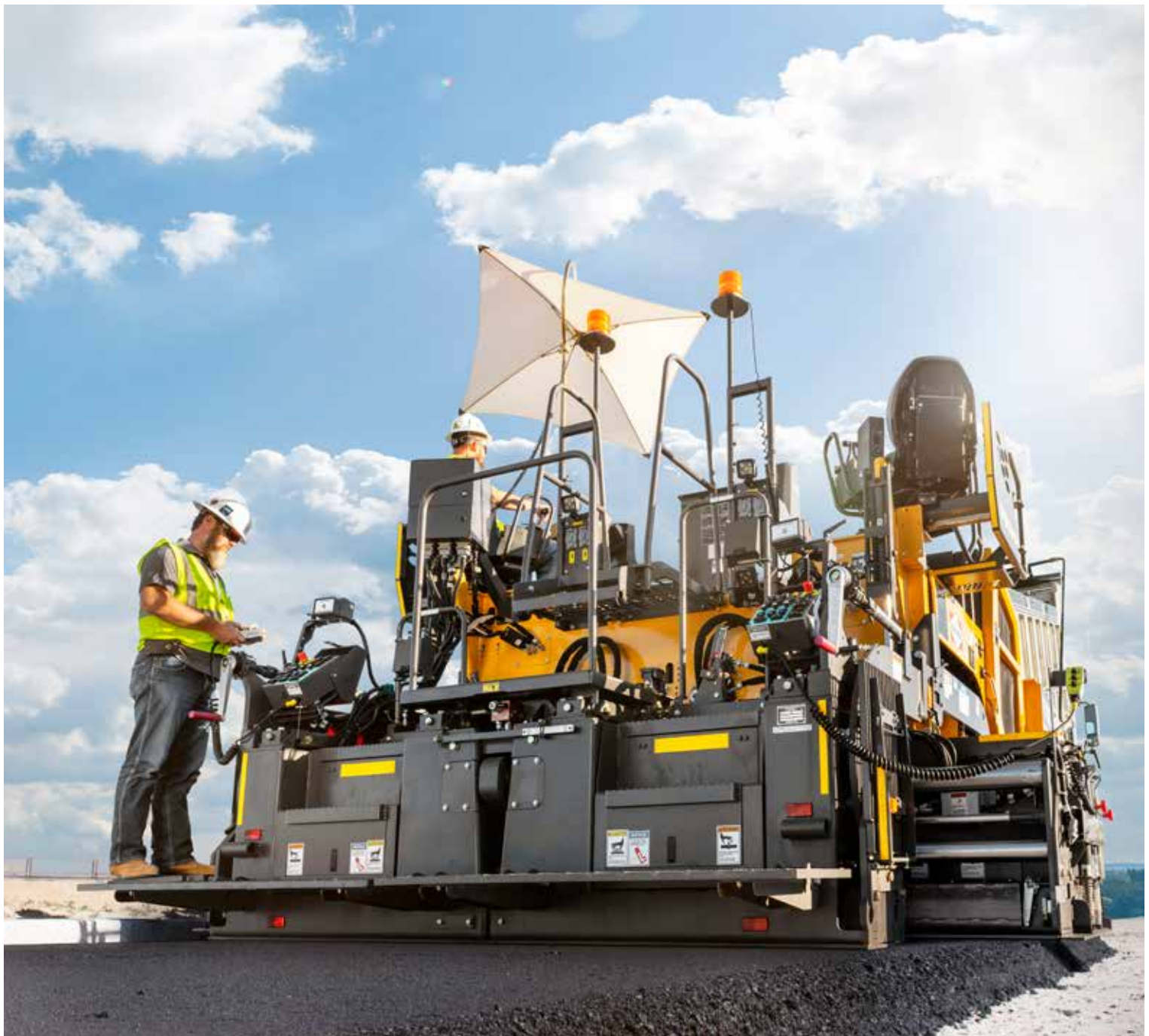


Volvo Construction Equipment
Building Tomorrow



OMNI 318

Volvo Omni 318 Screed 3.0 - 5.5 m / 10 - 18.5 ft



WELCOME TO OUR WORLD

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

The road to success

Our range of road machinery combines the heritage of the Ingersoll Rand and ABG brands with the engineering excellence of Volvo. The result is a line-up of Volvo pavers and compactors which achieve an unrivalled level of quality, in both paving and compaction applications.

