



# ATLAS

SINCE 1919

-  53 - 57 t
-  216 kW (295 HP)
-  18.1 - 21.9 m

## FAST. RELIABLE. VERSATILE.



# MATERIAL HANDLING MACHINE 520MH

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

# TECHNICAL SPECIFICATION 520MH

## Technical Specification

### ENGINE

|                                                 |                                             |                                |
|-------------------------------------------------|---------------------------------------------|--------------------------------|
| Power according to ISO 9249.....216 kW (295 HP) | Cylinder capacity .....7800 cm <sup>3</sup> | Air filter .....Dry air filter |
| RPM .....1800/min                               | Number of cylinders.....6                   | Battery ..... 2x 12V / 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.....24V / 4.0 kW       |

### HYDRAULIC SYSTEM

|                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• AWE 5 system (load sensing)</li> <li>• 2 Load limit controlled high-performance piston pumps</li> <li>• Fuel efficient flow-on-demand control</li> </ul> | <ul style="list-style-type: none"> <li>• Suction valves for all work functions</li> <li>• Load-retaining and fine-drop valve in lifting circuit</li> <li>• Pipe break protection valves for lifting cylinders</li> <li>• Grab and grab-rotating function</li> <li>• 2 additional circuits for additional consumer loads possible</li> </ul> | <ul style="list-style-type: none"> <li>• Overload warning device</li> <li>• Max. oil flow .....2 x 380 l/min</li> <li>• Max. operating pressure.....360 bar</li> <li>• Operating modes: 3 pre-programmed modes (Fine, Eco, Power)</li> </ul> |
| <ul style="list-style-type: none"> <li>• Sensitive, proportional, independent control</li> <li>• Primary and secondary protection against overload</li> </ul>                                     |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                              |

### 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>• 2x 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.....5.2/min</li> <li>• Swing torque .....164 kNm</li> </ul> |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|

### 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> <li>• Driving direction pre-selection via switch in joystick</li> </ul> | <ul style="list-style-type: none"> <li>• Automotive drive and cruise control</li> <li>• Maximum speed .....16 km/h</li> <li>• Terrain speed.....5 km/h</li> <li>• Crawling speed .....1 km/h</li> </ul> | <ul style="list-style-type: none"> <li>• Dual circuit brake system .....drum brake</li> <li>• Parking brake .....spring-loaded brake</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

### UNDERCARRIAGE

|                                                                                  |                                                                                                           |                                                                                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 70 t special excavator axles</li> </ul> | <ul style="list-style-type: none"> <li>• Steering axle with automatic oscillating axle locking</li> </ul> | <ul style="list-style-type: none"> <li>• 8 tyres, Solid rubber.....12.00 - 24</li> </ul> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

### FILL CAPACITIES

|                                                                                                                       |                                                                                                                        |                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Fuel tank..... 920 Liter</li> <li>• Cooling system ..... 53 Liter</li> </ul> | <ul style="list-style-type: none"> <li>• Engine oil..... 21 Liter</li> <li>• Hydraulic tank ..... 720 Liter</li> </ul> | <ul style="list-style-type: none"> <li>• Hydraulics system .....1400 litres</li> <li>• Ad Blue.....50 Liter</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|

### DRIVER'S CAB

|                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Meets latest safety standards</li> <li>• Extra-wide entrance</li> <li>• Spacious leg room</li> <li>• Vario cab can be driven 3 m high and 2.5 m forwards</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 joysticks</li> <li>• Steering via potentiometer</li> <li>• Indicators, controls and operating switches are clearly arranged</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>CLIMATE CONTROL:</b></p> <ul style="list-style-type: none"> <li>• Air conditioning as standard</li> <li>• Very good air distribution through optimally arranged nozzles</li> </ul> <p><b>SOUND LEVELS:</b></p> <ul style="list-style-type: none"> <li>• ISO 6396 (L<sub>pA</sub>) in driver's cab .....70 dB(A)</li> <li>• 2000/14EG (L<sub>wA</sub>) ambience level .....105 dB(A)</li> </ul> |
| <p><b>DRIVER'S SEAT:</b></p> <ul style="list-style-type: none"> <li>• Air-cushioned comfort seat (optional seat heating)</li> <li>• Arm rests and lumbar support</li> <li>• Seat adjustable separately from console</li> </ul>                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                      |

# WORKING EQUIPMENT 520MH

## Working Equipment

### OPERATING WEIGHTS

|              | LOADING BOOM<br>9.80 m (C94.5i) | LOADING BOOM<br>12.10 m (C94.6i) / (C94.16iD) |
|--------------|---------------------------------|-----------------------------------------------|
|              | Stick 7.50 m<br>(D94.15i)       | Stick 9.24 m<br>(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 520MH

- Material Handler 520MH 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
- 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 3 m high and 2.5 m forwards

#### Booms:

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

#### 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
- Steering column, height and tilt adjustable
- Seat adjustable separately from console
- Heat-insulating glass, tinted windows
- 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

#### Other special equipment: See price list

#### Hydraulics:

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

- Cab elevation
- GPS/GSM Telemetriebox, for monitoring of operating data, fuel consumption, location
- Head rest
- Working lights, LED
- Electric cooling box

### ATTACHMENTS

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

## DO THE RIGHT JOB

### FULL STEAM AHEAD

Get your cargo handling moving. In times of rapid growth in the transport sector you need handling equipment with which you can work fast.

#### Particularly good for port use:

- Low costs per tonne thanks to fast and responsive operation and low-maintenance processing.
  - High handling capacity thanks to enormous lifting power.
  - Arm construction specially designed to clear ships' sides.
  - Cab system with Vario cab.
  - Can be supplied with pylon upon request.
- 
- Newly developed banana boom for ship unloading.

### RECYCLING & SCRAP

### PORTS



## STABILITY



- Here the new undercarriage with moving pads and new ascent to get more comfortable in the cabin.
- New outrigger pads for increased stability again.

