



Tracked Paver TITAN 423



Fields of application

The heavy-duty paver TITAN 423 is designed for placing any kinds of wearing, binder and base courses in large paving widths and course thicknesses.

Paving materials

- All kinds of bituminous materials
- Cement-treated mineral mixes
- Graded aggregates
- Sand, gravel
- Roller compacted concrete (RCC)
- Railway track ballast

Construction projects

- Motorways & highways
- Secondary roads
- Airports
- Urban roads
- Landfill applications
- Bituminous blankets and structures in hydraulic engineering (parallel or vertical to the slope)
- Railway tracks (solid pavements or railway track ballast)

Electronically controlled propulsion system

Electronically controlled individual drives for both crawler tracks:

- uniform traction even in case of changing load conditions,
- maximum traction also in bends.

Due to the Synchronomatic control system, the preselected speed or bend radius is exactly maintained:

- exact straight-line travel,
- smooth steering in bends at a constant speed.





Especially robust crawler tracks with high traction power

- Rugged, long crawler tracks, CAT D-3 system
- Compact frame weldment
- Crawler tracks made of forged and hardened links and sealed hinge bolts
- "Lifetime" lubricated bearings of the crawler track rollers
- Replaceable rubber track shoes

High static friction of the rubber track shoes combined with the weight of the basic machine results in very high tractive power.

An optimum weight distribution and the large ground contact area of the crawler tracks ensure a trouble-free paving operation even on bases with a low stability.

Contra-rotating crawler track drives:

- turning on the spot.

Variable displacement pumps equipped with pressure cut-off device:

- protection of the propulsion system against overload and overheating

Shifting from paving to transport speed possible while in motion:

- power transmission and braking effect not interrupted,
- no unintended change of direction due to synchronization control.

Integrated back-up propulsion control system, adjustable with a toggle switch:

- increased operating safety,
- same operating elements as during normal operation.



The view of the operator

Trend-setting operating comfort

Elevated driver's seats:

- excellent all-round vision.

Central, revolving control panel, cross-sliding to both sides:

- comfortable, fatigue-free sitting position.

Conveniently located and neatly grouped monitors and controls.



Seats as well as railing and all-weather roof cross-slide beyond the paver's platform:

- auger channel, hopper, direction indicator within the operator's field of visibility.

Mix conveyor system with proportional control

Large hopper with a capacity of 14 t

Conveyors beginning at the very front of the hopper:

- even the front part of the hopper is completely emptied.



Hydrostatic individual drives for each conveyor and each distributing auger:

- individual distribution adapted to the requirements.

Proportional auger speed control:

- uniform quantity of material in front of the screed due to variable auger speed, according to the requirement,
- auger distribution output controlled by ultrasonic sensors.

Augers adjustable in height:

- easy adaptation to different course thicknesses and paving widths,

Exemplary ease of maintenance

- Engine hood easily folds forwards or backwards
- Central engine and all hydraulic components easily accessible from all sides
- All important lube points and drain pipes projected to the outside for easy access

