



# ATLAS

SINCE 1919

**STABLE.  
STRONG.  
STEADY.**

-  26.1 - 27.4 t
-  129 kW (175 HP)
-  10.3 - 16.4 m



## **MATERIAL HANDLING MACHINE 270MH**

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

# TECHNICAL SPECIFICATION 270MH

## 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 .....1800/min	Number of cylinders.....6	Battery.....2 x 12 V / 100 Ah
Make.....CUMMINS QSB 6.7 EU Stage V	Borehole/lift.....101 / 126	Alternator.....24 V / 70 A
Design .....Turbocharger / intercooler	Cooling system.....Water-cooled	Starter.....24 V / 3.2 kW

### HYDRAULIC SYSTEM

• Load limit controlled high-performance piston pump	• Load-retaining and fine lowering valve in lifting circuit	• Up to 2 additional control circuits possible
• 7 standard consumer loads in one control block	• Pump flow control	• Max. oil flow.....380 l/min
• Sensitive, proportional, independent control	• Grab and grab-rotating function	• Max. operating pressure.....340 (370) bar
• Primary and secondary protection against overload	• Fuel-efficient flow-on-demand control	• Operating modes:: 3 pre-programmed modes (Fine, Eco, Power)
	• Pipe-break protection valves for lifting cylinders	• Proportional grab turning

### SWING ASSEMBLY

• Swing motor:	Axial piston motor with priority valve	• Max. swing speed .....11/min
• Swing gear	Planetary transmission	• Swing torque .....63.2 kNm
• Swing brake:	Automatic multidisc brake	

### TRACTION

• Variable displacement motor	• Maximum speed .....20 km/h	• Tractive force .....132.8 kN
• Power-shift transmission	• Terrain speed .....5 km/h	• Max. gradeability .....55%
• Double-acting brake valve	• Crawling speed .....1 km/h	• Dual circuit brake system .....Multi-disc
• Driving direction pre-selection via switch in joystick		• Parking brake .....Multi-disc

### UNDERCARRIAGE

• 40 t special excavator axles	• Steering axle with automatic oscillating axle blocking	• 8 tyres .....16 PR 10.00 - 20
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### FILL CAPACITIES

• Fuel tank ..... 382 Liter	• Engine oil ..... 20 Liter	• Hydraulics system .....400 Liter
• Cooling system ..... 42 Liter	• Hydraulic tank ..... 224 Liter	• AdBlue® tank..... 18.9 Liter

### DRIVER'S CAB

• Meets latest safety standards	<b>CONTROL:</b>	<b>CLIMATE CONTROL:</b>
• Extra large entry zone	• Ergonomic joysticks with proportional slide control	• Air conditioning with climatronic
• Spacious leg room	• Slim steering column, height and tilt adjustable	• Very good air distribution through optimally arranged nozzles
• Excellent circumferential visibility	• Indicators, controls and operating switches are clearly arranged	
• Preparation for radio installation with mute function		<b>SOUND LEVELS:</b>
	<b>MONITORING</b>	• ISO6396 (L <sub>p</sub> A) in driver's cab .....73 dB(A)
<b>DRIVER'S SEAT:</b>	• Operating data display screen	• 2000/14EG (L <sub>w</sub> A) ambience level .....101 dB(A)
• Comfort seat with headrest	• Automatic system for monitoring, warning and storage of data	
• Arm rests and lumbar support		
• Seat adjustable separately from console		

# WORKING EQUIPMENT 270MH

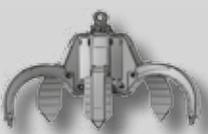
## Working equipment

OPERATING WEIGHTS			
	LOADING BOOM 6.60 m (C25.5i)	LOADING BOOM 8.00 m (C25.6i)	LOADING BOOM 8.00 m (C25.6i)
	Stick 5.00 m (D25.15i)	Stick 6.00 m (D25.16i)	Stick 6.00 m (D25.16is)
4 outriggers	26.5 t	27.0 t	27.4 t

Operating weight with driver, solid rubber tyres, completely filled implement and 1.0 t for attachments and 1.4 t for lift-cab (option).

