



-  16.6 - 17.5 t
-  90 kW (112 HP)
EU Stage V
-  8.4 m

**ROBUST.
PRECISE.
EFFICIENT.**



**MATERIAL HANDLING MACHINE
160MH**

WWW.ATLASGMBH.COM

ATLAS – CONSTRUCTION MACHINERY MANUFACTURER WITH TRADITION

From person to person

When Hinrich Weyhausen started selling construction and agricultural machinery in 1919, he discovered that the machines which his customers actually needed were not available. So he listened to them carefully and went about building the machines himself – exactly according to the requirements of the people who used his machines every day. He carried out pioneering work with a passion under the brand name of Atlas. His focus was always on the benefit of the machines. And nothing has changed for us in terms of this ideal today.



**Atlas will make you strong
with excellent products and
a comprehensive service.**



With highly motivated employees, a great deal of commitment and expertise ATLAS GmbH develops successful crane & excavator technologies. Numerous customers, engineers and experts all around the globe have made their contribution. The result is robust equipment to enable you to work more effectively and safely than ever before.

As our know-how grew, so too did our dealer and service network worldwide.

We can hence guarantee – in those days and today too – that we will always be on the spot when you need us.



Atlas manufactures a wide range of equipment for the construction, railroad, material handling and infrastructure industries. You will find more information on Atlas under www.atlasgmbh.com.

CONSTRUCTION



TRANSPORT



INFRASTRUCTURE



RECYCLING



CUSTOMER SATISFACTION IS OUR PRIORITY!

WE ARE COMMITTED

to providing our customers with highest quality products and services.

QUALITY STANDARDS AND CUSTOMER SATISFACTION

are measured in terms of service performance, reliability, relevance and timeliness.

OUR COMPANY'S MISSION, GOALS AND OBJECTIVES

are directed towards ongoing process improvement as a basis for strengthening our competitive position and for improving product quality and service standards.

QUALITY STANDARDS AND CUSTOMER SATISFACTION

are measured in terms of product performance and reliability.

PRODUCT RANGE

160MH *blue*





**EXTENSIVE DEALER NETWORK
EXCELLENT SERVICE
CUSTOMER FOCUSED**

TECHNICAL SPECIFICATION 160MH

ENGINE

Power rating.....90 kW (112 HP)	Bore / cylinder stroke 101 / 126	STANDARD BASIC EQUIPMENT:
RPM 1800/min	Cooling system Water-cooled	
Model..... Deutz TCD 4.1 L4 EU IIIa / EU Stage V	Air filter..... Dry air filter	
Design..... Turbocharger	Battery 2 x 12 V / 100 Ah	
Cylinder capacity 4038 cm ³	Generator 24 V / 100 A	
Number of cylinders 4	Starter..... 24 V / 4 kW	

HYDRAULIC SYSTEM

• AWE 5 system (Load sensing)	• Load-retaining and fine lowering valves in lifting circuit	• Operating modes: F1 (Fine)
• Load limit controlled high-performance pump	• Pipe break protection valves for lifting and articulated cylinders	F2 (Eco)
• Fuel-efficient flow-on-demand control	• Proportional grab and grab rotating function	F3 (Power)
• Sensitive, proportional, independent control	• 3 circuits for additional consumer loads possible	• Accumulator for emergency lowering of the arm system
• Primary and secondary protection against overload	• Max. oil flow 188 l/min	• Load-limit control
• Suction valves for all work functions	• Max. operating pressure 320 bar	• Cylinder end position damping

SWING ASSEMBLY

• Axial piston motor with priority valve	• Automatically controlled multi-disc brake	• Swing torque 34.7 kNm
• Planetary transmission	• Two, two-stage valves	• Max. swing speed. 9/min

TRACTION DRIVE AND BRAKES

• Variable displacement motor	• Automotive traveling and cruise control:	• Tractive force 76.0 kN
• Power-shift transmission	• Max. speed 20 km/h	• Gradeability 60 %
• Double-acting brake valve	• Off-road speed 5 km/h	• Dual-circuit brake system Multi-disc
• Travel direction pre-selection via switch in joystick	• Crawling speed 1 km/h	• Parking brake Multi-disc

UNDERCARRIAGE

• Steering axle with automatic oscillating axle locking	• Heavy duty axles	• STD tires: Mitas 10.00-20 16PR EM23
• Additional axis locking via left joystick	• Toolbox in undercarriage	

TIRES

OPTIONAL:

• 4-road tyres 600/40 – 22.5 14PR Mitas	• 8-road tyres 10.00-20 16PR Nokia	• 8-road tyres 315/70 R22.5 Marked with a band, Grader type
• 4-road tyres 600/40 – 22.5 18PR Alliance	• 8-road tyres 10.00-20 16PR profile for asphalt use	• 8-road tyres 215/70 R22.5 Caliber Power Grip 23
• 4-road tyres 710/40 – 22.5 24PR Nokia	• 8-road tyres 10.00-20 Super elastic (up to 16 km/h)	

