

OPERATING WEIGHT **2,500 - 3,200 kg** 

AR 320

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ENGINE OUTPUT 18.5 kW (25 HP) SHOVEL CAPACITY **0.34 - 0.7 m<sup>3</sup>** 



Sheer Wester Hall

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# **Operating data**

Shovel capacity	<b>0.34</b> m <sup>3</sup>
Track width	1,070 mm
Turning radius (outer shovel edge)	3,242 mm
Tear out force	2,430 daN
Torque	2,300 daN
Tipping load, straight	1,512 kg
Tipping load, articulated	1,336 kg
Lifting capacity at ground level	2,100 daN
Operating weight	2,500 kg

### Specifications

Differing data for use of pallet forks <sup>(3)</sup> (500 mm distance to center of gravity)	
Static tipping load, straight and articulated	1,114 kg
Lifting capacity	1,600 daN
Payload 80% even surface <sup>(4)</sup>	891 kg
Payload 60% uneven surface <sup>(4)</sup>	668 kg
Sound level	
Average sound power level $L_{W}A^{(5)}$	100.1 dB(A)
Guaranteed sound power level $L_{\!W}\!A^{(\!6\!)}$	101.0 dB(A)
Sound pressure level $L_p A^{(7)}$	83.0 dB(A)
Vibration values hand/arm/whole body vibration <sup>(8)</sup>	< 2.5/0.5 m/s <sup>2</sup>

(3) Loads must always be moved to the ground. (4) According to ISO 8313 and EN 474-3. (5) According to 2000/14/EC and Annexes. (6) According to 2000/14/EC and Annexes. (7) According to ISO 8396. (8) According to ISO 8041.

# **FIRST IMPRESSIONS COUNT!**

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 generation of wheel loaders has been developed.

# 2,500<sup>(1)</sup> KG OPERATING WEIGHT

# **18.5**<sup>(2)</sup> KW (25 HP) ENGINE OUTPUT

# 0.34 M<sup>3</sup> SHOVEL CAPACITY

# Important Information on Shovel Size / Shovel Contents:

The details contained in this brochure relate solely to the weycor shovels referred to in the respective data sheet, with the associated technical parameters and configurations on which the respective CE approval for the device is based. The volume of the specific usable shovel depends on the material-specific bulk weights (t/m<sup>3</sup>) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m<sup>3</sup>. Regardless of this, neither the wheel loader's permissible working weight nor its permissible tipping loads may be exceeded. If the wheel loader is equipped with shovels that are not manufactured and licenced by Atlas Weyhausen GmbH, the buyer and / or the operator is solely responsible for compliance with the relevant statutory regulations and licensing requirements - particularly those relating to road-traffic and road-traffic-licensing law.

(1) Service weight may vary with different equipment.

(2) Power output ISO 14396, exhaust gas aftertreatment according to EU 2016/1628. All technical data refer exclusively to the standard unit.

# **DETAILS THAT MAKE AN IMPRESSION**

It is demanding to meet the new legal requirements for exhaust emissions. The challenge is to create also tangible benefits for our customers. We are proud to have achieved both in the development of the current wheel loader generation: more power - less consumption, plus a number of others innovations that really make a difference on tough construction sites.

## 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.

# 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.

### Easy maintenance

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

### Articulated-pendulum joint

In weycor wheel loaders, we use robust, low-maintenance articulated-swivel joints almost exclusively in conjunction with rigid axes. With an oscillation of  $\pm 12^\circ$  in the rear carriage and an articulation angle of 40°, these provide outstanding cross-country mobility, protect the ground and offer extreme manoeuvrability. With their low centre of gravity, weycor wheel loaders have a high tilt stability even under extreme conditions.

# Inching Pedal

As the only manufacturer, our wheel loaders have a separate inching pedal as standard. This prevents the possibility of moving against the operating brake, in contrast to the combination of a brake/inch pedal. A generously proportioned inching range facilitates precise distribution of shearing and lifting forces. The result: less wear and lower fuel consumption.

### **Optional cabin version**

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

# ARE

# 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.

# Low center of gravity

Thanks to their low center of gravity, weycor wheel loaders are secured against tipping, even under extreme circumstances.

# INNOVATIVE ENGINE TECHNOLOGY

# Yanmar 3TNV 76 - intelligent efficient

The motor convinces by an electronic motor control with intelligent connection to the drive management. This ensures the best engine performance with low fuel consumption.

# Mighty performance

18.5 kW at a maximum of 3,000 rpm

Compliance with emission standards  $\ensuremath{\mathsf{EU}}\xspace$  Level V



### **Reliable and durable**

The TNV motors offer a long service life due to efficient motor cooling, lower vibrations and the use of optimized components with fine tolerances.





# **TECHNICAL DATA**

# Engine

-	
Model	Yanmar 3TNV 76
Design	water-cooled
Output	18.5 kW <sup>(1)</sup> (25 HP) at 3,000 rpm
Max. torque	96 Nm at 1,800 rpm
Cubic capacity	1,116 cm <sup>3</sup>
Number of cylinders	3 in line

# **Electrical system**

Operating voltage	12 V
Battery	12 V / 66 Ah
Generator	14 V / 40 A
Starter	12 V / 1,1 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** 0–19 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 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:** Drum brake on front axle via cardan acting on all 4 wheels. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels.