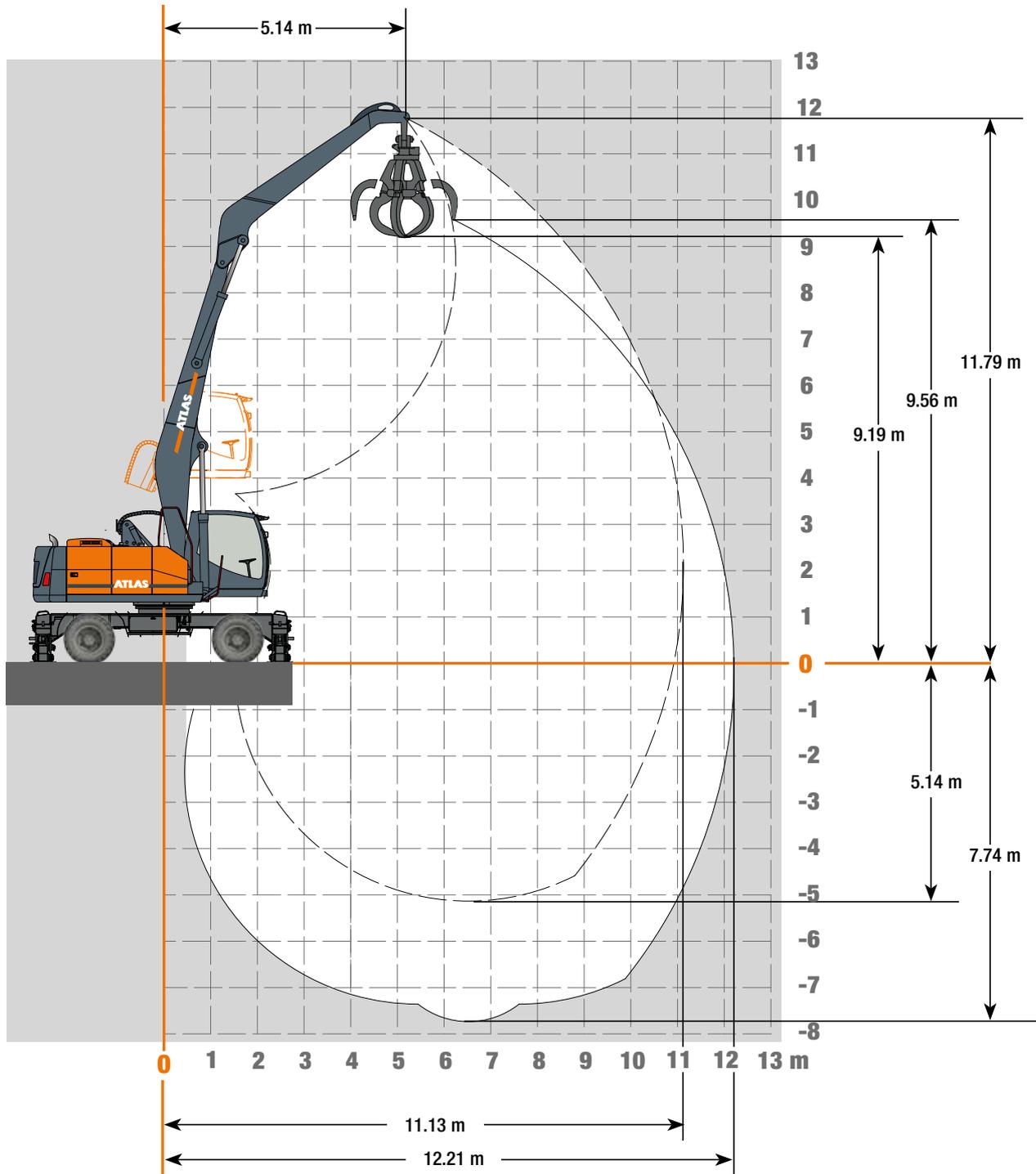
EQUIPMENT		
BASIC DEVICE Atlas 270MH	Standard equipment	
<ul style="list-style-type: none"> <li>270MH material handler with quadruple outrigger support and 2 lifting cylinders (A22.39)</li> </ul>	<b>Engine:</b> <ul style="list-style-type: none"> <li>Automatic idle</li> <li>Diesel pre-filter</li> <li>Engine monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Slim steering column, height and tilt adjustable</li> <li>Different options for storage, compartment for documents</li> <li>Ready for electric cooling box</li> <li>Seat adjustable separately from console</li> <li>Heat-absorbing glass, tinted windows</li> <li>Automotive drive and cruise control</li> <li>Operating data screen display</li> <li>Bottle holder</li> </ul>
<b>Mono Booms:</b> <ul style="list-style-type: none"> <li>Loading boom 6.60 m (C25.5i)</li> <li>Loading boom 8.00 m (C25.6i)</li> </ul>	<b>Hydraulics:</b> <ul style="list-style-type: none"> <li>Grab and grab-rotating function</li> <li>Accumulator for emergency lowering of the arm system</li> <li>Pipe break protection valves for lifting cylinders</li> <li>Max. load-limit control</li> <li>Cylinder end damping</li> </ul>	<b>Equipment:</b> <ul style="list-style-type: none"> <li>Combined lubricating points for swing bearing and arm equipment</li> </ul>
<b>Mono Sticks:</b> <ul style="list-style-type: none"> <li>Stick 5.00 m (D25.15i)</li> <li>Stick 6.00 m (D25.16i)</li> <li>Stick 6.00 m (D25.16is)</li> </ul>	<b>Cab:</b> <ul style="list-style-type: none"> <li>Automatic air-conditioning</li> <li>Preparation for radio installation with mute function</li> </ul>	<b>Undercarriage:</b> <ul style="list-style-type: none"> <li>Power-shift transmission</li> <li>Wet disc brakes</li> <li>Tool box in the undercarriage</li> </ul>
<b>New serial Equipment:</b> <ul style="list-style-type: none"> <li>Rear and side camera on right side</li> </ul>		

