

ABG 6820 ABG 7820

ASPHALT PAVERS TRACKED

EU STAGE V



Total paver control

- EPM3: intuitive control with a bird's eye view of a paver on the display
- Consistent, high-quality paving; transfer data from job-to-job with the Settings Manager
- Pave Assist with Thermal Profiling, Weather View and Material Manager
- Lowest noise level in class simplifies communication with the paving team
- Unhampered visibility around the paver
- Different optional lighting kits boost safety when working at night

Long-lasting paving performance

- Premium Volvo (Deutz) Stage V engine combines high torque and low RPM for superior, long-lasting performance
- Powertrain components are perfectly harmonised for high efficiency
- Adaptive Eco Mode matches engine output to demand
- Electronically adapted speed of the hydraulic cooling fan lowers noise and fuel consumption
- Pave Assist provides a powerful set of tools to improve performance, efficiency and paving quality
- Auto track tensioner for smooth paving starts*

Supreme screed technology

- ABG screeds deliver the best pavement quality, uniformity and smoothness
- Selection from a variety of single or double tamper screeds
- Special crown profiles in road surfaces with VB 79/89 or VDT-V 79/89
- Easy screed control with the clear screed panel design
- Quick-coupling for easy vario screed extension assembly*
- Fully hardened tamper bars significantly extend lifetime

Focus on uptime

- Service Interval Manager notifies the operator of required maintenance
- CareTrack advanced telematics system
- Service access from the platform provides ease of maintenance
- MATRIS provides expert analysis of machine operating activity
- ABG service kits save time, lower costs and offer the latest technical advantages

**AN ABG EXCLUSIVE FEATURE*

ABG 6820 | ABG 7820

EU Stage V

| ENGINE | | ABG 6820 | ABG 7820 |
|--------------------|-------|---------------|---------------|
| MANUFACTURER | | Volvo (Deutz) | Volvo (Deutz) |
| MODEL | | D6J | D8J |
| FUEL | | Diesel | Diesel |
| OUTPUT | kW | 140 | 175 |
| | hp | 190 | 238 |
| AT ENGINE SPEED | r/min | 2 000 | 1 800 |
| COOLANT | | Liquid | Liquid |
| FUEL TANK CAPACITY | l | 250 | 250 |
| EXHAUST EMISSION | | EU Stage V | EU Stage V |

PAVING

| | | | |
|-----------------------|-----|-----|-----|
| OUTPUT (THEORETICAL)* | t/h | 700 | 900 |
| MAT THICKNESS (MAX) | mm | 300 | 300 |

*The actual paving output depends upon the mat thickness, the paving width and paving speed and will vary according to paving conditions prevailing on your jobsite.

SPEED

| | | | |
|-----------------|-------|-----|-----|
| PAVING (MAX) | m/min | 20 | 20 |
| TRANSPORT (MAX) | km/h | 3.3 | 3.6 |

UNDERCARRIAGE

| | | | |
|----------------------|----|-------|-------|
| LENGTH | mm | 3 000 | 3 000 |
| WIDTH (TRACK PLATES) | mm | 300 | 300 |

CONVEYOR

| | | | |
|----------------------|-------|------|------|
| HOPPER CAPACITY | t | 13.5 | 13.5 |
| NUMBER OF CONVEYORS | | 2 | 2 |
| CONVEYOR SPEED (MAX) | m/min | 21 | 24 |

AUGER

| | | | |
|-------------|-------|-----|-----|
| SPEED (MAX) | 1/min | 95 | 95 |
| DIAMETER | mm | 360 | 360 |

