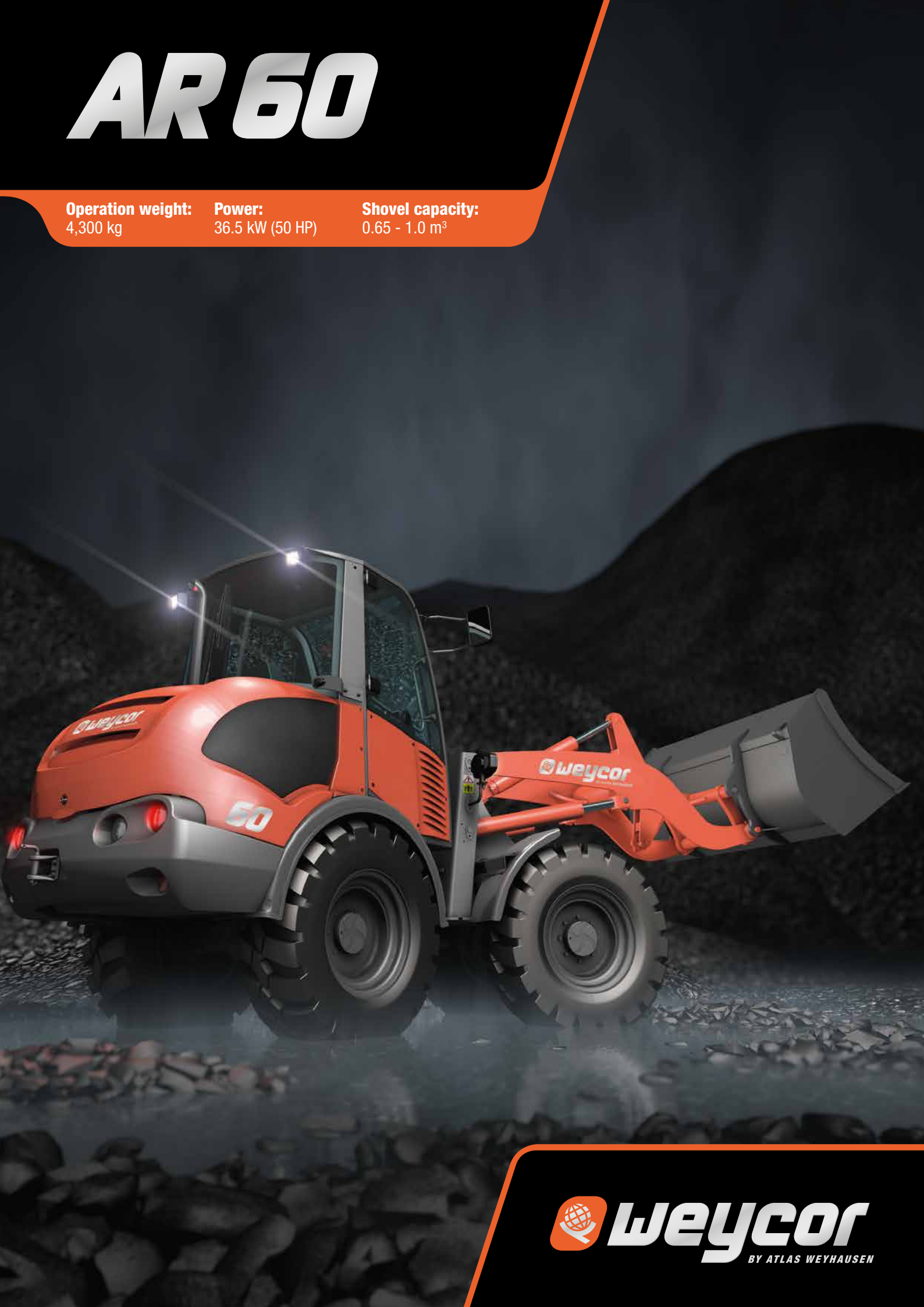
AR 60

Operation weight:
4,300 kg

Power:
36.5 kW (50 HP)

Shovel capacity:
0.65 - 1.0 m^3



weycor
BY ATLAS WEYHAUSEN

AR 60

PROVEN TECHNOLOGY IN OPTIMUM QUALITY.

weycor wheel loaders are more than the sum of their parts. They reflect true passion, a fascination with technology and ‘Made in Germany’ quality.

