



ATLAS

SINCE 1919

-  53 - 59.2 t
-  220 KW (295 PS)
-  18.1 - 21.9 m

FAST. RELIABLE. VERSATILE.



MATERIAL HANDLING MACHINE 550MH

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TECHNICAL SPECIFICATION 550MH

Technical Specification

ENGINE

Power according to ISO 9249.....	216 kW (295 PS)	Cylinder capacity	7800 cm ³	Air filter	Dry air filter
RPM	1800/min	Number of cylinders	6	Battery	2 x 12 V / 143 Ah
Make/Model.....	Deutz / TCD 7.8 L6 EU Stage V	Borehole/lift	110 / 136	Alternator.....	28.5 V / 100 A
Design.....	Turbocharger/ intercooler	Cooling system	Water-cooled	Starter.....	24 V / 4.0 kW

HYDRAULIC SYSTEM

• AWE 5 system (load sensing)	• Suction valves for all work functions	• Overload warning device
• 2 Load limit controlled high-performance piston pumps	• Load-retaining and fine-drop valve in lifting circuit	
• Fuel efficient flow-on-demand control	• Pipe break protection valves for lifting cylinders	• Max. oil flow
• Sensitive, proportional, independent control	• Grab and grab-rotating function	2 x 380 l/min
• Primary and secondary protection against overload	• 2 additional circuits for additional consumer loads possible	• Max. operating pressure
		360 bar
		• Operating modes: 3 pre-programmed modes (Fine, Eco, Power)

SWING ASSEMBLY

• Swing motor	Axial piston motor with priority valve	• Max. swing speed
• Swing gear:	Planetary transmission	6,9/min
• Swing brake:	Automatic multidisc brake	• Swing torque
		170.2 kNm

TRACTION DRIVE AND BRAKES

• Variable displacement motor	• Automotive drive and cruise control	• Dual circuit brake system
• Power-shift transmission	• Maximum speed	drum brake
• Double-acting brake valve	16 km/h	• Parking brake
• Driving direction pre-selection via switch in joystick	• Terrain speed	spring-loaded brake
	5 km/h	
	• Crawling speed	
	1 km/h	

UNDERCARRIAGE

• 70 t special excavator axles	• Steering axle with automatic oscillating axle locking	• 8 tyres Solid rubber tyres
		12.00 - 24

FILL CAPACITIES

• Fuel tank	920 liters	• Engine oil	21 liters	• Hydraulics system	1400 liters
• Cooling system	53 liters	• Hydraulic tank	720 liters	• Ad Blue	50 liters

DRIVER'S CAB

• Meets latest safety standards	CONTROL:	CLIMATE CONTROL:
• Extra-wide entrance	• Ergonomic joysticks	• Air conditioning equipped as standard
• Spacious leg room	• Steering via potentiometer	• Very good air distribution through optimally arranged nozzles
• Vario cab can be driven 2.8 m high and 4.16 m forwards	• Indicators, controls and operating switches are clearly arranged	
• Excellent circumferential visibility		SOUND LEVELS:
• Preparation for radio installation with mute function	MONITORING:	• ISO 6396 (L _{pA}) in driver's cab
	• Operating data display screen	70 dB(A)
DRIVER'S SEAT:	• Automatic system for monitoring, warning and storage of data	• 2000/14EG (L _{wA}) ambience level
• Air-cushioned comfort seat (optional seat heating)		105 dB(A)
• Arm rests and lumbar support		
• Seat adjustable separately from console		

WORKING EQUIPMENT 550MH

Working Equipment

OPERATING WEIGHTS

	LOADING BOOM 9.80 m (C94.5i)	LOADING BOOM 12.10 m (C94.6i) / (C94.16iD)
	Stick 7.50 m (D94.15i)	Stick 9.24 m (D94.16i)
4 outriggers	53 t	54 t
1 m pylon	55 t	56 t
2 m pylon	56 t	57 t

Operating weight with driver, solid rubber tyres, completely filled implement and 1.5 t for attachments

