

Volvo Construction Equipment  
Building Tomorrow



# OPTIMAT 320-R

Volvo OptiMat Screeds 3.0 - 5.9 m / 10 - 19.5 ft



# Proven paving solutions

For all applications and crew preferences, Volvo has the right screed for you. Volvo offers front or rear-mount extension screeds, complemented with additional options for auger kits, bolt-on extension kits, and strike off kits for wide paving. Joining our durable screed line up is the new OptiMat 320-R rear-mount extension screed, which, like all Volvo screeds, is built on real customer feedback to deliver unrivaled surface quality, high laydown rates and long-lasting results.

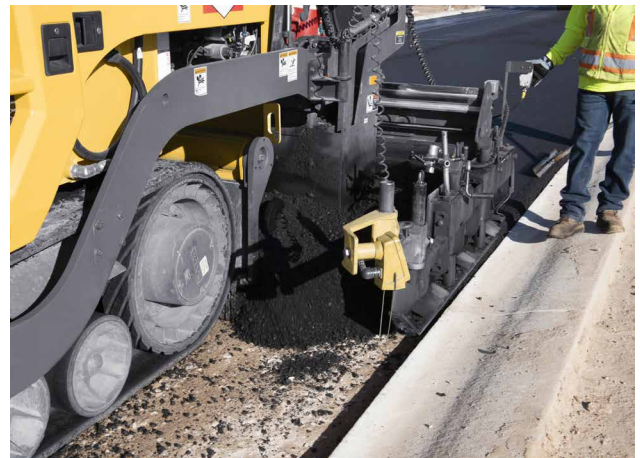
## Smooth, high quality surface

Deliver a smooth, high quality surface with the OptiMat 320-R. The heavyweight frame and class leading 20-inch wide main and extension screed plates provide high densities directly off the screed, delivering increased screed surface contact for better mat quality and longer plate lifecycles. The rigid screed design ensures tight control of the extensions, further improving smoothness, while the single piece screed plate with bull nose lead-in improves material flow under the screed.



## Designed for durability

With a heavy steel main frame and extension support system, OptiMat is built to last. The high strength frame eliminates flexing and prevents deflection of the extensions, and features 4-inch chrome rods and adjustable slide blocks to allow for wear adjustment. Long end gates provide the ultimate material confinement and control, further adding to optimum reliability and durability.



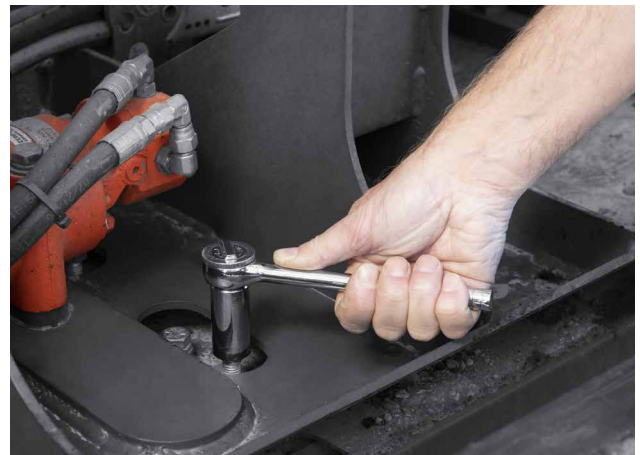
## Low effort, high performance

Enhance ease of operation, comfort, performance and quality of work. Common to all Volvo screeds, the easy-to-use screed control consoles enable you to fine-tune the screed to match the application while paving is underway. Experience superb visibility thanks to the low profile compact design of the screed and enhance safety with the wide telescopic walkway, featuring rubber mats for greater operator comfort.



## Control costs

Cut operating costs with the OptiMat 320-R. Built from 450-Brinell hardened steel, the durable OptiMat screed plate features 50 individual adjusters for maximum plate lifecycle and precision mat quality. Save time and money with the unique modular end gate design, making it easy to switch the shoe out, without having to change the entire end gate.