The AR 60 is perfect for the construction industry, horticulture, landscape gardening and agriculture. The engine maintains the required NOx and PM limits in accordance with the most stringent emission regulations with an output of 36.5 kW (50 HP).

The weycor AR 60 has all the inner values that people appreciate in weycor wheel loaders: stability, long lifespan and impressive performance data.

Reflecting the ATLAS Weyhausen philosophy of always focusing on the optimum solution, the AR 60 has a series of technical highlights as standard features. Numerous options also permit flexible adaptation to your individual requirements.









WEYCOR: POWERFUL, PRECISE, RELIABLE.



LATEST KINEMATICS TECHNOLOGY

The proven and tested weycor kinematics with its exceptional tear-out force and excellent lifting heights. The tapered loading rocker makes sure you can always keep an eye on the attachment.



EASY MAINTENANCE

Low-maintenance and quick, easy servicing is achieved by central, consolidated, easy-to-reach service points.

COMFORTABLE CABIN

In addition to the excellent circumferential visibility in the wheel loader, its clearly arranged controls and its ergonomic design.

POWERFUL DRIVE UNIT

weycor wheel loaders are equipped with state-of-the-art engines which combine high power reserves for challenging operations with up-to-date low emission values.



YANMAR ENGINE TECHNOLOGY

4TNV88-BD
Building off the proven TNE design, Yanmar has achieved superior exhaust emissions by improving the combustion chamber and fuel injection equipment design. Engines are compliant with 2008 EPA TIER 4 exhaust emissions regulations.
The TNV engines offer even more enhanced durability due to better block cooling. CAE analysis has brought lower vibrations and higher strength to the mounting structure for even better reliability in heavy-duty jobs.
A newly designed, in-line MP type fuel injector pump is utilized to assure more precise fuel delivery and control. The result is reduced emissions, improved performance over a wide range of applications.



HYDRAULIC QUICK-CHANGE ATTACHMENT

By allowing you to change the wheel loader's attachments in a few seconds, it turns the vehicle into an all-rounder.



ARTICLATED PENDULUM JOINT

Provides for excellent maneuverability and cross-country mobility. Even on challenging terrain, the low center of gravity ensures exceptional stability.



SEPARATE INCHING PEDAL

Less wear & tear and fuel consumption: In contrast to the conventional combined brake/inching pedal, with the separate inching pedal, the risk of inadvertently activating the main brake while you drive is eliminated.



NEGATIVE BRAKE

Serves to maintain a stable position while the wheel loader is driven on slopes with the brake or inching function activated. All four wheels are automatically blocked as soon as the engine is stopped.

AR 60

TECHNICAL DATA

ENGINE

Make ..... Yanmar Diesel engine 4TNV88-BD
Type ..... water cooled
Power* ..... set to 36.5 kW (50 HP) at 3,000 min^{-1}
Max. torque ..... 140 Nm at 1,800 min^{-1}
Stroke ..... 2,190 cm^3
Cylinders ..... 4 in line

ELECTRICAL SYSTEM

Operating voltage ..... 12 V
Battery ..... 12 V / 88 Ah
Alternator ..... 14 V / 55 A
Starter ..... 12 V / 2.3 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
  Optional high speed 40 km/h (upon request)
- 1st and 2nd hydraulic gear can be engaged under load, forward/backward travel also
- Forward/backward travel, speed ranges and off-position operational via weycor joystick
- Drive operated by accelerator and separate inching pedal for best distribution of the hydraulic power for thrust and lifting forces

BRAKES

Standard brake: Multi-disc brake in oil bath acting on rear axle. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.
Parking brake: Parking brake as spring-loaded brake acting on rear axle. In case of standstill of engine the spring-loaded brake is automatically reactivated.