EQUIPMENT

BASIC DEVICE ATLAS 550MH

- Material Handler 550MH with quadruple outriggers and 2 lifting cylinders (A 94.32)

Hydraulics:

- Grab and grab-rotating function
- Accumulator for emergency lowering of the arm system
- Pipe-break protection valves for lifting cylinders
- Overload warning device
- Cylinder end-position damping

- Sliding window in cab door

Booms:

- Loading boom 9.80 m (C94.5i)
- Loading boom 12.10 m (C94.6i)
- Loading boom 12.10 m (Banana) (C94.6iD)

- Ready for electric cooling box
- Different options for storage, compartment for documents
- Rear view security camera with LCD colour monitor
- Vario cab can be driven 2.8 m high and 4.16 m forwards

Sticks:

- Stick 7.50 m (D 94.15i) for (C94.15i)
- Stick 9.24 m (D 94.16i) for (C94.16i/C94.16iD)

Cab:

- Air conditioning
- Preparation for radio installation with mute function
- Seat adjustable separately from console
- Heat-insulating glass, tinted windows
- Automotive driving and cruise control
- Operating data display screen

Equipment:

- Automatic central lubrication system

STANDARD EQUIPMENTG:

Engine:

- Automatic idle
- Diesel pre-filter
- Engine monitoring

Undercarriage:

- Tool box in the undercarriage

ADDITIONAL EQUIPMENT

Engine:

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

Cab:

- Cab protection guard
- Beacon light
- Heated driver's seat
- Radio/CD/MP3, front AUX in, USB
- Cab elevation
- GPS/GSM Telemetriebox, for monitoring of operating data, fuel consumption, location
- Head rest
- Working lights, LED
- Electric cooling box

Vario special only in combination with 17.2 t counterweight

- 17.2 t heavy counterweight

Hydraulics:

