ATLAS Teamwork: ATLAS Teamwork:

AR 35/35 Super

Operation weight	2500 kg / 2875 kg
Power	24.6 kW (33.5 HP) / 29.4 kW (40 HP)
Shovel capacity	0.34 m³ - 0.40 m³

AR 40

Operation weight	3300 kg
Power	29.4 kW (40 HP)
Shovel capacity	0.50 m³

AR 50

Operation weight	3950 kg
Power	42 kW (57 HP)
Shovel capacity	0.70 m³

AR 60

Operation weight	4650 kg
Power	47.5 kW (65 HP)
Shovel capacity	0.85 m³

AR 65 Super

Operation weight	4700 kg
Power	51.3 kW (70 HP)
Shovel capacity	0.80 - 1.00 m³

AR 75

Operation weight	5600 kg
Power	55 kW (75 HP)
Shovel capacity	1.00 m³

AR 75 S

Operation weight	6000 kg
Power	55 kW (75 HP)
Shovel capacity	0.80 m³

AR 75 T

Operation weight	6000 kg
Power	55 kW (75 HP)
Shovel capacity	1.00 m³

AR 80

Operation weight	5750 kg
Power	59.3 kW (81 HP)
Shovel capacity	1.00 m³

AR 85

Operation weight	6700 kg
Power	71.2 kW (97 HP)
Shovel capacity	1.30 m³

AR 95/95 Super

Operation weight	7900 kg / 8100 kg
Power	74.9 kW (102 HP) / 92 kW (125 HP)
Shovel capacity	1.40 - 1.60 m³

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Technical data without engagement. Subject to change without notice.

AR 50

Landscaping, construction trade, recycling, material handling, agriculture
Service weight: 3950 kg
Power: 42 kW

TECHNICAL DATA AR 50

Engine

Make: Deutz Diesel engine TD 2009 L04
Type: water cooled
Power***: set to 42 kW (57 hp) at 2200 min^{-1}
Max. torque: 200 Nm at 1500 min^{-1}
Stroke: 2290 cm^3
Cylinders: 4 in line
Electrical System: Operating voltage 12 V
Battery 12 V/88 Ah Alternator 14 V/50 A
Starter 12 V/2,0 kW

Drive

- Output regulated hydrostatic drive with pressure cut off and closed circuit acting on all 4 wheels
- Speed with standard tires:
- Operating speed range 0–6,5 km/h
- Road speed range 0–20 km/h
- 1st and 2nd hydraulic gear can be engaged under load, forward/backward travel also
- Forward/backward travel, speed ranges and off-position operational via ATLAS joystick
- Drive operated by accelerator and separate inching pedal for best distribution of the hydraulic power for thrust and lifting forces

Axles

Rigid axles with planetary reduction gears in wheel hubs, connecting electrically 100% - differential lock in front and rear axle.

Brakes

Standard brake: Multi-disc brake in oil bath acting on all 4 wheels. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.

Parking brake: Parking brake as spring-loaded brake acting on all 4 wheels. In case of standstill of engine the spring-loaded brake is automatically re-activated.

Steering

- Fully hydraulic center pivot steering
- Front and rear wheels follow the same track
- Steering angle 40° to each side, ± 12° angular movement at rear of vehicle
- Operating pressure of steering hydraulics 175 bar
- Emergency steering function

Hydraulic system

- Hydraulic system
- Gear pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- 3rd steering section for loading hydraulics mechanically controlled by ATLAS joystick, including float position
- Operating pressure 230 bar
  Delivery of pump 50 l/min

Loading equipment

- Powerful and solid parallel-kinematics
- Hydraulic quick change device
- Activation of all functions by ATLAS joystick
- Automatic mid position of joystick
- Parallel movement while using pallet forks
- Automatic shovel return to excavation position
- Locking device acc. to German StVZO for road travel

Lifting 5 s
Lowering 4 s
Tipping 1,5 s

Standard equipment

- Rear driving mirrors, foldable
- Heatable rear screen
- Access left side, right window to open can be fastened
- Single lever operation via ATLAS joystick
- Control lights for speed, forward/backward travel
- Lights acc. to German StVZO for road travel
- Individually adjustable driver's seat
- Hot water heating with heat exchange and 3-stage fan
- Front windscreen ventilation, variable output
- Sound absorbing ROPS cab
- Windscreen wipe and wash unit in front and rear
- Sun visor, ceiling lamp, stow facility
- Heat protection glazing with large tinted screens
- Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake, air filter
- Central dashboard with indicator for preheating, fuel, working hour meter

Options

- Main battery switch
- Special colors and oils
- Cyclone dust separator
- Load check valve for lifting and working cylinders
- Trailer coupling
- Radio
- Warning beacon

More options upon request

Tires

Standard:
12.5 – 18 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths

Special tires:
12.5 – 20 MPT – Multi-purpose tires for sand and gravel surfaces, woodland, roads and paths
405/70 R18 SPT9 – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping
400/70 R 20 XMCL – Wheel loader tires for clay, sand, gravel, fields and greenland, fortified roads
335/80 R20 EM – Construction machine tires for clay, sand, gravel, asphalting, roads, gardening and landscaping
15.5/55 R 18 – Construction machine tires for clay, sand, gravel, broken stone and fortified roads
More special tires upon request

Fuel/oil capacities

Diesel:	61.5 l
Hydraulic oil:	60 l
Engine oil:	10 l
Front axle:	5 l
Rear axle:	5.8 l
Gear oil:	2.5 l
Cooling liquid:	4.5 l