WORKING EQUIPMENT 160MH

DRIVER'S CAB

• Meets latest safety standards (ROPS)	DRIVER'S SEAT:	MONITORING:
• Extra large entry zone	• Comfort seat with headrest	• Operating data display screen
• Spacious leg room	• Arm rests and lumbar support	• Automatic system for monitoring, warning and storage of data
• Radio preparation with mute function	• Seat adjustable separately from console	• Rear view security camera
• Ready for electric cooling box	• Air suspension	• Right side camera
• Different options for storage, compartment for documents	• Heated	
• Heat-absorbing glass, tinted windows	• Horizontal and vertical suspension	CLIMATE CONTROL:
• Excellent all-way visibility	• Lumbar support	• Automatic climate control
• Bottle holder		• Excellent air distribution through optimally arranged nozzles
	CONTROL:	• Refrigerant R134a
	• Ergonomic joysticks with proportional slide control	
	• Slim steering column, height and tilt adjustable	SOUND LEVELS:
	• Indicators, controls and operating switches are clearly arranged	• ISO 6396 (L _p A) in driver's cab 72 dB(A)
	• Swing axle lock in the left joystick	• 2000/14 EG (L _w A) ambience level 97 dB(A)

ADDITIONAL EQUIPMENT

• Refueling pump	• Alarm-signal while driving	• Premium Driver seat (Actimo Evolution)
• Beacon light	• Engine speed adjustment via potentiometer	• Electric cooling box
• Gear protection	• Auxiliary heating with water circuit	• Radio with USB
• Cabin Sliding door	• Automatic working brake	• GPS/GSM telemetric system for monitoring of operating data, consumption, position
• Cab protection guard	• Switch hydraulic attachment kit, supports separately at front and rear	• Biodegradable oil
• Cab elevation	• Hydraulic add-on kit, switch supports axially separately	• Wide axles (overall width 2750 mm)
• Joystick steering	• Proportional control of supports by slide in joystick	• Support shield
• 270° camera system	• Automatically controlled and monitored electric central lubrication system for uppercarriage and arm equipment	Other additional equipment: See price list
• LED working lights		Special options: upon request

FILL CAPACITIES

• Fuel tank240 litres	• Engine oil.....10 litres	• Hydraulic system.....200 litres
• Cooling system.....38 litres	• Hydraulic tank157 litres	• Ad Blue®20 litres

OPERATING WEIGHTS

	MONOBLOCK BOOM 4.80 m (C3.4MGG)		ADJUSTABLE BOOM Base arm 1.95 m (C3.41) Boom 3.47 m (C346.1)	
	Stick 2.50 m (D33)	Stick 3.00 m (D331)	Stick 2.50 m (D33)	Stick 3.00 m (D331)
Support dozer blade	14 t			
SDB / outriggers	15 t			
4 support outriggers	15,2 t			

