





# ATLAS

SINCE 1919

**FAST.  
RELIABLE.  
VERSATILE.**

-  28.2 - 31.9 t
-  129 kW (175 HP)
-  10.3 - 16.4 m



## **MATERIAL HANDLING MACHINE 300MH**

# TECHNICAL SPECIFICATION 300MH

## Technical specifications

### ENGINE

Power according to ISO 9249.....129 kW (175 hp)	Cylinder capacity.....6700 cm <sup>3</sup>	Air filter.....Dry air filter
RPM.....1900/min	Number of cylinders.....6	Battery.....2 x 12V/100Ah
Make.....CUMMINS QSB 6.7 (T4 Final)	Borehole/lift.....101 / 126	Alternator.....24 V/100A
Design.....Turbocharger / intercooler	Cooling system.....Water-cooled	Starter.....24V/3.2kW

### HYDRAULIC SYSTEM

<ul style="list-style-type: none"> <li>• Load limit controlled high-performance piston pump</li> <li>• 7 standard consumer loads in one control block</li> <li>• Sensitive, proportional, independent control</li> <li>• Primary and secondary protection against overload</li> <li>• Suction valves for all work functions</li> </ul>	<ul style="list-style-type: none"> <li>• Load-retaining and fine lowering valve in lifting circuit</li> <li>• Pump flow control</li> <li>• Grab and grab-rotating function</li> <li>• Pipe-break protection valves for lifting cylinders</li> <li>• Up to 2 additional control circuits possible</li> </ul>	<ul style="list-style-type: none"> <li>• Max. oil flow.....380 l/min</li> <li>• Max. operating pressure.....340 (370) bar</li> <li>• <b>Operating modes:</b> 3 pre-programmed modes (Fine, Eco, Power)</li> <li>• Proportional grab turning</li> </ul>
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### SWING ASSEMBLY

<ul style="list-style-type: none"> <li>• Swing motor:</li> <li>• Swing gear:</li> <li>• Swing brake:</li> </ul>	<ul style="list-style-type: none"> <li>Axial piston motor with priority valve</li> <li>Planetary transmission</li> <li>Automatic multidisc brake</li> </ul>	<ul style="list-style-type: none"> <li>• Max. swing speed .....11/min</li> <li>• Swing torque .....63.2 kNm</li> </ul>
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### TRACTION DRIVE AND BRAKES

<ul style="list-style-type: none"> <li>• Variable displacement motor</li> <li>• 2-gear transmission</li> <li>• Double-acting brake valve</li> </ul>	<ul style="list-style-type: none"> <li>• Driving direction pre-selection via switch in joystick</li> <li>• Maximum speed .....20 km/h</li> <li>• Terrain speed .....5 km/h</li> </ul>	<ul style="list-style-type: none"> <li>• Crawling speed .....1 km/h</li> <li>• Dual circuit brake system .....Multi-disc</li> <li>• Parking brake .....spring-loaded brake</li> </ul>
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### UNDERCARRIAGE

<ul style="list-style-type: none"> <li>• 56 t special excavator axles</li> </ul>	<ul style="list-style-type: none"> <li>• Steering axle with automatic oscillating axle blocking</li> </ul>	<ul style="list-style-type: none"> <li>• 8 tyres.....12.00 - 20</li> </ul>
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### FILL CAPACITIES

<ul style="list-style-type: none"> <li>• Fuel tank.....382 Liter</li> <li>• Cooling system.....42 Liter</li> </ul>	<ul style="list-style-type: none"> <li>• Engine oil.....20 Liter</li> <li>• Hydraulic tank.....224 Liter</li> </ul>	<ul style="list-style-type: none"> <li>• Hydraulics system.....400 Liter</li> <li>• AdBlue® tank.....18.9 Liter</li> </ul>
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### DRIVER'S CAB