OPERATING WEIGHTS¹ OF SCREEDS IN KG²

AT WORKING WIDTH

| | 2.5 m | 5 m | 6 m | 6.5 m | 7.5 m | 8 m | 8.5 m | 9 m | 9m(V) | 10 m | 11 m |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ABG 6820 | | | | | | | | | | | |
| VB 78 ETC | - | 3 600 | - | 5 222 | 5 782 | 6 342 | - | 6 903 | - | - | - |
| VDT-V 78 ETC | - | 3 720 | - | 5 442 | 6 032 | - | - | - | - | - | - |
| VB 79 ETC | - | 3 730 | - | 5 352 | 5 912 | 6 472 | - | 7 033 | - | - | - |
| VB 88 ETC | - | - | 3 820 | - | 5 542 | - | 6 102 | 6 662 | - | - | - |
| VDT-V 88 ETC | - | - | 4 450 | - | 6 272 | - | - | - | - | - | - |
| MB 122 ETC | 2 242 | - | 4 456 | - | 6 076 | - | - | 6 828 | 7 454 | 8 050 | 8 575 |
| ABG 7820 | | | | | | | | | | | |
| VB 78 ETC | - | 3 600 | - | 5 222 | 5 782 | 6 342 | - | 6 903 | - | - | - |
| VDT-V 78 ETC | - | 3 720 | - | 5 442 | 6 032 | 6 662 | - | 7 253 | - | - | - |
| VB 79 ETC | - | 3 730 | - | 5 352 | 5 912 | 6 472 | - | 7 033 | - | - | - |
| VDT-V 79 ETC | - | 4 100 | - | 5 822 | 6 412 | 7 072 | - | 7 633 | - | - | - |
| VB 88 ETC | - | - | 3 820 | - | 5 542 | - | 6 102 | 6 662 | - | 7 223 | - |
| VDT-V 88 ETC | - | - | 4 450 | - | 6 272 | - | 6 862 | 7 492 | - | - | - |
| VB 89 ETC | - | - | 4 200 | - | 5 922 | - | 6 482 | 7 042 | - | - | - |
| VDT-V 89 ETC | - | - | 4 570 | - | 6 392 | - | 6 982 | 7 612 | - | - | - |
| MB 122 ETC | 2 242 | - | 4 456 | - | 6 076 | - | - | 6 828 | 7 454 | 8 050 | 8 575 |
| VDT 121 ETC | 2 442 | - | 4 903 | - | 6 680 | - | - | 7 531 | 8 193 | - | - |

¹Including auger extensions, channel plates, end gates, towing arms rear, etc.

²All screeds electrically heated

| DIMENSIONS | | ABG 6820 | ABG 7820 |
|---------------------------------------|----|----------|----------|
| LENGTH WITH VARIO SCREED (WALKWAY UP) | mm | 6 120 | 6 120 |
| WIDTH | mm | 2 548 | 2 548 |
| HEIGHT | mm | 3 785 | 3 785 |
| HEIGHT (TRANSPORT) | mm | 2 934 | 2 934 |

WEIGHT

| | | | |
|--------------|----|--------|--------|
| TRACTOR UNIT | kg | 14 350 | 14 900 |
|--------------|----|--------|--------|

All weights are approx. weights without options.

Weight of tractor without screed, with standard hopper, with fuel tank half full, with towing arms separated, with push roller D=110 mm, and incl. 75 kg driver.

MAX. ALLOWABLE GRADEABILITY

| | | | |
|-----------------------|---|----|----|
| TRACTOR UNIT + SCREED | % | 25 | 25 |
|-----------------------|---|----|----|

Applies to screed VB 78 2.5–5.0 m.

When using extensions the max. allowable gradeability will be reduced.

SOUND LEVEL

| | | | |
|--|----|----|----|
| L _{PA} Sound Pressure Level at Driver's Ear, acc. to ISO 11201 | dB | 82 | 82 |
|--|----|----|----|

| | | | |
|---|----|-----|-----|
| L _{WA} Guaranteed Sound Power Level, acc. to Directive 2000/14/EC | dB | 105 | 105 |
|---|----|-----|-----|

VIBRATION

| | | | |
|--|------------------|------|------|
| HAND-ARM VIBRATION according to ISO 5349:2001 | m/s ² | <2.5 | <2.5 |
| WHOLE BODY VIBRATION according to ISO 2631:1997 | m/s ² | <0.5 | <0.5 |

