BOMAG
FAYAT GROUP

TANDEM VIBRATORY ROLLER
BW100SL-5 and BW120SL-5

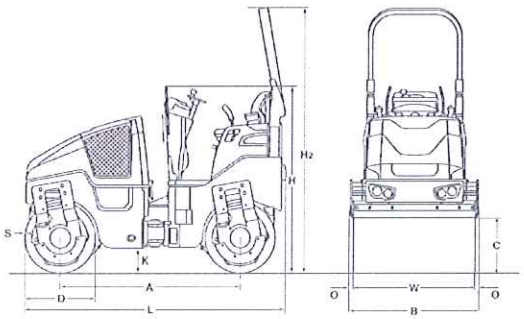
KEY FEATURES

- Tier 4 final Kubota diesel engine without exhaust after-treatment system
- Easy & simple operations
- Wind protected water spray nozzles
- No daily grease points
- High frequency: 72Hz / 4320 VPM
- Maintenance free articulation

Preliminary Specifications
BW 100 SL-5, BW 120 SL-5

Shipping dimensions in ft³ (m³)

BW 100 SL-5	247 (7)
BW 120 SL-5	293 (8.3)



Standard Equipment

- ☑ Foldable ROPS
- ☑ Hydrostatic travel and vibration drive
- ☑ Pressure sprinkler system with interval switch
- ☑ Suspended operator's platform
- ☑ 2 scrapers per drum, spring loaded and tiltable
- ☑ Multi-function travel lever
- ☑ Multi-function display incl. operating hour meter
- ☑ Water level
- ☑ Fuel level
- ☑ Electric fuel gauge
- ☑ Emergency STOP
- ☑ Individual control, vibration
- ☑ Intelligent Vibration Control (IVC)
- ☑ Integrated stowage compartment
- ☑ Adjustable operator's seat
- ☑ Lashing eyes, galvanized
- ☑ Back-up alarm
- ☑ Single point lifting device
- ☑ V-belt protection
- ☑ Vandalism protection
- ☑ Lockable engine hood made of composite material
- ☑ Working lights front and rear
- ☑ 12V socket
- ☑ Seat contact switch
- ☑ Plastic water tank
- ☑ Bolt-on oscillating/articulating joint

Optional Equipment

- ☐ Indicator and hazard lights
- ☐ Rotary beacon
- ☐ Battery disconnection switch
- ☐ Sliding seat
- ☐ ECONOMIZER
- ☐ Burglary protection
- ☐ Special paint

Dimensions in inches (mm)

	A	B	C	D	H	H2	K	L	O	S	W
BW 100 SL-5	69	42	20.6	27.6	71.2	101	10	99.6	1.4	0.4	39.4
	(1752)	(1072)	(523)	(700)	(1808)	(2568)	(254)	(2529)	(36)	(10)	(1000)
BW 120 SL-5	69	50	20.6	27.6	71.2	101	10	99.6	1.4	0.4	47.2
	(1752)	(1272)	(523)	(700)	(1808)	(2568)	(254)	(2529)	(36)	(10)	(1200)