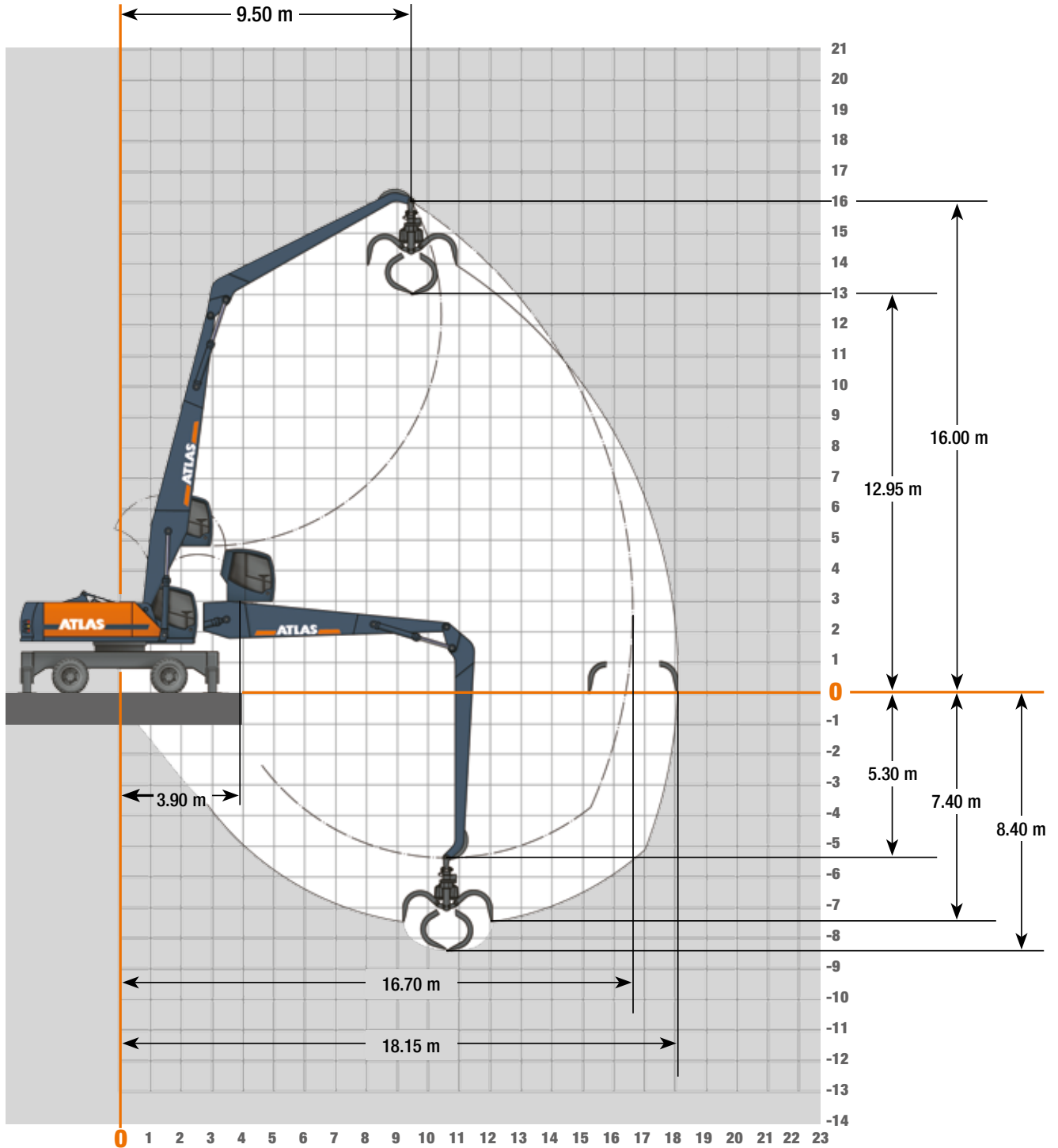


## RELIABLE – BECAUSE EVERY MINUTE COUNTS

**Our market leadership is based on our well-proven technology tried and tested a thousand times over in the most arduous applications. High-tensile steels, robust electric and electronic components as well as excellent workmanship in all hydraulic components ensure that the material handler is the reliable heart on any construction site.**