- Hydraulic kit, to operate front and rear supports separately
- Bio oil

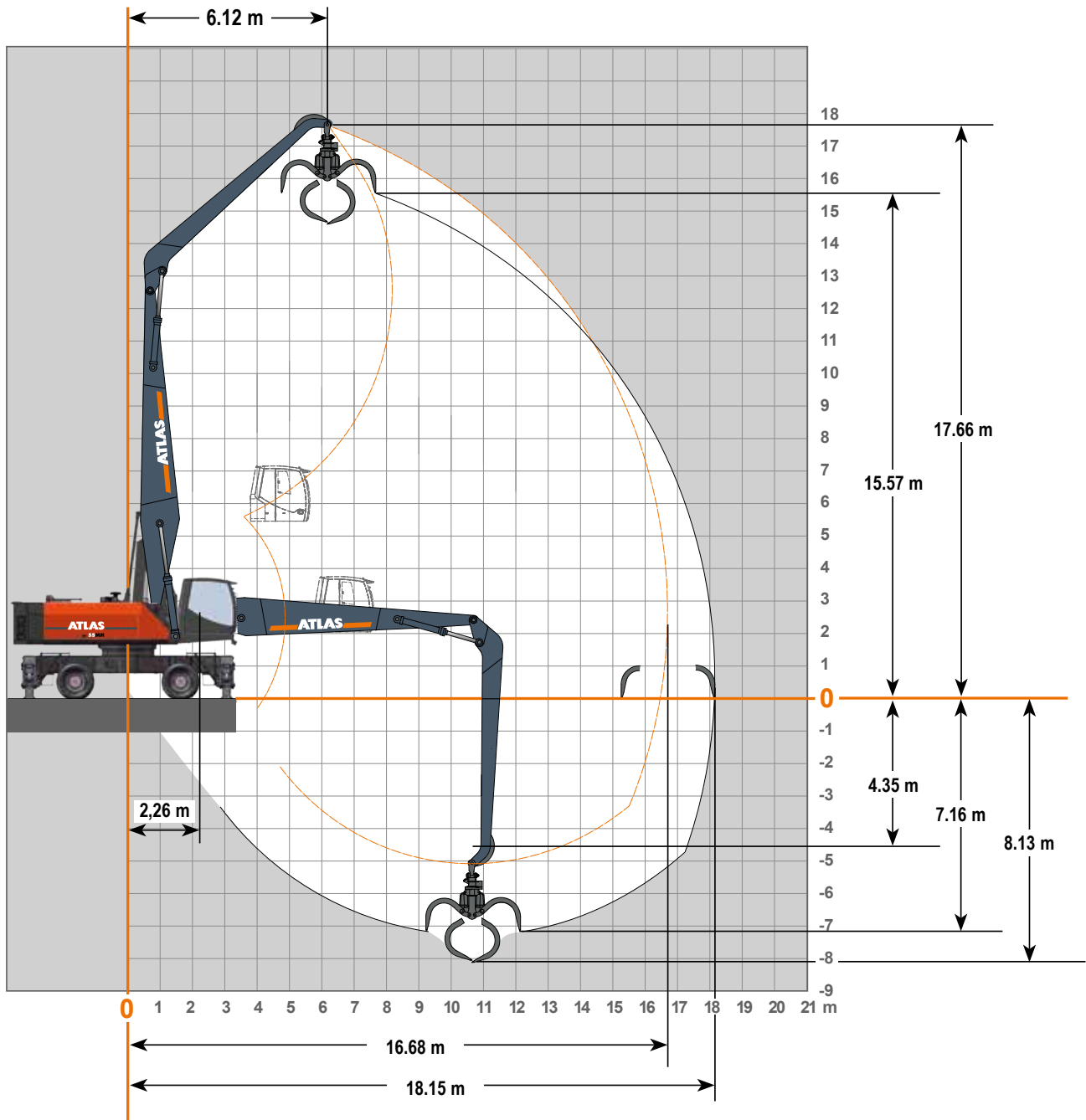
Other special equipment: See price list

ATTACHMENTS

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

WORKING RANGES 550MH

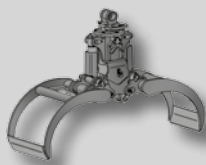
Working Ranges Loading boom 9.80 m (C94.5i) with Stick 7.50 m (D94.15i)



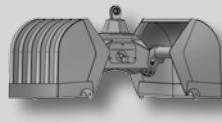
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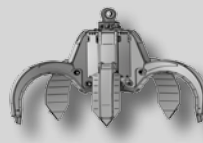
Load hook