<ul style="list-style-type: none"> <li>• Meets latest safety standards</li> <li>• Extra large entry zone</li> <li>• Spacious leg room</li> <li>• Excellent circumferential visibility</li> <li>• Preparation for radio installation with mute function</li> </ul>	<p><b>CONTROL:</b></p> <ul style="list-style-type: none"> <li>• Ergonomic joystick</li> <li>• Slim steering column, height and tilt adjustable</li> <li>• Indicators, controls and operating switches are clearly arranged</li> </ul>	<p><b>CLIMATE CONTROL:</b></p> <ul style="list-style-type: none"> <li>• Air conditioning equipped as standard</li> <li>• Very good air distribution through optimally arranged nozzles</li> </ul>
<p><b>DRIVER'S SEAT:</b></p> <ul style="list-style-type: none"> <li>• Air-cushioned comfort seat (optional seat heating with headrest)</li> <li>• Arm rests and lumbar support</li> <li>• Seat adjustable separately from console</li> </ul>	<p><b>MONITORING:</b></p> <ul style="list-style-type: none"> <li>• Operating data display screen</li> <li>• Automatic system for monitoring, warning and storage of data</li> </ul>	<p><b>SOUND LEVELS:</b></p> <ul style="list-style-type: none"> <li>• ISO6396 (L<sub>pA</sub>) in driver's cab .....73 dB(A)</li> <li>• 2000/14EG (L<sub>WA</sub>) ambience level .....101 dB(A)</li> </ul>

# WORKING EQUIPMENT 300MH

## Working equipment

### OPERATING WEIGHTS

	LOADING BOOM 6.60 m (C25.5i)	LOADING BOOM 8.00 m (C25.6i)
	Stick 5.00 m (D25.15i)	Stick 6.00 m (D25.16i)
4 outriggers	31.1 t	31.5 t

Operating weight with driver, solid rubber tyres, completely filled implement and 1.5 t for attachments and 1.4 t for lift-cab (option).

### EQUIPMENT

#### BASIC DEVICE Atlas 300MH

- 300MH material handler with quadruple outrigger support and 2 lifting cylinders

#### STANDARD EQUIPMENT:

##### Engine:

- Mono Booms:
  - Loading boom 6.60 m (C25.5i)
  - Loading boom 8.00 m (C25.6i)
- Automatic idle
- Diesel pre-filter
- Engine monitoring

- Slim steering column, height and tilt adjustable
- Ready for electric cooling box
- Different options for storage, compartment for documents
- Seat adjustable separately from console
- Heat-absorbing glass, tinted windows
- Automotive drive and cruise control
- Operating data screen display
- Bottle holder

##### Mono Sticks:

- Stick 5.00 m (D25.15i)
- Stick 6.00 m (D25.16i)

##### Hydraulics:

- Grab and grab-rotating function
- Accumulator for emergency lowering of the arm system
- Pipe break protection valves for lifting cylinders
- Max. load-limit control
- Cylinder end damping

##### Equipment:

- Combined lubricating points for swing bearing and arm equipment

##### Cab:

- Air-conditioning
- Preparation for radio installation with mute function

##### Undercarriage:

- Wet disc brakes
- Tool box in the undercarriage

### ADDITIONAL EQUIPMENT

#### Engine:

- Refueling pump
- Engine speed adjustment via potentiometer
- Auxiliary heating
- Cold start assistance

#### Equipment:

- Automatically controlled and monitored electric central lubrication system

- Lift-Cab (elevation up to 2.7 m)

- Lift-Cab (elevation up to 2.5 m)

- Cab elevation 1.2 m/0.6 m

- LED working lights

#### Cab:

- Cab protection guard
- Beacon light
- Heated driver's seat
- GPS/GSM telemetric system for monitoring of operating data, consumption, position

#### Undercarriage:

- Solid rubber tyres

#### Hydraulics:

- Hydr. adaptor kit, switch supports pairwise in front and back
- Hydr. adaptor kit, switch supports individually
- Bio oil