# WORKING RANGES 520MH

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




# LIFTING CAPACITIES 520MH

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

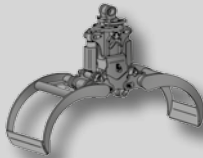
|         |                 | Lifting Capacities Loading boom 9.80 m (C94.5i) with Stick 7.50 m (D 94.15i). Max. reach 16.70 m |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|---------|-----------------|--------------------------------------------------------------------------------------------------|-----------------|-------|---------|-------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
|         |                 | 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 |         | 19.5 m |         |
| HEIGHT  |                 | FRONT                                                                                            | LATERAL         | FRONT | LATERAL | FRONT | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL |
|         |                 | 18.0 m                                                                                           | outriggers down |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
| 16.5 m  | outriggers down |                                                                                                  |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
| 15.0 m  | outriggers down |                                                                                                  |                 |       |         |       |         | 8.5*   | 8.5*    |        |         |        |         |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         | 8.5*   | 6.9     |        |         |        |         |        |         |        |         |        |         |        |         |
| 13.5 m  | outriggers down |                                                                                                  |                 |       |         |       |         | 8.2*   | 8.2*    | 7.8*   | 7.8*    |        |         |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         | 8.2*   | 7.1     | 7.0    | 5.6     |        |         |        |         |        |         |        |         |        |         |
| 12.0 m  | outriggers down |                                                                                                  |                 |       |         |       |         | 8.2*   | 8.2*    | 7.7*   | 7.7*    | 7.3*   | 7.3*    |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         | 8.2*   | 7.1     | 7.0    | 5.6     | 5.7    | 4.5     |        |         |        |         |        |         |        |         |
| 10.5 m  | outriggers down |                                                                                                  |                 |       |         |       |         | 8.3*   | 8.3*    | 7.8*   | 7.8*    | 7.3*   | 7.3*    |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         | 8.3*   | 7.0     | 7.0    | 5.6     | 5.7    | 4.5     |        |         |        |         |        |         |        |         |
| 9.0 m   | outriggers down |                                                                                                  |                 |       |         |       |         | 8.6*   | 8.6*    | 8.0*   | 8.0*    | 7.4*   | 7.4*    | 7.0*   | 7.0*    |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         | 8.6    | 6.9     | 6.9    | 5.5     | 5.6    | 4.4     | 4.7    | 3.6     |        |         |        |         |        |         |
| 7.5 m   | outriggers down |                                                                                                  |                 |       |         | 10.1* | 10.1*   | 9.0*   | 9.1*    | 8.3*   | 8.3*    | 7.6*   | 7.6*    | 7.1*   | 7.1*    |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         | 10.1* | 8.5     | 8.4    | 6.6     | 6.7    | 5.3     | 5.5    | 4.3     | 4.6    | 3.6     |        |         |        |         |        |         |
| 6.0 m   | outriggers down |                                                                                                  |                 | 12.7* | 12.7*   | 10.9* | 10.9*   | 9.6*   | 9.6*    | 8.6*   | 8.6*    | 7.8*   | 7.8*    | 7.2*   | 7.2*    |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 | 12.7* | 10.6    | 10.2  | 8.0     | 8.1    | 6.3     | 6.5    | 5.1     | 5.4    | 4.2     | 4.5    | 3.5     |        |         |        |         |        |         |
| 4.5 m   | outriggers down | 18.0*                                                                                            | 18.0*           | 14.2* | 14.2*   | 11.8* | 11.8*   | 10.2*  | 10.2*   | 9.0*   | 9.0*    | 8.1*   | 8.1*    | 7.4*   | 7.4*    |        |         |        |         |        |         |
|         | outriggers up   | 17.5                                                                                             | 13.3            | 12.6  | 9.8     | 9.7   | 7.5     | 7.7    | 6.0     | 6.3    | 4.9     | 5.2    | 4.0     | 4.4    | 3.4     |        |         |        |         |        |         |
| 3.0 m   | outriggers down | 15.3*                                                                                            | 15.3*           | 15.6* | 15.6*   | 12.7* | 12.7*   | 10.7*  | 10.7*   | 9.4*   | 9.4*    | 8.3*   | 8.3*    | 7.5*   | 7.5*    | 6.7*   | 6.7*    |        |         |        |         |
|         | outriggers up   | 15.3*                                                                                            | 11.9            | 11.7  | 9.0     | 9.1   | 7.0     | 7.4    | 5.7     | 6.0    | 4.7     | 5.1    | 3.9     | 4.3    | 3.3     | 3.7    | 2.8     |        |         |        |         |
| 1.5 m   | outriggers down | 5.5*                                                                                             | 5.5*            | 16.6* | 16.6*   | 13.3* | 13.3*   | 11.2*  | 11.2*   | 9.6*   | 9.6*    | 8.5*   | 8.5*    | 7.5*   | 7.5*    |        |         |        |         |        |         |
|         | outriggers up   | 5.5*                                                                                             | 5.5*            | 11.0  | 8.3     | 8.6   | 6.6     | 7.0    | 5.4     | 5.8    | 4.4     | 4.9    | 3.7     | 4.2    | 3.2     |        |         |        |         |        |         |
| 0 m     | outriggers down | 4.7*                                                                                             | 4.7*            | 13.5* | 13.5*   | 13.7* | 13.7*   | 11.4*  | 11.4*   | 9.8*   | 9.8*    | 8.6*   | 8.6*    | 7.5*   | 7.5*    |        |         |        |         |        |         |
|         | outriggers up   | 4.7*                                                                                             | 4.7*            | 10.5  | 7.8     | 8.3   | 6.2     | 6.8    | 5.1     | 5.6    | 4.3     | 4.8    | 3.6     | 4.1    | 3.1     |        |         |        |         |        |         |
| - 1.5 m | outriggers down | 5.2*                                                                                             | 5.2*            | 11.3* | 11.3*   | 13.7* | 13.7*   | 11.5*  | 11.5*   | 9.8*   | 9.8*    | 8.5*   | 8.5*    | 7.4*   | 7.4*    |        |         |        |         |        |         |
|         | outriggers up   | 5.2*                                                                                             | 5.2*            | 10.2  | 7.5     | 8.0   | 6.0     | 6.6    | 4.9     | 5.5    | 4.1     | 4.7    | 3.5     | 4.1    | 3.0     |        |         |        |         |        |         |
| - 3.0 m | outriggers down | 6.2*                                                                                             | 6.2*            | 11.3* | 11.3*   | 13.4* | 13.4*   | 11.2*  | 11.2*   | 9.5*   | 9.5*    | 8.2*   | 8.2*    | 7.0*   | 7.0*    |        |         |        |         |        |         |
|         | outriggers up   | 6.2*                                                                                             | 6.2*            | 10.0  | 7.4     | 7.9   | 5.9     | 6.5    | 4.8     | 5.4    | 4.1     | 4.7    | 3.5     | 4.1    | 3.0     |        |         |        |         |        |         |
| -4.5 m  | outriggers down |                                                                                                  |                 |       |         | 12.6* | 12.6*   | 10.6*  | 10.6*   | 9.0*   | 9.0*    | 7.6*   | 7.6*    |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         | 7.9   | 5.9     | 6.4    | 4.8     | 5.4    | 4.0     | 4.7    | 3.5     |        |         |        |         |        |         |        |         |
| -6.0 m  | outriggers down |                                                                                                  |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|         | outriggers up   |                                                                                                  |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |

The specified max. loading capacities in tonnes 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 (without tipping cylinder and reversing linkage) 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 hydraulics.

