

ABG 8820

ASPHALT PAVERS TRACKED

EU STAGE IIIA | EPA TIER 3



Big projects

- High level performance on large paving projects with up to 13-metre paving width
- Outstanding machine stability; excellent surface contact with long and wide tracks
- Volvo (Deutz) engine provides power for big projects
- Best performance with versatile applications of asphalt, concrete and CTB paving

Operator's choice

- 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
- Adaptive Eco Mode and optimized RPM reduce noise levels and fuel consumption
- Unhampered visibility around the paver
- Different optional lighting kits boost safety when working at night
- Smart Dock option: Remote controlled light bars provide visual signals to the tipper driver

Enduring quality

- Optimum material flow with a big conveyor tunnel for up to 1100 t/h
- Auto track tensioner for directional stability*
- Soft Dock option for push rollers: absorb shocks and continue to oscillate at the same time

- Screed load device prevents start-off bumps at large paving widths*
- Screed tensioning device locks torsional stiffness across the length of the screed*

Screeds for ultimate paving results

- Paving a width up to 13 meters with fixed screeds (single or double tamper)
- Vario screed ends available for fixed screeds
- Special crown profiles in road surfaces with VB 79/89 or VDT-V 79/89
- Quick-coupling for easy vario screed extension assembly*
- Fully hardened tamper bars significantly extend lifetime
- Double tamper screeds offer the highest levels of pre-compaction density behind the screed
- Hydraulic endgates, featuring power float (option)

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 8820

EU Stage IIIA | EPA Tier 3

ENGINE	ABG 8820	
MANUFACTURER	Volvo (Deutz)	
MODEL	D7E	
FUEL	Diesel	
OUTPUT	kW	182
	hp	247
AT ENGINE SPEED	r/min	2 000
COOLANT	Liquid	
FUEL TANK CAPACITY	l	250
EXHAUST EMISSION	EPA Tier 3	

PAVING	ABG 8820	
OUTPUT (THEORETICAL)*	t/h	1 100
MAT THICKNESS (MAX)	mm	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	ABG 8820	
PAVING (MAX)	m/min	20
TRANSPORT (MAX)	km/h	3.6

CONVEYOR	ABG 8820	
HOPPER CAPACITY	t	14.7
NUMBER OF CONVEYORS	2	
CONVEYOR SPEED (MAX)	m/min	23

AUGER	ABG 8820	
SPEED (MAX)	1/min	100
DIAMETER	mm	360

OPERATING WEIGHTS¹ OF SCREEDS IN KG² AT WORKING WIDTH

ABG 8820	2.5 m	4 m	5 m	6 m	6.5 m	7.5 m	8 m	8.5 m	9 m	9 m (V)	10 m	11 m	12 m	12 m (V)	13 m
VB 78 ETC	-	-	3 600	-	5 222	5 802	6 342	-	6 923	-	-	-	-	-	-
VDT-V 78 ETC	-	-	3 850	-	5 592	6 192	6 832	-	7 433	-	-	-	-	-	-
VB 79 ETC	-	-	4 050	-	5 672	5 252	6 922	-	7 373	-	-	-	-	-	-
VDT-V 79 ETC	-	-	4 300	-	6 042	6 642	7 282	-	7 883	-	-	-	-	-	-
VB 88 ETC	-	-	-	4 050	-	5 772	-	6 352	6 892	-	7 473	-	-	-	-
VDT-V 88 ETC	-	-	-	4 450	-	6 242	-	6 842	7 482	-	-	-	-	-	-
VB 89 ETC	-	-	-	4 500	-	6 222	-	6 802	7 342	-	-	-	-	-	-
VDT-V 89 ETC	-	-	-	4 800	-	6 422	-	7 242	7 882	-	-	-	-	-	-
MB 122 ETC	2 242	-	-	4 456	-	6 076	-	-	6 828	7 454	8 050	8 575	9 070	9 679	9 878
VDT 121 ETC	2 442	-	-	4 903	-	6 680	-	-	7 531	8 193	-	-	10 029	10 675	10 975

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

² All screeds electrically heated

WEIGHT	ABG 8820	
TRACTOR UNIT	kg	17 060

All weights are approx. weights without options.

Weight of the tractor includes front flap hopper, standard push rollers, generator, half-full fuel tank and 75 kg operator.

MAX. ALLOWABLE GRADEABILITY

TRACTOR UNIT + SCREED	%	12
-----------------------	---	----

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	84
---	----	----

L _{WA} Guaranteed Sound Power Level, acc. to Directive 2000/14/EC	dB	106
--	----	-----