ADDITIONAL EQUIPMENT		
<b>Engine:</b> <ul style="list-style-type: none"> <li>Refueling pump</li> <li>Engine speed adjustment via potentiometer</li> <li>Auxiliary heating</li> <li>Cold start assistance</li> </ul>	<b>Equipment:</b> <ul style="list-style-type: none"> <li>Automatically controlled and monitored electric central lubrication system</li> </ul>	<ul style="list-style-type: none"> <li>Lift-Cab (elevation up to 2.7 m)</li> <li>LED working lights</li> </ul>
<b>Hydraulics:</b> <ul style="list-style-type: none"> <li>Hydr. adaptor kit, switch supports pairwise in front and back</li> <li>Hydr. adaptor kit, switch supports individually</li> <li>Bio oil</li> </ul>	<b>Cab:</b> <ul style="list-style-type: none"> <li>Cab protection guard</li> <li>Beacon light</li> <li>GPS/GSM telemetric system for monitoring of operating data, consumption, position</li> <li>Radio CD/MP3, front AUX in, USB</li> <li>Thermoelectric cooling box</li> </ul>	<b>Undercarriage:</b> <ul style="list-style-type: none"> <li>Solid rubber tyres</li> </ul>
		<b>Other special equipment:</b> see price list

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

# WORKING RANGES 270MH

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



# LIFTING CAPACITIES 270MH

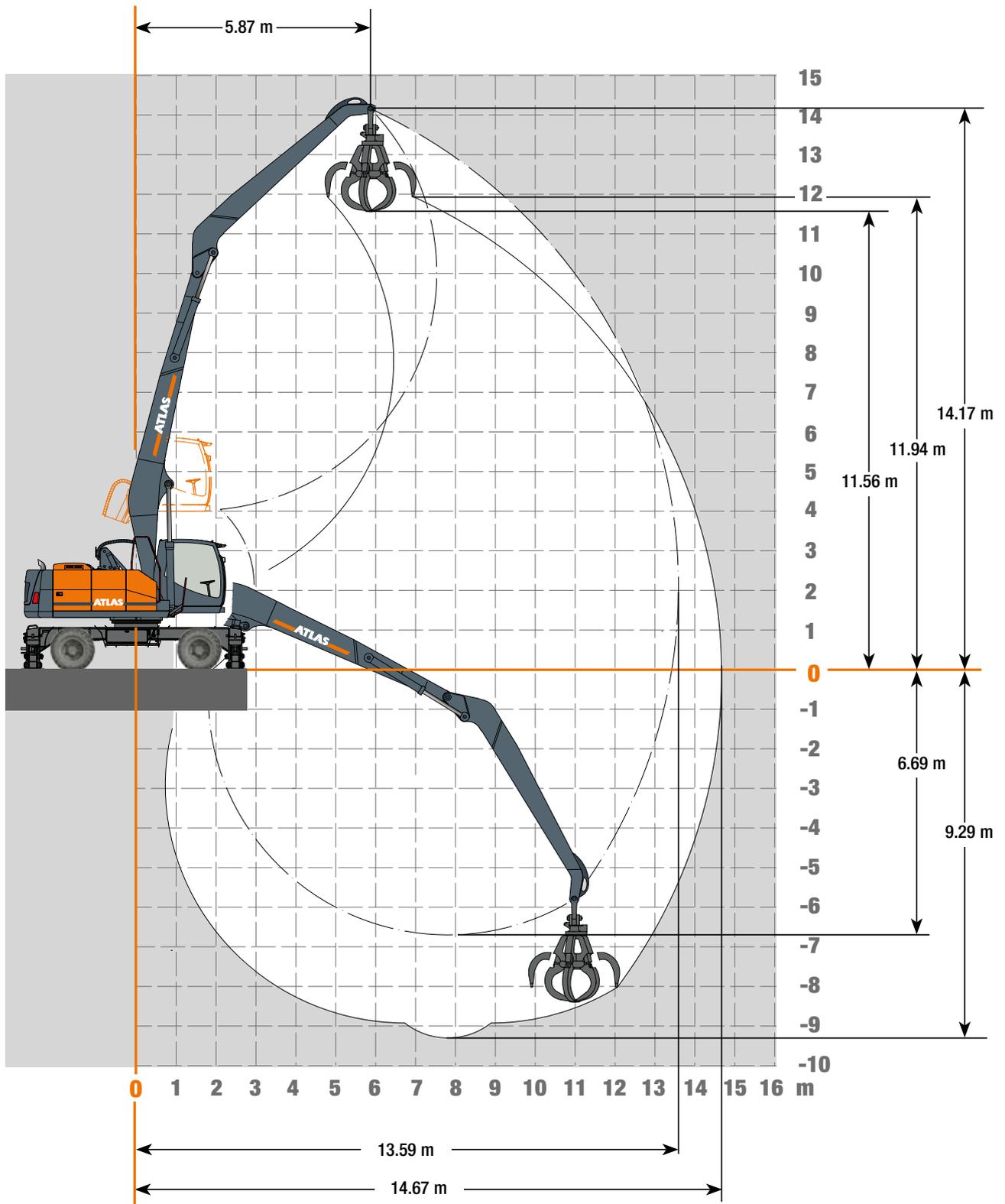
## Lifting Capacities Loading boom 6.60 m (C25.5i) and stick 5.00 m (D25.15i)