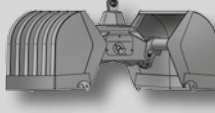
Attachments



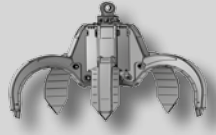
Load hook




Log grab



Clamshell grab



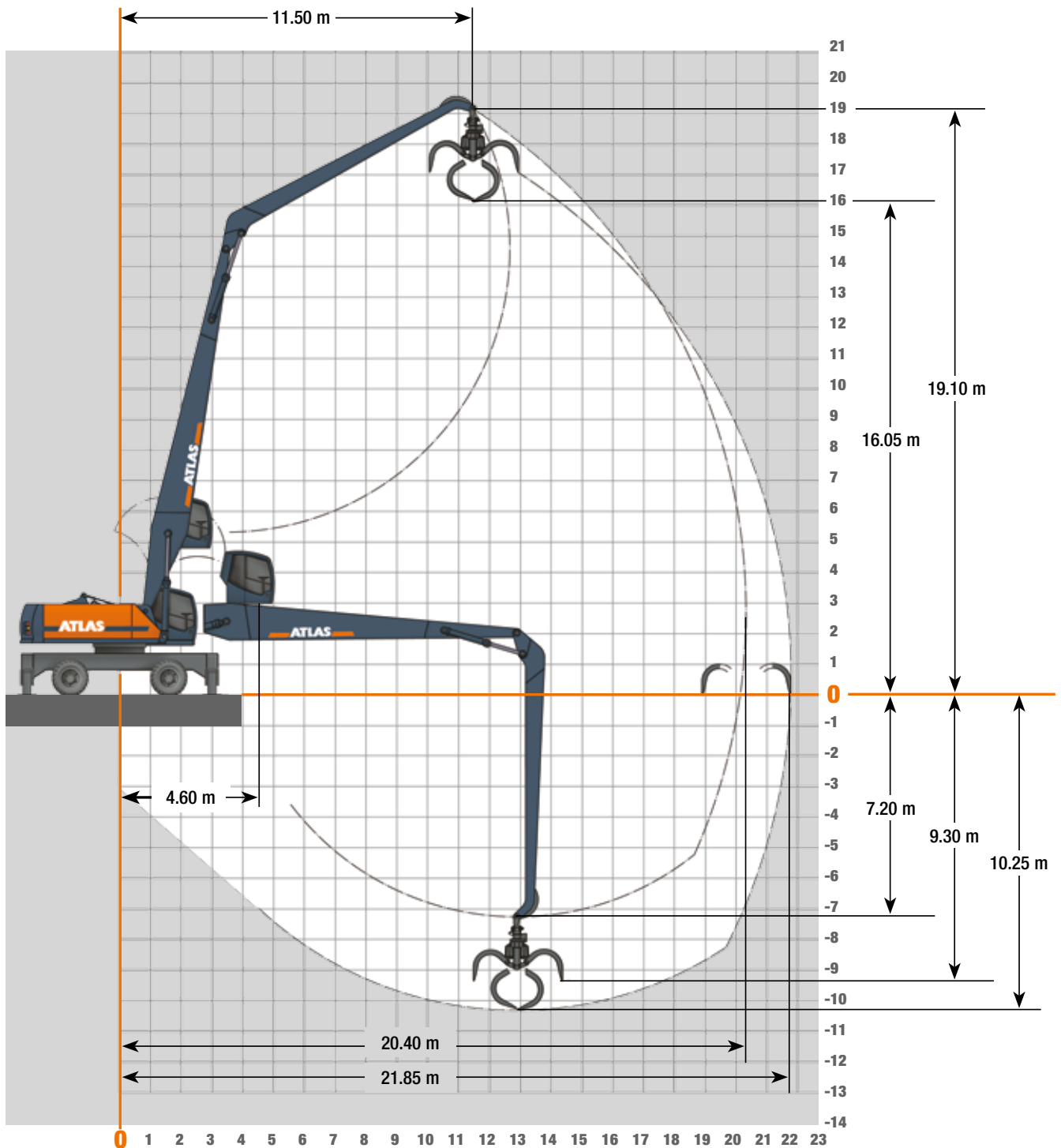
Orange peel grab



Load lifting magnet

# WORKING RANGES 520MH

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





# LIFTING CAPACITIES 520MH

## Lifting Capacities Loading boom 12.10 m (C94.6i) with Stick 9.24 m (D94.16i)

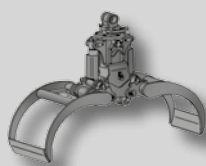
|        |                 | Lifting Capacities Loading boom 12.10 m (C94.6i) with Stick 9.24 m (D 94.16i). Max. reach 21.85 m |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|--------|-----------------|---------------------------------------------------------------------------------------------------|-----------------|-------|---------|-------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
|        |                 | 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 |         | 19.5 m |         |
| HEIGHT |                 | FRONT                                                                                             | LATERAL         | FRONT | LATERAL | FRONT | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL |
|        |                 | 18.0 m                                                                                            | outriggers down |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
| 16.5 m | outriggers down |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 5.7*    |        |         |        |         |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 4.6     |        |         |        |         |        |         |        |         |
| 15.0 m | outriggers down |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 5.7*    | 5.3*   | 5.3*    |        |         |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 4.6     | 4.8    | 3.7     |        |         |        |         |        |         |
| 13.5 m | outriggers down |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 5.7*    | 5.3v   | 5.3*    | 5.0*   | 5.0*    |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 4.6     | 4.8    | 3.7     | 3.9    | 2.9     |        |         |        |         |
| 12.0 m | outriggers down |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 5.7*    | 5.3*   | 5.3*    | 5.0*   | 5.0*    |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         |        |         | 5.7*   | 4.6     | 4.7    | 3.7     | 3.9    | 2.9     |        |         |        |         |
| 10.5 m | outriggers down |                                                                                                   |                 |       |         |       |         |        |         | 6.4*   | 6.4*    | 5.9*   | 5.9*    | 5.4*   | 5.4*    | 5.1*   | 5.1*    | 4.7*   | 4.7*    |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         | 6.4*   | 5.6     | 5.7    | 4.5     | 4.7    | 3.6     | 3.8    | 2.9     | 3.1    | 2.3     |        |         |
| 9.0 m  | outriggers down |                                                                                                   |                 |       |         |       |         |        |         | 6.7*   | 6.7*    | 6.1*   | 6.1*    | 5.6*   | 5.6*    | 5.1*   | 5.1*    | 4.8*   | 4.8*    |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         |        |         | 6.7*   | 5.3     | 5.5    | 4.3     | 4.5    | 3.5     | 3.7    | 2.8     | 3.1    | 2.2     |        |         |
| 7.5 m  | outriggers down |                                                                                                   |                 |       |         |       |         | 7.8*   | 7.8*    | 7.0*   | 7.0*    | 6.3*   | 6.3*    | 5.7*   | 5.7*    | 5.2*   | 5.2*    | 4.8*   | 4.8*    | 4.5*   | 4.5*    |
|        | outriggers up   |                                                                                                   |                 |       |         |       |         | 7.8*   | 6.4     | 6.5    | 5.1     | 5.3    | 4.1     | 4.4    | 3.3     | 3.6    | 2.7     | 3.0    | 2.2     | 2.5    | 1.7     |
| 6.0 m  | outriggers down |                                                                                                   |                 | 11.7* | 11.7*   | 9.7*  | 9.7*    | 8.3*   | 8.3*    | 7.3*   | 7.3*    | 6.5*   | 6.5*    | 5.9*   | 5.9*    | 5.3*   | 5.3*    | 4.9*   | 4.9*    | 4.5*   | 4.5*    |
|        | outriggers up   |                                                                                                   |                 | 11.7* | 10.0    | 9.7*  | 7.6     | 7.6    | 5.9     | 6.2    | 4.7     | 5.0    | 3.8     | 4.2    | 3.1     | 3.5    | 2.5     | 2.9    | 2.1     | 2.4    | 1.7     |
| 4.5 m  | outriggers down | 16.9*                                                                                             | 16.9*           | 12.9* | 12.9*   | 10.4* | 10.4*   | 8.8*   | 8.8*    | 7.6*   | 7.6*    | 6.7*   | 6.7*    | 6.0*   | 6.0*    | 5.5*   | 5.5*    | 5.0*   | 5.0*    | 4.6*   | 4.5*    |