- Radio CD/MP3, front AUX in, USB

- Thermoelectric cooling box

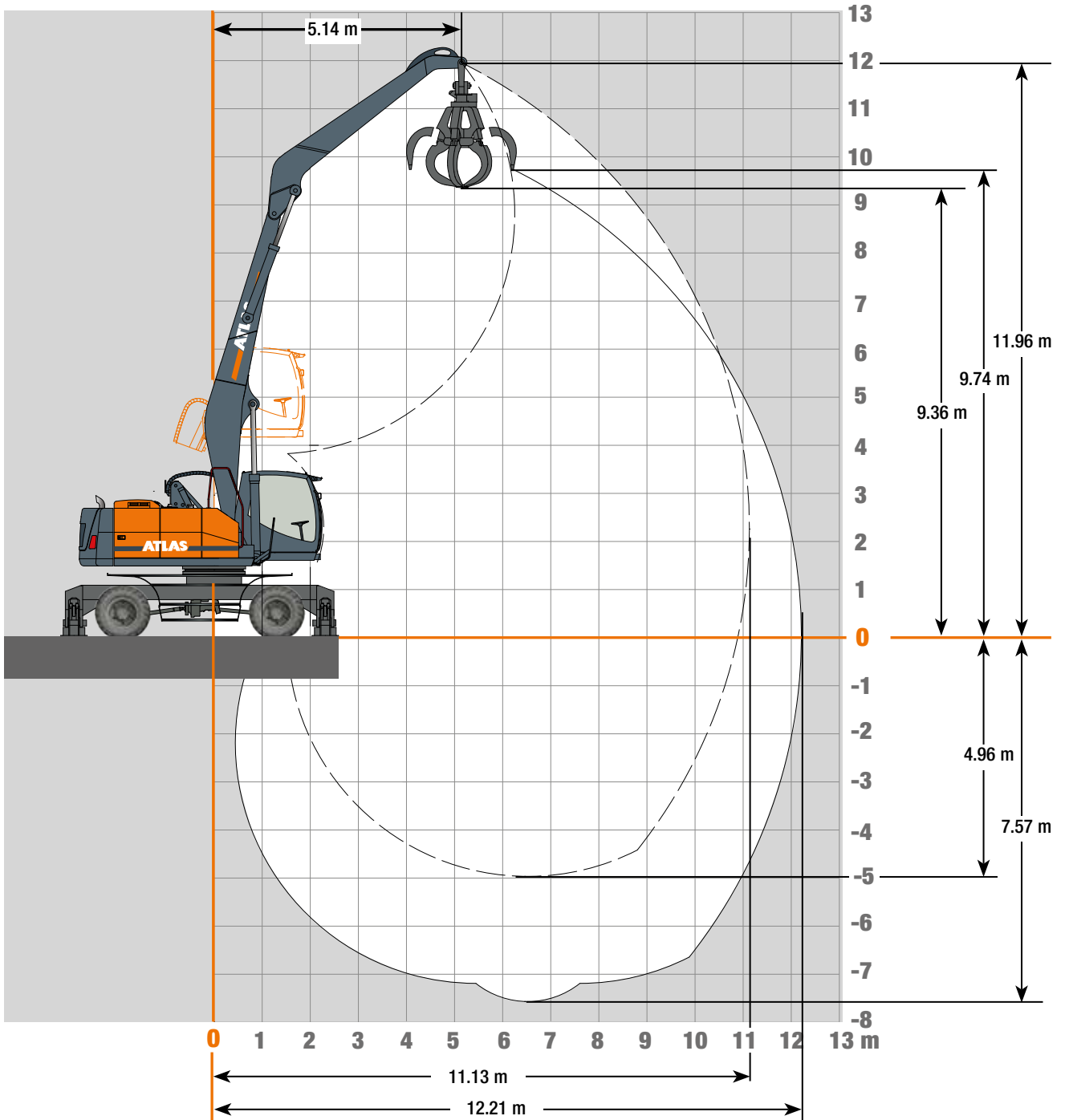
**Other special equipment:** see price list

### ATTACHMENTS

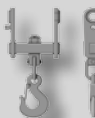
- Clamshell grab
- Load hook
- Log grab
- Orange peel grab
- Load lifting magnet

# WORKING RANGES 300MH

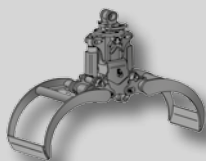
**Working ranges** Loading boom 6.60 m (C25.5i) and stick 5.00 m (D25.15i)



