

AR 580

OPERATING WEIGHT
9,700 kg

ENGINE OUTPUT
100 kW (134 HP)

SHOVEL CAPACITY
1.8 – 2.6 m³





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.

9,700 ^{KG} OPERATING WEIGHT

100 ^{KW (134 HP)} ENGINE OUTPUT

1.8 ^{M³} STANDARD SHOVEL CAPACITY

Operating data

Shovel capacity acc. to SAE	1.8 m³
Track width	1,780 mm
Turning radius (outer shovel edge)	5,250 mm
Tear out force	7,000 daN
Torque	6,190 daN
Tipping load, straight	7,573 kg
Tipping load, articulated	6,706 kg
Lifting capacity at ground level	8,200 daN
Operating weight	9,700 kg

Specifications

Differing data for use of pallet forks (500 mm distance to center of gravity)*	
Static tipping load, straight and articulated	5,727 kg
Lifting capacity	6,800 daN
Payload 80% even surface**	4,582 kg
Payload 60% uneven surface***	3,436 kg
Sound level	
Average sound power level L _{WA} ⁽¹⁾	102.0 dB(A)
Guaranteed sound power level L _{WA} ⁽²⁾	103.0 dB(A)
Sound pressure level L _{pA} ⁽³⁾	79.0 dB(A)
Vibration values hand/arm/whole body vibration ⁽⁴⁾	< 2.5/0.5 m/s²

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/m³) of the shovel contents, which you can take as approximations from the data sheet's TABLE OF SPECIFIC WEIGHTS IN t/m³. 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.

*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.

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.

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

Articulated pendulum joint

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

Comfortable cabin

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

Powerful drive unit

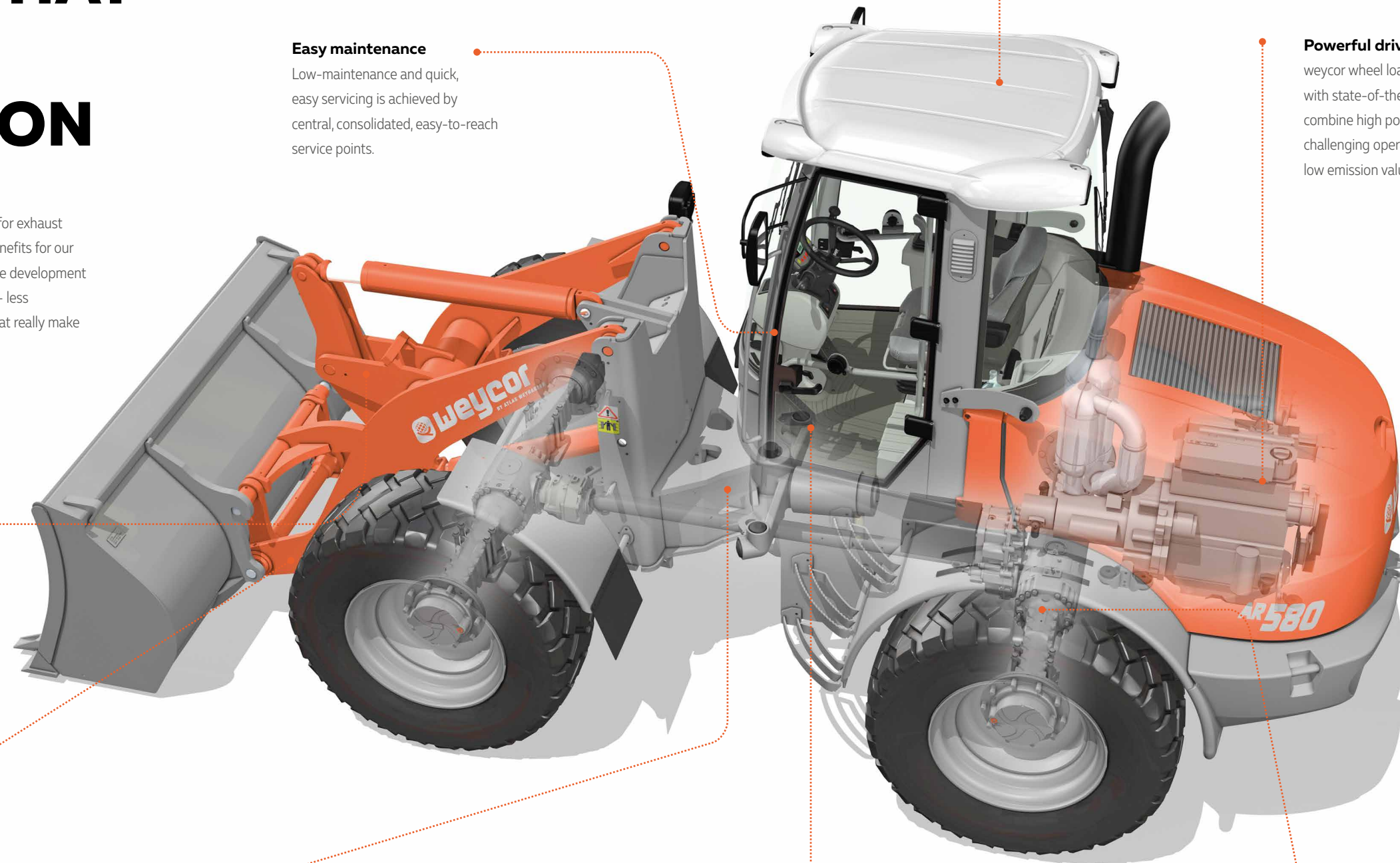
weycor wheel loaders are equipped with state-of-the-art engines which combine high power reserves for challenging operations with up-to-date low emission values.