|        | outriggers up   | 16.0                                                                                              | 12.0            | 11.7  | 8.8     | 8.9   | 6.8     | 7.1    | 5.4     | 5.8    | 4.4     | 4.8    | 3.6     | 4.0    | 2.9     | 3.3    | 2.4     | 2.8    | 2.0     | 2.4    | 1.6     |
| 3.0 m  | outriggers down | 1.9*                                                                                              | 1.9*            | 13.9* | 13.9*   | 11.1* | 11.1*   | 9.3*   | 9.3*    | 7.9*   | 7.9*    | 7.0*   | 7.0*    | 6.2*   | 6.2*    | 5.6*   | 5.6*    | 5.0*   | 5.0*    | 4.6*   | 4.6*    |
|        | outriggers up   | 1.9*                                                                                              | 1.9*            | 10.4  | 7.7     | 8.2   | 6.1     | 6.6    | 4.9     | 5.4    | 4.0     | 4.5    | 3.3     | 3.8    | 2.7     | 3.2    | 2.3     | 2.7    | 1.9     | 2.3    | 1.5     |
| 1.5 m  | outriggers down |                                                                                                   |                 | 5.7*  | 5.7*    | 11.6* | 11.6*   | 9.6*   | 9.6*    | 8.2*   | 8.2*    | 7.2*   | 7.1*    | 6.3*   | 6.3*    | 5.6*   | 5.6*    | 5.1*   | 5.1*    | 4.6*   | 4.6*    |
|        | outriggers up   |                                                                                                   |                 | 5.7*  | 5.7*    | 7.5   | 5.4     | 6.1    | 4.4     | 5.1    | 3.7     | 4.2    | 3.1     | 3.6    | 2.5     | 3.1    | 2.1     | 2.6    | 1.8     | 2.2    | 1.5     |
| 0 m    | outriggers down |                                                                                                   |                 | 4.1*  | 4.1*    | 11.6* | 11.6*   | 9.8*   | 9.8*    | 8.4*   | 8.4*    | 7.2*   | 7.2*    | 6.4*   | 6.4*    | 5.7*   | 5.7*    | 5.1*   | 5.1*    | 4.5*   | 4.5*    |
|        | outriggers up   |                                                                                                   |                 | 4.1*  | 4.1*    | 7.0   | 4.9     | 5.7    | 4.1     | 4.8    | 3.4     | 4.0    | 2.8     | 3.4    | 2.4     | 2.9    | 2.0     | 2.5    | 1.7     | 2.2    | 1.4     |
| -1.5 m | outriggers down |                                                                                                   |                 | 4.0*  | 4.0*    | 8.9*  | 8.9*    | 9.9*   | 9.9*    | 8.4*   | 8.4*    | 7.3*   | 7.3*    | 6.4*   | 6.4*    | 5.6*   | 5.6*    | 5.0*   | 5.0*    | 4.4*   | 4.4*    |
|        | outriggers up   |                                                                                                   |                 | 4.0*  | 4.0*    | 6.6   | 4.6     | 5.4    | 3.8     | 4.5    | 3.2     | 3.8    | 2.7     | 3.3    | 2.2     | 2.8    | 1.9     | 2.4    | 1.6     | 2.1    | 1.4     |
| -3.0 m | outriggers down |                                                                                                   |                 | 4.4*  | 4.4*    | 8.3*  | 8.3*    | 9.8*   | 9.8*    | 8.3*   | 8.3*    | 7.2*   | 7.2*    | 6.3*   | 6.3*    | 5.5*   | 5.5*    | 4.8*   | 4.8*    |        |         |
|        | outriggers up   |                                                                                                   |                 | 4.4*  | 4.4*    | 6.4   | 4.4     | 5.2    | 3.6     | 4.4    | 3.0     | 3.7    | 2.5     | 3.2    | 2.2     | 2.8    | 1.8     | 2.4    | 1.6     |        |         |
| -4.5 m | outriggers down |                                                                                                   |                 | 5.0*  | 5.0*    | 8.4*  | 8.5*    | 9.4*   | 9.4*    | 8.1*   | 8.1*    | 6.7*   | 7.0*    | 6.1*   | 6.1*    | 5.3*   | 5.3*    | 4.6*   | 4.6*    |        |         |
|        | outriggers up   |                                                                                                   |                 | 5.0*  | 5.0*    | 6.3   | 4.3     | 5.1    | 3.5     | 4.3    | 2.9     | 3.4    | 2.5     | 3.2    | 2.1     | 2.7    | 1.8     | 2.4    | 1.6     |        |         |
| -6.0 m | outriggers down |                                                                                                   |                 |       |         | 9.0*  | 9.0*    | 8.9*   | 8.9*    | 7.7*   | 7.7*    | 6.6*   | 6.6*    | 5.7*   | 5.7*    | 5.0*   | 5.0*    |        |         |        |         |
|        | outriggers up   |                                                                                                   |                 |       |         | 6.3   | 4.4     | 5.1    | 3.5     | 4.3    | 2.9     | 3.6    | 2.4     | 3.1    | 2.1     | 2.7    | 1.8     |        |         |        |         |

The specified max. loading capacities in tonnes 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 (without tipping cylinder and reversing linkage) 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 hydraulics.