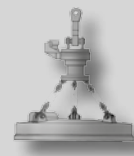
Log grab



Clamshell grab



































Orange peel grab



Load lifting magnet

LIFTING CAPACITIES 550MH

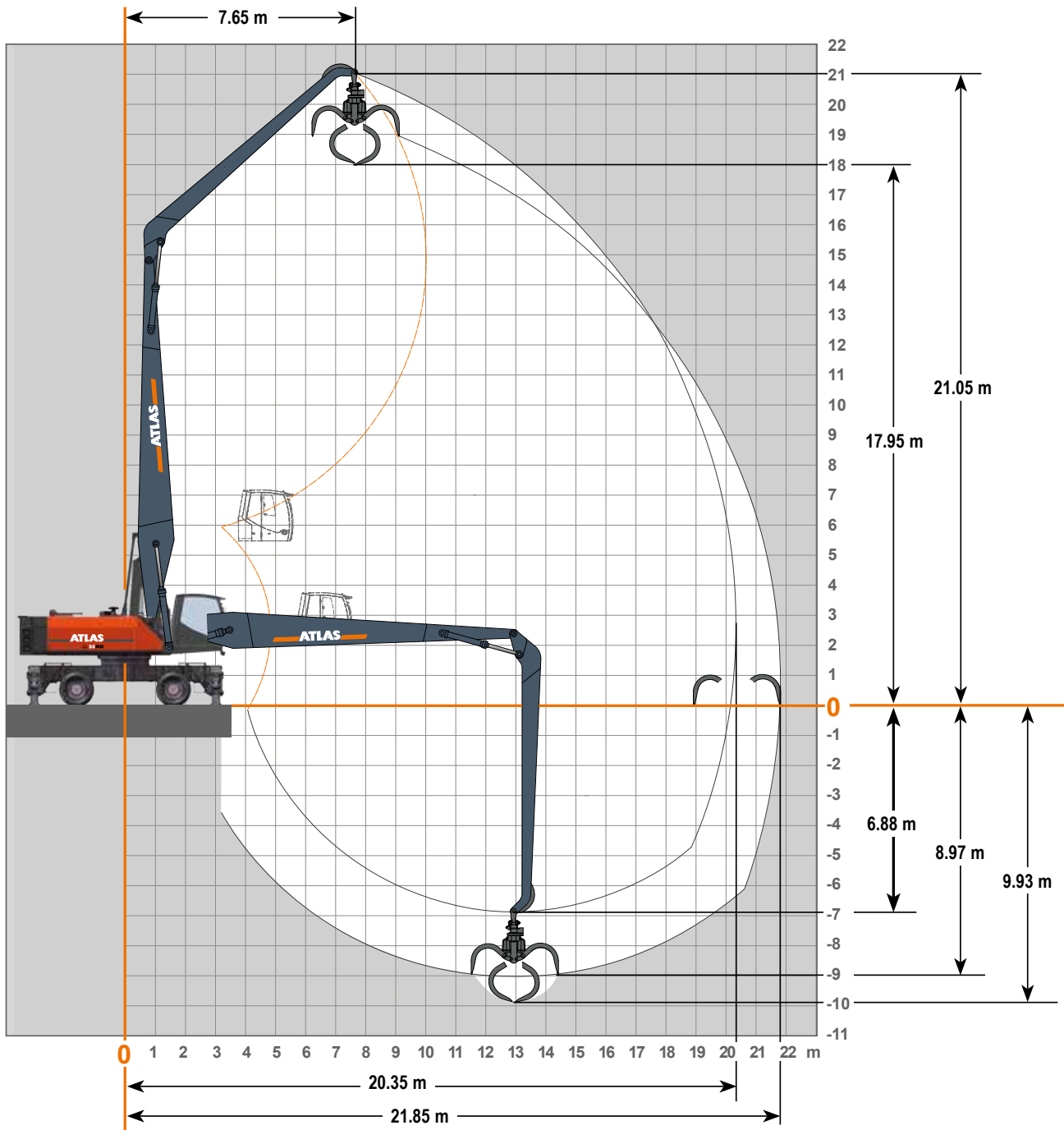
Lifting Capacities Loading boom 9.80 m (C94.5i) and stick 7.50 m (D94.15i)