Operating data

Shovel capacity acc. to SAE:	0.7 m^3
Track width:	1460 mm
Turning radius (outer shovel edge):	3977 mm
Tear out force:	4000 daN
Torque:	3800 daN
Tipping load, straight:	3080 kg
Tipping load, articulated:	2710 kg
Lifting capacity at ground level:	3400 daN
Service weight:	3950 kg

Differing data for use of pallet forks (500 mm distance to center of gravity)*

Static tipping load, straight and articulated:	2139 kg
Lifting capacity:	2700 daN
Payload 80% even surface**:	1711 kg
Payload 60% uneven surface**:	1283 kg

Sound level

Average acoustic power-level L_WA (1):	98.2 dB (A)
Guaranteed acoustic power-level L_WA (2):	99.0 dB (A)
Sound pressure level L_PA (3):	78.0 dB (A)

Specific vibration-data

Hand-/arm-/body-vibration(4): < 2.5 / 0.5 m/s^2

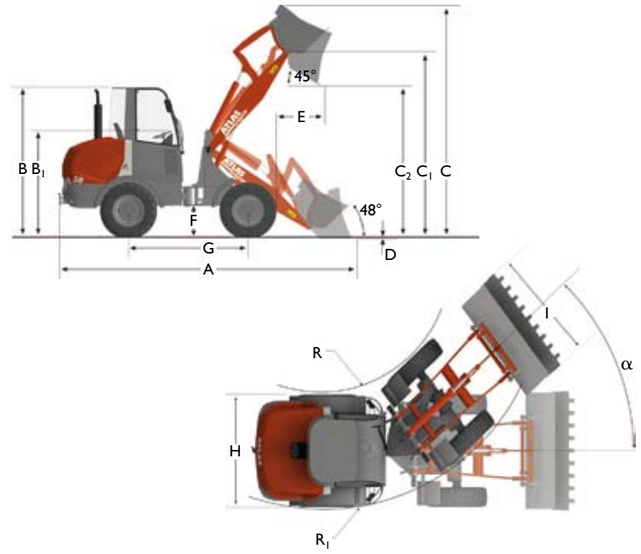
* Travel with load only permitted close to the ground.
** According to ISO 8313 and EN 474-3
*** According to ISO 14396, EU RL97/68/EC.
(1) According to 2000/14/EG & appendixes.
(2) According to 2000/14/EG & appendixes.
(3) According to ISO 6396.
(4) According to ISO 8041.

Specific gravity for material handling

material	weight (t/m3)
Construction	
concrete	1.9
soil (dry)	1.5
soil (watery)	2.0
rock (fill)	2.4
granite	1.8
limestone	1.6
gravel (dry)	1.9
gravel (watery)	2.1
loam	1.7
plaster	2.2
sand (dry)	1.9
sand (watery)	2.1
sandstone	2.4
shale	2.2
sediment	2.1
crushed stone	1.5
de-icing salt	1.3
clay	1.6
cement	1.7
clinker (stacked)	1.8
Industry	
ember	0.7
brown coal briquette	0.8
ferrous product	7.8
iron ore	2.3
cullet	1.9
gas coke	0.4
timber	0.8
mineral coal	1.2
paper	0.9
slag	1.0
slag concrete	2.7
Landscaping, agriculture	
agricultural crop	0.7
grain	0.6
hay	0.3
potash	1.1
compost	1.0
flour	0.5
clay (watery)	2.3
phosphate fertilizer	2.2
turf (watery)	1.1
turf (dry)	0.4
mineral fertiliser	1.0

Technical data with standard shovel.

AR 50	
A	5140
B	2487
B_1	1762
C	4105
C_1	3270
C_2	2550
D	88
E	340
F	440
G	1988
H	1785
I	1850
R	1840
R_1	3690
All specifications in mm	
α	40°



Technical data with pallet forks.

AR 50	
A	5555
B	2487
B_1	1762
C	3510
C_1	3060
C_2	1340
D	71
E	160
E_1	1110
E_2	655
F	440
G	1988
H	1785
I	1030
R	1840
R_1	3690
All specifications in mm	
α	40°

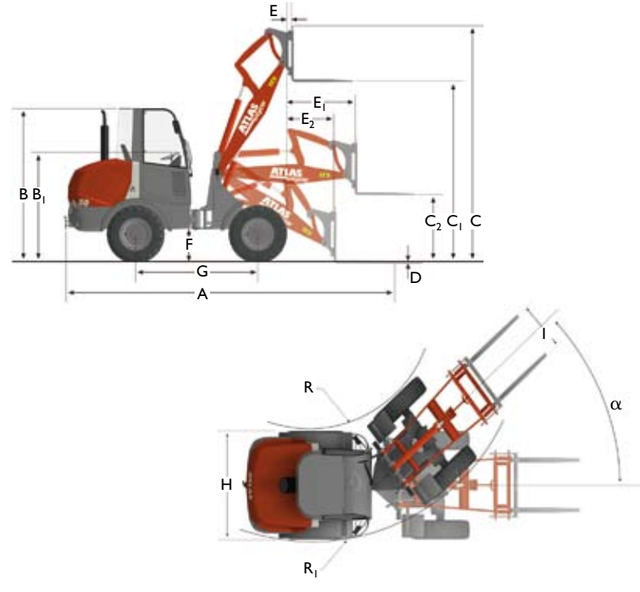


Diagram for shovel selection