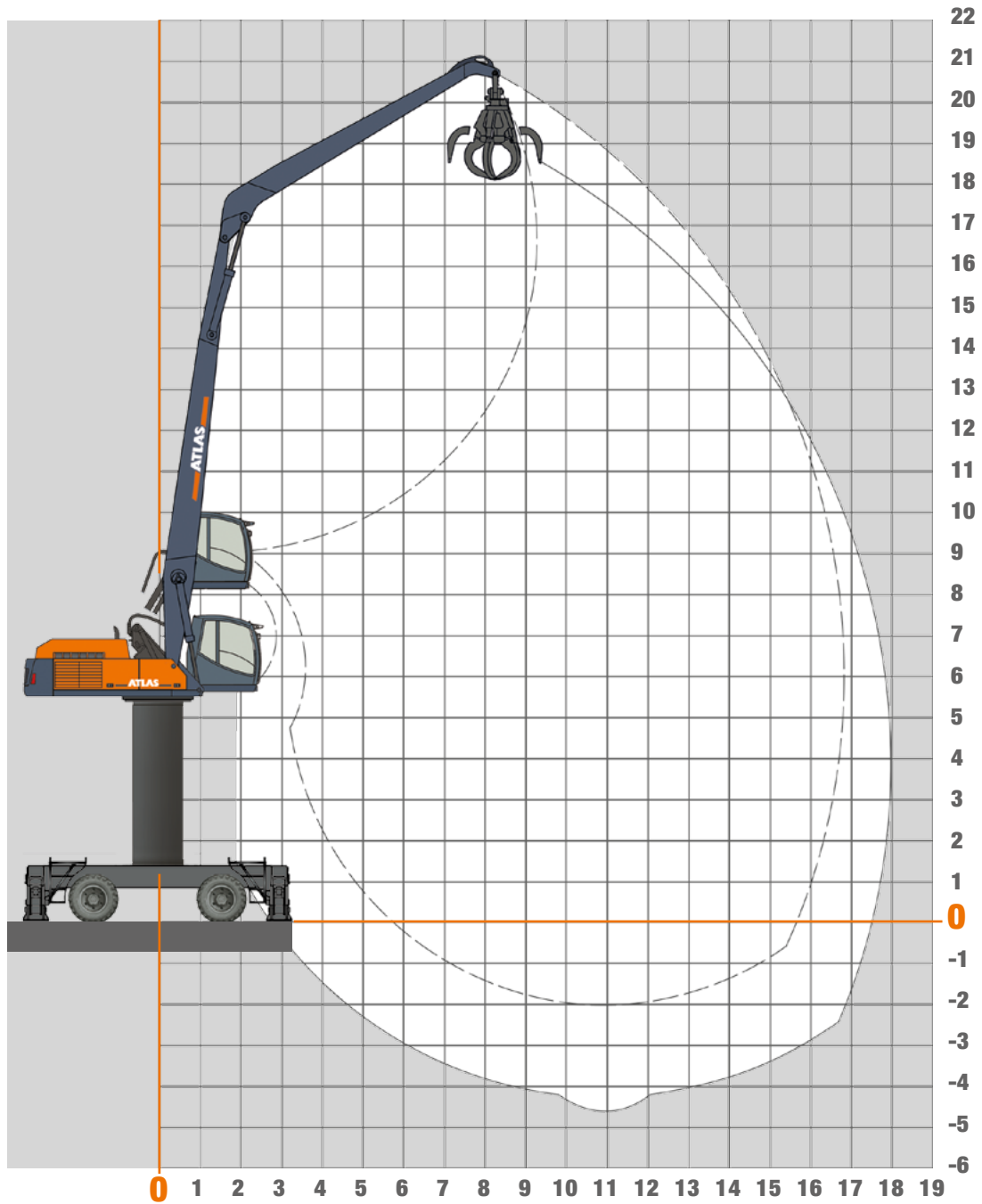
Orange peel grab



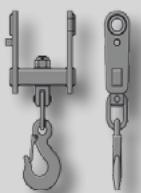
Load lifting magnet

# WORKING RANGES 400MH

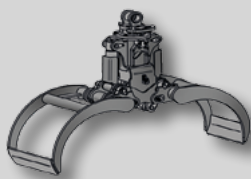
**Working ranges** Loading boom 10.60 m (C84.7i) and stick 7.70 m (D84.17i), pylon 4.0 m