AXLES

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

STEERING

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

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 R20 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 R18 – Construction machine tires for clay, sand, gravel, broken stone and fortified roads

Special tires upon request

HYDRAULIC SYSTEM

- Gear pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- 3rd section
- Loading hydraulic hydraulically preactivated by weycor joystick, including float position
- Operating pressure 230 bar,
  Delivery of pump 60 l/min

LOADING EQUIPMENT

- Powerful and solid Z-kinematics with high tear out force
- Hydraulic quick change device
- Activation of all functions by weycor joystick
- Parallel movement while using pallet forks
- Automatic mid position of joystick
- Automatic shovel return to excavation position
- Locking device acc. to German StVZO for road travel
  Lifting 5.0 s
  Lowering 3.6 s
  Tipping 1.5 s

FUEL/OIL CAPACITIES

Diesel ..... 61.5 Liter
Hydraulic oil ..... 57 Liter
Engine oil ..... 7.4 Liter
Front axle ..... 5 Liter
Rear axle ..... 5.8 Liter
Gear oil ..... 2.5 Liter
Cooling liquid ..... 8.5 Liter

STANDARD EQUIPMENT

INCLUSIVE

- Rear driving mirrors, foldable
- Heatable rear screen
- Access left side, right window to open can be fastened
- Activation of all functions by weycor joystick
- Control lights for speed range, 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 largetinted screens
- Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake, air filter
- Central dashboard with indicators for preheating, fuel, working hour meter

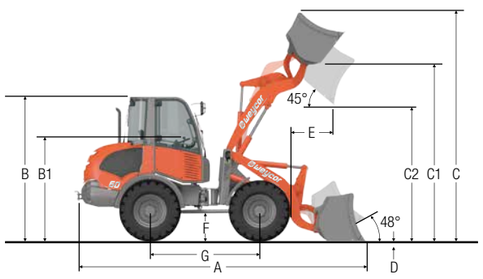
OPTIONS

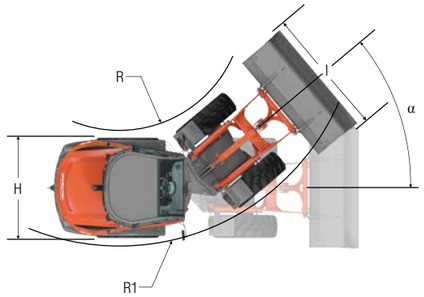
TECHNICAL OPTIONS

- Main battery switch
- Special paintings and oils
- Cyclone dust separator
- Additional counterweight (+350 kg valid for service weight 4,300 kg)
- FOPS roof Level II
- Stability damping system
- Load check valve for lifting and working cylinders
- Trailer coupling
- Anti-theft-device with code stick
- Radio
- Warning beacon

More options upon request

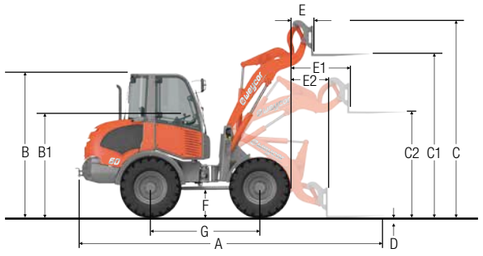
TECHNICAL DATA AR 60 WITH STANDARD SHOVEL

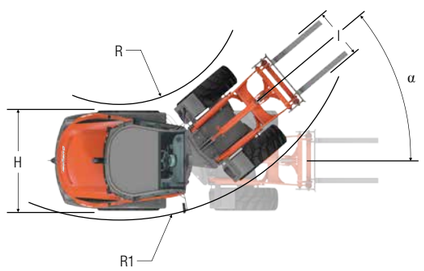




A	5,250 mm
B	2,475 mm
B1	1,765 mm
C	3,930 mm
C1	3,130 mm
C2	2,475 mm
D	85 mm
E	670 mm
F	440 mm
G	2,000 mm
H	1,785 mm
I	1,850 mm
R	1,840 mm
R1	3,690 mm
α	40°

