GP3

Intelligent Slipform Paver

GOMACO®

The Worldwide Leader in Concrete Paving Technology

GP3 Slipform Paver

The new GOMACO GP3 is designed for paving up to 30 feet (9.14 m) wide and to accommodate multiple width changes.

- GOMACO roller frame and smart dual-telescoping capabilities.
- Smart Telescoping for accurate frame widening and automatic width reference for steering setup.
- Smart Pivot Arms for leg positioning with G+® controls and hydraulic rotational swing.
- Extreme Steering capabilities with hydraulic track rotation, GOMACO selective steer, and G+ controls.
- Load-sensed hydraulics for maximum performance and optimized for fuel efficiency.
- New hose and cable management features for hydraulic hose routing and frame cable organization.
- Retractable console to reduce shipping width.
- T-beam mounting rail incorporated into the telescoping frame.
- G+ quiet running technology.
- G+ Connect™ for smart accessories and all guidance systems.
- Isolated operator's platform for operator comfort.
- G+ managed fuel efficiency.
- Easy access to operator's platform from both sides and rear of the GP3.
- Tier 4 ready.

HW-081639-D9

This GOMACO GP3 is equipped with a 5400 series paving mold and is slipforming a 22 foot (6.7 m) wide section of an interstate project. Minimum clearance is facilitated using 3D machine guidance.

HW-081616-D7

The 5400 series bar inserter is front or rear loading and front inserting for ease of use. It mounts to the mold's T-bar and allows on-the-go crown changes, while maintaining a constant depth. The bar box is mounted to the paver's rear T-beam mounting rail for easy access and loading of the bar magazine.

HW-081503-D8

This GP3 is slipforming 15 feet (4.57 m) wide, 10 inches (254 mm) thick at a new weigh station.

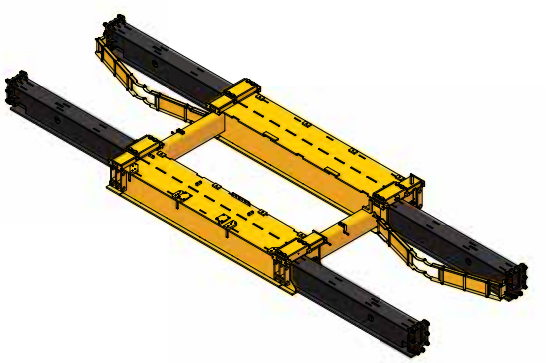
HW-061619-D1

The smart width system provides easy, accurate width change setup and also a reference for G+ to control proper steering and track speeds at varying widths of the paver.

Transport Mode

The GP3 slipform paver is designed for easy transport. A retractable, sliding console reduces the shipping width of the machine. The paver can be switched to the transport mode by simply driving the legs around to the transport position. After the legs are in the transport position, G+ travel is switched to "Transport" for complete control. The operator can take this paver to the transport mode in minutes without assistance.

EG-061513-D14



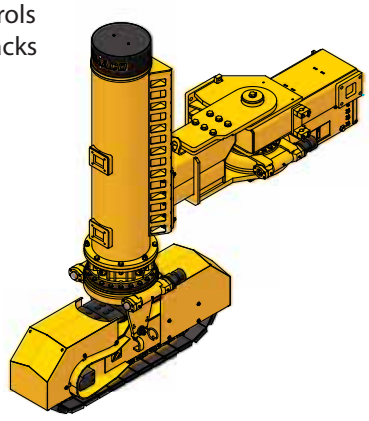
Smart Frame Widening

G+ knows the width of its dual-telescoping frame. Changing the width of the mainframe is accomplished with the Smart Cylinders and GOMACO roller frame. The GP3 can telescope up to seven feet (2.13 m) on each side of the frame for a total of 14 feet (4.27 m) of automatic frame widening.

The smart width provides easy, accurate width change setup and also a reference for G+ to control proper steering and track speeds while turning a radius at varying widths of the paver.

Smart Leg Positioning

Pivot arms for the paver legs feature rotary-sensored slew drives. These smart pivots provide the G+ controls with information on the angle of rotation, which coupled with the track rotation sensors, maintain the tracks in the straight-ahead line for steering, even when the leg pivot is at any angle.