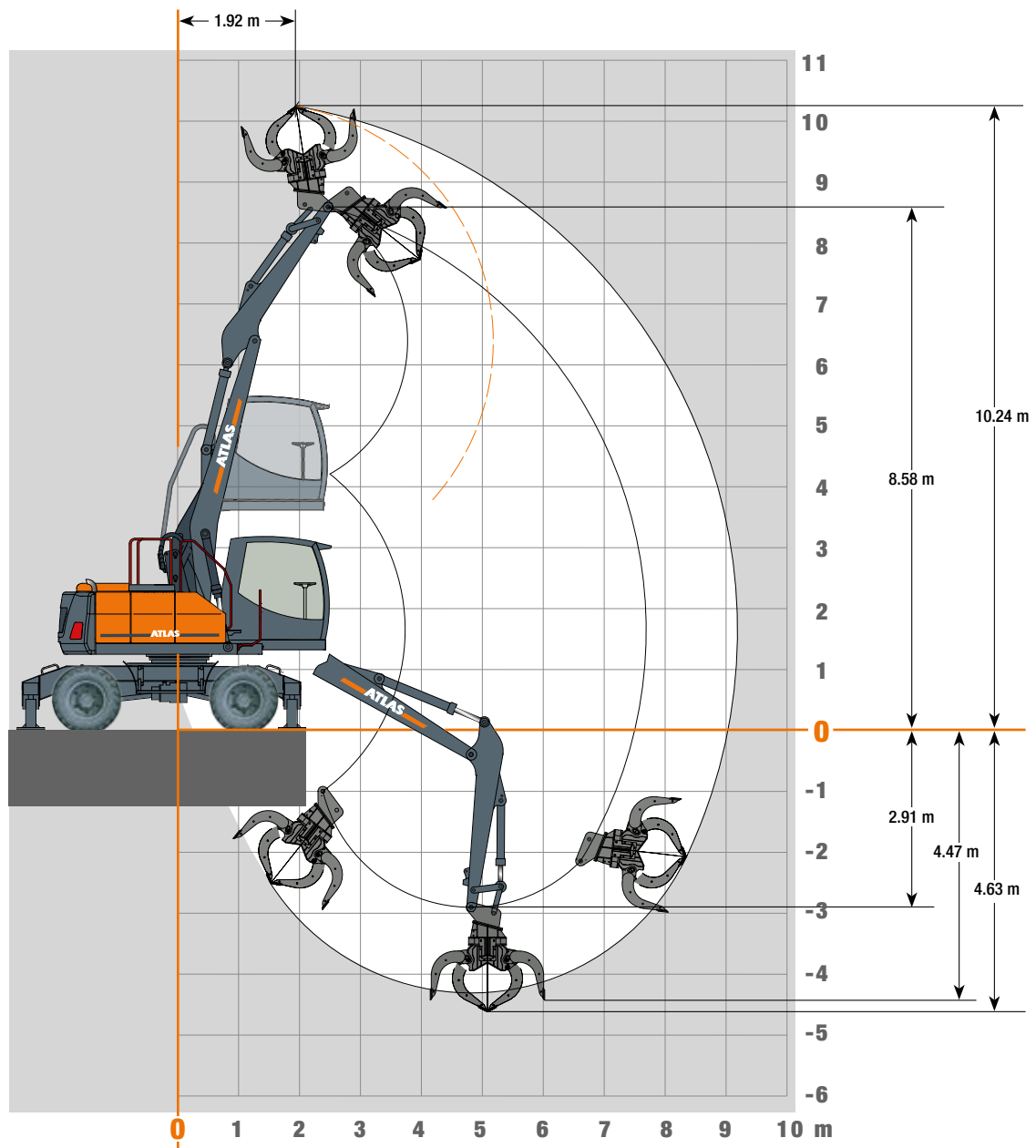
Operating weight incl. driver, fuel, lubricants and coolant plus 1.0 ton for attachments

ATTACHMENTS (SELECTION)

	Bucket F415	Bucket F418	Trench digger G644
Capacity SAE	0.67 m ³	0.92 m ³	0.56 m ³
Cutting width	850 mm	1100 mm	2000 mm

WORKING RANGES 160MH

Monoblock boom 4.80 m (C3.4MGG) and stick 2.5 m (D33)



LIFTING CAPACITIES 160MH

Lifting capacities Monoblock boom 4.80 m (C3.4MGG) and stick 2.5 m (D33)

HEIGHT	Undercarriage position		2.5 m	3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m	7.5 m
+ 8.0 m	FRONT 	outriggers down			4898								
		outriggers up			4898								
	LATERAL 	outriggers down			4898								
		outriggers up			4898								
+ 7.0 m	FRONT 	outriggers down				4479	4213	4016					
		outriggers up				4479	4213	4016					
	LATERAL 	outriggers down				4479	4213	4016					
		outriggers up				4479	3972*	3371*					
+ 6.0 m	FRONT 	outriggers down				4257	4122	3881	3679	3513			
		outriggers up				4257	4122	3881	3679	3513			
	LATERAL 	outriggers down				4257	4122	3881	3679	3513			
		outriggers up				4257	3994*	3412*	2955*	2579*			
+ 5.0 m	FRONT 	outriggers down			3920	4202	4237	3943	3695	3480	3289		
		outriggers up			3920	4202	4237	3943	3695	3480	3289		
	LATERAL 	outriggers down			3920	4202	4237	3943	3695	3480	3289		
		outriggers up			3920	4202	3947*	3383*	2943*	2588*	2291*		
+ 4.0 m	FRONT 	outriggers down		4628	4875	4968	4492	4112	3800	3535	3301	3079	
		outriggers up		4628	4875	4968	4492	4112	3800	3535	3301	3079	
	LATERAL 	outriggers down		4628	4875	4968	4492	4112	3800	3535	3301	3079	
		outriggers up		4628	4875	4561*	3848*	3311*	2892*	2555*	2276*	2039*	
+ 3.0 m	FRONT 	outriggers down			6278	5423	4797	4316	3931	3610	3332	3074	2769
		outriggers up			6278	5423	4797	4316	3931	3610	3332	3074	2769
	LATERAL 	outriggers down			6278	5423	4797	4316	3931	3610	3332	3074	2769
		outriggers up			5274*	4370*	3713*	3213*	2820*	2502*	2240*	2019*	1828*
+2.0 m	FRONT 	outriggers down				5731	5010	4455	4013	3646	3328	3036	2720
		outriggers up				5731	5010	4455	4013	3646	3328	3036	2720
	LATERAL 	outriggers down				5731	5010	4455	4013	3646	3328	3036	2720
		outriggers up				4175*	3572*	3109*	2742*	2444*	2198*	1991*	1816*
+1.0 m	FRONT 	outriggers down				5676	4987	4430	3972	3584	3241	2914	2540
		outriggers up				5676	4987	4430	3972	3584	3241	2914	2540
	LATERAL 	outriggers down				5676	4987	4430	3972	3584	3241	2914	2540
		outriggers up				4041*	3465*	3026*	2678*	2397*	2164*	1969*	1804*
0.0 m	FRONT 	outriggers down			5112	5237	4677	4183	3752	3369	3011	2645	
		outriggers up			5112	5237	4677	4183	3752	3369	3011	2645	
	LATERAL 	outriggers down			5112	5237	4677	4183	3752	3369	3011	2645	
		outriggers up			4787*	3986*	3413*	2980*	2641*	2368*	2143*	1957*	
-1.5 m	FRONT 	outriggers down		4410	4284	4007	3675	3329	2981	2624	2220		
		outriggers up		4410	4284	4007	3675	3329	2981	2624	2220		
	LATERAL 	outriggers down		4410	4284	4007	3675	3329	2981	2624	2220		
		outriggers up		4410	4284	3993*	3408*	2972*	2635*	2366*	2150*		