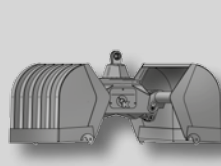
### Attachments



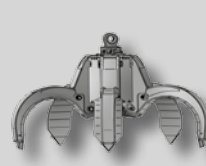
Load hook



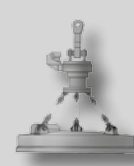
Log grab



Clamshell grab



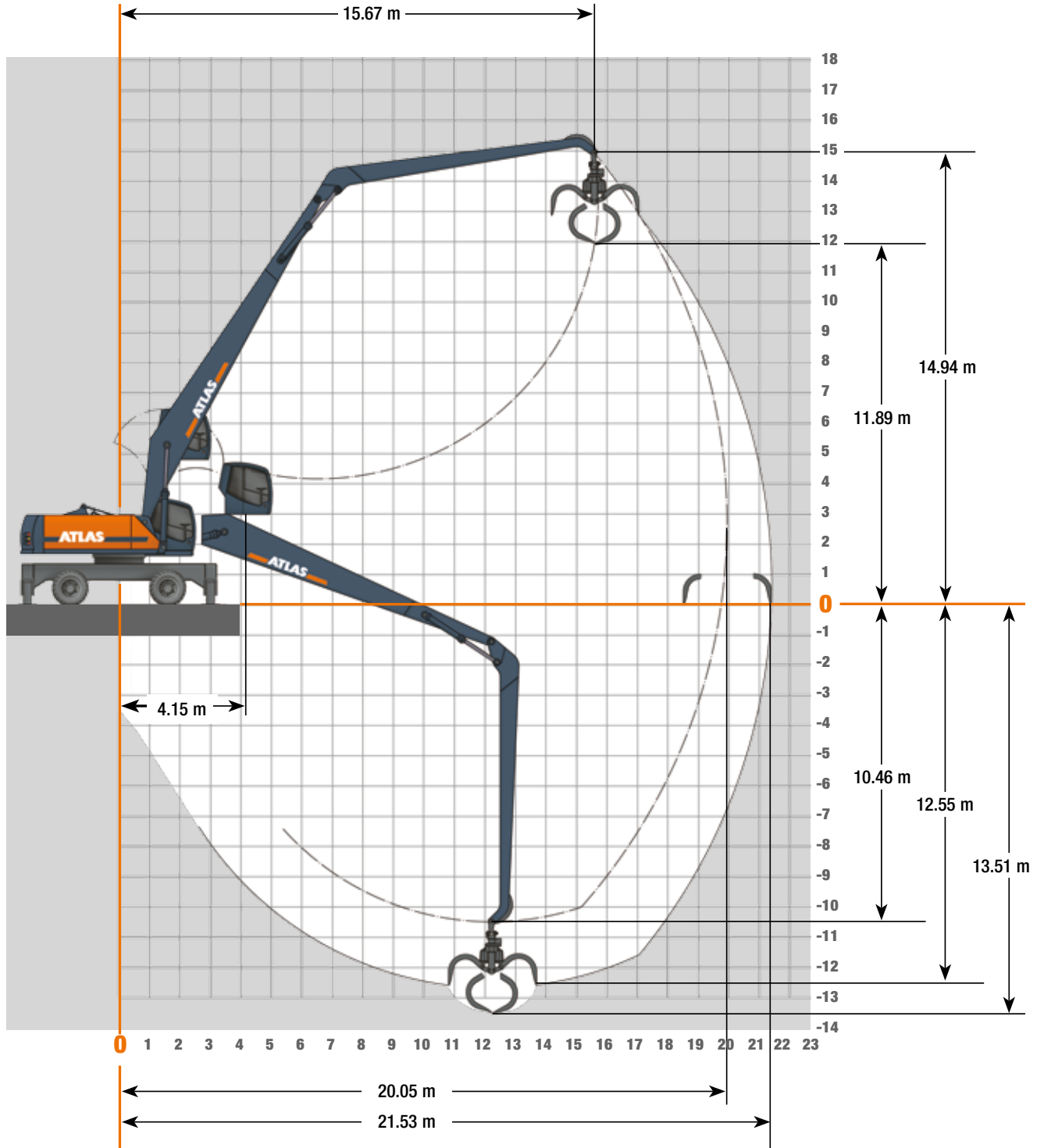
Orange peel grab



Load lifting magnet

# WORKING RANGES 520MH

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



# LIFTING CAPACITIES 520MH

## Lifting Capacities Loading boom 12.10 m (C94.6iD) with Stick 9.24 m (D94.16i)

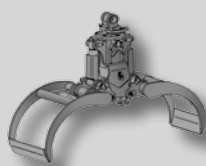
|        |                 | Lifting Capacities Loading boom 12.10 m (C94.6iD) with Stick 9.24 m (D 94.16i). Max. reach 21.53 m |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|--------|-----------------|----------------------------------------------------------------------------------------------------|-----------------|-------|---------|-------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
|        |                 | 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 |         | 19.5 m |         |
| HEIGHT |                 | FRONT                                                                                              | LATERAL         | FRONT | LATERAL | FRONT | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL | FRONT  | LATERAL |
|        |                 | 18.0 m                                                                                             | outriggers down |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         |        |         |        |         |        |         |
| 16.5 m | outriggers down |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.8*   | 3.8*    |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.8    | 3.1     |        |         |        |         |
| 15.0 m | outriggers down |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.8*   | 3.8*    |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.8    | 3.1     |        |         |        |         |
| 13.5 m | outriggers down |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.9*   | 3.9*    | 3.8*   | 3.8*    |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         |        |         | 3.9    | 3.0     | 3.3    | 2.4     |        |         |
| 12.0 m | outriggers down |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         | 4.2*   | 4.2*    | 4.0*   | 4.0*    | 3.9*   | 3.9*    |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         | 4.2*   | 3.6     | 3.9    | 2.9     | 3.2    | 2.4     |        |         |
| 10.5 m | outriggers down |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         | 4.4*   | 4.4*    | 4.2*   | 4.2*    | 4.0*   | 4.0*    |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         |        |         |        |         | 4.4*   | 3.5     | 3.8    | 2.8     | 3.1    | 2.3     |        |         |
| 9.0 m  | outriggers down |                                                                                                    |                 |       |         |       |         |        |         | 5.6*   | 5.6*    | 5.1*   | 5.1*    | 4.7*   | 4.7*    | 4.4*   | 4.4*    | 4.1*   | 4.1*    | 3.9*   | 3.9*    |
|        | outriggers up   |                                                                                                    |                 |       |         |       |         |        |         | 5.6*   | 5.0     | 5.1*   | 4.0     | 4.3    | 3.3     | 3.6    | 2.7     | 3.0    | 2.2     | 2.5    | 1.8     |
| 7.5 m  | outriggers down |                                                                                                    |                 |       |         | 8.1*  | 8.1*    | 6.9*   | 6.9*    | 6.0*   | 6.0*    | 5.4*   | 5.4*    | 4.9*   | 4.9*    | 4.6*   | 4.6*    | 4.3*   | 4.3*    | 4.0*   | 4.0*    |
|        | outriggers up   |                                                                                                    |                 |       |         | 8.1*  | 7.1     | 6.9*   | 5.7     | 6.0    | 4.6     | 5.0    | 3.8     | 4.1    | 3.1     | 3.5    | 2.5     | 3.0    | 2.1     | 2.5    | 1.7     |
| 6.0 m  | outriggers down | 2.4*                                                                                               | 2.4*            | 11.4* | 11.4*   | 9.1*  | 9.1*    | 7.6*   | 7.6*    | 6.5*   | 6.5*    | 5.8*   | 5.8*    | 5.2*   | 5.2*    | 4.8*   | 4.8*    | 4.4*   | 4.4*    | 4.1*   | 4.1*    |
|        | outriggers up   | 2.4*                                                                                               | 2.4*            | 10.8  | 8.0     | 8.5   | 6.4     | 6.8    | 5.1     | 5.6    | 4.2     | 4.7    | 3.5     | 3.9    | 2.9     | 3.3    | 2.4     | 2.8    | 2.0     | 2.4    | 1.6     |