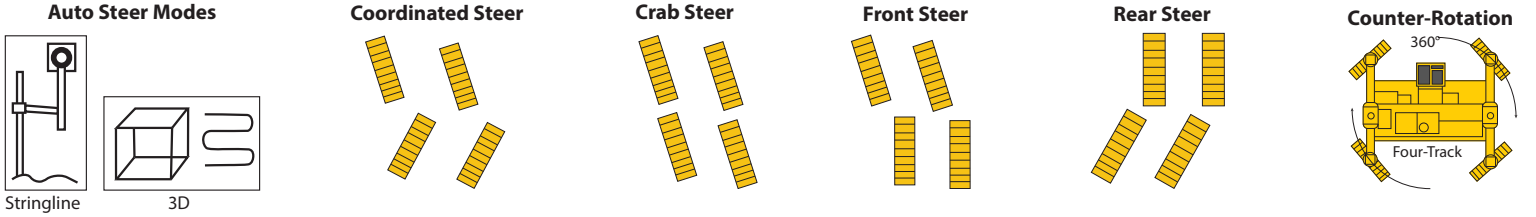


Smart Track Steering

Track steering and rotation is accomplished with rotary-sensored slew drives. This smart track rotation provides the G+ controls with exact track location and position. Extreme steering is now possible with the tracks having the ability to steer farther than ever before.

Smart leg pivoting and smart track rotation now lets the G+ system automatically control the direction and speed of each individual track as it travels through a radius.

GOMACO's Selective Steer Controls



G+® Controls – Designed For Concrete Paving

It is now the technology that pulls everything together… G+ is the center that Connects all of the resources.

SH-101639-D4

Once you experience G+ controls, you won't be satisfied with anything else. It's a control system that is both easy to learn and easy to operate. G+ expresses itself in easy to understand international icons and full script explanations. It operates in all the major languages of the world and in the imperial or the metric system. It has a lightning-fast processing speed and features two-way communications between the accessories and G+. Its instant digital feedback combined with the tight closed-loop electronic and hydraulic control creates a G+ experience that is smooth, efficient, and accurate. There is nothing on the market that can compare, because G+ is a proprietary system that was designed by our in-house control experts incorporating what we have learned from decades of experience in the field, and from what we have learned from you, our customer.

- Machine operation is simple.
- Machine response is fast.
- Troubleshooting is pinpointed, quick, and easy.
- Fault history available.

The exclusive GOMACO G+ control system features self-diagnostics for grade and steering. It features new and easy-to-operate hardware with steering and travel dials. The elevation jog buttons, located to the left of the display screen, are used to manually change the elevation of the leg when the control loop is set to manual mode. The steering jog buttons, located above the display screen, are used to manually change the steer direction of the tracks when the control loop is in manual mode. Control dials are used for manual steering and travel. The G+ travel dial turns to adjust travel speed in one percent increments, and ramps up or down with smooth, precise speed control. This feature is ideal for controlling the smooth travel speed necessary for slipform paving. The paver can be turned left or right with the G+ steering dial as it is moved in the manual travel mode.

A flat-panel 6.5 inch (165 mm) anti-glare display screen is provided with sensor-controlled backlight levels for superior visibility in all operating conditions. The screen is rugged and shock resistant in its construction to protect against dust, moisture, and rain. G+ provides a full color display on the control panel to illustrate the various aspects of the paver for set up and operation. A "run" screen on the control panel illustrates the various aspects of the paver. It includes leg position, paving speed and percentage of drive, steering, travel information, grade information, deviation meters, and more. Newly designed icons and color graphics make it easy to understand and easy to identify the targeted functions. G+ receives a track speed reading from pulse pickups in the track motors to give you real time feet (meters) per minute and total linear footage (meters). G+ controls feature a detailed fault history with the time stamp, date, and information to track when each fault occurred. GOMACO's G+ control system has been proven around the world.

HW-081607-D14

The GOMACO GP3 is equipped with G+ controls and is slipforming a 25 foot (7.62 m) wide road with an integral curb on one side. The GP3 is also equipped with a 5400 series mold, 5400 series tie bar inserter (TBI), and a telescoping end sections for width changes.