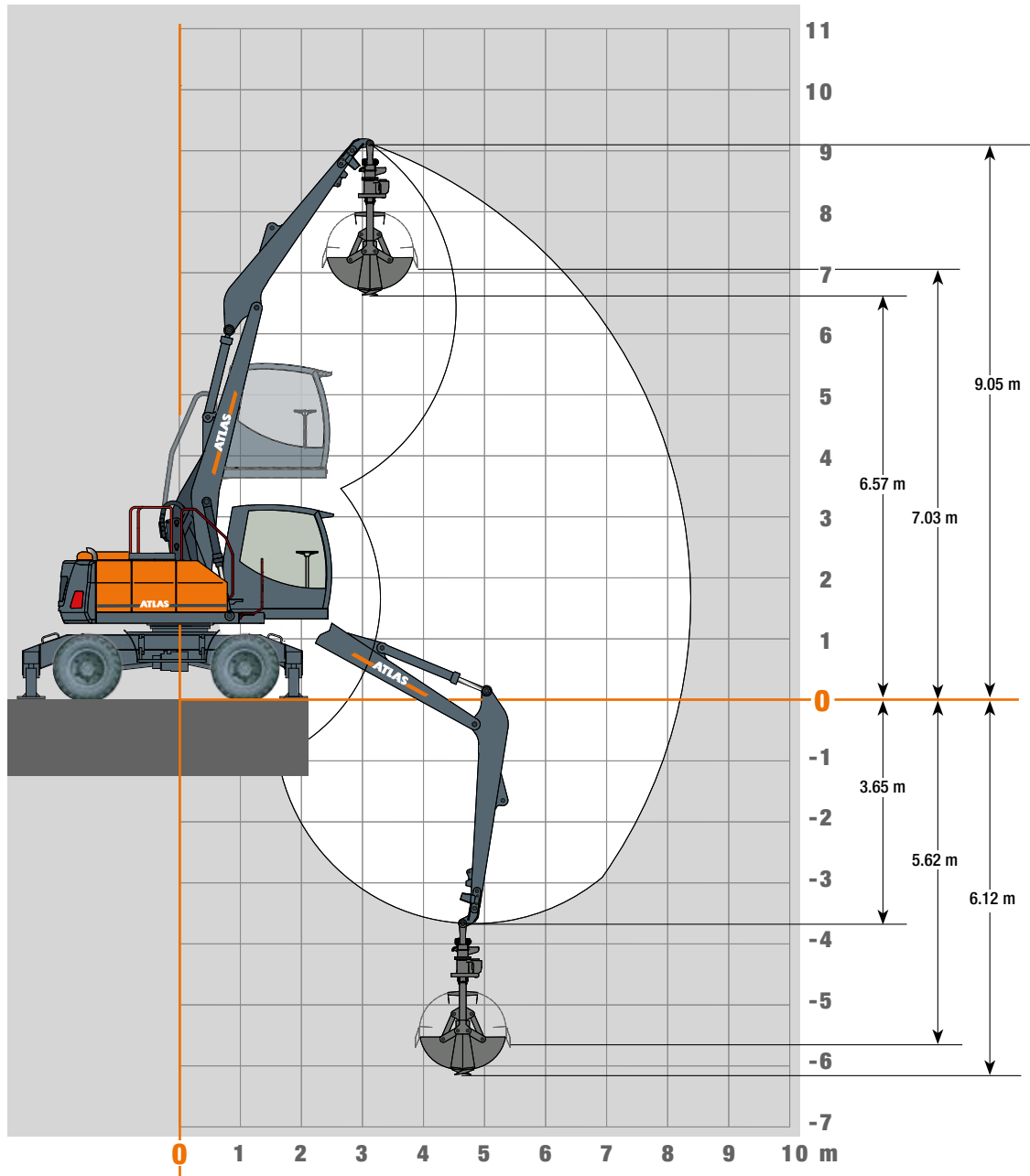
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*Value limited due to excavator stability.