Lifting Capacities Loading boom 9.80 m (C94.5i) with stick 7.50 m (D 94.15i). Max. reach 16.70 m											
HEIGHT	Undercarriage type		6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m
+17.5 m	FRONT		SDB supported SDB raised	11977 11977							
	LATERAL		SDB supported SDB raised	11977 11977							
+16.5 m	FRONT		SDB supported SDB raised		10262 10262						
	LATERAL		SDB supported SDB raised		10262 10262						
+15.0 m	FRONT		SDB supported SDB raised		10804 10804	8804 8804	8180 8180				
	LATERAL		SDB supported SDB raised		10804 10804	8804 8804	8180 8129*				
+13.5 m	FRONT		SDB supported SDB raised		11268 11268	8584 8584	7966 7966	7487 7487			
	LATERAL		SDB supported SDB raised		11268 11268	8584 8584	7966 7966	7487 6596*			
+12.0 m	FRONT		SDB supported SDB raised		11302 11302	8579 8579	7939 7939	7420 7420	6997 6694*		
	LATERAL		SDB supported SDB raised		11302 11302	8579 8579	7939 7939	7420 6645*	6997 5390*		
+10.5 m	FRONT		SDB supported SDB raised		10891 10891	8778 8778	8067 8067	7484 7484	6999 6699*		
	LATERAL		SDB supported SDB raised		10891 10891	8778 8778	8067 8067	7484 6612*	6999 5395*		
+ 9.0 m	FRONT		SDB supported SDB raised		10246 10246	9176 9176	8333 8333	7 652 7652	7088 6641*	6611 5546*	
	LATERAL		SDB supported SDB raised		10246 10246	9176 9176	8333 8066*	7652 6510*	7088 5339*	6611 4418*	
+7.5 m	FRONT		SDB supported SDB raised	10587 10587	11136 11136	9758 9758	8717 8717	7901 7880*	7240 6534*	6685 5488*	
	LATERAL		SDB supported SDB raised	10587 10587	11136 11136	9758 9758	8717 7833*	7901 6350*	7240 5236*	6685 4362*	
+6.0 m	FRONT		SDB supported SDB raised	13289 13289	122 92 12292	10481 10481	9185 9185	8204 7668*	7429 6392*	6787 5400*	
	LATERAL		SDB supported SDB raised	13289 13289	12292 12292	10481 9465*	9185 7534*	8204 6146*	7429 5098*	6787 4277*	
+ 4.5 m	FRONT		SDB supported SDB raised	17309 17309	13574 13574	11263 11246*	9682 9021*	8524 7427*	7627 6229*	6892 5295*	
	LATERAL		SDB supported SDB raised	17309 15623*	13574 11519*	11263 8952*	9682 7195*	8524 5915*	7627 4941*	6892 4174*	
+ 3.0 m	FRONT		SDB supported SDB raised	15162 15162	14745 13685*	11984 10695*	10141 8658*	8815 7181*	7800 6061*	6972 5183*	6232 4477*
	LATERAL		SDB supported SDB raised	15162 14164*	14745 10688*	11984 8430*	10141 6848*	8815 5678*	7800 4779*	6972 4066*	6232 3488*
+ 1.5 m	FRONT		SDB supported SDB raised	5430 5430	15553 12935*	12518 10204*	10488 8326*	9028 6952*	7910 5904*	6995 5079*	
	LATERAL		SDB supported SDB raised	5430 5430	15553 9986*	12518 7965*	10488 6530*	9028 5458*	7910 4627*	6995 3965*	
+ 0 m	FRONT		SDB supported SDB raised	4618 4618	13430 12409*	12766 9825*	10653 8055*	9111 6760*	7917 5771*	6924 4995*	
	LATERAL		SDB supported SDB raised	4618 4618	13430 9495*	12766 7606*	10653 6272*	9111 5273*	7917 4498*	6924 3883*	
-1.5 m	FRONT		SDB supported SDB raised	5143 5143	11251 11251	12670 9576*	10581 7863*	9019 6622*	7780 5680*	6715 4944*	
	LATERAL		SDB supported SDB raised	5143 5143	11251 9218*	12670 7370*	10581 6088*	9019 5140*	7780 4410*	6715 3834*	
-3.0 m	FRONT		SDB supported SDB raised	6127 6127	11202 11202	12211 9462*	10242 7769*	8705 6551*	7439 5636*	6285 4931*	
	LATERAL		SDB supported SDB raised	6127 6127	11202 9119*	12211 7262*	10242 5998*	8705 5072*	7439 4368*	6285 3821*	
-4.5 m	FRONT		SDB supported SDB raised				9549 7748*	8088 6541*			
	LATERAL		SDB supported SDB raised				9549 5978*	8088 5062*			

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 550MH

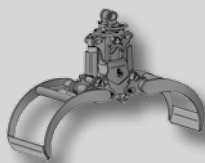
Working Ranges Loading boom 12.10 m (C94.6i) with stick 9.24 m (D94.16i)