Technical data	BOMAG BW 100 SL-5	BOMAG BW 120 SL-5
Weights		
Operating weight w. ROPS . . . . . lb (kg)	5181 (2350)	5511 (2500)
Average static linear load . . . . . lb/in (kg/cm)	66.1 (11.8)	58.2 (10.4)
Driving Characteristics		
Speed . . . . . mph (km/h)	0 – 5.6 (0 – 9)	0 – 5.6 (0 – 9)
Working speed with vibration . . . . . mph (km/h)	0 – 3.1 (0 – 5)	0 – 3.1 (0 – 5)
Max. gradeability without/with vibr. . . . . %	40 / 30	40 / 30
Drive		
Engine manufacturer	Kubota	Kubota
Type.	D 1703-DI	D 1703-DI
Tier Compliance	4 final	4 final
Cooling	water	water
Number of cylinders	3	3
Performance ISO 14396 . . . . . kW	18.5	18.5
Performance SAE J 1995 . . . . . hp	25	25
Speed . . . . . rpm	2200	2200
Electric equipment V	12	12
Driven drum	front + rear	front + rear
Brakes		
Service brake	hydrost.	hydrost.
Parking brake	hydromec.	hydromec.
Steering		
Steering system.	oscil.artic.	oscil.artic.
Steering method.	hydrost.	hydrost.
Steering / oscillating angle +/- . . . . . deg	32 / 10	32 / 10
Crab steer offset – manual . . . . . in (mm)	0 – 2 (0 – 50)	0 – 2 (0 – 50)
Track radius, inner. . . . . in (mm)	96.5 (2450)	96.5 (2450)
Exciter System		
Vibrating drum	front + rear	front + rear
Drive system	hydrost.	hydrost.
Frequency . . . . . VPM (Hz)	4320 (72)	4320 (72)
Amplitude . . . . . in (mm)	0.020 (0.50)	0.020 (0.50)
Centrifugal force . . . . . lb (kN)	7640 (34)	8993 (40)
Drum Water Spray System		
Type.	pressure with interval	pressure with interval
Capacities		
Fuel . . . . . gal (l)	9.2 (35)	9.2 (35)
Water . . . . . gal (l)	43.6 (165)	43.6 (165)

Technical modifications reserved. Machines may be shown with options.

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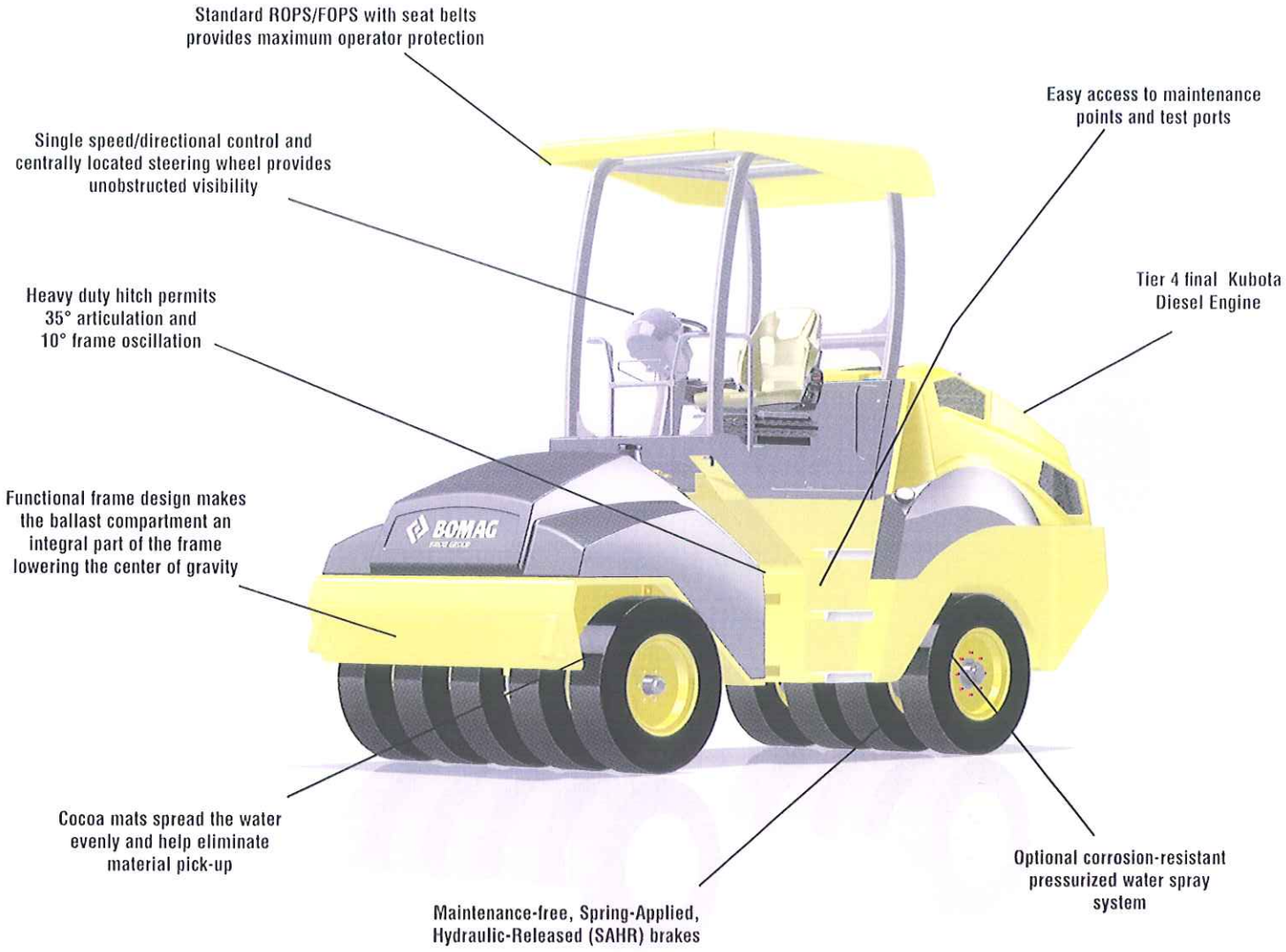
Pneumatic Tired Roller