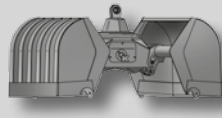
## Attachments



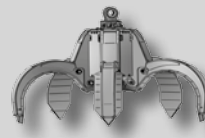
Load hook



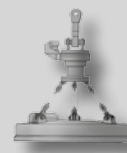
Log grab



Clamshell grab



























Orange peel grab



Load lifting magnet

# LIFTING CAPACITIES 300MH

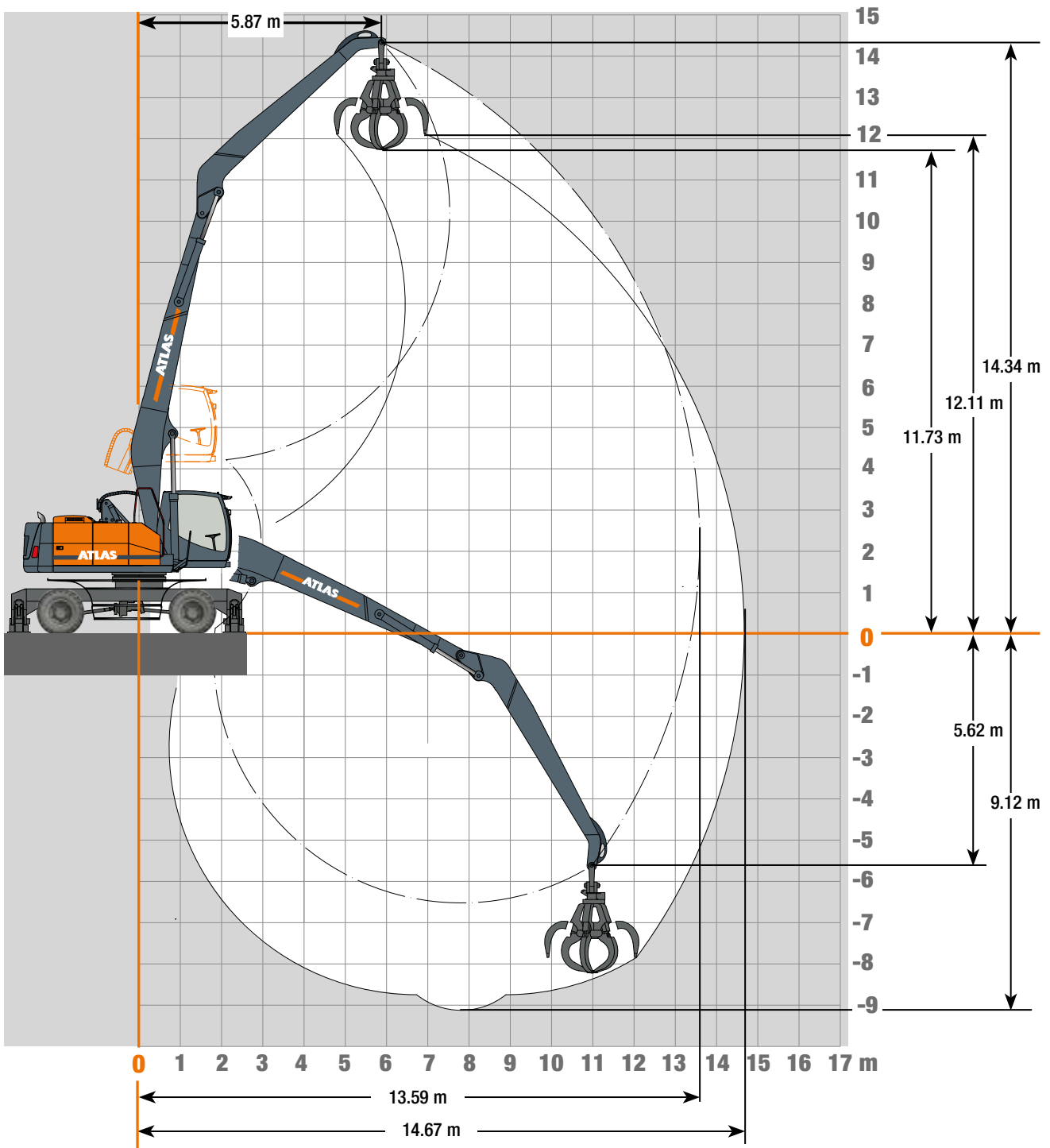
## Lifting capacities Loading boom 6.60 m (C25.5i) and stick 5.00 m (D25.15i)