Lifting Capacities Loading boom 6.60 m (C25.5i) with stick 5.00 m (D25.15i). Max. reach 12.21 m										
HEIGHT	Undercarriage type		4.0 m	5.0 m	6.0 m	7.0 m	8.0 m	9.0 m	10.0 m	11.0 m
+12.0 m	FRONT 	SDB supported		9059						
		SDB raised		9059						
	LATERAL 	SDB supported		9059						
		SDB raised		7203*						
+10.5 m	FRONT 	SDB supported			7613	7202				
		SDB raised			7613	6286*				
	LATERAL 	SDB supported			7613	7202				
		SDB raised			5651*	4355*				
+ 9.0 m	FRONT 	SDB supported				6882	6538	6262		
		SDB raised				6415*	5110*	4132*		
	LATERAL 	SDB supported				6882	6538	5505*		
		SDB raised				4473*	3548*	2834*		
+ 7.5 m	FRONT 	SDB supported				6932	6517	6154	5827	
		SDB raised				6401*	5122*	4187*	3456*	
	LATERAL 	SDB supported				6932	6517	5562*	4628*	
		SDB raised				4459*	3560*	2885*	2344*	
+ 6.0 m	FRONT 	SDB supported			7919	7262	6715	6245	5825	
		SDB raised			7919	6275*	5044*	4147*	3461*	
	LATERAL 	SDB supported			7919	7262	6697*	5521*	4633*	
		SDB raised			5561*	4345*	3487*	2848*	2348*	
+ 4.5 m	FRONT 	SDB supported		10019	8745	7794	7049	6438	5907	5389
		SDB raised		10019	7749*	6057*	4898*	4054*	3409*	2895*
	LATERAL 	SDB supported		10019	8745	7794	6543*	5422*	4579*	3915*
		SDB raised		6971*	5267*	4146*	3353*	2761*	2299*	1925*
+ 3.0 m	FRONT 	SDB supported	14560	11573	9691	8386	7413	6643	5989	5367
		SDB raised	14135*	9745*	7320*	5780*	4713*	3931*	3331*	2856*
	LATERAL 	SDB supported	14560	11573	9691	7812*	6347*	5293*	4497*	3875*
		SDB raised	8793*	6360*	4885*	3894*	3183*	2646*	2226*	1888*
+ 1.5 m	FRONT 	SDB supported	6428	12729	10413	8830	7667	6755	5983	5248
		SDB raised	6428	9057*	6896*	5502*	4526*	3804*	3249*	2819*
	LATERAL 	SDB supported	6428	12729	9529*	7515*	6149*	5160*	4412*	3836*
		SDB raised	6428	5766*	4508*	3642*	3010*	2528*	2149*	1853*
+ 0 m	FRONT 	SDB supported	4522	12927	10583	8916	7663	6664	5795	4901
		SDB raised	4522	8598*	6581*	5284*	4376*	3708*	3196*	2797*
	LATERAL 	SDB supported	4522	12294*	9186*	7281*	5991*	5059*	4357*	3814*
		SDB raised	4522	5370*	4227*	3444*	2872*	2438*	2099*	1833*
- 1.5 m	FRONT 	SDB supported	5582	11073	10080	8520	7283	6242	5266	
		SDB raised	5582	8440*	6444*	5180*	4305*	3664*	3178*	
	LATERAL 	SDB supported	5582	11073	9037*	7171*	5915*	5013*	4338*	
		SDB raised	5582	5234*	4105*	3349*	2806*	2397*	2082*	
- 3.0 m	FRONT 	SDB supported	7341	10404	8822	7502	6361	5297	4112	
		SDB raised	7341	8458*	6436*	5170*	4303*	3677*	3216*	
	LATERAL 	SDB supported	7341	10404	8822	7159*	5913*	5026*	4112	
		SDB raised	7211*	5249*	4098*	3340*	2804*	2409*	2118*	
- 4.5 m	FRONT 	SDB supported		7753	6719	5700	4660			
		SDB raised		7753	6536*	5249*	4380*			
	LATERAL 	SDB supported		7753	6719	5700	4660			
		SDB raised		5376*	4186*	3412*	2875*			

