

# ARS 220

SOIL COMPACTOR  
T4f

## COMPACTION OUTPUT LEADER

Ammann provides industry-leading compaction output while defining new highest standards in efficiency and cost saving through the ARS 220 T4f Soil Compactor.

The machines meet U.S. EPA Tier 4 Final and EU Stage 4 emissions standards and provide the cleanest and most efficient propulsion. The machines also meet the highest operator standards, with intuitive control via a centralized multifunctional display built into the steering wheel. A wide range of compaction tools such as the ACE<sup>force</sup> system help operators monitor indications of compaction.

### PRODUCTIVITY

**High compaction output**  
Faster compaction of thicker layers with less passes

**No rear axle concept**  
Compact machine design for high stability, manoeuvrability and access

**ACE<sup>force</sup>**  
Intelligent compaction tools for best effectivity

### ERGONOMICS

**Cab design**  
Spacious cab with low noise levels for Operator comfort

**Control and Information display integrated in steering wheel**  
Intuitive machine control and overview even with unskilled Operator thru Multifunctional display

**Visibility**  
Perfect all-around machine visibility for higher safety on the job-site

### SERVICEABILITY

**Tiltable cabin and engine hood**  
Perfect access to service points

**Ground access to service and maintenance points**  
Easy access to service points without additional tools

**Maintenance friendly design**  
Easy and fast daily maintenance

### APPLICATIONS

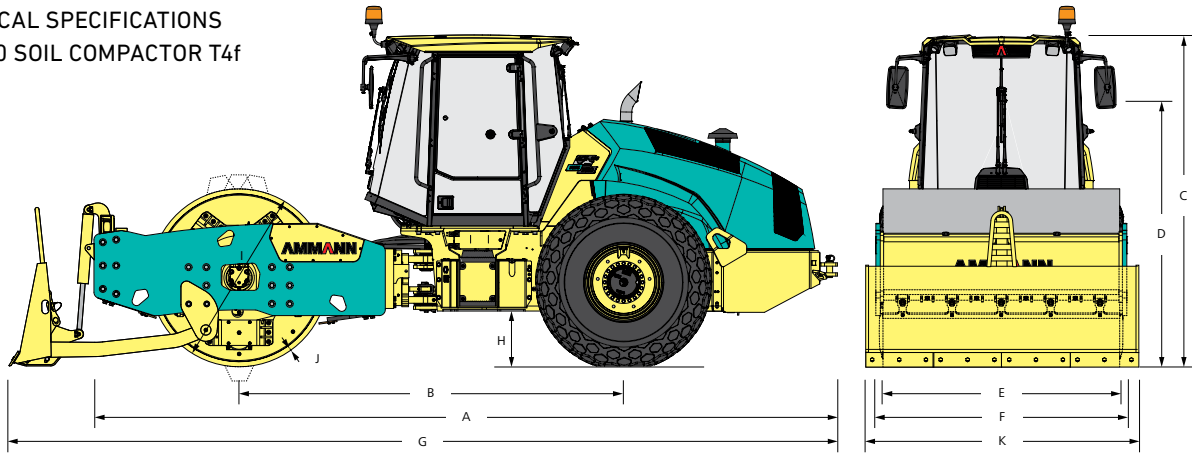
- Large jobsites
- Heavy transport construction (sub-base of railways, airfields, water dams, harbours)

MAXIMUM RECOMMENDED COMPACTED LIFT THICKNESS AT OPTIMAL WORKING CONDITIONS

	Rockfill	Sand / Gravel	Mixed Soils	Silt	Clay
ARS 220	1.85 m (72.8 in)	1.15 m (45.3 in)	0.95 m (37.4 in)	0.75 m (29.5 in)	0.4 m (15.8 in)

**AMMANN**

TECHNICAL SPECIFICATIONS  
ARS 220 SOIL COMPACTOR T4f



**DIMENSIONS**

	D	PD
A MACHINE LENGTH	6730 mm (265 in)	6730 mm (265 in)
B WHEELBASE	3510 mm (138.2 in)	3510 mm (138.2 in)
C MACHINE HEIGHT	2950 mm (116.1 in)	2950 mm (116.1 in)
D MACHINE HEIGHT (REMOVED CAB / ROPS)	2250 mm (88.6 in)	2250 mm (88.6 in)
E DRUM WIDTH	2130 mm (83.9 in)	2130 mm (83.9 in)
F MACHINE WIDTH	2300 mm (90.6 in)	2300 mm (90.6 in)
G MACHINE LENGTH (BLADE)	-	7575 mm (298.2 in)
H GROUND CLEARANCE	500 mm (19.7 in)	500 mm (19.7 in)
I DRUM DIAMETER	1600 mm (63 in)	1795 mm (70.7 in)
J DRUM SHELL THICKNESS	45 mm (1.8 in)	30 mm (1.2 in)
K MACHINE WIDTH (BLADE)	-	2450 mm (96.5 in)

**MISCELLANEOUS**

BRAKES OPERATING	Hydrostatic
BRAKES PARKING	Multiple-discspring brake
BRAKES EMERGENCY	Multiple-discspring brake
FUEL TANK CAPACITY	350 l (92.4 gal)
VOLTAGE	24 V

**WEIGHT & OPERATING CHARACTERISTICS**

OPERATING WEIGHT CECE (D/PD VERSION)	21930 kg (48350 lb)/ 22060 kg (48630 lb)
MAXIMUM WEIGHT	26000 kg (57320.2 lb)
STATIC LINEAR LOAD	66.9 kg/cm (374.6 lb/in)
MAX. TRANSPORT SPEED	12 km/h (7.46) mph)
MAX. WORKING SPEED	7 km/h (4.35 mph)
CLIMBING ABILITY	55(50)%
TURNING RADIUS INNER (EDGE)	4370 mm (172 in)
TURNING RADIUS INNER (CONTOUR)	6710 mm (264.2 in)

**STANDARD EQUIPMENT**

- ATC (Ammann Traction Control)
- Smooth drum
- Two stage vibratory unit
- D drive
- Electrohydraulic cabin & hood tilting
- Working lights head and rear
- Hydraulic test ports on components
- Diamond tread tires

**COMPACTION FORCES**

FREQUENCY I CE	27 Hz (1620 VPM)
FREQUENCY II CE	34 Hz (2040 VPM)
FREQUENCY ACE MIN./MAX.	-
AMPLITUDE I	2 mm (0.079 in)
AMPLITUDE II	1 mm (0.039 in)
AMPLITUDE ACE MIN./MAX.	-
CENTRIFUGAL FORCE I	375 kN
CENTRIFUGAL FORCE II	300 kN
CENTRIF. FORCE ACE MIN./MAX.	-

**ENGINE**

MANUFACTURER	DEUTZ TCD 6.1 L6
POWER ACCORDING TO ISO 14396	160 kW (215 HP)/2200 rpm
MAXIMUM TORQUE	694/1600 Nm/rpm
ENGINE COMPLIES WITH EMISSION REGULATIONS	EU Stage IV, U.S. EPA Tier 4f



**OPTIONAL EQUIPMENT**

- ACE<sup>force</sup>
- ACE GPS monitoring
- PD Drum (or PD Shell Kit)
- HX Drive version
- Air Condition for cab
- Radio with CD
- 360° Illumination Kit
- Ammann Toolkit
- Dozer Blade
- Road lighting
- Warning beacon
- Back-up alarm
- Telematics ready
- Centralised hydraulic test ports
- Tractor tires