Lifting Capacities Loading boom 6.60 m (C25.5i) with stick 5.00 m (D25.15i). Max. reach 12.29 m										
HEIGHT	Undercarriage position		3.5 m	4.5 m	5.5 m	6.5 m	7.5 m	8.5 m	9.5 m	11.0 m
+12.0 m	FRONT 	outriggers down			10194					
		outriggers up			10194					
	LATERAL 	outriggers down			10194					
		outriggers up			7222*					
+10.5 m	FRONT 	outriggers down				8571	8210			
		outriggers up				8571	7272*			
	LATERAL 	outriggers down				8571	8210			
		outriggers up				5762*	4516*			
+ 9.0 m	FRONT 	outriggers down				8259	7852	7512		
		outriggers up				8259	7402*	5982*		
	LATERAL 	outriggers down				8259	7852	7512		
		outriggers up				5857*	4631*	3729*		
+ 7.5 m	FRONT 	outriggers down				8407	7908	7472	7085	
		outriggers up				8407	7387*	6001*	4972*	
	LATERAL 	outriggers down				8407	7908	7472	6403*	
		outriggers up				5819*	4618*	3746*	3077*	
+ 6.0 m	FRONT 	outriggers down			9786	8944	8251	7666	7156	6088*
		outriggers up			9786	8944	7270*	5931*	4944*	4179*
	LATERAL 	outriggers down			9786	8944	8251	7644*	6374*	5403*
		outriggers up			7363*	5664*	4514*	3683*	3052*	2549*
+ 4.5 m	FRONT 	outriggers down		12891	11075	9772	8782	7992	7091*	6049*
		outriggers up		12891	11075	8902*	7074*	5802*	4865*	4142*
	LATERAL 	outriggers down		12891	11075	9772	8782	7509*	6290*	5364*
		outriggers up		9507*	6976*	5407*	4341*	3567*	2979*	2515*
+ 3.0 m	FRONT 	outriggers down	20179	15349	12533	10678	9348	8297*	6979*	5982*
		outriggers up	20179	15349	11157*	8533*	6834*	5642*	4760*	4079*
	LATERAL 	outriggers down	20179	15349	12533	10678	8934*	7340*	6181*	5299*
		outriggers up	12638	8667*	6477*	5088*	4127*	3423*	2884*	2457*
+ 1.5 m	FRONT 	outriggers down	3320	17007	13584	11338	9746	8125*	6866*	5920*
		outriggers up	3320	14772*	10590*	8176*	6598*	5483*	4654*	4020*
	LATERAL 	outriggers down	3320	17007	13584	10880*	8682*	7172*	6070*	5237*
		outriggers up	3320	7898*	6005*	4779*	3918*	3279*	2787*	2403*
+ 0 m	FRONT 	outriggers down		10337	13757	11457	9667*	7996*	6790*	5882*
		outriggers up		10337	10205*	7910*	6416*	5364*	4583*	3985*
	LATERAL 	outriggers down		10337	13757	10593*	8488*	7045*	5995*	5200*
		outriggers up		7465*	5684*	4549*	3757*	3172*	2722*	2370*
- 1.5 m	FRONT 	outriggers down		10908	12961	10894	9283	7938*	6761*	5570
		outriggers up		10908	10066*	7798*	6335*	5311*	4556*	3987*
	LATERAL 	outriggers down		10908	12961	10472*	8401*	6989*	5967*	5203*
		outriggers up		7352*	5568*	4453*	3685*	3124*	2698*	2372*
- 3.0 m	FRONT 	outriggers down		13163	11176	9516	8099	6823	5529	
		outriggers up		13163	10082*	7799*	6336*	5323*	4588*	
	LATERAL 	outriggers down		13163	11176	9516	8099	6823	5529	
		outriggers up		7408*	5582*	4453*	3687*	3135*	2727*	
- 4.5 m	FRONT 	outriggers down		9505	8344	7167	5979	4669		
		outriggers up		9505	8344	7167	5979	4669		
	LATERAL 	outriggers down		9505	8344	7167	5979	4669		
		outriggers up		7586*	5701*	4543*	3768*	3223*		