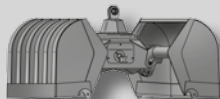
Attachments



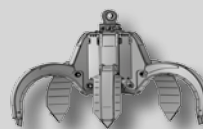
Load hook



Log grab



Clamshell grab







































Orange peel grab



Load lifting magnet

LIFTING CAPACITIES 550MH

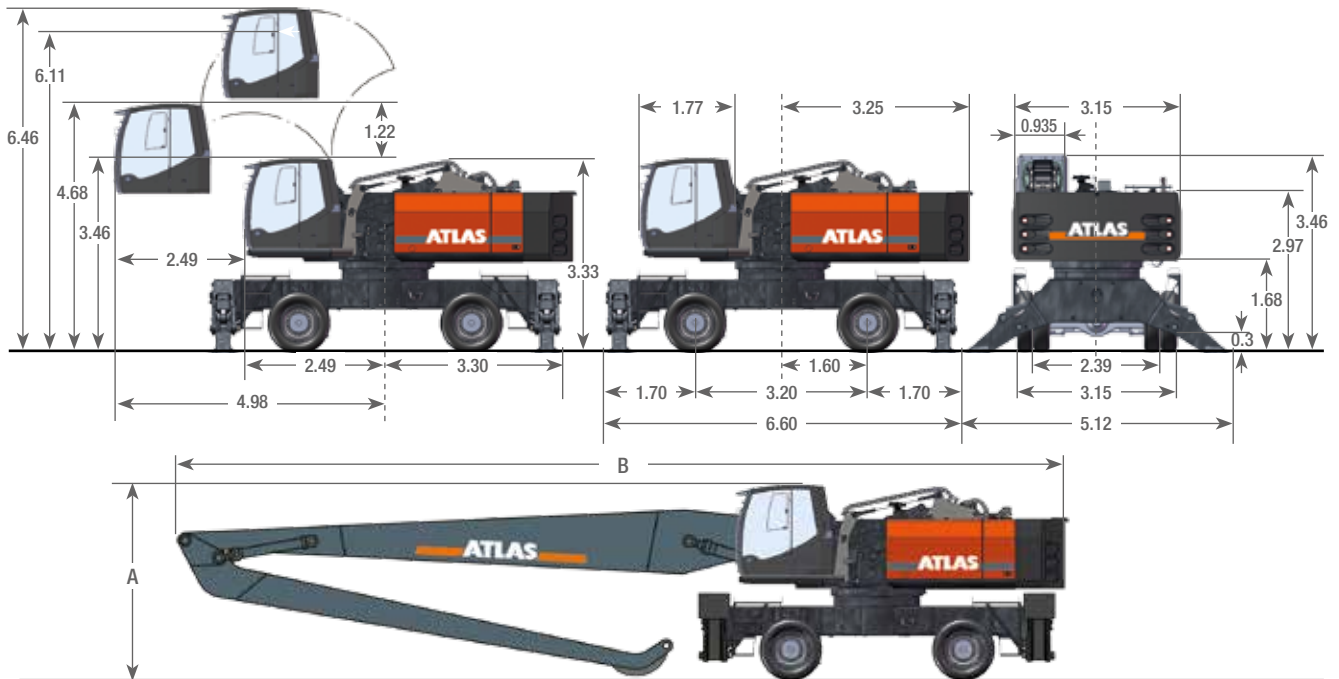
Lifting Capacities Loading boom 12.10 m (C94.6iB) and stick 9.24 m (D94.16i)