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 270MH

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



# LIFTING CAPACITIES 270MH

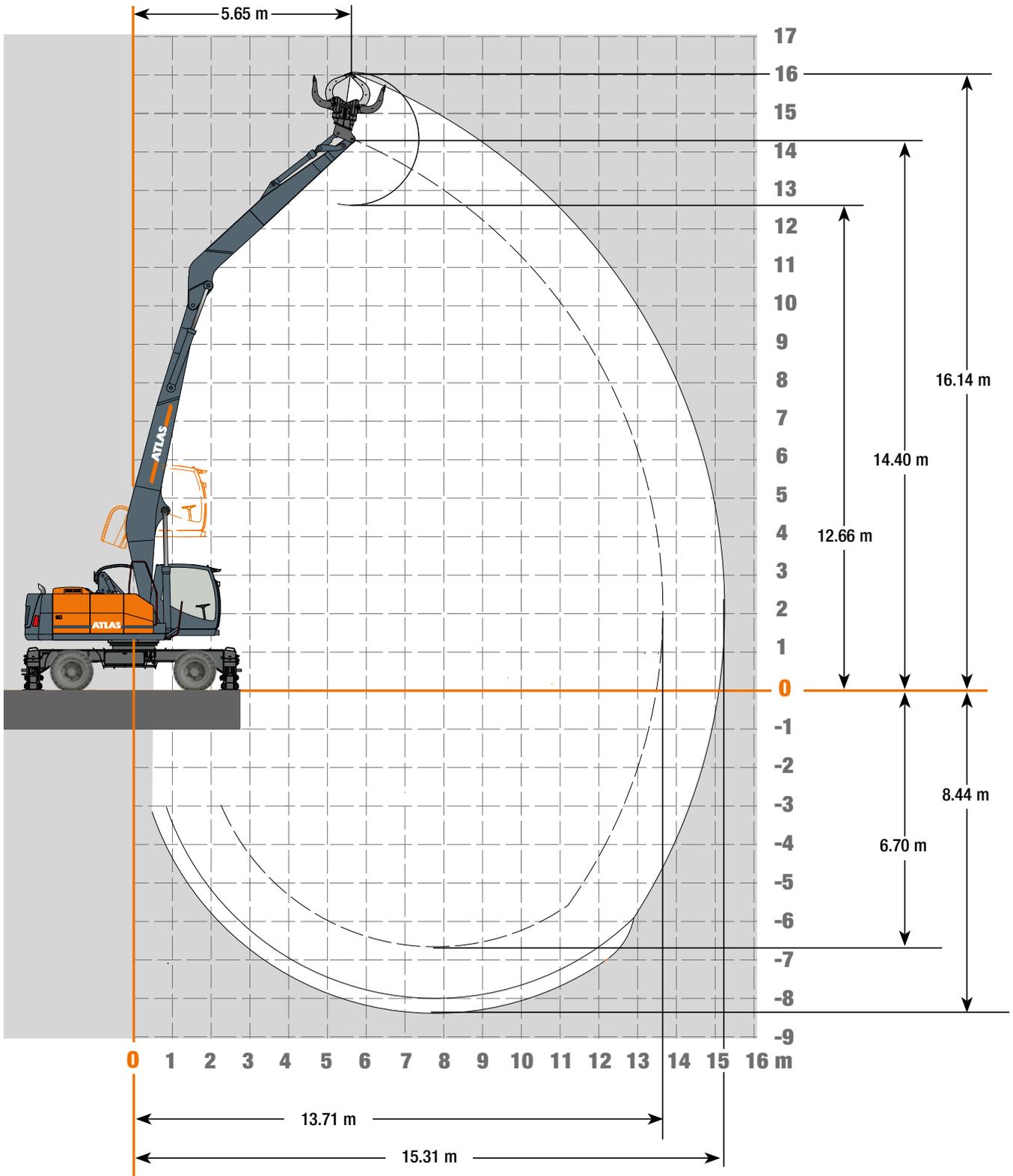
## Lifting Capacities Loading boom 8.00 m (C25.6i) and stick 6.00 m (D25.16i)