# INTRODUCING OPTIMAT 320-R

Designed for wide width, high volume paving projects, the OptiMat 320-R gets the job done. The rear-mounted extensions adjust hydraulically from a 10 ft basic width to 19.5 ft, allowing a high-volume flow of asphalt into the extension area without the use of full width strike offs. Achieve a single pass paving width of up to 26 ft with the optional bolt-on extensions.

# Perfect paving package

## INTRODUCING OPTIMAT 320-R

Rely on the rear-mount hydraulic extension screed for high volume paving applications.

### Proper protection

Chain-style hose carriers ensure proper routing of the hydraulic hoses and harnesses, while electrical connectors and switches are sealed.

### Safe and in control

Stay safe on the wide, 18-inch telescopic walkway, enabling operators to pass one another without stepping off the screed.

## CONTROL COSTS

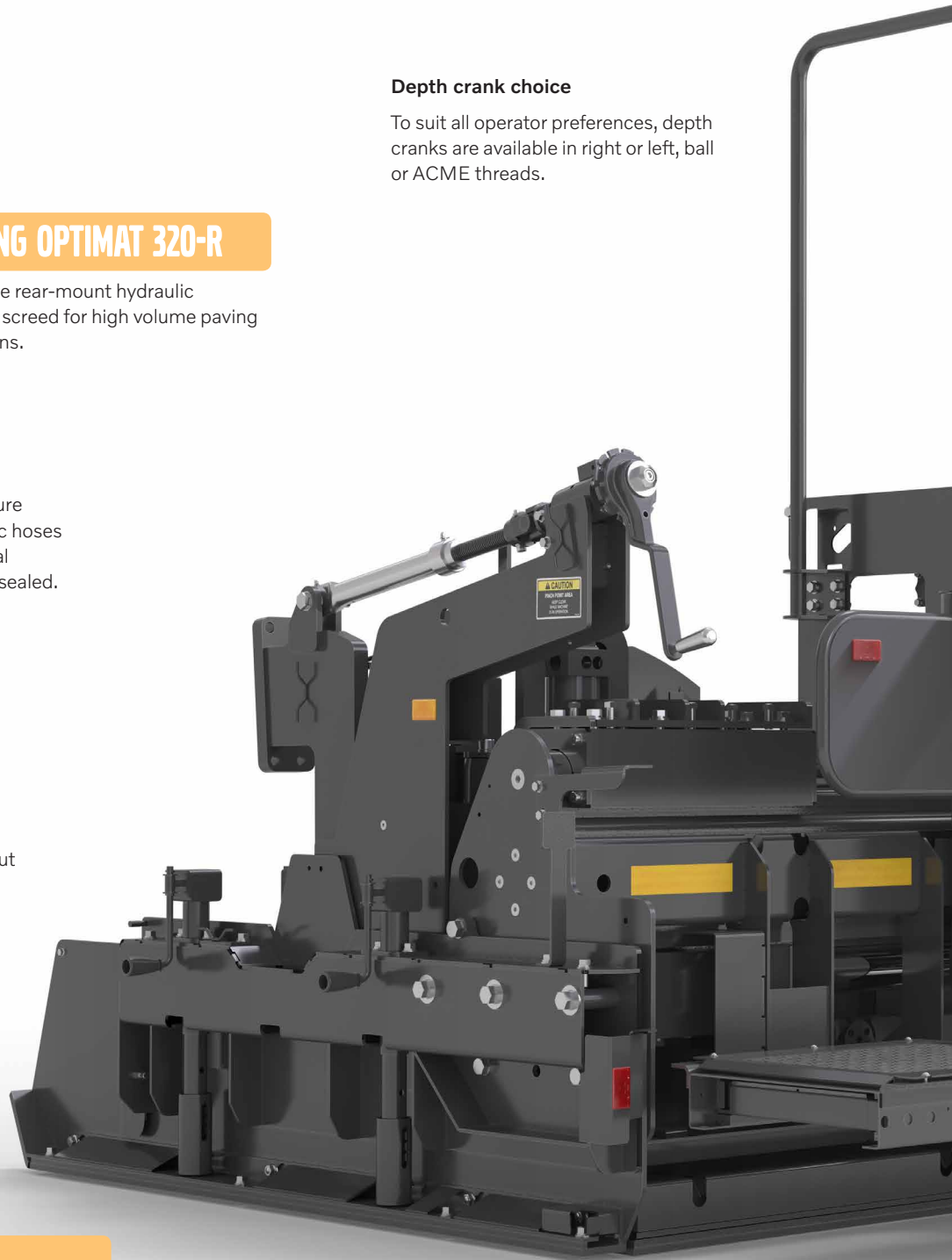
Swiftly and safely switch from a standard end gate shoe to a heated, safety or pivot shoe, thanks to the bolt-on system.