Building on our proud history, we continue to innovate our products to offer customers the best solutions for their operation. Our Compact Assist and Pave Assist products are just two examples of how we are developing intelligent solutions to ensure our machines deliver world-class performance and results long into the future.

Solutions for you



Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



BUILDING TOMORROW

Introducing Omni 318

Meet the Omni 318, a proven heavy-duty screed designed for wide width, high volume paving projects. Built on decades of experience and customer feedback, the Omni 318 screed is packed with a combination of innovative features and proven technology. Featuring front-mounted hydraulic extensions, adjustable strike-off plates and a paving width up to 26.5ft, the screed provides high lay-down rates while delivering superior quality and ultra-smooth mats.

Built to last

The high strength frame prevents deflection of the extensions and the low tow point design minimizes twisting of the structure. Fully protected interior electrical and hydraulic components help to ensure maximum reliability. The result is a resilient and durable screed, built to deliver enduring performance.



Big on productivity

The big screed for the big jobs, the Omni 318 is designed to deliver high laydown rates and features a proven vibratory design. Front-mounted extensions adjust hydraulically from a 10ft up to 18.5 ft, and a single pass paving width of up to 26.5ft is possible with the optional bolt-on extensions. For fast adjustments, full center-width powered strike offs are available and optional heated end-gates ensure ultimate material confinement and control.



The operator's choice

Operators and screed crews can work in comfort and safety thanks to the easily accessed screed and wide 21-inch folding walkways, allowing operators to pass each other without stepping off the screed. Operators can stay in complete control while at work, with powered extension height, slope and main crown adjustments possible at the touch of a switch. Convenience is further enhanced by storage boxes and user-friendly control panels.





SUPERIOR SURFACE

The Omni 318 delivers a high-density mat, with outstanding smoothness, directly off the screed. The three-zone automatic heating control ensures fast and even heat distribution, while the heavyweight frame and 18-inch wide main & extension screed plates provide great surface contact. Quality results are further assured with the single piece main screed plate, featuring a 2-inch lead-in radius for improved material flow under the screed.

Take on the big jobs

A clear view

The low profile screed design optimizes visibility to the augers and around the screed, while also improving ease of communication between operators.

Easy access

Stay safe on the easily accessed screed, with conveniently positioned handrails and wide steps. The 21-inch wide folding walkway enables operators to pass each other without stepping off the screed.



Precision control

Keep control of paving performance with user-friendly screed panels. Extension height, slope and crown adjustments can all be made at the touch of a switch.

Designed for durability

The Omni screed features a high strength frame that prevents deflection of the extensions, while the low tow point design minimizes twisting of the structure.



Adapt to any job

Customize your screed with a range of available configurations, including additional options for auger kits, bolt-on extensions, cut-off shoes, taper joint extensions and more.

Efficient heating system

Ensure fast and even heat distribution with the fully automatic screed heating system. Heat bars can be accessed without removing the screed plate.

Optimum flow

The single piece main screed plate features a large 2-inch lead-in radius, improving material flow under the screed. Optionally-heated end gates ensure ultimate material confinement and control.

