

# 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 WEIGHTS<sup>1</sup> OF SCREEDS IN KG<sup>2</sup>

#### 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  |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>ABG 6820</b> |       |       |       |       |       |       |       |       |       |       |       |
| 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 |
| <b>ABG 7820</b> |       |       |       |       |       |       |       |       |       |       |       |
| 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 | -     | -     |

<sup>1</sup>Including auger extensions, channel plates, end gates, towing arms rear, etc.

<sup>2</sup>All 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

|   |    |    |    |
|---|----|----|----|
| $L_{pA}$<br>Sound Pressure Level at Driver's Ear, acc. to ISO 11201 | dB | 82 | 82 |
|---|----|----|----|

|  |    |     |     |
|--|----|-----|-----|
| $L_{WA}$<br>Guaranteed Sound Power Level, acc. to Directive 2000/14/EC | dB | 105 | 105 |
|--|----|-----|-----|

### VIBRATION

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

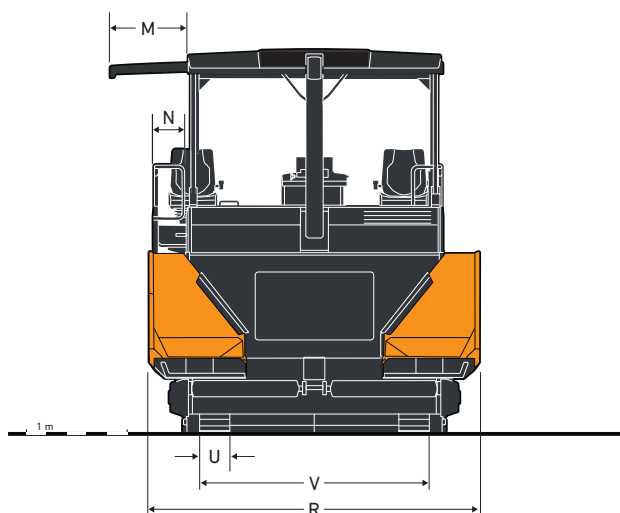
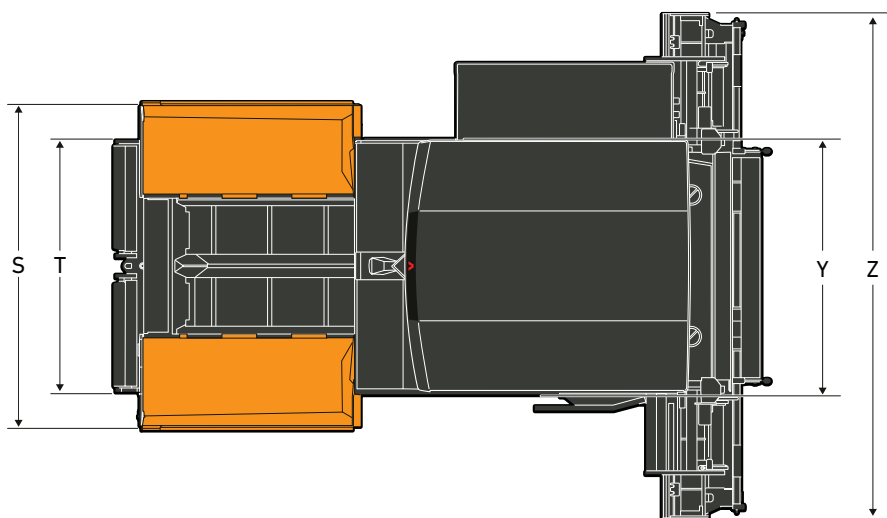
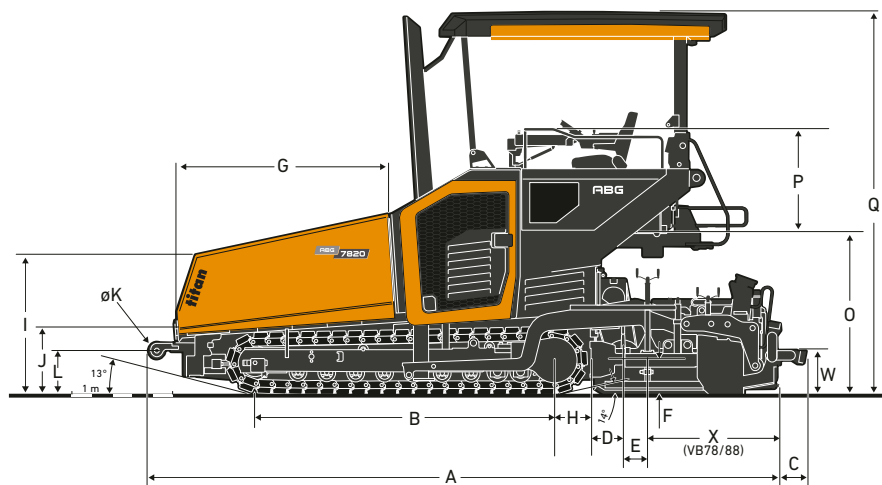
### ELECTRICAL SYSTEM

|                 |   |    |    |
|-----------------|---|----|----|
| 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