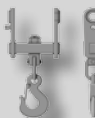
The specified max. loading capacities in kilogrammes (kg) include a stability of 25% or are calculated at 87% of the hydraulic lifting power, as per ISO10567. These values are applicable at the tip of the arm with optimum positioning of the corresponding arm system. Weights of attached load carrying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

# WORKING RANGES 300MH

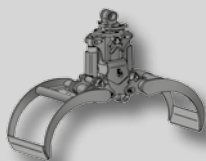
**Working ranges** Loading boom 8.00 m (C25.6i) and stick 6.00 m (D25.16i)



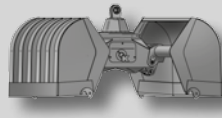
## Attachments



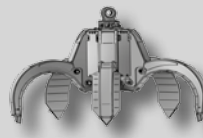
Load hook



Log grab



Clamshell grab































Orange peel grab



Load lifting magnet

# LIFTING CAPACITIES 300MH

## Lifting capacities Loading boom 8.00 m (C25.6i) and stick 6.00 m (D25.16i)

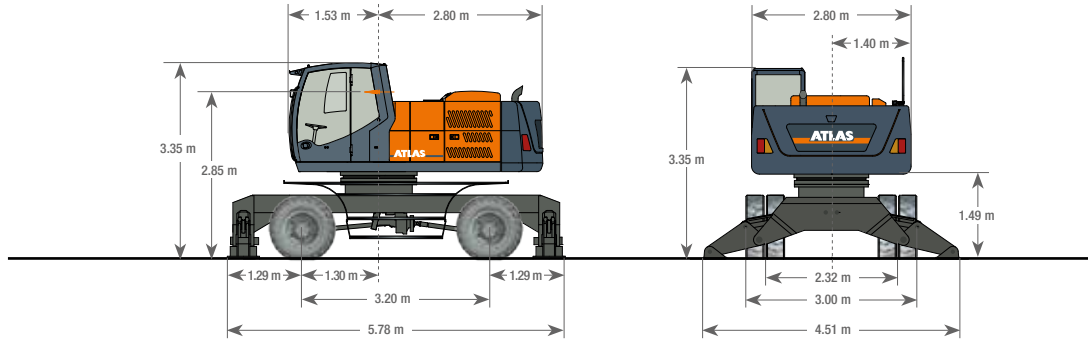
Lifting Capacities Loading Boom 8.00 m (C25.6i) with stick 6.00 m (D25.16i). Max reach 16.36 m													
HEIGHT	Undercarriage position		4,5 m	5,5 m	6,5 m	7,5 m	8,5 m	9,5 m	10,5 m	11,5 m	12,5 m	13,5 m	
+13,5 m	FRONT		outriggers down			7412							
			outriggers up			7384*							
	LATERAL		outriggers down			7412							
			outriggers up			4581*							
+12,0 m	FRONT		outriggers down			6887	6553	6301					
			outriggers up			6887	6158*	5030*					
	LATERAL		outriggers down			6887	6553	6301					
			outriggers up			4816*	3859*	3105*					
+10,5 m	FRONT		outriggers down				6367	6074	5825				
			outriggers up				6254*	5156*	4297*				
	LATERAL		outriggers down				6367	6074	5539*				
			outriggers up				3945*	3219*	2635*				
+9,0 m	FRONT		outriggers down			6782	6396	6059	5761	5357*			
			outriggers up			6782	6244*	5167*	4337*	3669*			
	LATERAL		outriggers down			6782	6396	6059	5580*	4752*			
			outriggers up			4868*	3936*	3229*	2671*	2211*			
+7,5 m	FRONT		outriggers down			7070	6595	6185	5825	5355*	4634*		
			outriggers up			7070	6149*	5104*	4304*	3667*	3140*		
	LATERAL		outriggers down			7070	6595	6185	5545*	4751*	4099*		
			outriggers up			4749*	3850*	3172*	2641*	2210*	1844*		
+6,0 m	FRONT		outriggers down		8309	7547	6927	6410	5967	5302*	4616*		
			outriggers up		8309	7338*	5980*	4984*	4221*	3617*	3123*		
	LATERAL		outriggers down		8309	7547	6927	6410	5460*	4699*	4082*		
			outriggers up		5712*	4540*	3698*	3062*	2565*	2163*	1829*		
+4,5 m	FRONT		outriggers down	11039	10604	9188	8143	7335	6686	6029*	5219*	4566*	4024*