All loading capacities are listed with 2.5 m undercarriage width. The undercarriage may be delivered with 2.75 m width as an option.

WORKING RANGES 160MH

Monoblock boom 4.80 m (C3.4MGG) and stick 3.0 m (D331)



LIFTING CAPACITIES 160MH

Lifting capacities Monoblock boom 4.80 m (C3.4MGG) and stick 3.0 m (D331)

HEIGHT	Undercarriage position		3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m	7.5 m	8.0 m
+ 8.0 m	FRONT 	outriggers down			4017	3545							
		outriggers up			4017	3545							
	LATERAL 	outriggers down			4017	3545							
		outriggers up			4017	3545							
+ 7.0 m	FRONT 	outriggers down				3736	3685	3408					
		outriggers up				3736	3685	3408					
	LATERAL 	outriggers down				3736	3685	3408					
		outriggers up				3736	3446*	2969*					
+ 6.0 m	FRONT 	outriggers down				3487	3595	3449	3297	3029			
		outriggers up				3487	3595	3449	3297	3029			
	LATERAL 	outriggers down				3487	3595	3449	3297	3029			
		outriggers up				3487	3462*	2998*	2623*	2308*			
+ 5.0 m	FRONT 	outriggers down			3218	3431	3596	3494	3308	3140	2985		
		outriggers up			3218	3431	3596	3494	3308	3140	2985		
	LATERAL 	outriggers down			3218	3431	3596	3494	3308	3140	2985		
		outriggers up			3218	3431	3425*	2974*	2612*	2314*	2061*		
+ 4.0 m	FRONT 	outriggers down		3333	3610	3815	3897	3624	3389	3183	2994	2806	
		outriggers up		3333	3610	3815	3897	3624	3389	3183	2994	2806	
	LATERAL 	outriggers down		3333	3610	3815	3897	3624	3389	3183	2994	2806	
		outriggers up		3333	3610	3815	3347*	2916*	2571*	2287*	2048*	1842*	
+ 3.0 m	FRONT 	outriggers down		5866	5123	4569	4137	3788	3496	3245	3019	2801	2100
		outriggers up		5866	5123	4569	4137	3788	3496	3245	3019	2801	2100
	LATERAL 	outriggers down		5866	5123	4569	4137	3788	3496	3245	3019	2801	2100
		outriggers up		5388*	4440*	3756*	3239*	2835*	2509*	2242*	2017*	1824*	1656*
+2.0 m	FRONT 	outriggers down			5549	4863	4339	3922	3577	3283	3020	2771	2488
		outriggers up			5549	4863	4339	3922	3577	3283	3020	2771	2488
	LATERAL 	outriggers down			5549	4863	4339	3922	3577	3283	3020	2771	2488
		outriggers up			4219*	3596*	3121*	2745*	2441*	2190*	1978*	1799*	1645*
+1.0 m	FRONT 	outriggers down			5679	4964	4404	3952	3575	3252	2960	2675	2336
		outriggers up			5679	4964	4404	3952	3575	3252	2960	2675	2336
	LATERAL 	outriggers down			5679	4964	4404	3952	3575	3252	2960	2675	2336
		outriggers up			4040*	3460*	3016*	2664*	2378*	2142*	1945*	1777*	1634*
0.0 m	FRONT 	outriggers down		5698	5436	4797	4269	3825	3445	3106	2789	2459	
		outriggers up		5698	5436	4797	4269	3825	3445	3106	2789	2459	
	LATERAL 	outriggers down		5698	5436	4797	4269	3825	3445	3106	2789	2459	
		outriggers up		4732*	3945*	3378*	2948*	2610*	2336*	2111*	1922*	1763*	
-1.5 m	FRONT 	outriggers down	5338	4905	4449	4014	3611	3239	2889	2543	2164		
		outriggers up	5338	4905	4449	4014	3611	3239	2889	2543	2164		
	LATERAL 	outriggers down	5338	4905	4449	4014	3611	3239	2889	2543	2164		
		outriggers up	5338	4719*	3916*	3344*	2915*	2582*	2315*	2098*	1920*		