| 4.5 m  | outriggers down |                                                                                                    |                 | 6.1*  | 6.1*    | 9.9*  | 9.9*    | 8.2*   | 8.2*    | 7.0*   | 7.0*    | 6.1*   | 6.1*    | 5.5*   | 5.5*    | 5.0*   | 5.0*    | 4.6*   | 4.6*    | 4.2*   | 4.2*    |
|        | outriggers up   |                                                                                                    |                 | 6.1*  | 6.1*    | 7.7   | 5.7     | 6.3    | 4.6     | 5.2    | 3.8     | 4.4    | 3.2     | 3.7    | 2.7     | 3.2    | 2.2     | 2.7    | 1.9     | 2.3    | 1.5     |
| 3.0 m  | outriggers down |                                                                                                    |                 | 4.4*  | 4.4*    | 10.6* | 10.6*   | 8.7*   | 8.7*    | 7.4*   | 7.4*    | 6.4*   | 6.4*    | 5.7*   | 5.7*    | 5.2*   | 5.2*    | 4.7*   | 4.7*    | 4.3*   | 4.3*    |
|        | outriggers up   |                                                                                                    |                 | 4.4*  | 4.4*    | 7.2   | 5.1     | 5.9    | 4.2     | 4.9    | 3.5     | 4.1    | 3.0     | 3.5    | 2.5     | 3.0    | 2.1     | 2.6    | 1.7     | 2.2    | 1.5     |
| 1.5 m  | outriggers down |                                                                                                    |                 | 4.2*  | 4.2*    | 9.2*  | 9.2*    | 9.1*   | 9.1*    | 7.7*   | 7.7*    | 6.7*   | 6.7*    | 6.0*   | 6.0*    | 5.3*   | 5.3*    | 4.8*   | 4.8*    | 4.4*   | 4.4*    |
|        | outriggers up   |                                                                                                    |                 | 4.2*  | 4.2*    | 6.8   | 4.7     | 5.6    | 3.9     | 4.6    | 3.3     | 3.9    | 2.8     | 3.4    | 2.3     | 2.9    | 2.0     | 2.5    | 1.7     | 2.2    | 1.4     |
| 0 m    | outriggers down |                                                                                                    |                 | 4.5*  | 4.5*    | 8.5*  | 8.5*    | 9.4*   | 9.4*    | 8.0*   | 8.0*    | 7.0*   | 6.9*    | 6.1*   | 6.1*    | 5.4*   | 5.4*    | 4.9*   | 4.9*    |        |         |
|        | outriggers up   |                                                                                                    |                 | 4.5*  | 4.5*    | 6.5   | 4.5     | 5.3    | 3.7     | 4.5    | 3.1     | 3.8    | 2.6     | 3.2    | 2.2     | 2.8    | 1.9     | 2.4    | 1.6     |        |         |
| -1.5 m | outriggers down |                                                                                                    |                 | 5.1*  | 5.1*    | 8.6*  | 8.6*    | 9.6*   | 9.6*    | 8.1*   | 8.1*    | 7.0*   | 7.0*    | 6.2*   | 6.2*    | 5.5*   | 5.5*    | 5.0*   | 4.9*    |        |         |
|        | outriggers up   |                                                                                                    |                 | 5.1*  | 5.1*    | 6.4   | 4.4     | 5.2    | 3.6     | 4.3    | 3.0     | 3.7    | 2.5     | 3.2    | 2.1     | 2.7    | 1.8     | 2.4    | 1.6     |        |         |
| -3.0 m | outriggers down |                                                                                                    |                 | 5.6*  | 5.9*    | 9.1*  | 9.1*    | 9.6*   | 9.6*    | 8.2*   | 8.2*    | 7.1*   | 7.1*    | 6.2*   | 6.2*    | 5.5*   | 5.5*    |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 | 5.6*  | 5.6     | 6.3   | 4.3     | 5.1    | 3.5     | 4.3    | 2.9     | 3.6    | 2.4     | 3.1    | 2.1     | 2.7    | 1.8     |        |         |        |         |
| -4.5 m | outriggers down |                                                                                                    |                 | 6.7*  | 6.7*    | 9.9*  | 9.9*    | 9.5*   | 9.5*    | 8.1*   | 8.1*    | 7.0*   | 7.0*    | 6.1*   | 6.1*    | 5.3*   | 5.3*    |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 | 6.7*  | 5.7     | 6.4   | 4.4     | 5.1    | 3.5     | 4.3    | 2.9     | 3.6    | 2.4     | 3.2    | 2.1     | 2.7    | 1.8     |        |         |        |         |
| -6.0 m | outriggers down |                                                                                                    |                 |       |         | 10.8* | 10.8*   | 9.1*   | 9.1*    | 7.8*   | 7.8*    | 6.7*   | 6.7*    | 5.8*   | 5.8*    |        |         |        |         |        |         |
|        | outriggers up   |                                                                                                    |                 |       |         | 6.5   | 4.5     | 5.2    | 3.6     | 4.3    | 3.0     | 3.7    | 2.5     | 3.2    | 2.1     |        |         |        |         |        |         |