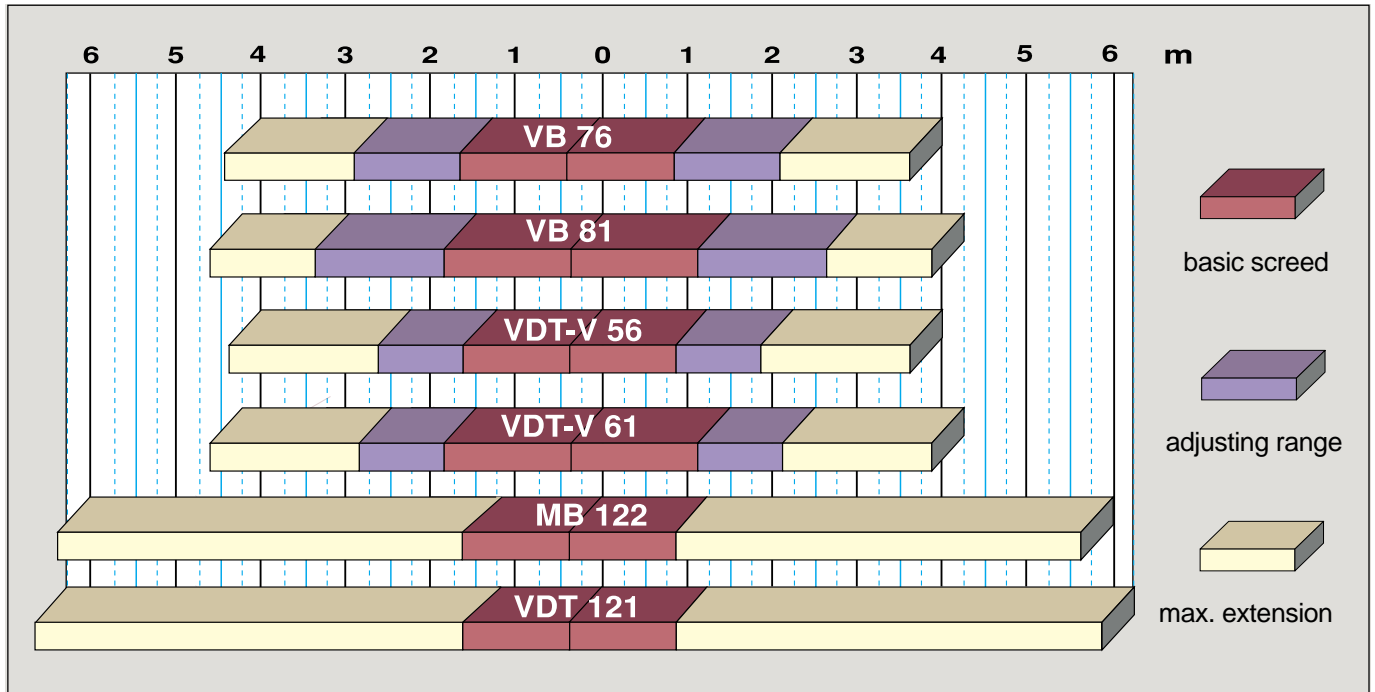
- Hydraulic circuits with fixed measuring connections for pressure control.

- Central switch cabinet in the control panel with numbered cable connections and identical, exchangeable relays.

- **minimum of maintenance work required**



Six screed types at choice



High-density screeds with dual tampers

VDT and VDT-V

Very high precompaction achieved by the paver:

- time and cost savings due to considerable reduction of rolling work,
- wide field of applications, e. g. placing of roller compacted concrete.

Uniform compaction and optimum evenness of the placed pavement:

- considerably lower risk of disputes over penalties for not meeting specification requirements.

(Euro-patent No. 0 115 567, US patent 4 507 014 as well Japanese patent No. 1386166).

Standard combination screeds with single tamper

VB Variomatic screeds

Infinitely variable up to double the basic width:

- more flexibility in case of varying paving widths,
- reduced assembly times.