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.



INNOVATIVE ENGINE TECHNOLOGY

TCD 3.6 – intelligent efficient:

We have been convinced of the quality of Deutz engines for over 40 years. Our cooperation with Deutz also offers numerous benefits for the AR 580: such as the electronic engine control with intelligent connection to the drive management. This ensures the best engine performance with low fuel consumption.



Deutz engine technology: TCD 3.6

Water-cooled 4-cylinder inline engine with cooled, external exhaust gas recirculation with turbocharging and optionally with and without charge air cooling. The oxidation catalyst for EU Stage IIIB and US EPA Tier 4 enables maintenance-free operation under all application and ambient conditions. A particulate filter (DPF) is available as an option. With the introduction of EU Stage V, DPF will be available for all engine types. For ease of machine installation engine foot print and all major installation interfaces will stay unchanged for Stage V.

Mighty performance

100 kW at a maximum of 2,200 rpm

Compliance with emission standards

EU Stage 4 - DOC + SCR

EU Stage 5 - DOC + DPF + SCR from 2019



TECHNICAL DATA

Engine	
Model	TCD 3.6
Design	water-cooled
Output	100 kW (134 HP) at 2,200 rpm
Max. torque	500 Nm at 1,600 rpm
Cubic capacity	3,621 cm³
Number of cylinders	4 in line

Electrical system	
Operating voltage	12 V
Battery	12 V / 100 Ah
Generator	14 V / 95 A
Starter	12 V / 4 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 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 all 4 wheels. Supplementary brake functions via inching pedal and hydrostatic drive acting on all 4 wheels. Parking brake: Parking brake as springloaded brake acting on all 4 wheels. 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 <small>(Special tires upon request)</small>
Standard: 17.5-25 EM – Construction machine tires for relatively soft surface with high traction and good self-cleaning Special tires: 460/70 R24 XMCL – Construction machine tires for clay, sand, gravel, fields and greenland, fortified roads 455/70 R24 SPT 9 – Construction machine tires for clay, sand, gravel, fortified roads, gardening and landscaping