Lifting Capacities Loading boom 12.10 m (C94.6iB) with stick 9.24 m (D 94.16i). Max. reach 20.40 m											
HEIGHT	Undercarriage type		8.0 m	9.5 m	11.0 m	12.5 m	14.0 m	15.5 m	17.0 m	18.5 m	20.0 m
+19.5 m	FRONT 	SDB supported		7454							
	LATERAL 	SDB raised		7454							
+18.0 m	FRONT 	SDB supported		7301	6478	5939					
	LATERAL 	SDB raised		7301	6478	5939					
+16.5 m	FRONT 	SDB supported		7655	6351	5819	5391				
	LATERAL 	SDB raised		7655	6351	5819	5391				
+15.0 m	FRONT 	SDB supported		7775	6313	5778	5340	4975			
	LATERAL 	SDB raised		7775	6313	5778	5340	4975			
+13.5 m	FRONT 	SDB supported		7671	6356	5804	5347	4962			
	LATERAL 	SDB raised		7671	6356	5804	5347	4962			
+12.0 m	FRONT 	SDB supported		7329	6479	5890	5403	4991	4637		
	LATERAL 	SDB raised		7329	6479	5890	5403	4991	4637		
+10.5 m	FRONT 	SDB supported		7481	6678	6032	5501	5054	4672	4335	
	LATERAL 	SDB raised		7481	6678	6032	5501	5054	4672	4335	
+9.0 m	FRONT 	SDB supported	8910	7864	6946	6221	5633	5143	4727	4362	
	LATERAL 	SDB raised	8910	7864	6946	6221	5633	5143	4727	4362	
+7.5 m	FRONT 	SDB supported	9781	8336	7269	6446	5789	5250	4795	4399	
	LATERAL 	SDB raised	9781	8336	7269	6446	5789	5250	4795	4399	
+6.0 m	FRONT 	SDB supported	10605	8865	7624	6689	5957	5364	4868	4438	
	LATERAL 	SDB raised	10605	8865	7624	6689	5957	5364	4868	4438	
+4.5 m	FRONT 	SDB supported	11438	9394	7975	6929	6121	5474	4935	4470	4042
	LATERAL 	SDB raised	11438	9394	7975	6929	6121	5474	4935	4470	4042
+3.0 m	FRONT 	SDB supported	12140	9852	8284	7140	6264	5565	4986	4486	4022
	LATERAL 	SDB raised	11387*	9054*	7393*	6150*	5186*	4417*	3789*	3266*	2825*
+1.5 m	FRONT 	SDB supported	9249	10173	8510	7295	6365	5623	5008	4473	3970
	LATERAL 	SDB raised	9249	10173	8510	7295	6365	5623	5008	4473	3970
+0 m	FRONT 	SDB supported	6026	10308	8619	7369	6405	5632	4986	4417	
	LATERAL 	SDB raised	6026	7985*	6613*	5573*	4756*	4095*	3552*	3099*	
-1.5 m	FRONT 	SDB supported	5365	10233	8585	7340	6366	5574	4905	4306	
	LATERAL 	SDB raised	5365	7654*	6345*	5363*	4593*	3972*	3463*	3042*	
-3.0 m	FRONT 	SDB supported	5495	9951	8397	7189	6231	5436	4749	4111	
	LATERAL 	SDB raised	5495	7460*	6170*	5213*	4477*	3887*	3405*	3009*	
-4.5 m	FRONT 	SDB supported	5979	9452	8039	6907	5978	5189	4484	3794	
	LATERAL 	SDB raised	5979	7377*	6081*	5137*	4413*	3840*	3378*	3004*	
-6.0 m	FRONT 	SDB supported			7482	6452	5574	4798			
	LATERAL 	SDB raised			6063*	5114*	4396*	3833*			

The specified max. loading capacities in kilograms (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 550MH

Dimensions [m]