## Attachments



Load hook



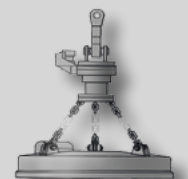
Log grab



Clamshell grab



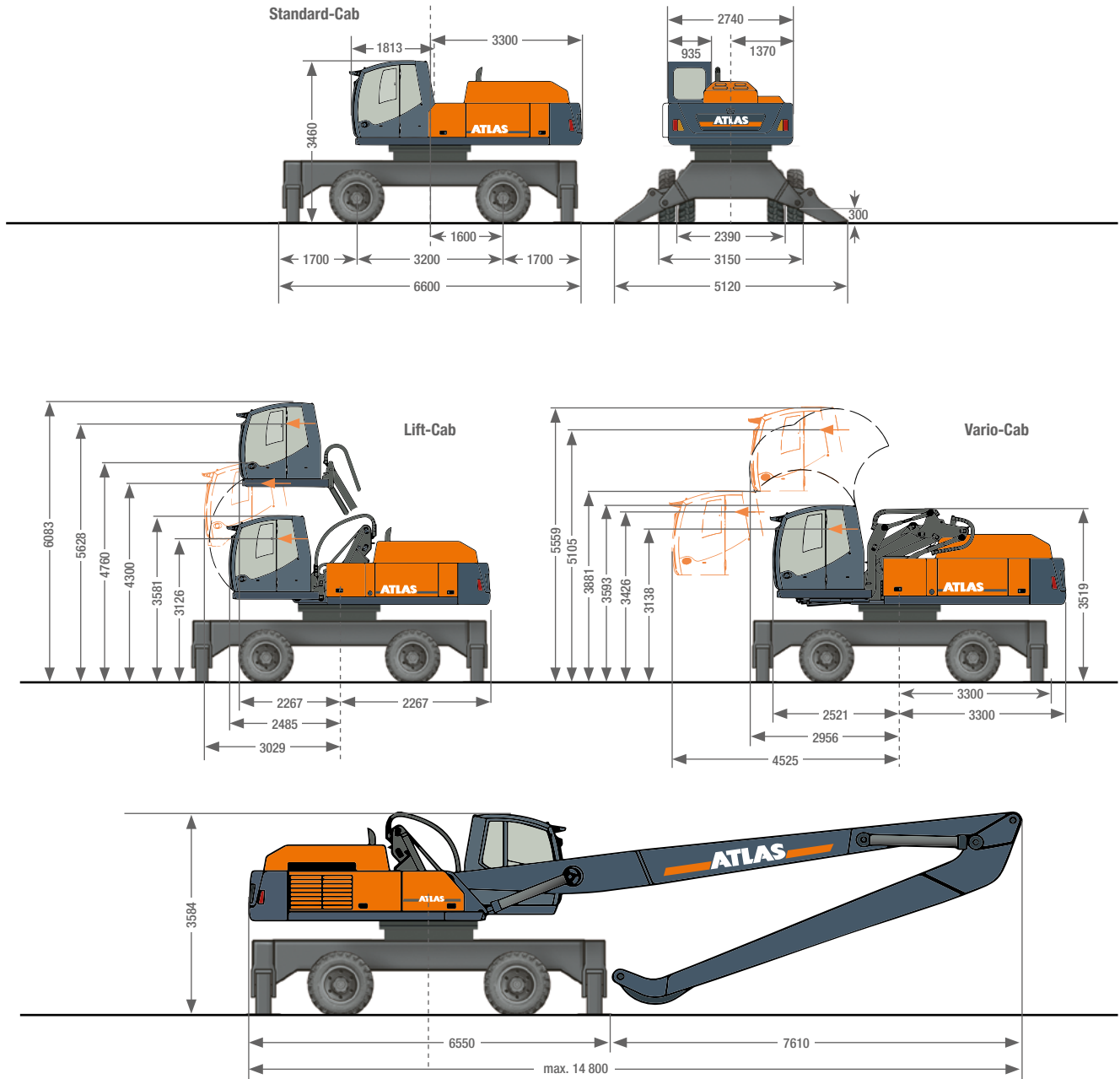
Orange peel grab



Load lifting magnet

# DIMENSION 400MH

## Dimensions



Further cabin versions on demand

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