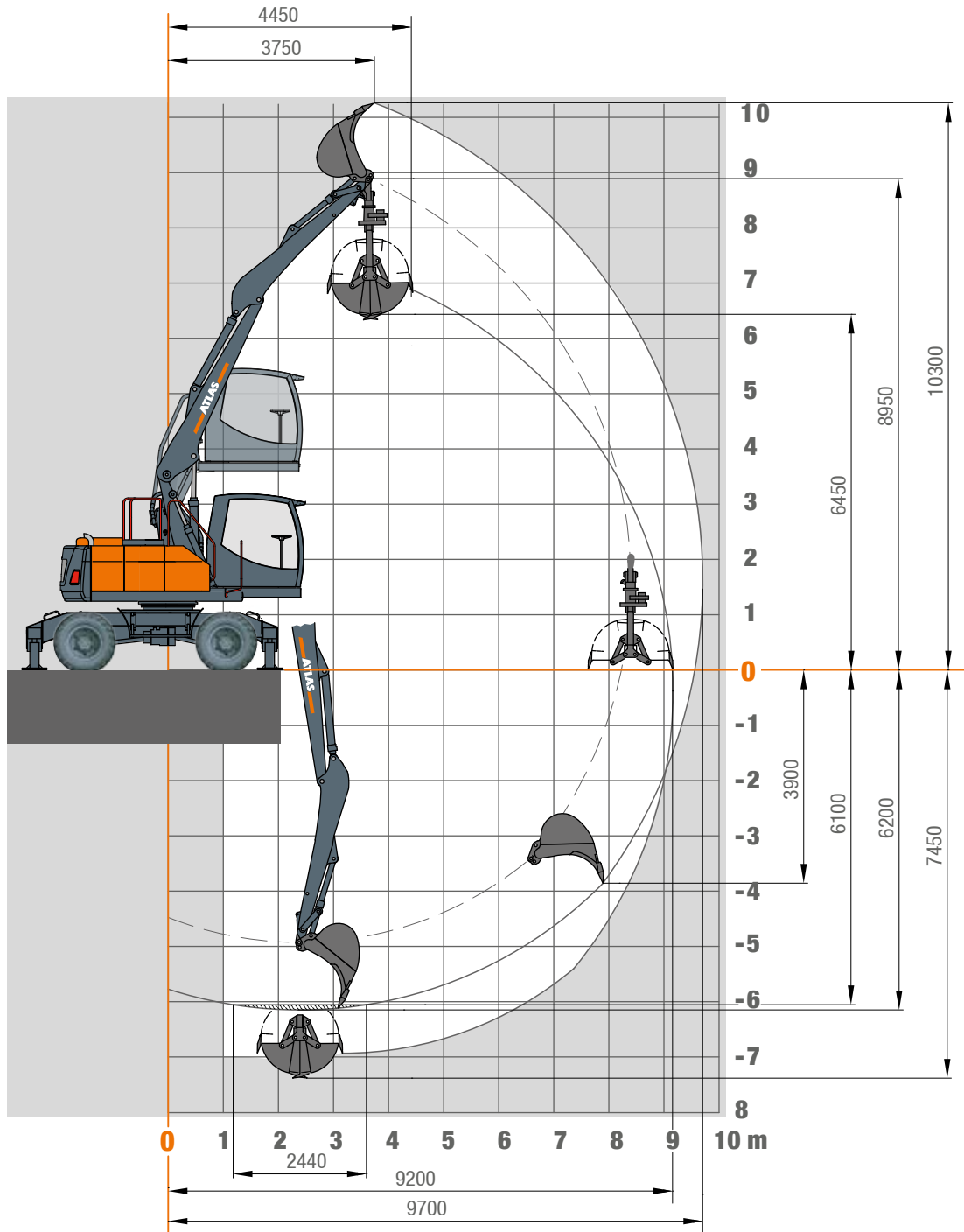
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*Value limited due to excavator stability.

All loading capacities are listed with 2.5 m undercarriage width. The undercarriage may be delivered with 2.75 m width as an option.

WORKING RANGES 160MH

Adjustable boom: Base arm 1.95 m (C3.41) and boom 3.47 m (C346.1) and stick 3.0 m (D331)



LIFTING CAPACITIES 160MH

Lifting capacities Adjustable boom: Base arm 1.95 m (C3.41) and boom 3.47 m (C346.1) with stick 3.0 m (D331). Max reach 9.70 m