BW11RH-5

TIRE INFLATION PRESSURE P.S.I			GROUND CONTACT PRESSURE P.S.I						
Wheel Loads	Ballast Combinations lbs		12 Ply tire pressure			Opt 14 Ply Radial tire pressure			
lbs	Front	Rear	45	75	100	45	75	100	130
1,500 (680 kg)	0	4,500 (2,041 kg)	46	49	55	32	46	61	81
2,000 (907 kg)	2,000 (907 kg)	7,000 (3,175 kg)	53	63	77	40	57	72	99
3,000 (1,360 kg)	6,000 (2,721 kg)	12,000 (5,443 kg)	X	75	85	X	61	73	94

Operating weight, 9975 lbs (4525 kg), includes ROPS, full fuel tank, ½ full water spray tank, and 175 lbs (80 kg) operator.

BW11RH-5



BW11RH-5 - continuing the tradition of excellence...

The BW11RH-5 pneumatic tired roller is one of the most versatile machines in the Bomag line. This roller achieves its high compaction performance through the combined effect of vertical pressure with the horizontal forces directed to all sides under each of the nine, overlapping tires.

Wheels and frame oscillate to deliver balanced wheel loads and uniform compaction. Further enhancing its versatility and maneuverability, the BW11RH-5's hydrostatic, centerpoint, articulated steering delivers a short, nine foot turning radius achieving optimum compaction on tight, curving curblines.

Applications:

- Highway construction and maintenance
- Driveways
- Parking lots
- Chip and seal

BW11RH in action on an asphalt resurfacing application

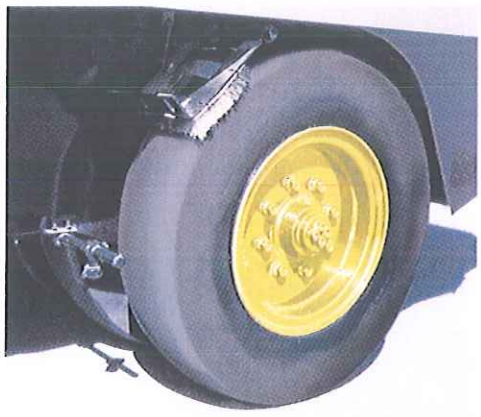
Featuring...