ELECTRICAL SYSTEM

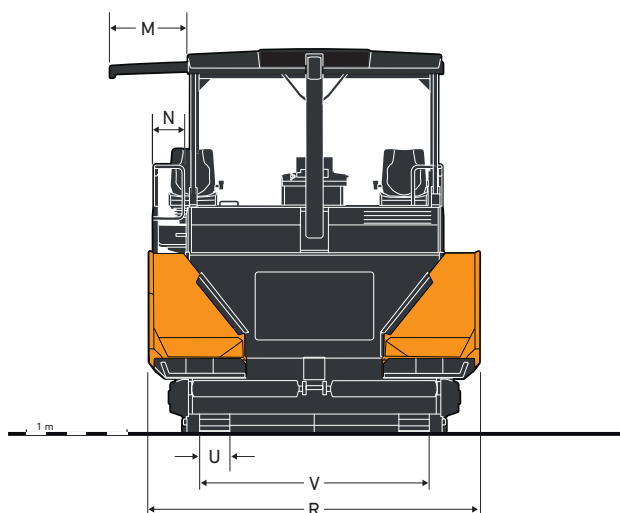
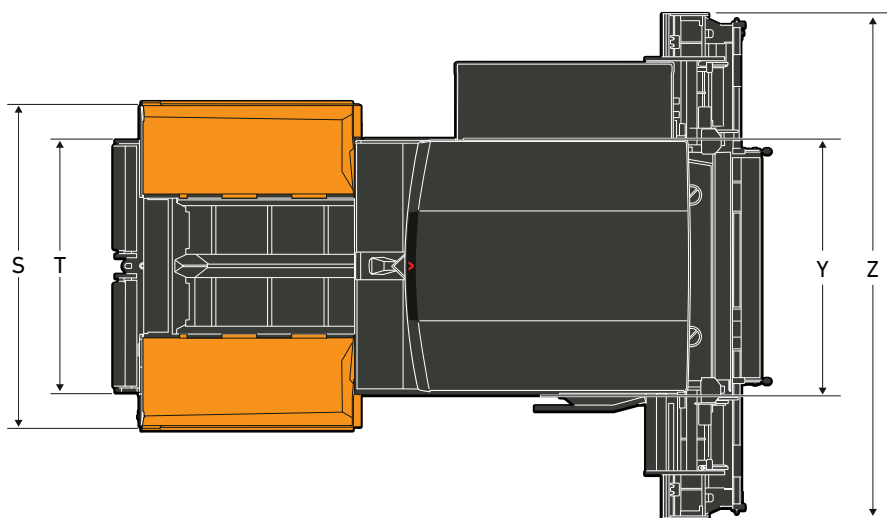
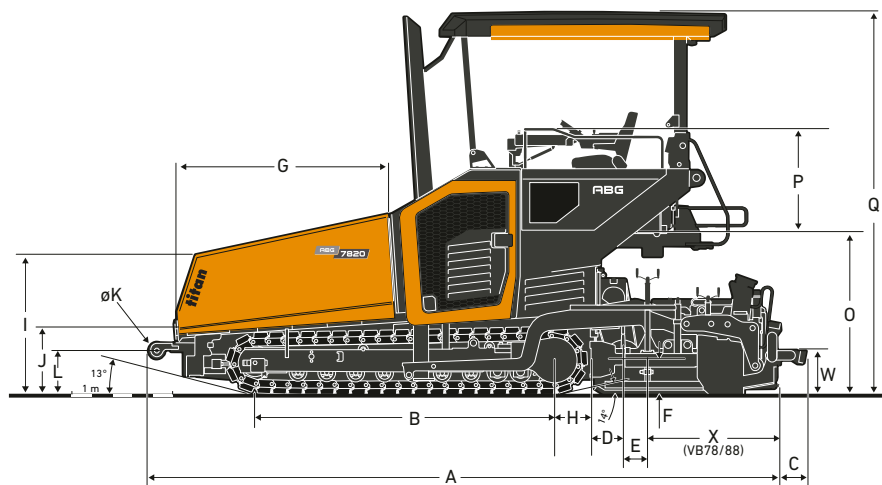
| | | | |
|-----------------|---|----|----|
| BATTERY VOLTAGE | V | 24 | 24 |
|-----------------|---|----|----|