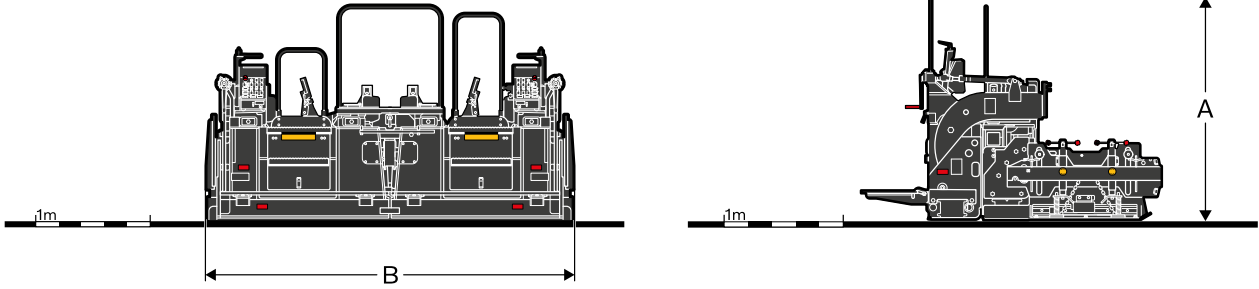
Superior surface

Front-mount extensions, low tow point design and 18-inch wide main & extension screed plates all contribute to an outstanding surface finish. The adjustable speed vibration provides fine tuning of the mat finish.

High outputs

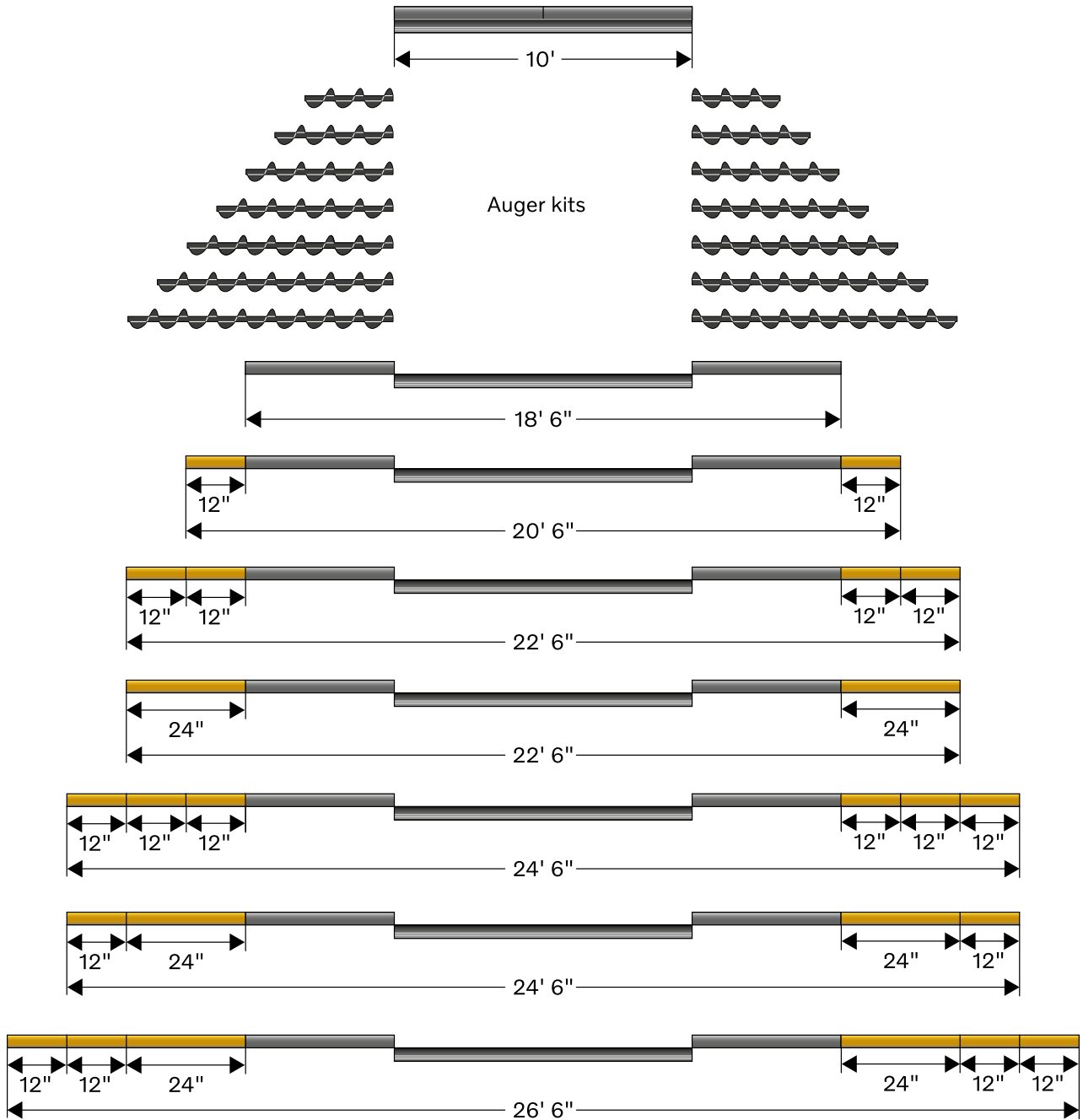
Omni 318 offers a standard paving width from 10-18.5ft using front-mount hydraulic extensions and up to 26.5ft using bolt-on extensions.