Center swivel seat provides excellent comfort and 2visibility in both travel directions

Handling is Easier & Safer:

- Hydrostatic Steering with automotive type steering wheel provides controlled maneuverability through turns.
- Brakes apply automatically when engine is shut down or with loss of transmission system hydraulic pressure.
- Functional frame design incorporates strategically placed ballast compartments providing a low center of gravity, exceptional stability and uniform weight distribution.
- Standard ROPS/FOPS with seat belts deliver operator safety.
- Operating Safety is further enhanced by adding the optional turn signals and 4-way flashers.

Cockpit design places controls within easy reach and provides unobstructed visibility



Cocoa mats on each tire help eliminate material pick-up

Pneumatic tired models provide maximum versatility

Achieve Maximum Productivity:

- Centerpoint steering allows the wheels to provide full width coverage on turns requiring fewer passes to achieve optimum compaction results.
- Three speed hydrostatic transmission provides maximum gradeability in low range, optimum performance in medium or work range and top production in high range.
- Short, nine foot inside turning radius, accomplished through 35 degree centerpoint articulation, takes compaction up to tight, curving curblines.
- Ten degrees oscillation assures uniform compaction on irregular surfaces.
- Dual, center facing seat cockpit design places controls within easy reach and provides excellent visibility in both travel directions.
- Optional heat retention shields help maintain high tire temperatures, preventing asphalt pickup that could damage the mat.
- Optional pressurized water spray system provides efficient water usage, extending time between refills.
- The low speed, high torque travel motors provide three operating speed ranges.

Less Service & Maintenance:

The purchase price is important, but so are the operating costs. Check these features:

- Maintenance-free SAHR brakes are an integral part of the travel motors, allowing an emergency/parking brake provision.
- Wide opening engine doors allow easy access for servicing.
- Maintenance and check points are accessible while standing on the ground.
- The heavy duty, centerpoint oscillating and articulating centerjoint provides long life.
- Self-lubricating bushings are virtually maintenance-free.
- The frame is constructed of heavy steel plate to provide maximum strength and durability.

Easy access means fast servicing

Best for
COMPACTION

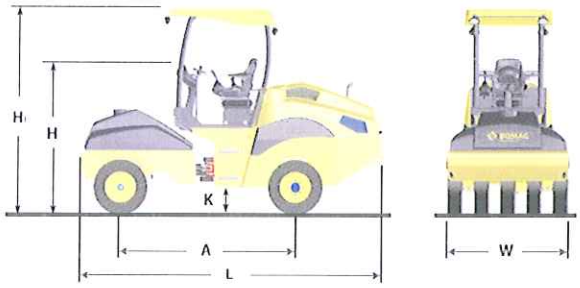
With these features and many more, it's easy to see why this model maintains a high residual value while delivering lower lifetime operating costs.

Technical Specifications

BW11RH-5

Shipping dimensions

in cubic feet (m³)	without/with ROPS/FOPS	
BW11RH-5	568.7 (16.1)	824 (23.3)



Dimensions in inches (mm)

	A	H	H1	K	L	W
BW11RH-5	100 (2540)	82 (2083)	113 (2870)	13 (330)	173 (4445)	68 (1727)

Standard equipment

- ☑ Hydrostatic transmission
- ☑ Tier 4 final Kubota Diesel Engine
- ☑ Nine 7.50 x 15, 12 ply tires
- ☑ Fuel gauge
- ☑ Horn
- ☑ Hydrostatic, center articulated steering with ± 10° frame oscillation
- ☑ Rear wheel oscillation:
  - ± 4° outside
  - ± 5° center
- ☑ Spring-Applied, Hydraulically-Released (SAHR) brakes
- ☑ 14izothope0 gallon polyethylene water tank
- ☑ Roll-Over, Falling-Object Protective Structure (ROPS/FOPS) and seat belts

Optional equipment

- ☐ Cabin with heat & A/C
- ☐ Headlights (front and rear)
- ☐ Turn signals and 4-way flashers
- ☐ Heat retention shields
- ☐ Pressurized water spray system
- ☐ Special paint, 1 color (Enamel only)
- ☐ Radial Tires w/ approx. 14 ply rating