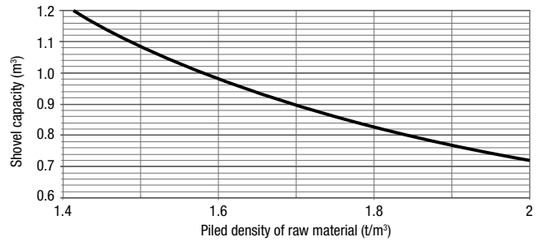
TECHNICAL DATA AR 60 WITH PALLET FORKS





A	5,540 mm
B	2,475 mm
B1	1,765 mm
C	3,380 mm
C1	2,925 mm
C2	1,315 mm
D	70 mm
E	430 mm
E1	1,200 mm
E2	750 mm
F	440 mm
G	2,000 mm
H	1,785 mm
I	1,030 mm
R	1,840 mm
R1	3,690 mm
α	40°

DIAGRAM FOR SHOVEL SELECTION



SPECIFIC GRAVITY FOR MATERIAL HANDLING 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 fertiliser	2.2
turf (watery)	1.1
turf (dry)	0.4
mineral fertiliser	1.0

OPERATING DATA

Shovel capacity acc. to SAE	0.85 m^3
Track width	1,460 mm
Turning radius (outer shovel edge)	3,977 mm
Tear out force	5,160 daN
Torque	4,100 daN
Tipping load, straight	3,059 kg (3,635 kg)
Tipping load, articulated	2,701 kg (3,200 kg)
Lifting capacity at ground level	4,650 daN
Service weight	4,300 kg (4,650 kg)

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

Static tipping load, straight and articulated	2,137 kg (2,574 kg)
Lifting capacity	2,845 daN
Payload 80% even surface**	1,709 kg (2,059 kg)
Payload 60% uneven surface***	1,282 kg (1,544 kg)

Sound level

Average acoustic power-level L_WA(1)	100.2 dB(A)
Guaranteed acoustic power-level L_WA(2)	101.0 dB(A)
Sound pressure level L_pA(3)	80.0 dB(A)
Specific vibration-data Hand- / arm- / bodyvibration(4)	< 2.5/0.5 m/s²

* 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.

AR 60e

Operation weight:
4,550 kg

Power:
45.6 kW (61 HP)

Shovel capacity:
0.85 - 1.0 m^3



weycor
BY ATLAS WEYHAUSEN

AR 60 e

SMALL e.
BIG EFFECT.

weycor wheel loaders are more than the sum of their parts. They reflect true passion, a fascination with technology and ‘Made in Germany’ quality.

It’s thanks to the innovative spirit of our people, their dedication to detail and their passion for powerful engine technology that this new **e-generation of wheel loaders** has been developed.

The small **‘e’** stands for
- emission reduction: Keeps the required NOx and PM limits in accordance with the most stringent emission regulations
- efficient: Higher power, lower consumption
- evolutionary: Advanced designs that are optimised down to the smallest detail









WEYCOR: POWERFUL, PRECISE, RELIABLE.



LATEST KINEMATICS TECHNOLOGY

The proven and tested weycor kinematics with its exceptional tear-out force and excellent lifting heights. The tapered loading rocker makes sure you can always keep an eye on the attachment.



EASY MAINTENANCE

Low-maintenance and quick, easy servicing is achieved by central, consolidated, easy-to-reach service points.

COMFORTABLE CABIN

In addition to the excellent circumferential visibility in the wheel loader, its clearly arranged controls and its ergonomic design.

POWERFUL DRIVE UNIT

weycor wheel loaders are equipped with state-of-the-art engines which combine high power reserves for challenging operations with up-to-date low emission values.



YANMAR ENGINE TECHNOLOGY

4TNV86CHT-M
Building off the proven TNE design, Yanmar has achieved superior exhaust emissions by improving the combustion chamber and fuel injection equipment design. Engines are compliant with 2008 EPA TIER 4 exhaust emissions regulations.
The TNV engines offer even more enhanced durability due to better block cooling. CAE analysis has brought lower vibrations and higher strength to the mounting structure for even better reliability in heavy-duty jobs.
A newly designed, in-line MP type fuel injector pump is utilized to assure more precise fuel delivery and control. The result is reduced emissions, improved performance over a wide range of applications.



HYDRAULIC QUICK-CHANGE ATTACHMENT

By allowing you to change the wheel loader's attachments in a few seconds, it turns the vehicle into an all-rounder.