			outriggers up	11039	10604	8833*	7017*	5753*	4821*	4106*	3538*	3075*	2685*
	LATERAL		outriggers down	11039	10604	9188	8143	7335	6259*	5339*	4617*	4032*	3545*
			outriggers up	9327*	6847*	5306*	4255*	3493*	2914*	2458*	2090*	1784*	1521*
+ 3,0 m	FRONT		outriggers down	14900	11973	10073	8733	7732	6870*	5889*	5121*	4501*	3994*
			outriggers up	14900	10799*	8290*	6652*	5497*	4638*	3974*	3445*	3013*	2656*
	LATERAL		outriggers down	14900	11973	10073	8733	7203*	6067*	5202*	4520*	3968*	3516*
			outriggers up	8125*	6129*	4837*	3932*	3262*	2746*	2337*	2003*	1726*	1494*
+1,5 m	FRONT		outriggers down	4762	12878	10694	9155	7899*	6679*	5752*	5024*	4439*	3964*
			outriggers up	4762	10025*	7786*	6306*	5251*	4461*	3845*	3353*	2954*	2627*
	LATERAL		outriggers down	4762	12878	10483*	8390*	6943*	5881*	5068*	4425*	3907*	3486*
			outriggers up	4762	5483*	4401*	3625*	3040*	2584*	2218*	1918*	1670*	1467*
+0 m	FRONT		outriggers down	3994	9851	10842	9267	7681*	6520*	5639*	4949*	4395*	3947*
			outriggers up	3994	9511*	7413*	6033*	5050*	4312*	3739*	3282*	2912*	2611*
	LATERAL		outriggers down	3994	9851	10080*	8100*	6731*	5725*	4956*	4351*	3863*	3468*
			outriggers up	3994	5055*	4079*	3384*	2859*	2448*	2119*	1852*	1631*	1451*
-1,5 m	FRONT		outriggers down	4996	9114	10472	9003	7549*	6424*	5572*	4906*	4375*	
			outriggers up	4996	9114	7219*	5875*	4928*	4222*	3676*	3242*	2893*	
	LATERAL		outriggers down	4996	9114	9870*	7931*	6602*	5631*	4891*	4309*	3844*	
			outriggers up	4996	4876*	3911*	3243*	2749*	2366*	2061*	1814*	1614*	
-3,0 m	FRONT		outriggers down	6520	10081	9575	8314	7262	6360	5551*	4772	3884	
			outriggers up	6520	9260*	7162*	5818*	4880*	4187*	3655*	3238*	2913*	
	LATERAL		outriggers down	6520	10081	9575	7870*	6551*	5594*	4870*	4306*	3865*	
			outriggers up	6445*	4846*	3862*	3193*	2705*	2334*	2043*	1811*	1632*	
-4,5 m	FRONT		outriggers down	8286	9255	8146	7151	6255	5425	4611	3705		
			outriggers up	8286	9255	7208*	5844*	4900*	4209*	3686*	3287*		
	LATERAL		outriggers down	8286	9255	8146	7151	6255	5425	4611	3705		
			outriggers up	6583*	4920*	3901*	3216*	2724*	2354*	2071*	1856*		
-6,0 m	FRONT		outriggers down		6792	6133	5430	4701	3923				
			outriggers up		6792	6133	5430	4701	3923				
	LATERAL		outriggers down		6792	6133	5430	4701	3923				
			outriggers up		5078*	4018*	3309*	2805*	2436*				

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.