Technical data		BOMAG BW11RH-5
Weights		
Basic/Shipping weight	lb (kg)	9000 (4080)
Operating weight (unballasted)	lb (kg)	9975 (4525)
Operating weight (max. ballasted) w/ ROPS/FOPS	lb (kg)	24000 (10884)
Operating weight (max. ballasted) w/ cab	lb (kg)	20948 (9500)
Average wheel load, (max.)	lb (kg)	2666 (1209)
Dimensions		
Working width	in (mm)	68 (1727)
Wheel track overlap	in (mm)	0.5 (12.5)
Height with ROPS/FOPS	in (mm)	113 (2870)
Track radius, inner	in (mm)	122 (3099)
Dimensions		see sketch
Driving Characteristics		
Speed (low)	mph (kmph)	8.0 (12.9)
Speed (medium)	mph (kmph)	10.5 (16.9)
Speed (high)	mph (kmph)	15.5 (25.0)
Drive		
Engine manufacturer		Kubota
Type		V3307
Emissions Standard		Tier 4
Cooling		water
Number of cylinders		4
Performance SAE J1995	hp (kW)	74 (55)
Speed	rpm	2600
Fuel		diesel
Electric equipment	V	12
Drive system		hydrostatic
Driven axles		front
Tires		
Number of tires, front/rear		4/5
Tire size		7.50 x 15, 12 ply
Oscillation of tires rear, outside/center	deg	4/5
Brakes		
Service brake		hydrostatic
Secondary/Parking brake		SAHR
Steering		
Steering system		oscillating, articulating
Steering method		hydrostatic
Steering angle +/-	deg	35
Oscillating angle +/-	deg	10
Water Spray System (optional)		
Type of water spray system		pressurized
Capacities		
Fuel	gal (l)	25 (95)
Water	gal (l)	140 (532)
Engine oil	gal (l)	2.5 (9.5)
Hydraulic fluid	gal (l)	28.5 (108)