Specifications



Model	Units		Omni 318	
Dimensions				
Screed type	Front Mounted Extensions			
Basic Screed Width	m	ft	3.0	10
Standard Paving Width	m	ft	5.6	18.5
Min Paving Width w/Optional Cut-off Shoes	m	ft	2.1	7
Max Paving Width w/Optional Bolt-on Extensions	m	ft	7.9	26
Paving Depth Max.	mm	in	6 – 305	0.25 – 12
A - Overall Height	mm	in	1,900	75
B - Shipping Width w/o Endgates	mm	in	3,048	120
B - Operating Width w/ Endgates	mm	in	3,328	131
Screed Plate Width - Main	mm	in	457	18
Screed Plate Width - Extensions	mm	in	457	18
Screed Plate Thickness	mm	in	13	0.5
Screed Plate Material	Hardox 400			
Center Walkway width	mm	in	545	21.5
Compaction				
Vibration / Tamping System	Vibration			
Number of Vibratory Elements - Main Screed	4			
Number of Vibratory Elements - Extensions	2			
Vibration Speed	RPM		1,000 - 2,400	
Vibration Frequency	Hz		17 - 40	
Vibration Amplitude settings	4			
Adjustments				
Material Depth Control	Manual Crank			
Center Crown Operation	Hydraulic			
Center Crown limit	cm/m	in/ft	+2.5 / -1.0	+0.3 / -0.125
Center Crown Adjustment Percentage	+3% -1%			
Main screed strike-off height	Manual Screw			
Extension Slope Operation	Hydraulic			
Extension Slope Adjustment	±6%			
Extension Height Adjustment	mm	in	+64 / -25	+2.5 / -1.0
Extension angle of attack	Manual Screw			
Edger plate Height Adjustment	Manual Crank			
Heating System				
Screed heating System	Electric			
Generator location	Tractor Mounted			
Screed heat modes	Auto / Manual			
Screed heat output	kW		19 kW	
Screed heat temperature Range	°C	°F	93 - 218	200 - 425
Number of screed heating circuits / zones	3			
Weights				
Weight with Endgates	kg	lb	3,783	8,340
Weight w/o Endgates	kg	lb	3,502	7,720