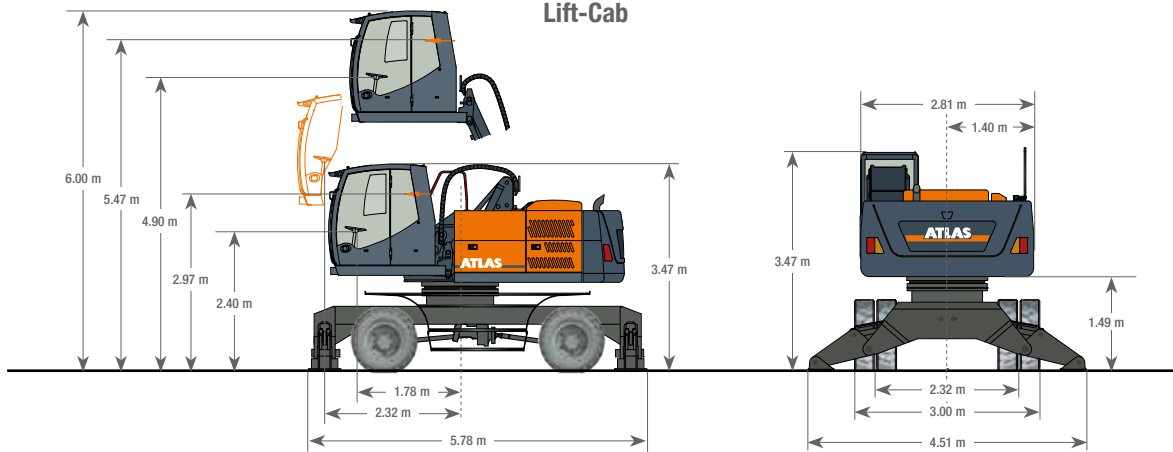
# DIMENSION 300MH

## Dimensions

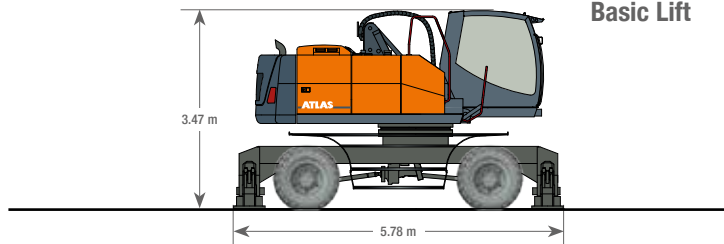
Standard-Cab



Lift-Cab

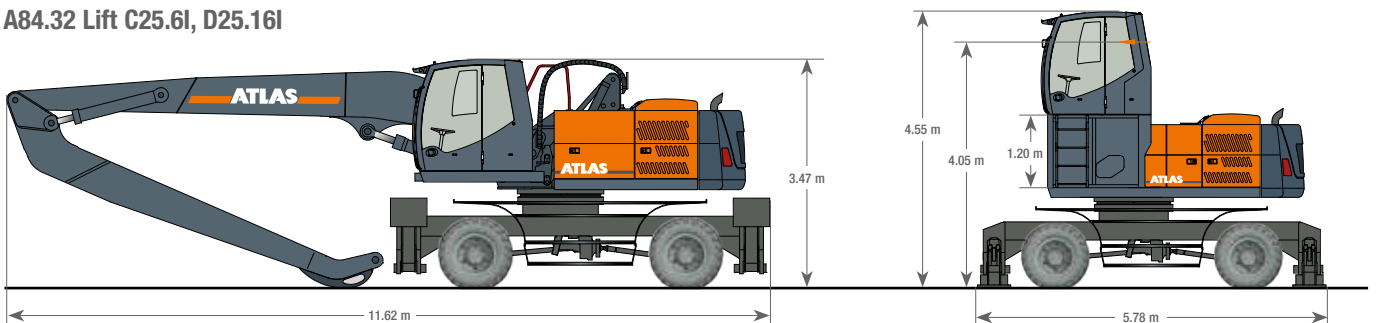


Basic Lift



Cab elevation 1,20 m

A84.32 Lift C25.6I, D25.16I



Further cabin versions on demand.



## **GANDERKESEE FACTORY**

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