Lifting Capacities Loading Boom 8.00 m (C25.6i) with stick 6.00 m (D25.16i). Max reach 14.67 m												
HEIGHT	Undercarriage type		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				6801	5987						
	LATERAL				6801	5632*						
+12.0 m	FRONT					5901	5580	5100				
	LATERAL					5901	4737*	3822*				
+10.5 m	FRONT						5408	5131	4899			
	LATERAL						4844*	3963*	3262*			
+9.0 m	FRONT					5771	5414	5106	4834	4589		
	LATERAL					5771	4844*	3983*	3311*	2763*		
+7.5 m	FRONT					5985	5560	5195	4875	4587	4311	
	LATERAL					5882*	4762*	3930*	3286*	2769*	2334*	
+6.0 m	FRONT				7014	6353	5816	5367	4982	4641	4321	
	LATERAL				7014	5669*	4607*	3819*	3211*	2724*	2323*	
+4.5 m	FRONT		8509	8900	7708	6823	6136	5582	5118	4716	4345	3919*
	LATERAL		8509	8844*	6750*	5372*	4395*	3667*	3102*	2650*	2278*	1962*
+3.0 m	FRONT		12434	10008	8421	7297	6453	5789	5244	4776	4350	3890*
	LATERAL		11036*	8053*	6244*	5027*	4152*	3492*	2976*	2561*	2219*	1935*
+1.5 m	FRONT		3603	10767	8934	7641	6677	5924	5309	4782	4301	3802
	LATERAL		3603	7318*	5761*	4693*	3914*	3319*	2850*	2471*	2160*	1906*
+ 0 m	FRONT		2685	7298	9065	7736	6724	5923	5262	4691	4155	3558
	LATERAL		2685	6814*	5395*	4425*	3715*	3172*	2743*	2399*	2117*	1888*
-1.5 m	FRONT		3349	6479	8767	7522	6539	5739	5059	4448	3841	
	LATERAL		3349	6479	5194*	4261*	3589*	3078*	2678*	2356*	2096*	
-3.0 m	FRONT		4447	7105	8028	6957	6065	5303	4622	3968	3237	
	LATERAL		4447	6538*	5128*	4198*	3535*	3038*	2653*	2348*	2110*	
-4.5 m	FRONT		5735	7786	6842	5996	5236	4535	3853	3107		
	LATERAL		5735	6608*	5160*	4214*	3547*	3053*	2677*	2388*		
-6.0 m	FRONT			5727	5167	4570	3956	3307	2551			
	LATERAL			5727	5167	4570	3956	3307	2551			