VIBRATION

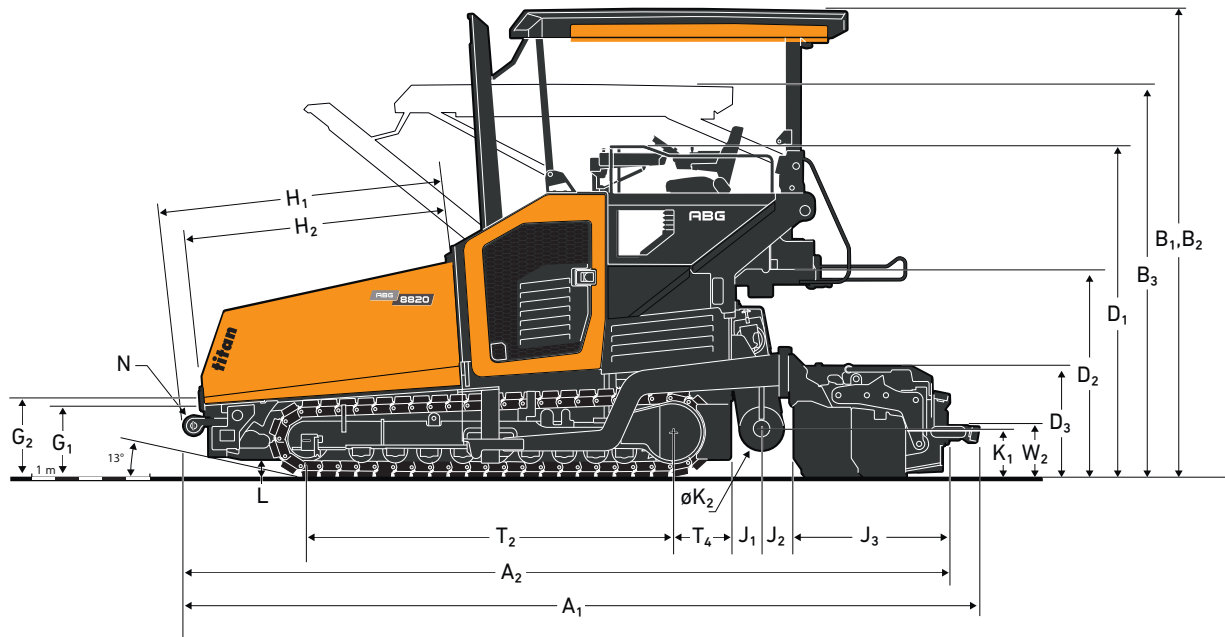
HAND-ARM VIBRATION accord. to ISO 5349:2001	m/s ²	<2.5
--	------------------	------

WHOLE BODY VIBRATION accord. to ISO 2631:1997	m/s ²	<0.5
--	------------------	------

ELECTRICAL SYSTEM

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

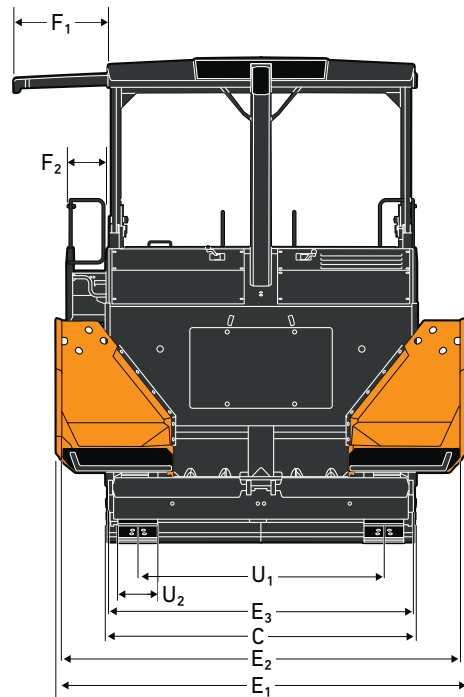
TRACKED ASPHALT PAVERS



DIMENSIONS [MM]

ABG 8820

A ₁	OPERATING LENGTH	6 696
A ₂	SHIPPING LENGTH	6 446
B ₁	OPERATING HEIGHT	3 952
B ₂	HEIGHT WEATHER ROOF	3 952
B ₃	SHIPPING HEIGHT	3 078
C	TRACTOR WIDTH	2 548
D ₁	HEIGHT RAILING	2 185
D ₂	DECK HEIGHT	1 782
D ₃	SCREED HEIGHT	937
E ₁	OUTER HOPPER WIDTH	3 342
E ₂	INNER HOPPER WIDTH	3 260
E ₃	WIDTH OSCILLATING BEAM	2 495
F ₁	EXTENSION WEATHER ROOF	770
F ₂	SEAT CONSOLE EXTENSION	320
G ₁	INNER LOADING HEIGHT	621
G ₂	OUTER LOADING HEIGHT	749
H ₁	HOPPER LENGTH TO PUSH ROLLER	2 335
H ₂	HOPPER LENGTH	2 168
J ₁	DISTANCE REAR WALL AUGER CENTRE	275
J ₂	DISTANCE AUGER CENTRE SCREED	283
J ₃	SCREED DEPTH	1 297
K ₁	AUGER HEIGHT TO GROUND (CENTER)	422 ± 100
K ₂	DIAMETER AUGER	360
L	GROUND CLEARANCE	166
N	DIAMETER PUSH ROLLER	160
O	CONVEYOR WIDTH	1 430
BASIC SCREED WIDTH VB78+VB79		2 500
BASIC SCREED WIDTH VB88+VB89		3 000
EXTENDED SCREED WIDTH VB78+VB79		5 000
EXTENDED SCREED WIDTH VB88+VB89		6 000
T ₂	TRACK LENGTH	3 084
T ₄	TRACK DISTANCE TO REAR WALL	475
U ₁	TRACK GAUGE	2 010
U ₂	TRACK PAD WIDTH	325
W ₁	WIDTH OF WALKWAY	250
W ₂	HEIGHT OF WALKWAY	428



EQUIPMENT

STANDARD EQUIPMENT

Engine

- Volvo (Deutz) Diesel engine, EPA Tier 3

Drive

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

Material Management

- Heavy push rollers
- Proportional conveyor sensors
- Proportional ultrasonic sensor auger control
- Four individual hydrostatic drives for conveyors and augers
- Heavy duty auger
- Auger quick lock system
- Reversible direction of auger rotation
- Hydraulic auger height adjustment

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-fiber reinforced plastic)
- Two seats, laterally extendable
- Anti-vandalism kit
- Near field mirrors at weather roof
- ABG Key

Screed

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

Lights

- Operator's platform lighting
- Home light function

Environmental

- Sound insulation

OPTIONAL EQUIPMENT

Material Management

- Smart Dock
- Soft Dock
- Individual operating hopper wings
- Hydraulically operated front apron
- Proportional ultrasonic sensor auger control
- 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

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