Hydraulic system
Variable pump for loading and steering hydraulics Priority valve favoring steering hydraulics 3rd hydraulic section serial Loading hydraulic hydraulically pre-activated by weycor joystick, including float position Operating pressure 250 bar, Delivery of pump 138.6 l/min

Fuel/oil capacities	
Diesel	120 Liter
Hydraulic oil	106 Liter
Engine oil	16 Liter
Front axle	7.2 Liter
Rear axle	7.2 Liter
Gear oil	1.8 Liter
Cooling liquid	23 Liter
AdBlue	10 Liter

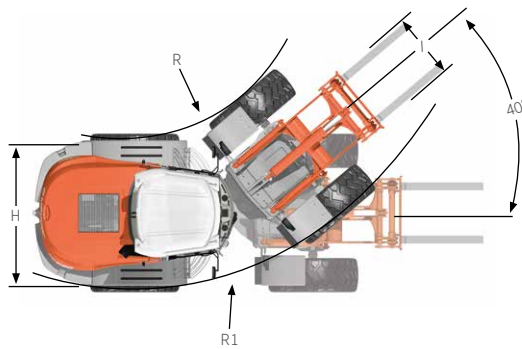
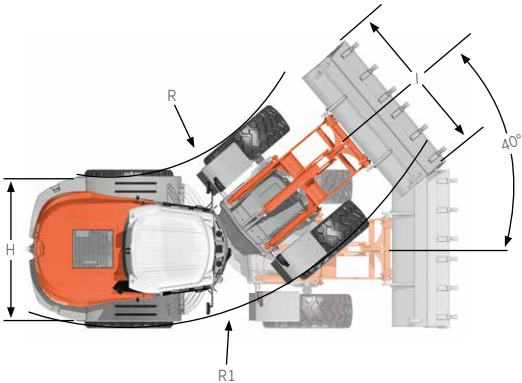
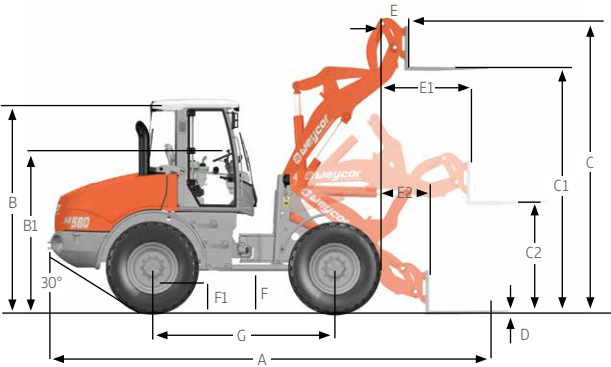
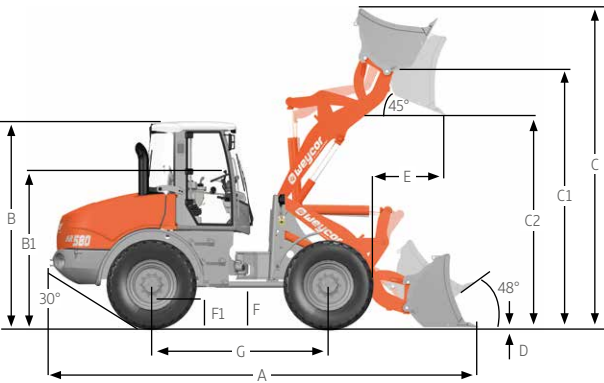
Loading equipment	
Powerful and solid Z-kinematics with high tear out force	
Hydraulic quick change device	
Activation of all functions by weycor joystick	
Parallel movement while using pallet forks	
Automatic shovel return to excavation position	
Automatic center position	
Locking device acc. to German StVZO for road travel	
Lifting	5.9 s
Lowering	4.0 s
Tipping	1.6 s