HEIGHT	Undercarriage position		2.5 m	3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	5.5 m	6.0 m	6.5 m	7.0 m	7.5 m	8.0 m
+ 5.0 m	FRONT 	outriggers down					3155	2986	2842	2720	2616	2529	2459	
		outriggers up					3155	2986	2842	2720	2616	2529	2459	
	LATERAL 	outriggers down					3155	2986	2842	2720	2616	2529	2459	
		outriggers up					3155	2986	2842	2635*	2353*	2095*	1836*	
+ 4.0 m	FRONT 	outriggers down			4236	3814	3490	3233	3025	2852	2707	2583	2476	2301
		outriggers up			4236	3814	3490	3233	3025	2852	2707	2583	2476	2301
	LATERAL 	outriggers down			4236	3814	3490	3233	3025	2852	2707	2583	2476	2301
		outriggers up			4236	3814	3490	3233	2924*	2598*	2329*	2105*	1851*	1630*
+ 3.0 m	FRONT 	outriggers down		5282	5082	4401	3912	3543	3254	3021	2829	2667	2526	2399
		outriggers up		5282	5082	4401	3912	3543	3254	3021	2829	2667	2526	2399
	LATERAL 	outriggers down		5282	5082	4401	3912	3543	3254	3021	2829	2667	2526	2399
		outriggers up		5282	5082	4373*	3735*	3250	2868*	2558*	2305*	2096*	1846*	1629*
+2.0 m	FRONT 	outriggers down	6066	6022	5656	4946	4311	3839	3476	3186	2949	2750	2576	2418
		outriggers up	6066	6022	5656	4946	4311	3839	3476	3186	2949	2750	2576	2418
	LATERAL 	outriggers down	6066	6022	5656	4946	4311	3839	3476	3186	2949	2750	2576	2418
		outriggers up	6066	6022	5090*	4263*	3654*	3191*	2824*	2530*	2290*	2071*	1821*	1610*
+1.0 m	FRONT 	outriggers down	6881	6561	6037	5251	4564	4041	3631	3302	3031	2801	2598	2425
		outriggers up	6881	6561	6037	5251	4564	4041	3631	3302	3031	2801	2598	2425
	LATERAL 	outriggers down	6881	6561	6037	5251	4564	4041	3631	3302	3031	2801	2598	2425
		outriggers up	6881	6233*	5027*	4208*	3608*	3159*	2804*	2522*	2304*	2021*	1781*	1580*
0.0 m	FRONT 	outriggers down	7839	7099	6187	5289	4617	4094	3676	3333	3047	2808	2619	2396
		outriggers up	7839	7099	6187	5289	4617	4094	3676	3333	3047	2808	2619	2396
	LATERAL 	outriggers down	7839	7099	6187	5289	4617	4094	3676	3333	3047	2808	2619	2396
		outriggers up	7839	6254*	5034*	4207*	3611*	3165*	2820*	2530*	2233*	1958*	1733*	1547*
-1.0 m	FRONT 	outriggers down	8955	7532	6245	5328	4645	4116	3695	3355	3078	2867	2582	2123
		outriggers up	8955	7532	6245	5328	4645	4116	3695	3355	3078	2867	2582	2123
	LATERAL 	outriggers down	8955	7532	6245	5328	4645	4116	3695	3355	3078	2867	2582	2123
		outriggers up	8359*	6340*	5099*	4244*	3623*	3148*	2772*	2453*	2145*	1892*	1688*	1522*
-2.0 m	FRONT 	outriggers down	9630	7664	6353	5420	4726	4193	3780	3470	3122	2705	2132	
		outriggers up	9630	7664	6353	5420	4726	4193	3780	3470	3122	2705	2132	
	LATERAL 	outriggers down	9630	7664	6353	5420	4726	4193	3780	3470	3122	2705	2132	
		outriggers up	8283*	6229*	4984*	4146*	3540*	3082*	2691*	2346*	2068*	1844*	1661*	
-3.0 m	FRONT 	outriggers down	9913	7905	6573	5642	4947	4325	3761	3204	2590			
		outriggers up	9913	7905	6573	5642	4947	4325	3761	3204	2590			
	LATERAL 	outriggers down	9913	7905	6573	5642	4947	4325	3761	3204	2590			
		outriggers up	8257*	6193*	4948*	4114*	3498*	2982*	2590*	2279*	2029*			