The specified max. loading capacities in tonnes 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 (without tipping cylinder and reversing linkage) 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 hydraulics.

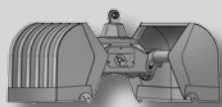
### Attachments



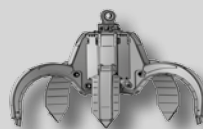
Load hook



Log grab



Clamshell grab



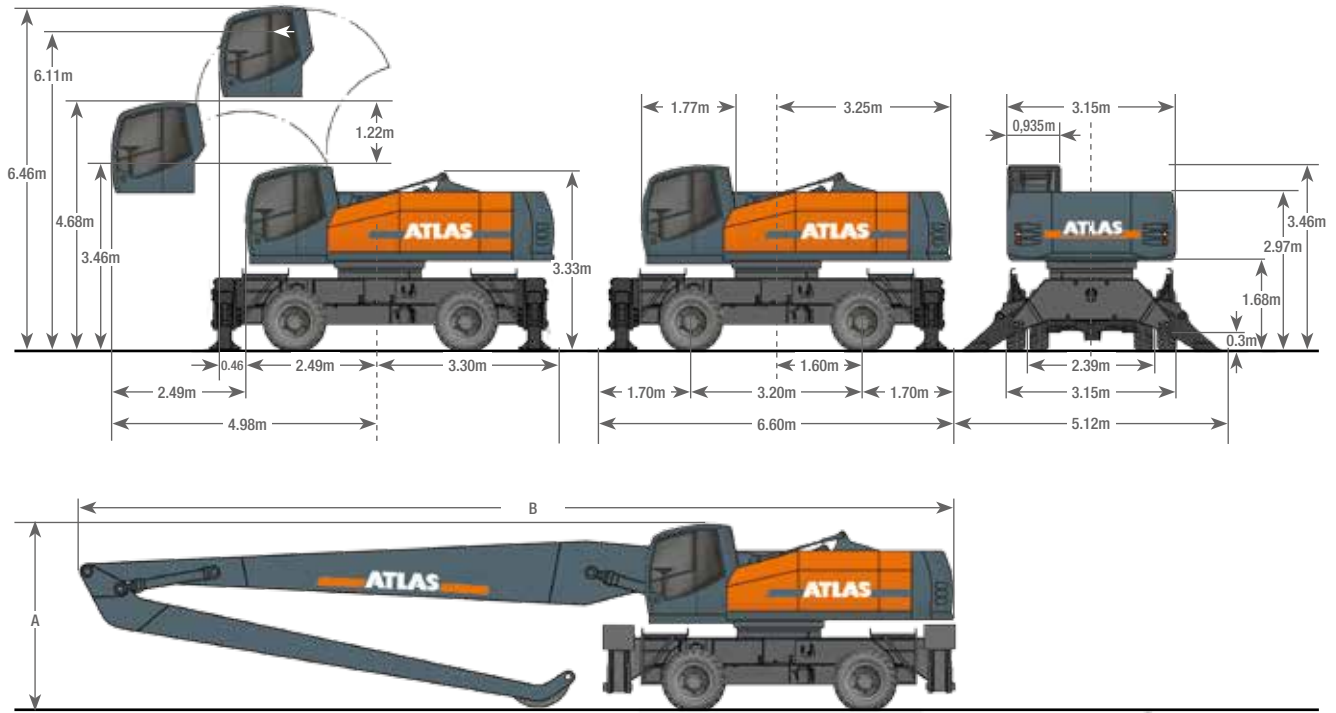
Orange peel grab



Load lifting magnet

# DIMENSION 520MH

## Dimensions



| A | TRANSPORT HEIGHT                                                      | B | TRANSPORT LENGTH                                                       |
|---|-----------------------------------------------------------------------|---|------------------------------------------------------------------------|
|   | Loading boom 9.80 m (C94.5i) with Stick 7.50 m (D94.15i).....3.46 m   |   | 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).....3.46 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).....3.47 m |   | Loading boom 12.10 m (C94.6id) with Stick 9.24 m D94.16i)..... 16.23 m |



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**ATLAS GmbH**  
 EXCAVATORS  
 Atlasstrasse 6  
 27777 Ganderkesee, Germany  
 T: +49 (0) 4222 954 0  
 F: +49 (0) 4222 954 343  
 info@atlasgmbh.com