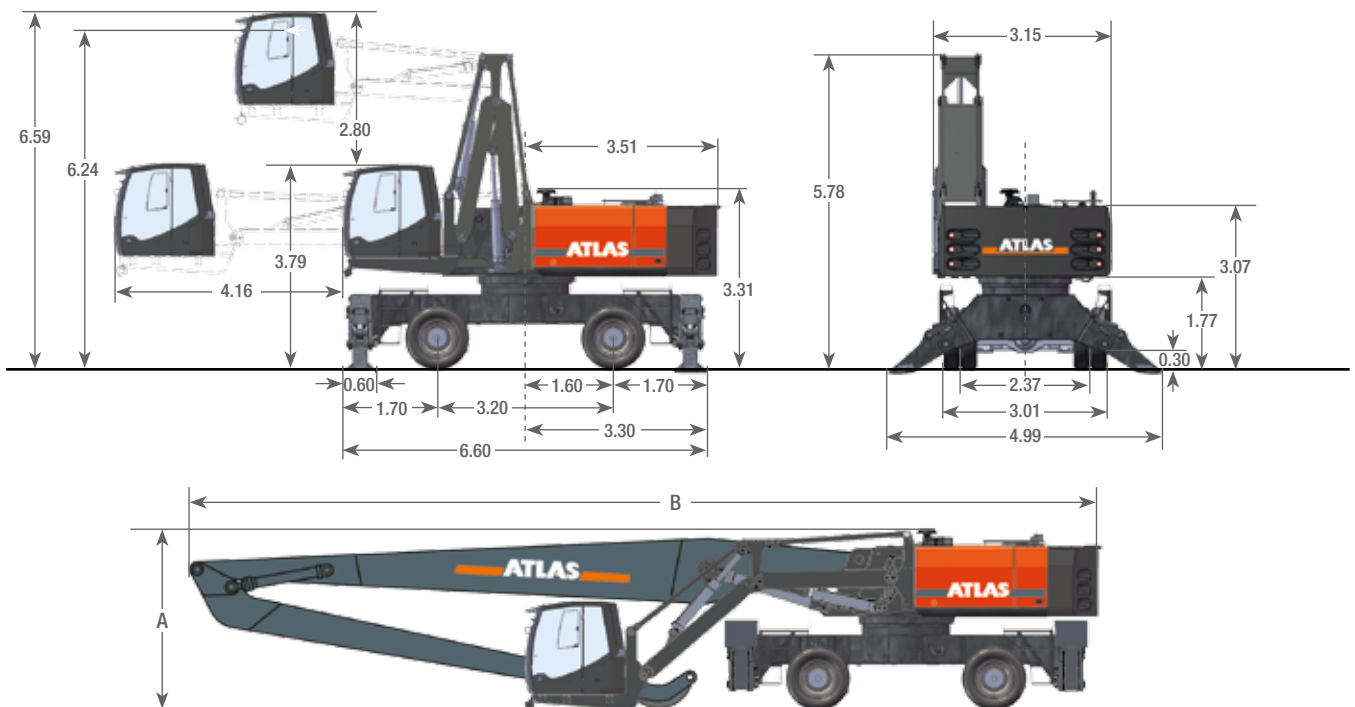
A TRANSPORT HEIGHT

Loading boom 9.80 m (C94.5i) with stick 7.50 m (D94.15i)	3.46 m
Loading boom 12.10 m (C94.6i) with stick 9.24 m (D94.16i)	3.46 m
Loading boom 12.10 m (C94.6id) with stick 9.24 m (D94.16i)	3.47 m

B TRANSPORT LENGTH

Loading boom 9.80 m (C94.5i) with stick 7.50 m (D94.15i)	14.10 m
Loading boom 12.10 m (C94.6i) with stick 9.24 m (D94.16i)	16.40 m
Loading boom 12.10 m (C94.6id) with stick 9.24 m (D94.16i)	16.23 m

Option:



A TRANSPORT HEIGHT

Loading boom 9.80 m (C94.5i) with stick 7.50 m (D94.15i)	3.31 m
Loading boom 12.10 m (C94.6i) with stick 9.24 m (D94.16i)	3.31 m
Loading boom 12.10 m (C94.6id) with stick 9.24 m (D94.16i)	3.31 m

B TRANSPORT LENGTH

Loading boom 9.80 m (C94.5i) with stick 7.50 m (D94.15i)	14.32 m
Loading boom 12.10 m (C94.6i) with stick 9.24 m (D94.16i)	16.62 m
Loading boom 12.10 m (C94.6id) with stick 9.24 m (D94.16i)	16.62 m

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