HW-051613-D3

This GP3 is equipped with an auger to evenly spread the placed concrete 16.4 feet (5 m) wide to slipform a flat slab. This GP3 in Switzerland is equipped with GOMACO Remote Diagnostics (GRD), which is capable of updating the software without GOMACO personnel ever leaving Ida Grove, Iowa.

This GOMACO GP3 slipforms a 15 foot (4.57 m) wide section of highway. The GP3 is equipped with a 3D machine guidance system along with two paver-mounted GSI® (GOMACO Smoothness Indicator) units.

HW-051614-D18

HW-061620-D19

This GP3 is equipped with GOMACO's exclusive G+ control system. The G+ control system features self-diagnostics for grade and steering. It features easy-to-operate hardware with steering and travel dials, along with an anti-glare display screen with easy to understand icons and full script explanations.

HW-081611-D14

A GOMACO GP3 slipforms a 25 foot wide (7.62 m) road with the concrete being placed in front of the slipform paver by a GOMACO 9500 placer.

The GP3 with a 3D machine guidance system slipforms an eight foot (2.44 m) shoulder with a burlap finish onto a highway ramp.

HW-081625-D15

HW-081624-D5

This GOMACO GP3 features a telescoping spreader plow on the front of the paver to spread the concrete ahead of the mold.

The GP3 features the GOMACO roller frame and dual-telescoping capabilities for accurate frame widening. The GP3 has telescoping capabilities up to seven feet (2.13 m) on each side.

HW-081609-D13

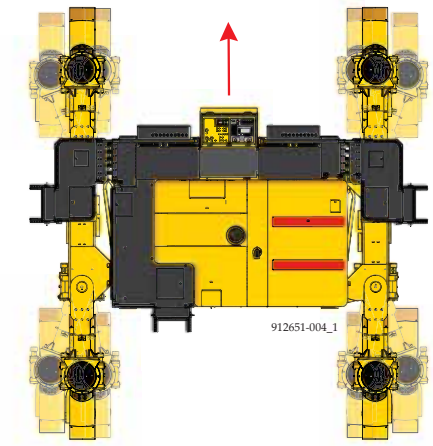
HW-081634-D1

The GOMACO GP3 features the G+® control system, which allows the machine to effectively integrate with leading 3D machine guidance systems. This GP3 features the G+ Connect™ system for connecting smart accessories and guidance systems.

This GOMACO GP3 is equipped with the optional GOMACO Remote Diagnostics (GRD) software. GRD gives owners the visibility of how, when, and where their equipment is being used. Paving crews can also remotely connect with the service department in Ida Grove, Iowa, for troubleshooting needs.

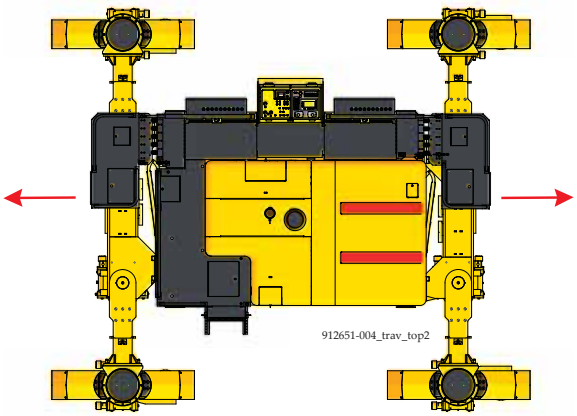
HW-081630-D12

Sensored Leg Pivots and Track Rotation



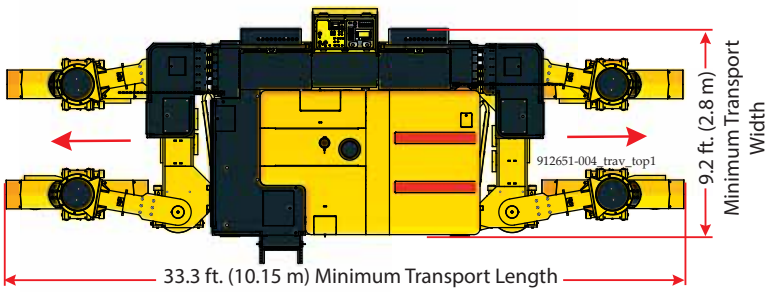
Sensored steer feedback with sensored leg pivots provide continuous reference for the straight-ahead track positioning.