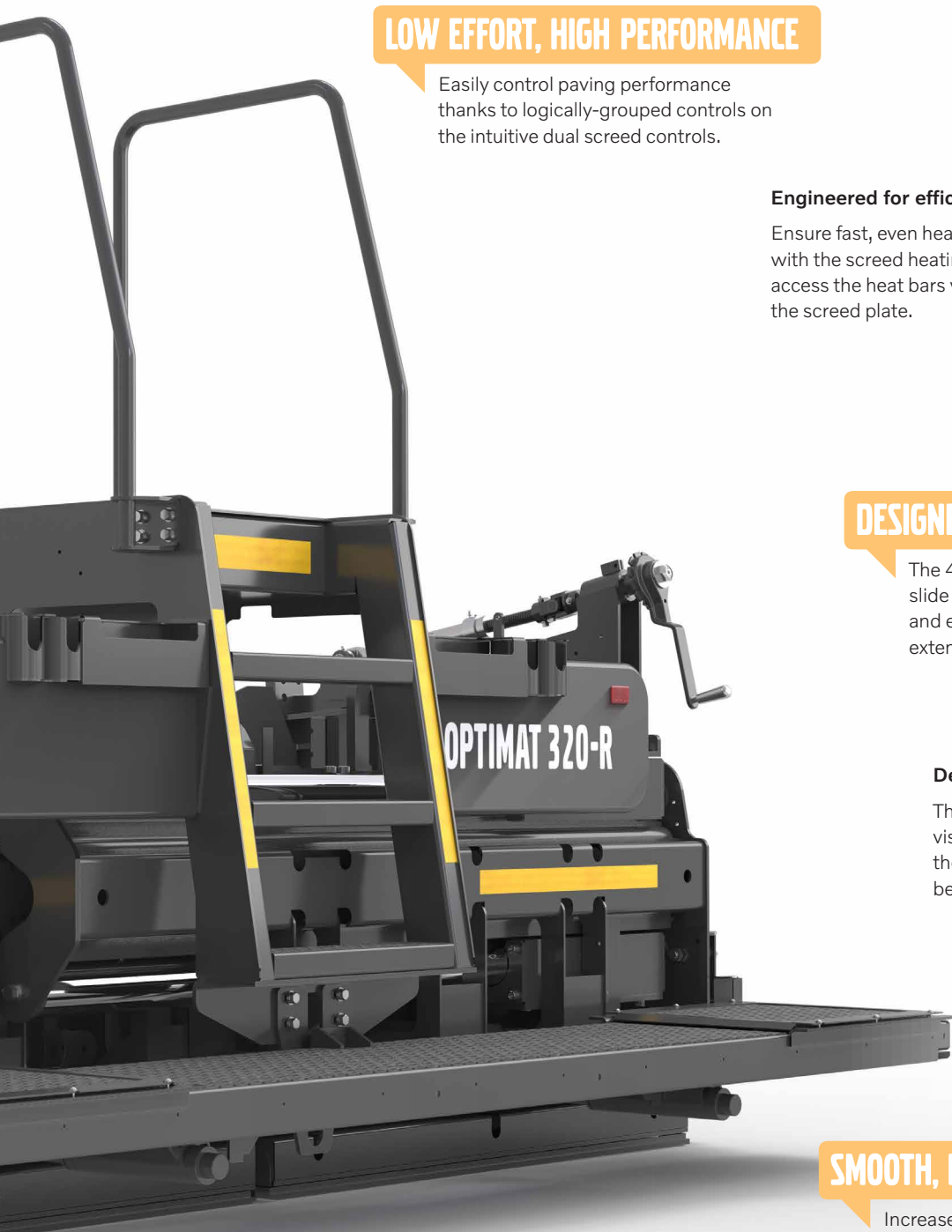
### Depth crank choice

To suit all operator preferences, depth cranks are available in right or left, ball or ACME threads.

### Adjust to any application

The OptiMat is the most configurable screed available and offers wide-ranging adjustments of the main screed and extensions.





## LOW EFFORT, HIGH PERFORMANCE

Easily control paving performance thanks to logically-grouped controls on the intuitive dual screed controls.

### Engineered for efficiency

Ensure fast, even heat distribution with the screed heating system, and access the heat bars without removing the screed plate.

## DESIGNED FOR DURABILITY

The 4-inch chrome rods and adjustable slide blocks support wide width paving and eliminate undesirable flexing of the extensions