**Parking brake:** Drum brake via funicular link acting on all 4 wheels with engine switch off.

# Axles

Rigid axles with planetary reduction gears in wheel hubs. 27%-differential lock in front 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 145 bar Emergency steering function

### Tires (Special tires upon request)

Standard: 10.0/75-15.3 MPT – Multi-purpose tires for sand and gravel surface, woodland, roads and paths Special tires: 11.5/80-15.3 MPT – Multi-purpose tires for sand and gravel surface, woodland, roads and paths

12-16.5 MT – Construction machine tires for soft surfaces, asphalting, roads, gardening and landscaping

31x15.5 15E – Multi-purpose tires for earth moving machines,

particularly surface friendly

15.5/55 R18 – Multi-purpose tires for earth moving machines, particularly surface friendly, gardening and landscaping

# Hydraulic system

Gear pump for loading and steering hydraulics Priority valve favoring steering hydraulics 3rd steering section for loading hydraulics mechanically controlled by weycor joystick, including float position Operating pressure 230 bar, Delivery of pump 33 l/min

# Fuel/oil capacities

i dei/on capacities	
Diesel	58 Liter
Hydraulic oil	28 Liter
Engine oil	3 Liter
Front axle	4 Liter
Rear axle	3.5 Liter
Gear oil	0.65 Liter
Cooling liquid	6 Liter

# Loading equipment

Powerful and solid Z-kin	ematics with high tear out force
Hydraulic quick change of	device
Activation of all functions	s by weycor joystick
Parallel movement while	using pallet forks
Automatic shovel return	to excavation position
Automatic mid position of	of joystick
Locking device acc. to Ge	erman StVZO for road travel
Lifting	5.0 s
Lowering	3.5 s
Tipping	1.0 s

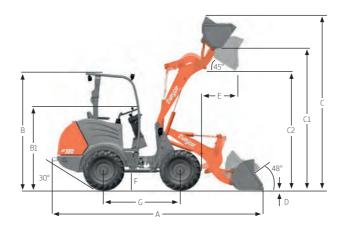
# Equipment – Series

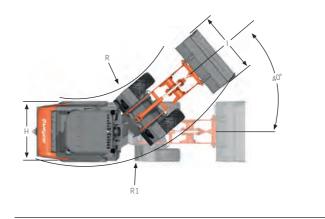
weycor canopy cabin with roll-bar protection
Activation of all functions by weycor joystick
Control lights for speed range, forward/backward travel
Lights acc. to German StVZO for road travelt
Individually adjustable driver's seat
Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake, air filter
Central dashboard with indicators for preheating, fuel, working hour meter

Equipment – Option
4th section front or rear
Main battery switch
Special paintings and oils
Cyclone dust separator
Trailer coupling
Left hinged adjustable window, right window to open can be fastened
Hot water heating with heat exchange and 3-stage-fan
Front windscreen ventilation, variable output
Rear driving mirrors, foldable
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
Anti-theft-device with code stick
Radio
Warning beacon
Front and rear working lights
Additional counterweight

# **TECHNICAL DATA**

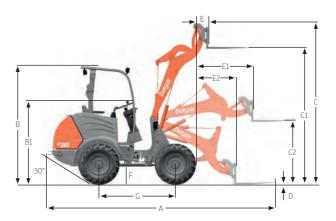
	AR 320 with standard shovel	AR 320 with pallet forks			
A	4,240 mm	4,730 mm			
В	2,366 mm	2,366 mm			
B1	1,630 mm	1,630 mm			
B2	2,340 mm*	2,340 mm*			
C	3,340 mm	3,010 mm			
C1	2,800 mm	2,550 mm			
C2	2,300 mm	1,130 mm			
D	55 mm	145 mm			
Ξ	595 mm	300 mm			
E1	-	1,010 mm			
E2	-	680 mm			
=	350 mm	350 mm			
Ĵ	1,580 mm	1,580 mm			
4	1,350 mm	1,350 mm			
	1,350 mm	1,030 mm			
R	1,495 mm	1,495 mm			
R1	2,872 mm	2,872 mm			
		* Cab Versic			

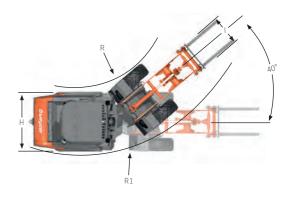




With standard shovel

Construction			Industry		Landscaping, Agriculture		
Concrete	1.9	Sand (watery)	2.1	Ember	0.7	Agricultural crop	0.7
Soil (dry)	1.5	Sandstone	2.4	Brown coal briquette	0.8	Grain	0.6
Soil (watery)	2.0	Shale	2.2	Ferrous product	7.8	Hay	0.3
Rock (fill)	2.4	Sediment	2.1	Iron ore	2.3	Potash	1.1
Granite	1.8	Crushed stone	1.5	Cullet	1.9	Compost	1.0
Limestone	1.6	De-icing salt	1.3	Gas coke	0.4	Flour	0.5
Gravel (dry)	1.9	Clay	1.6	Timber	0.8	Clay (watery)	2.3
Gravel (watery)	2.1	Cement	1.7	Mineral coal	1.2	Phosphate fertiliser	2.2
Loam	1.7	Clinker (stacked)	1.8	Paper	0.9	Turf (watery)	1.1
Plaster	2.2			Slag	1.0	Turf (dry)	0.4
Sand (dry)	1.9			Slag concrete	2.7	Mineral fertiliser	1.0





With pallet forks



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

weycor is a brand of ATLAS WEYHAUSEN GMBH.