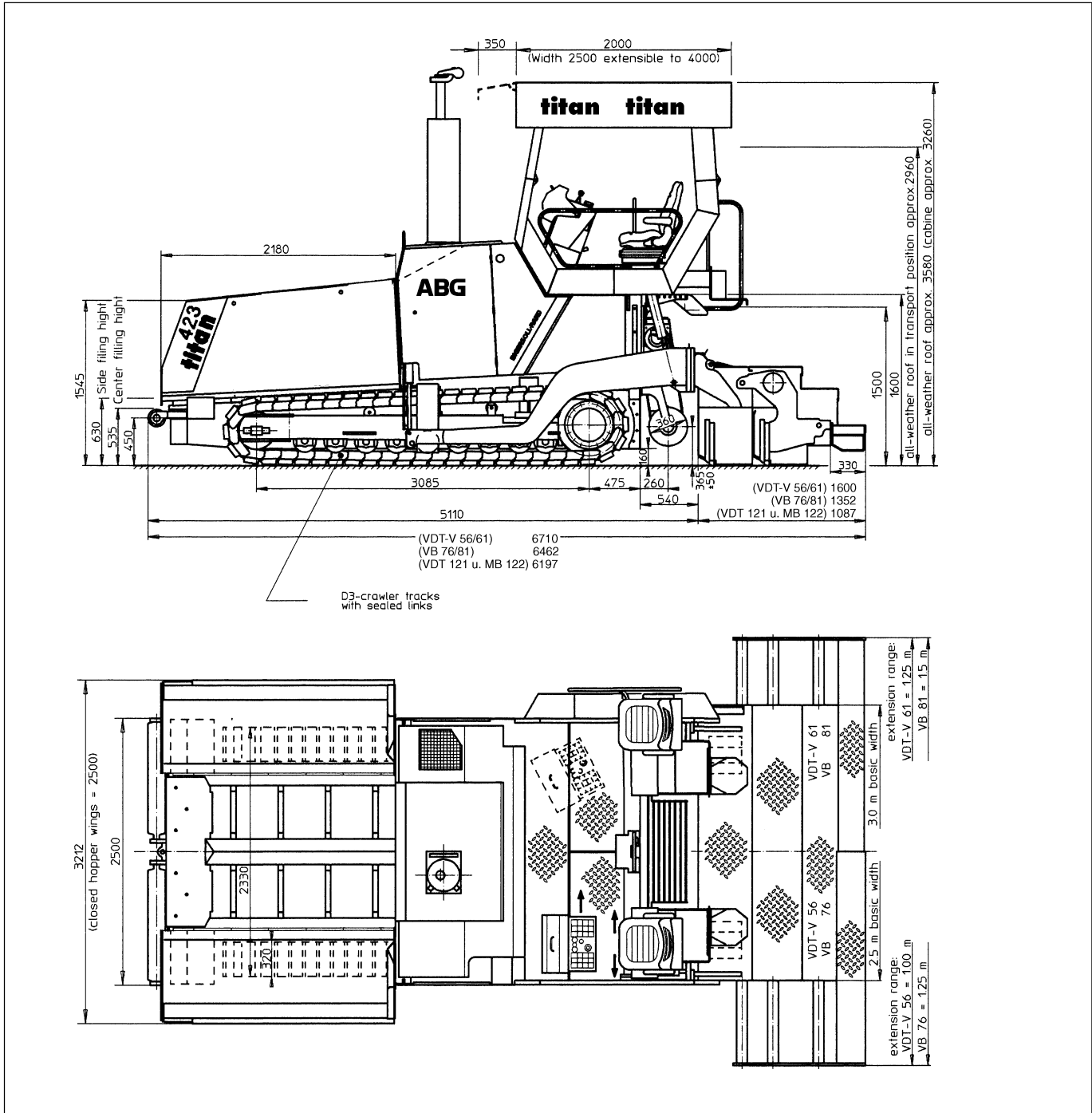
(Euro-patent No. 0369095 as well as US patent No. 4991 995).

MB standard combination screeds

Paving width variable in increments of 0.25 m.

| Screed type | Screed ext. system | Basic adjusting range/ basic width | Max. paving width with extensions | Tamping frequency | Vibration frequency |
|--------------------------------|--------------------|---------------------------------------|--------------------------------------|----------------------|------------------------|
| VARIO- DUOTAMP VDT-V 56 | hydraulic | 2.50 - 4.50 m | 8.00 m | up to 1470 rpm | up to 3200 vpm |
| VARIO- DUOTAMP VDT-V 61 | hydraulic | 3.00 - 5.50 m | 8.50 m | up to 1470 rpm | up to 3200 vpm |
| VIBRO- DUOTAMP VDT 121 | manual | 2.50 m | 12.50 m | up to 1470 rpm | up to 3900 vpm |
| VARIOMATIC screed VB 76 | hydraulic | 2.50 - 5.00 m | 8.00 m | up to 1650 rpm | up to 3200 vpm |
| VARIOMATIC screed VB 81 | hydraulic | 3.00 - 6.00 m | 8.50 m | up to 1650 rpm | up to 3200 vpm |
| Std. combination screed MB 122 | manual | 2.50 m | 12.00 m | up to 1470 rpm | up to 3900 vpm |