### Designed to do more

The low profile design optimizes visibility to the augers and around the screed, and aids communication between operators.

## SMOOTH, HIGH QUALITY SURFACE

Increase surface contact with the 20-inch wide screed plates, providing high densities and longer plate life

### Adapt to the application

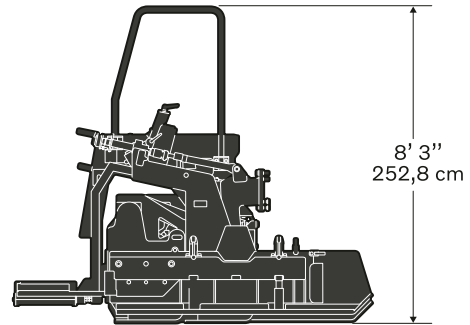
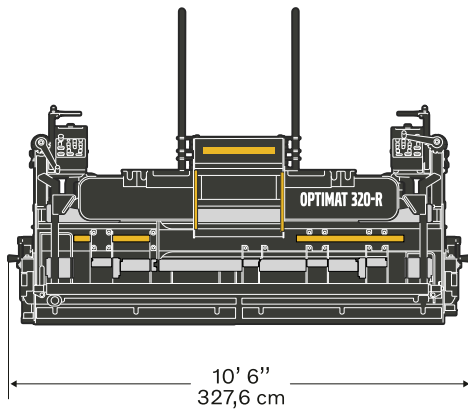
Only Volvo offers adjustable tow arm positions to alter the auger-to-screed distance based on best practices.

### Pave to the max

OptiMat offers a standard paving width from 10-19.5 ft using hydraulic extensions and up to 26 ft using bolt-on extensions.