Paving widths



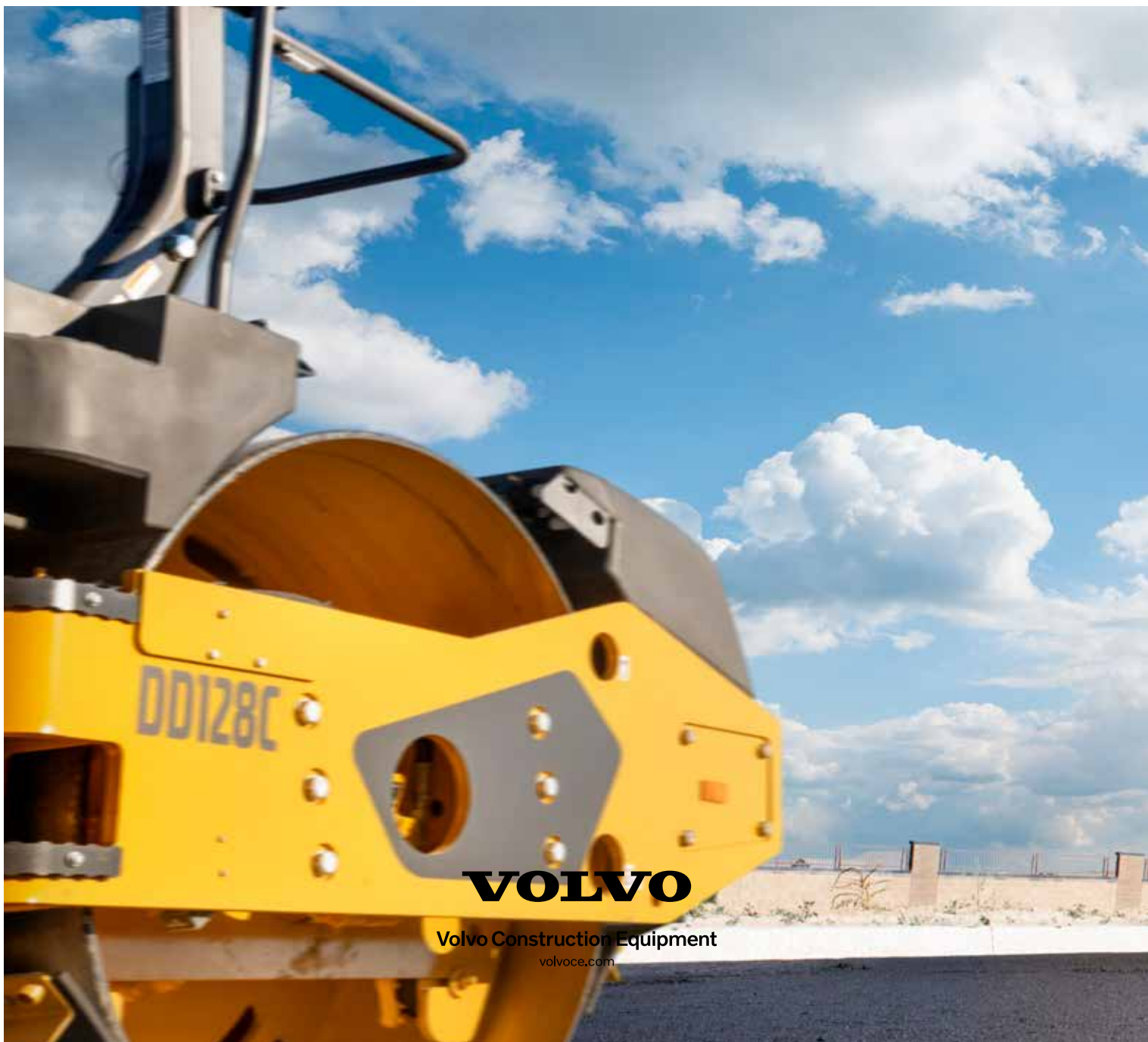
Equipment

STANDARD EQUIPMENT

Model	Omni 318
Auger / conveyor auto indicator	•
Auger override on / off	•
Auger override speed increase / decrease	•
Auger sensor increase / decrease	•
Center crown adjustment	•
Conveyor override on / off	•
Crank; Ball depth screw RH thread	•
Dual screed control consoles w/locking covers	•
Emergency stop	•
Extension angle of attack adjustment	•
Extension Height adjustment	•
Extension Slope adjustment	•
Handrails, integrated	•
Horn button	•
Lockout, panel, on / off with indicator	•
Main screed strike-off height adjustment	•
Screed extension height	•
Screed extension slope	•
Screed extension; Primary	•
Screed Operators Manual; English	•
Toolbox & Storage trays	•
Towpoint raise / lower	•
Tunnel extend / retract	•
Vibration frequency adjustment	•
Vibration Amplitude settings	•
Walkways; Folding, main and extension	•

OPTIONAL EQUIPMENT

Model	Omni 318
Bolt-on Extension; 1ft. With heat (LH / RH)	•
Bolt-on Extension; 1ft. With heat and vibe (LH / RH)	•
Bolt-on Extension; 2ft. With heat and crown (LH / RH)	•
End gates	•
End gate Heaters	•
Remote Control	•
Screed Operators Manual; French	•
Screed Operators Manual; Spanish	•
Taper Joint Extension; 18in (LH / RH)	•



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