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 270MH

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



# LIFTING CAPACITIES 270MH

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

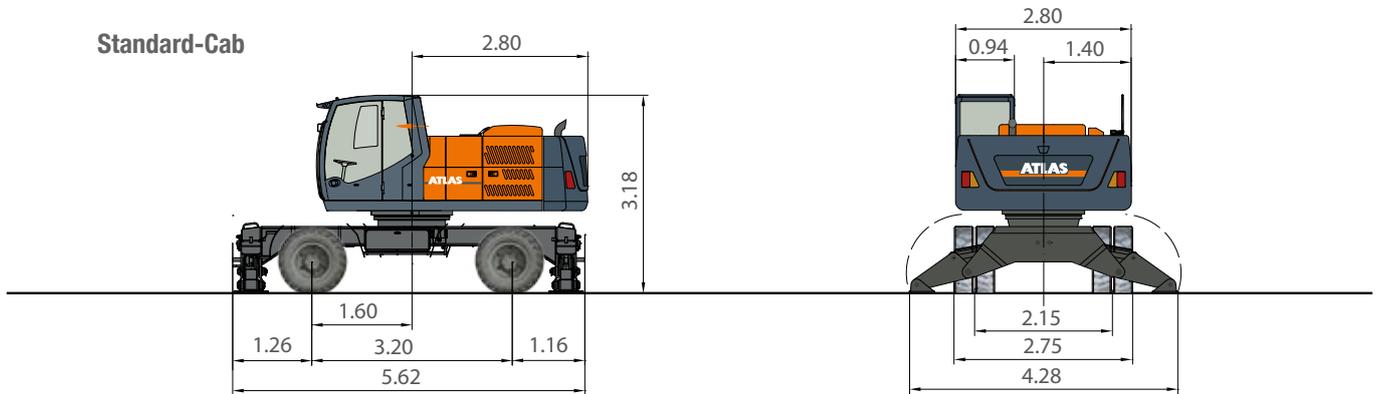
Lifting Capacities Loading Boom 8.00 m (C25.6i) with stick 6.00 m (D25.16is). Max reach 15.31 m												
HEIGHT	Undercarriage type		4.5 m	5.5 m	6.5 m	7.5 m	8.5 m	9.5 m	10.5 m	11.5 m	12.5 m	13.5 m
+13.5 m	FRONT		SDB supported		6822	6077						
	LATERAL		SDB raised		6822	5649*						
+12.0 m	FRONT		SDB supported			5922	5612	5190				
	LATERAL		SDB raised			5920*	4752*	3847*				
+10.5 m	FRONT		SDB supported				5434	5166	4941			
	LATERAL		SDB raised				4854*	3981*	3288*			
+9.0 m	FRONT		SDB supported			5788	5441	5139	4873	4635		
	LATERAL		SDB raised			5788	4854*	4000*	3335*	2792*		
+7.5 m	FRONT		SDB supported			6007	5590	5231	4916	4632	4360	
	LATERAL		SDB raised			5888*	4775*	3949*	3310*	2797*	2367*	
+6.0 m	FRONT		SDB supported		7039	6386	5853	5408	5026	4688	4370	
	LATERAL		SDB raised		7039	5683*	4628*	3844*	3239*	2755*	2356*	
+4.5 m	FRONT		SDB supported	8594	8941	7752	6870	6184	5631	5168	4766	4397
	LATERAL		SDB raised	8594	8861*	6774*	5399*	4425*	3698*	3135*	2684*	2313*
+3.0 m	FRONT		SDB supported	11102*	8105*	6289*	5069*	4192*	3531*	3014*	2598*	2257*
	LATERAL		SDB raised	12525	10083	8488	6887*	5685*	4795*	4109*	3563*	3118*
+1.5 m	FRONT		SDB supported	6977*	5273*	4157*	3370*	2785*	2333*	1973*	1678*	1433*
	LATERAL		SDB raised	3687	10875	9023	7719	6748	5990	5371	4842	4359
+ 0 m	FRONT		SDB supported	3687	7402*	5827*	4750*	3964*	3365*	2893*	2512*	2200*
	LATERAL		SDB raised	3687	10480*	8105*	6548*	5445*	4622*	3983*	3474*	3060*
-1.5 m	FRONT		SDB supported	3687	4655*	3741*	3078*	2574*	2178*	1859*	1597*	1379*
	LATERAL		SDB raised	2772	7378	9172	7827	6805	5996	5330	4755	4216
-3.0 m	FRONT		SDB supported	2772	6920*	5477*	4493*	3774*	3224*	2791*	2444*	2160*
	LATERAL		SDB raised	2772	7378	7727*	6275*	5245*	4474*	3876*	3402*	3018*
-4.5 m	FRONT		SDB supported	2772	4231*	3426*	2843*	2398*	2046*	1762*	1532*	1341*
	LATERAL		SDB raised	3436	6562	8883	7622	6627	5818	5131	4514	3903
-6.0 m	FRONT		SDB supported	3436	6562	5286*	4337*	3654*	3136*	2729*	2403*	2140*
	LATERAL		SDB raised	3436	6562	7521*	6109*	5118*	4381*	3812*	3361*	2997*
-7.5 m	FRONT		SDB supported	3436	4042*	3253*	2700*	2286*	1963*	1704*	1493*	1322*
	LATERAL		SDB raised	4534	7188	8150	7061	6156	5384	4696	4036	3298
-9.0 m	FRONT		SDB supported	4534	6659*	5224*	4277*	3603*	3098*	2706*	2396*	2153*
	LATERAL		SDB raised	4534	7188	7455*	6045*	5065*	4342*	3788*	3353*	3012*
-10.5 m	FRONT		SDB supported	4534	4003*	3198*	2645*	2239*	1928*	1683*	1487*	1335*
	LATERAL		SDB raised	5821	7929	6963	6100	5327	4617	3927	3173	
-12.0 m	FRONT		SDB supported	5821	6728*	5256*	4294*	3615*	3113*	2729*	2435*	
	LATERAL		SDB raised	5821	7929	6963	6063*	5077*	4358*	3812*	3173	
-13.5 m	FRONT		SDB supported	5413*	4063*	3227*	2660*	2251*	1942*	1704*	1523*	
	LATERAL		SDB raised		5864	5283	4671	4044	3385	2620		
-15.0 m	FRONT		SDB supported		5864	5283	4381*	3691*	3188*	2620		
	LATERAL		SDB raised		5864	5283	4671	4044	3385	2620		

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.