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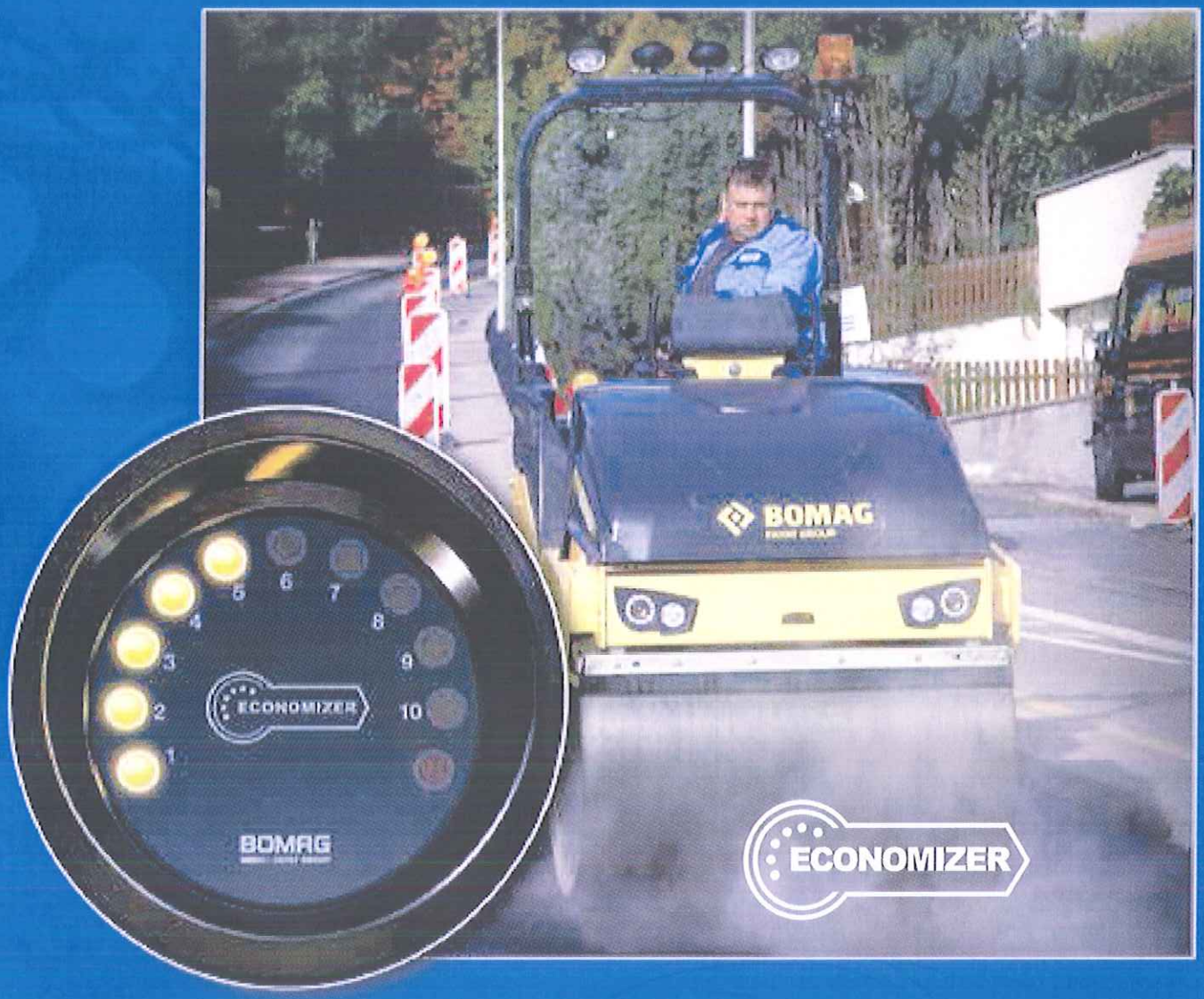
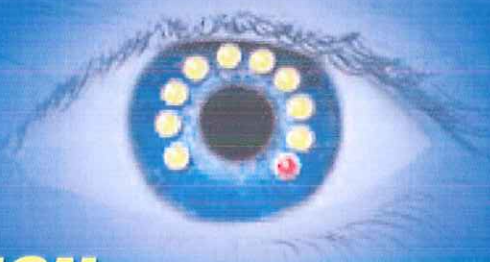
ECONOMIZER



THE NEW EYE FOR COMPACTION



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ECONOMIZER

UNIQUE SELLING FEATURES:

- **Highly accurate** results with Innovative BOMAG technology.
- **Easy to use** simple operation.
- **Contractors save** fuel, labor time and money.
- **Over-compaction is avoided** and aggregate is protected.
- **Proof rolling** reveals weak areas of the base material.
- **Total Surface area compaction control** is achievable with this quality control tool.
- **Real-time results** can be easily read from the LED display.
- **Higher operating efficiency** by avoiding unnecessary passes.

Best for COMPACTION

The New Eye for Efficient Compaction

The ECONOMIZER allows operators to know when materials in soil or asphalt layers are optimally compacted. Located in clear view on the instrument panel, the ECONOMIZER starts automatically when vibration is activated. An acceleration measurement of the vibrating front drum displays instant results via a series of LED's. This quality control tool is easy to use.

... delivering profitability and smoothness!

Self test ensures accuracy:
After switching on the ignition, the ECONOMIZER runs a self-test for correct functioning. During this process, all LED lights are illuminated one row after the other.

Displays stiffness for real time quality control:
Once the optimum working frequency has been reached, the yellow LED lights indicate the current level of material stiffness. With increasing compaction, the number of illuminated yellow LED lights increases.

Saves time and roller passes:
If the number of yellow LED lights does not continue to increase with subsequent passes, the maximum level of compaction has been achieved.

Over compaction is avoided:
If all 10 yellow LED lights are illuminated, the red LED light signals over compaction of the material and prevents fracturing of the aggregate.

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