Equipment – Series
Rear driving mirrors, foldable
Heatable rear screen
Comfortable access to cab from both sides
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 with adjustable right arm rest
Engine water heating with heat exchange and 4-stage fan
Front windscreen ventilation, variable output
Sound absorbing ROPS cab
Working lights front and rear
Windscreen wipe and wash unit in front and rear
Sun visor, coat hook, ceiling lamp, stow facility
Adjustable steering column
Heat protection glazing with largetinted screens
Control lights for engine oil pressure, overheating, hydraulic oil temperature, battery power, parking brake and air filter
Central dashboard with indicators for preheating, engine temperature, fuel, working hour meter
weycor diagnostic system (ADS) for monitoring engine parameters with integrated electronic anti-theft device

Equipment – Option
Stability damping system
Trailer coupling
Main battery switch
Corrosion prevention against salt
Special paintings and oils
Joystick with integrated proportional steering for 3rd section
Warning beacon
Anti-theft-device with code stick
Heatable and air cushioned seats
Air conditioning, auxiliary heating
Radio
Doors with sliding windows, left and right side
LED work light
DPF
Reverse gear alarm
12 V socket 2-pin
12 V socket 13-pin
Bucket level indicator

TECHNICAL DATA

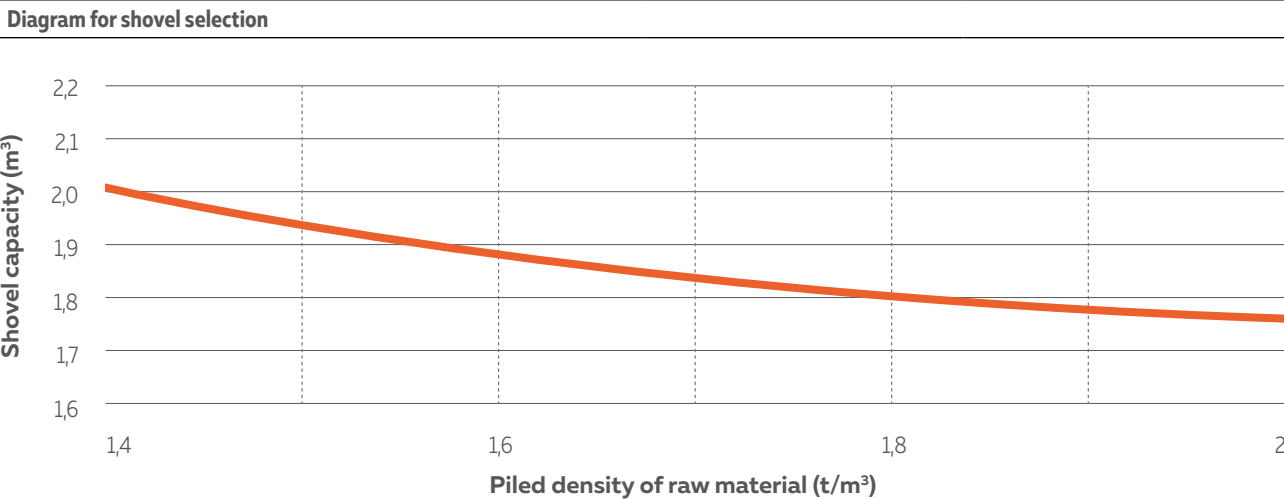
	AR 580 with standard shovel	AR 580 with pallet forks
A	6,405 mm	6,780 mm
B	2,990 mm	2,990 mm
B1	2,205 mm	2,205 mm
C	4,880 mm	4,200 mm
C1	3,810 mm	3,600 mm
C2	2,930 mm	1,700 mm
D	65 mm	50 mm
E	940 mm	490 mm
E1	-	1,320 mm
E2	-	660 mm
F	570 mm	570 mm
F1	410 mm	410 mm
G	2,650 mm	2,650 mm
H	2,225 mm	2,225 mm
I	2,300 mm	1,400 mm
R	2,540 mm	2,540 mm
R1	4,850 mm	4,850 mm



With standard shovel

With pallet forks

Specific gravity for material handling weight (t/m³)							
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





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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 **weycor**
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