ARTICLATED PENDULUM JOINT

Provides for excellent maneuverability and cross-country mobility. Even on challenging terrain, the low center of gravity ensures exceptional stability.



SEPARATE INCHING PEDAL

Less wear & tear and fuel consumption: In contrast to the conventional combined brake/inching pedal, with the separate inching pedal, the risk of inadvertently activating the main brake while you drive is eliminated.



NEGATIVE BRAKE

Serves to maintain a stable position while the wheel loader is driven on slopes with the brake or inching function activated. All four wheels are automatically blocked as soon as the engine is stopped.

AR 60e

TECHNICAL DATA

ENGINE

Make ..... Yanmar Diesel engine 4TNV86CHT-M
Type ..... water-/intercooled
Power ..... set to 45.6 kW (61 HP) at 2,300 min^{-1}
Max. torque ..... 198 Nm at 1,690 min^{-1}
Stroke ..... 2,091 cm^3
Cylinders ..... 4 in line

ELECTRICAL SYSTEM

Operating voltage ..... 12 V
Battery ..... 12 V / 100 Ah
Alternator ..... 14 V / 55 A
Starter ..... 12 V / 2.3 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
  Optional high speed 40 km/h (upon request)
- 1st and 2nd hydraulic gear can be engaged under load, forward/backward travel also
- Forward/backward travel, speed ranges and off-position operational via weycor joystick
- Drive operated by accelerator and separate inching pedal for best distribution of the hydraulic power for thrust and lifting forces

BRAKES

Standard brake: Multi-disc brake in oil bath acting on rear axle. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.
Parking brake: Parking brake as spring-loaded brake acting on rear axle. In case of standstill of engine the spring-loaded brake is automatically reactivated.

AXLES

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

STEERING

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

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 R20 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 R18 – Construction machine tires for clay, sand, gravel, broken stone and fortified roads

Special tires upon request

HYDRAULIC SYSTEM

- Gear pump for loading and steering hydraulics
- Priority valve favoring steering hydraulics
- 3rd section
- Loading hydraulic activated by weycor joystick, including float position
- Operating pressure 230 bar, Delivery of pump 60 l/min

LOADING EQUIPMENT

- Powerful and solid Z-kinematics with high tear out force
- Hydraulic quick change device
- Activation of all functions by weycor joystick
- Parallel movement while using pallet forks
- Automatic mid position of joystick
- Automatic shovel return to excavation position
- Locking device acc. to German StVZO for road travel
  Lifting 5.0 s
  Lowering 3.6 s
  Tipping 1.5 s

FUEL/OIL CAPACITIES

Diesel ..... 61.5 Liter
Hydraulic oil ..... 57 Liter
Engine oil ..... 7.4 Liter
Front axle ..... 5.5 Liter
Rear axle ..... 5.3 Liter
Gear oil ..... 0.7 Liter
Cooling liquid ..... 8.5 Liter

STANDARD EQUIPMENT

INCLUSIVE

- Rear driving mirrors, foldable
- Heatable rear screen
- Access left side, right window to open can be fastened
- Activation of all functions by weycor joystick
- Control lights for speed range, 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 largetinted screens
- Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake, air filter
- Central dashboard with indicators for preheating, fuel, working hour meter

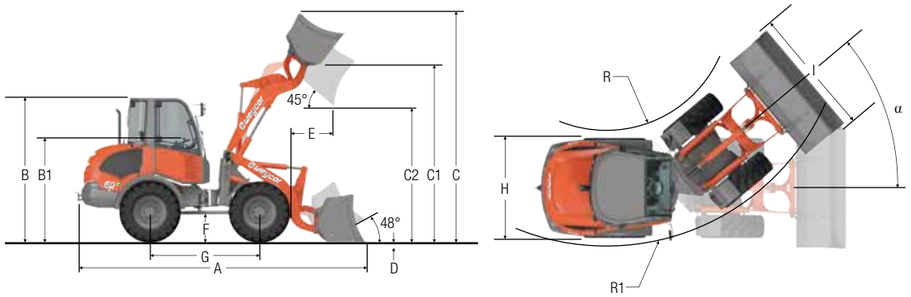
OPTIONS

TECHNICAL OPTIONS

- Main battery switch
- Special paintings and oils
- FOPS roof Level II
- Stability damping system
- Load check valve for lifting and working cylinders
- Trailer coupling
- Anti-theft-device with code stick
- Radio
- Warning beacon
- Heavy rear weight