Dimensions



Standard equipment

Railings with seat console and all-weather roof • 2 cross-sliding Deluxe driver's seats • SYNCHROMATIC electronic propulsion control system • integrated back-up control for propulsion system • large truck push rollers • 4 individual hydrostatic drives for conveyors and augers • augers adjustable in height • proportional auger control & ultrasonic sensors • screeds with covers and skid-proof walkway covering the entire screed • screed hydraulic lock • revolving, cross-sliding control panel • 4 working lights • battery cut-off • sound insulation • tool kit

Specifications

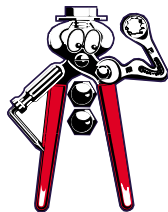
| | | | |
|----------------------------------|---|--|--|
| Engine: | 6-cylinder Deutz diesel BF6M 1013, water-cooled Output according to ISO 3046/1 = 133 kW (181 HP) at 2300 rpm, fuel tank 200 l | | |
| Theoretical laydown rate: | up to 800 t/h, the actual paving output depends upon the mat thickness, the paving width and the paving speed and will vary according to the paving conditions prevailing on your job-site. Please approach us and we will be glad to calculate the actual paving output for your particular paving contract. | | |
| Course thickness: | up to 300 mm | | |
| Propulsion system: | 2 electronically controlled hydraulic circuits, each consisting of a variable displacement pump with proportional control and variable displacement motor with two-point adjustment additional: emergency control via power potentiometers | | |
| Speeds: | infinitely variable: | for paving: 0 - 16 m/min, for transport: 0 - 3.6 km/h | |
| Crawler tracks: | rugged crawler tracks with 9 track rollers, ground contact area 3085 x 320 mm, with rubber track shoes | | |
| Hopper: | with hydraulically operated wings, capacity approx. 14 t | | |
| Mix conveyor system: | conveyors and augers individually driven, conveyors controlled by mix level switches and augers by ultrasonic sensors; augers adjustable in height, auger drive via central auger bearing | | |
| Loading angles: | front: | 13° | |
| | rear: | - auger in top position | 17° |
| | | - auger in central position | 13° |
| | | - auger in low position | 9° |
| Transport dimensions: | refer to dimensioned sketch, transport width according to basic screed width 2.50 or 3.00 m | | |
| Weights: | VDT 121 | at 2.50 m | approx. 19.0 t, up to 12.50 m approx. 26.5 t |
| | MB 122 | at 2.50 m | approx. 18.6 t, up to 12.00 m approx. 24.4 t |
| | VDT-V 56 | at 2.50 - 4.50 m | approx. 21.7 t, up to 8.00 m approx. 24.0 t |
| | VDT-V 61 | at 3.00 - 5.50 m | approx. 22.5 t, up to 8.50 m approx. 24.5 t |
| | VB 76 | at 2.50 - 5.00 m | approx. 20.2 t, up to 8.00 m approx. 21.7 t |
| | VB 81 | at 3.00 - 6.00 m | approx. 20.8 t, up to 8.50 m approx. 22.1 t |

Machines may be shown with optional extras – Specifications are subject to change without prior notice

Extras

Sound-insulated driver's cabin with heating • side curtains for all-weather roof • automatic steering control • analog or digital levelling system • levelling beam within or outside the paving width • levelling tube • partial neutralization of screed load • screed tensioning device • screed anti-climbing lock • spacers • hydraulic crown control adjustment for VB screeds • 2 additional working lights • floodlight equipment • warning beacon • edging shoes 45° • central lubrication system (auger and conveyor) • Diesel transfer pump • Thermo-Control (screed heating) • cleaning spray system • heavy-duty spray gun • tarpaulin with chain and padlock • service kit

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