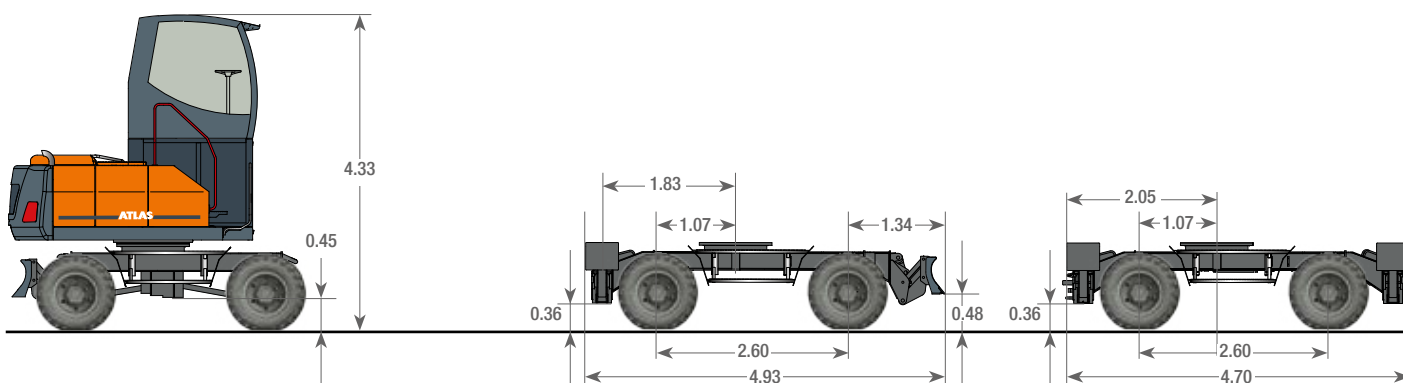
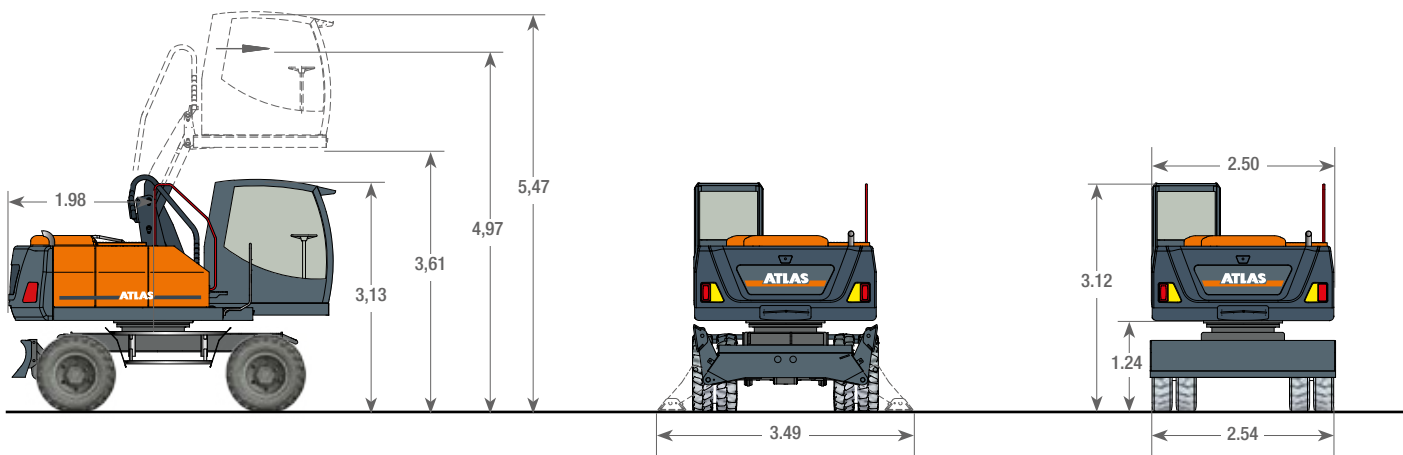
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*Value limited due to excavator stability.

All loading capacities are listed with 2.5 m undercarriage width. The undercarriage may be delivered with 2.75 m width as an option.

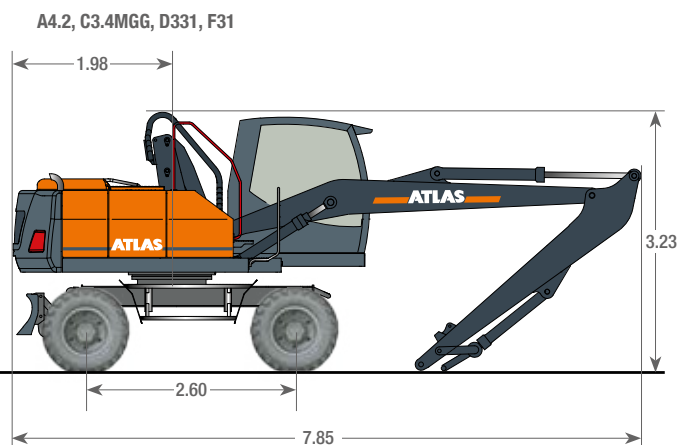
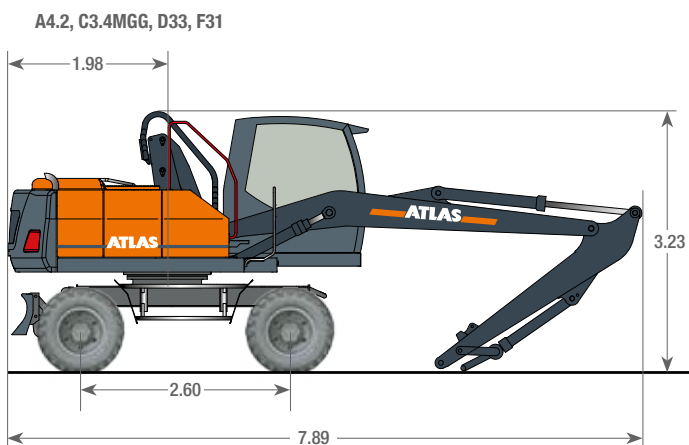
DIMENSIONS 160MH

160MH Transport position



Undercarriage with combination support
(support dozer blade and two outriggers)

Undercarriage with 4 outriggers





160MH-EN (1) Effective date: 02/2018. 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 © 2018 Atlas GmbH.

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