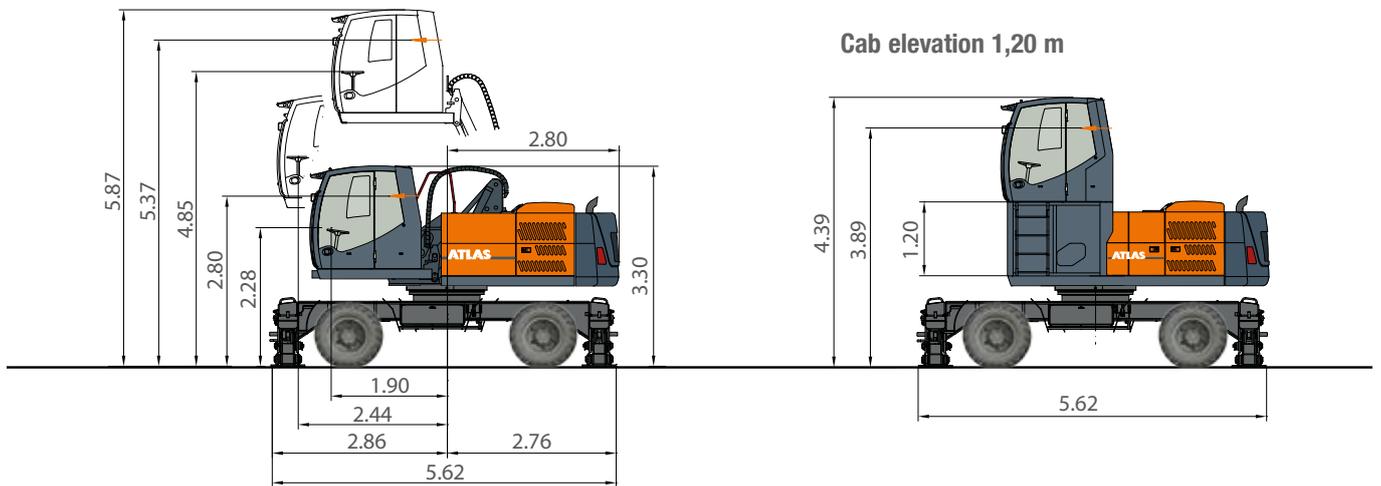
# DIMENSION 270MH

## Dimensions [m]

Standard-Cab



Lift-Cab



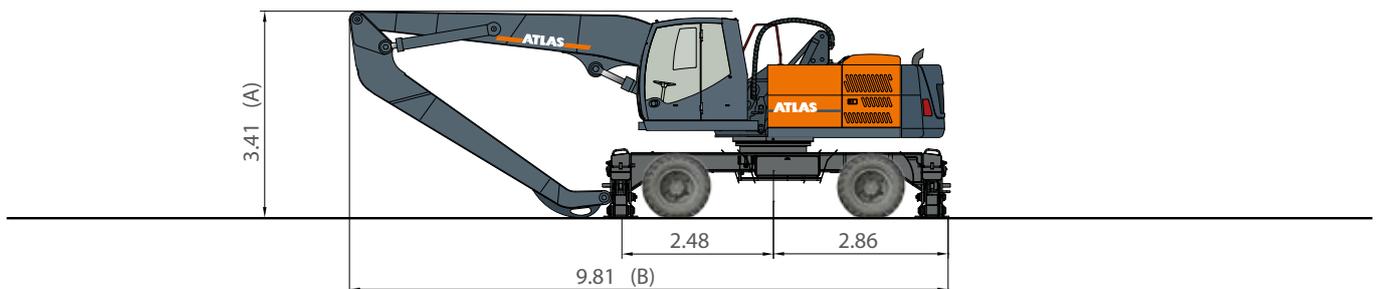
Cab elevation 1,20 m

**A TRANSPORT HEIGHT**

- Loading boom 6.60 m (C25.5i) with stick 5.00 m (D25.15i) .....3.41 m
- Loading boom 8.00 m (C25.6i) with stick 6.00 m (D25.16i) .....3.30 m
- Loading boom 8.00 m (C25.6i) with stick 5.00 m (D25.15i) .....3.30 m

**B TRANSPORT LENGTH**

- Loading boom 6.60 m (C25.5i) with stick 5.00 m (D25.15i) .....9.81 m
- Loading boom 8.00 m (C25.6i) with stick 6.00 m (D25.16i) .....11.26 m
- Loading boom 8.00 m (C25.6i) with stick 5.00 m (D25.15i) .....11.26 m



Further variations of cabs on request



270MH-EN(1) Effective date: 12/2019. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Atlas makes no other warranty, express or implied. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Atlas makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Atlas GmbH and/or its subsidiaries. All rights are reserved. Atlas® is a registered trademark of Atlas GmbH. Copyright © 2019 Atlas GmbH. Ref. no. 6203941

### **GANDERKESEE FACTORY**

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