TRACKED ASPHALT PAVERS

DIMENSIONS [mm]

ABG 6820
ABG 7820

| | | |
|---|-----------|----------|
| A | STANDARD | 6 120 |
| | SOFT DOCK | 6 244 |
| B | | 3 000 |
| C | | 268 |
| D | | 275 |
| E | | 265 |
| F | | 360 ± 60 |
| G | | 2 151 |
| H | | 398 |
| I | | 1 385 |
| J | | 607 |
| K | | 160 |
| L | | 436 |
| M | | 770 |
| N | | 320 |
| O | | 1 615 |
| P | | 1 025 |
| Q | UP | 3 785 |
| | DOWN | 2 934 |
| R | OPEN | 3 256 |
| | CLOSED | 2 452 |
| S | | 3 169 |
| T | | 2 495 |
| U | | 300 |
| V | | 2 269 |
| W | | 438 |
| X | | 1 280 |
| Y | | 2 500 |
| Z | | 5 000 |



EQUIPMENT

STANDARD EQUIPMENT

Engine

- Volvo (Deutz) Diesel engine, EU Stage V

Drive

- Electronic drive control
- Lifetime lubricated crawler track rollers
- Forged and hardened crawler track links
- Automatic track tensioner

Material management

- Proportional conveyor sensors
- Four individual hydrostatic drives for conveyors and augers
- Reversible direction of auger rotation
- Hydraulic auger height adjustment
- Proportional ultrasonic sensor auger control

Electrics and electronics

- Electronic Paver Management (EPM 3)
- ECO mode
- Settings Manager
- Service Interval Manager
- Adjustable and revolving main control panel at operator platform

- Two adjustable and revolving screed control panels
- Battery master switch
- Electric switch cabinet
- MATRIS
- Generator for electric screed heating

Structure

- All-weather roof of GRP (glass-fibre reinforced plastic)
- Two seats, laterally extendable
- Anti-vandalism kit
- Near field mirrors at weather roof
- ABG Key

Screed

- Split towing arms
- Screed lock
- Quick coupling system for vario screeds
- Hydraulic crown adjustment vario screeds

Lights

- Operator's platform lighting
- Home light function

Environmental

- Sound insulation

OPTIONAL EQUIPMENT

Material management

- Smart Dock
- Soft Dock
- Heavy push rollers
- Individual operating hopper wings
- Hydraulically operated front apron
- Auger quick lock system
- Heavy duty auger
- Protective half shells for auger shaft
- Auger extensions and additional auger bearings
- Heavy duty conveyor cover
- Reversible conveyor
- Central lubrication
- Front track scraper hydraulic
- Feeder stop

Electrics and electronics

- 230V power sockets
- Lateral emergency stop
- High ambient temperature fan
- CareTrack, GSM installation
- CareTrack, Satellite installation
- Pave Assist (Co-Pilot system)
- Smart View camera system
- Levelling equipment
- Transport case for EPM control panels
- On-board diagnostic function for manual screed heating bars
- White noise alarm

Structure

- Deluxe seats with heating
- Front windscreen
- Tarpaulin side curtains for weather roof
- Custom colours
- Electrohydraulic powered weather roof
- Front ballast weight

Screed

- Screed spacer blocks
- Screed assist
- Screed anti-climbing lock
- Screed load device
- Screed tensioning device
- Hydraulic height adjustment of extendable screed
- Special profiles VB 79, VB 89
- Hydraulically adjustable
- Power-Float screed end gates
- Heatable screed end gate
- Foldable screed walkway

Lights

- Basic Kit Halogen
- Basic Kit LED
- Work Plus Kit LED
- Full Night Kit LED
- Warning beacons LED
- Two balloon lights LED

Environmental

- Fume extractors
- Emulsion spraying system
- High performance spray cleaning unit
- Biodegradable hydraulic oil