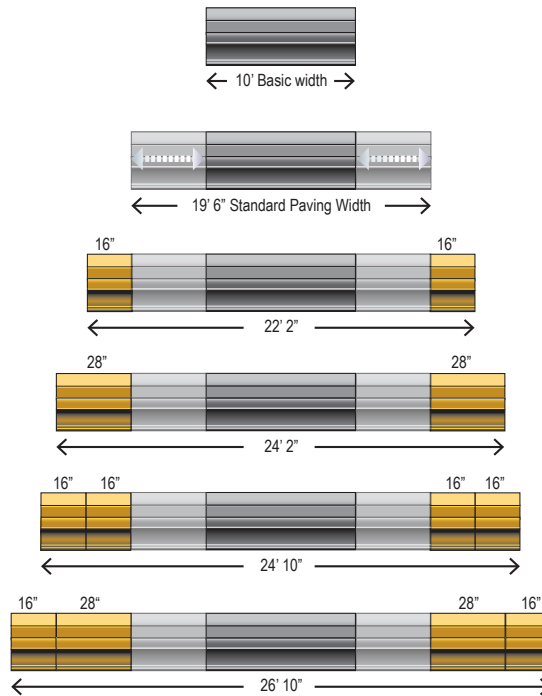


# Specifications



Model			OptiMat 320-R	
Dimensions				
Basic Screed Width	m	ft	3.0	10'
Standard Paving Width	m	ft	5.9	19' 6"
Min Paving Width w/Optional Cut-off Shoes	m	ft	3.0	10'
Max Paving Width w/Optional Bolt-on Extensions	m	ft	7.9	26'
Paving Depth Max.	mm	in	305	12"
Shipping Width w/ Endgates	m	ft	3.3	10' 6"
Shipping Width w/o Endgates	m	ft	3.0	10'
Screed Plate Width - Main	mm	in	508	20"
Screed Plate Width - Extensions	mm	in	508	20"
Screed Plate Thickness	mm	in	13	.50"
Screed Plate Material	450 Brinell Rated Hardened Steel			
Compaction				
Vibration / Tamping System			Vibration Only	
Number of Vibratory Elements - Main Screed			2	
Number of Vibratory Elements - Extensions			1 each	
Vibration Speed		r/min	0-3,000	
Vibration Frequency		Hz	0-50	
Vibration Amplitude settings			Fixed	
Adjustments				
Material Depth Control			Manual Crank	
Center Crown Operation			Electric / hydraulic	
Center Crown limit	cm/m	in/ft	2.5/-1.0	3/-1
Center Crown Adjustment - Positive	mm	in	76	3"
Center Crown Adjustment - Negative	mm	in	25	1"
Main screed strike-off height			Manual Crank	
Extension Slope Operation			Electric / hydraulic	
Extension Slope Adjustment - Positive			12%	
Extension Slope Adjustment - Negative			9%	
Extension Height Adjustment	mm	in	51	2"
Extension angle of attack			Manual Screw	
Edger plate Height Adjustment			Manual Crank	
Berm Attachment			Not Available	
Heating System				
Screed heating Sytem			Electric	
Screed heat modes			Auto / Manual	
Screed heat output	kW		19	
Screed heat temperature Range	°C	°F	93 - 218	200 - 425
Number of screed heating circuits / zones			3	
Weights				
Weight with Endgates	kg	lb	3,742	8,250
Weight w/o Endgates	kq	lb	3,395	7,485

# Paving widths OptiMat 320-R



## Equipment

### STANDARD EQUIPMENT

Auger / conveyor auto indicator
Auger override on / off
Auger override speed increase / decrease
Auger sensor increase / decrease
Center crown adjustment
Conveyor override on / off
Dual screed control consoles w/locking covers
Edger plate height adjustment
Emergency stop
End gates, standard shoe, non-heated
Extension angle of attack adjustment
Extension Height adjustment
Extension Slope adjustment
Horn button
Integral cupholders
Integrated Handrails
Lockable toolbox
Lockout on / off with indicator
Main screed strike-off height adjustment
Mat reference beam mount
Material depth control cranks
Primary screed extension
Screed extension height
Screed extension slope
Telescoping walkway
Towpoint raise / lower
Tunnel extend / retract
Vibration frequency adjustment

### OPTIONAL EQUIPMENT

16" Omni 320R bolt on extension, heated
28" Omni 320R bolt on extension, heated
Depth Crank ACME Thread LH Depth Increase
Depth Crank ACME Thread RH Depth Increase
Depth Crank Ball Thread LH Depth Increase
Depth Crank Ball Thread RH Depth Increase
End gates, pivot shoe, heated
End gates, safety shoe, heated
End gates, standard shoe, heated
Wide paving width kit



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