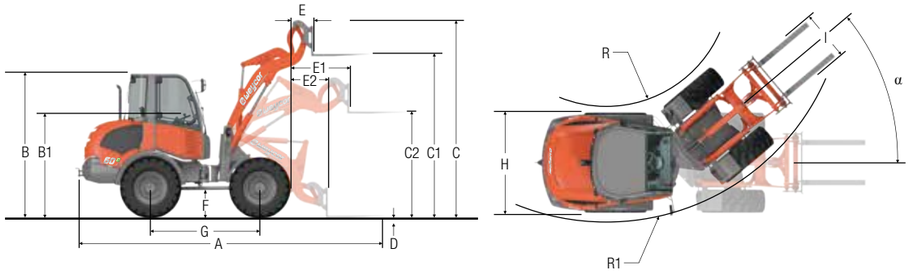
More options upon request

TECHNICAL DATA AR 60e WITH STANDARD SHOVEL



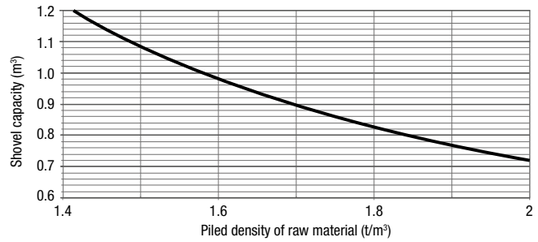
A	5,250 mm
B	2,475 mm
B1	1,765 mm
C	3,930 mm
C1	3,130 mm
C2	2,475 mm
D	85 mm
E	670 mm
F	440 mm
G	2,000 mm
H	1,785 mm
I	1,850 mm
R	1,840 mm
R1	3,690 mm
α	40°

TECHNICAL DATA AR 60e WITH PALLET FORKS



A	5,540 mm
B	2,475 mm
B1	1,765 mm
C	3,380 mm
C1	2,925 mm
C2	1,315 mm
D	70 mm
E	430 mm
E1	1,200 mm
E2	750 mm
F	440 mm
G	2,000 mm
H	1,785 mm
I	1,030 mm
R	1,840 mm
R1	3,690 mm
α	40°

DIAGRAM FOR SHOVEL SELECTION



SPECIFIC GRAVITY FOR MATERIAL HANDLING 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 fertiliser	2.2
turf (watery)	1.1
turf (dry)	0.4
mineral fertiliser	1.0

OPERATING DATA

Shovel capacity acc. to SAE	0.85 m^3
Track width	1,460 mm
Turning radius (outer shovel edge)	3,970 mm
Tear out force	5,160 daN
Torque	4,000 daN
Tipping load, straight	3,150 kg (3,550 kg)
Tipping load, articulated	2,780 kg (3,100 kg)
Lifting capacity at ground level	4,650 daN
Service weight	4,550 kg (4,850 kg)

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

Static tipping load, straight and articulated	2,270 kg (2,540 kg)
Lifting capacity	2,845 daN
Payload 80% even surface**	1,816 kg (2,032 kg)
Payload 60% uneven surface***	1,362 kg (1,524 kg)

Sound level (Test results)

Arithmetic mean value of measured Sound Power Levels	L_{WA}=100 dB/1pW
Declared Sound Power Level	L_{WAd}=101 dB/1pW
EU-Limit Value according to 2000/14/EG resp. 2005/88/EG	L_{WAlim}=101 dB/1pW
Specific vibration-data Hand- / arm- / bodyvibration(4)	< 2.5/0.5 m/s²

* 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.

09/2017

You can find our current product range and more exciting details at: **www.products.weycor.de**

Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice, errors expected. The technical data refer only to the standard version, illustrations do not necessarily show the standard version of the machine. Not all products are available in all markets.

weycor is a brand of ATLAS WEYHAUSEN GMBH.

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