Transverse Mode

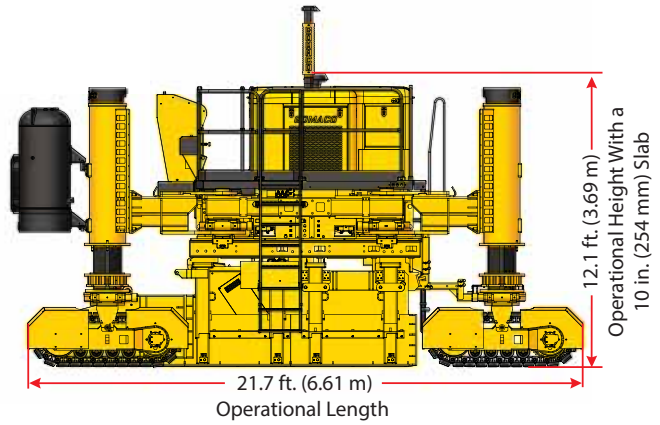


Full-steer tracks are turned perpendicular to the straight-ahead line. The G+® control system recognizes the track positioning and provides automatic steering control in the transverse mode.

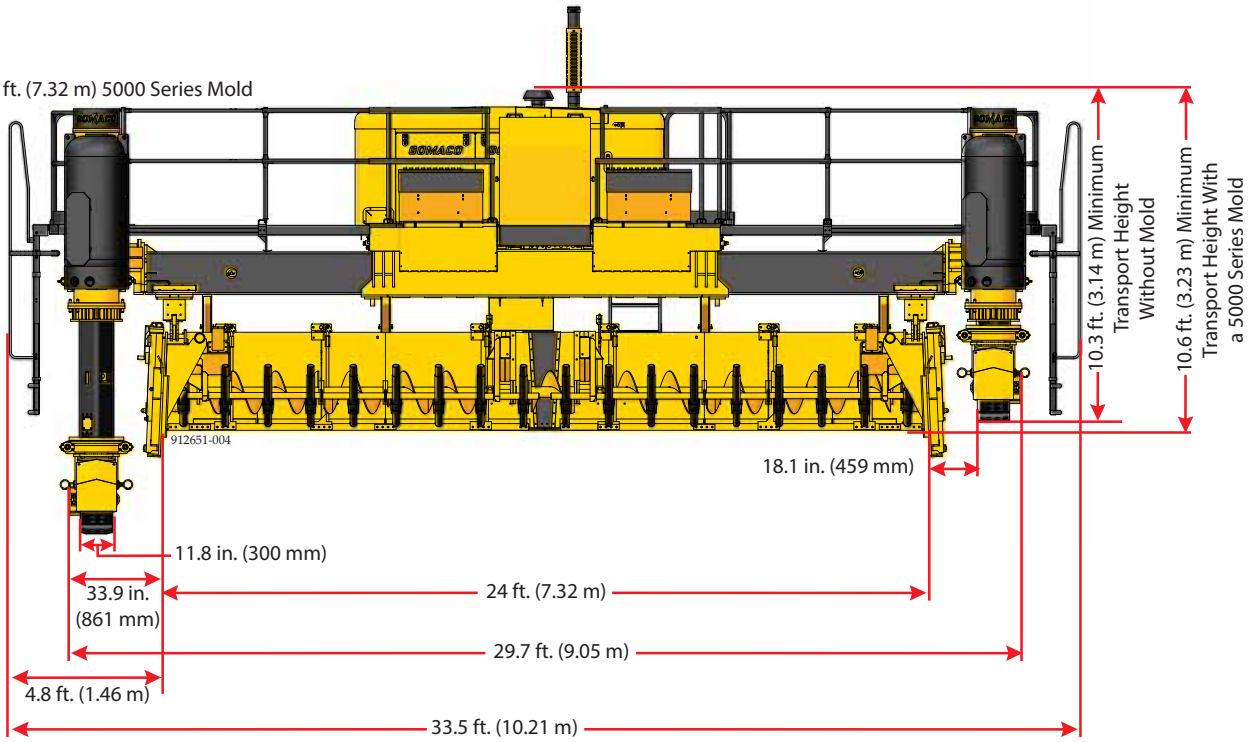
Transport Mode



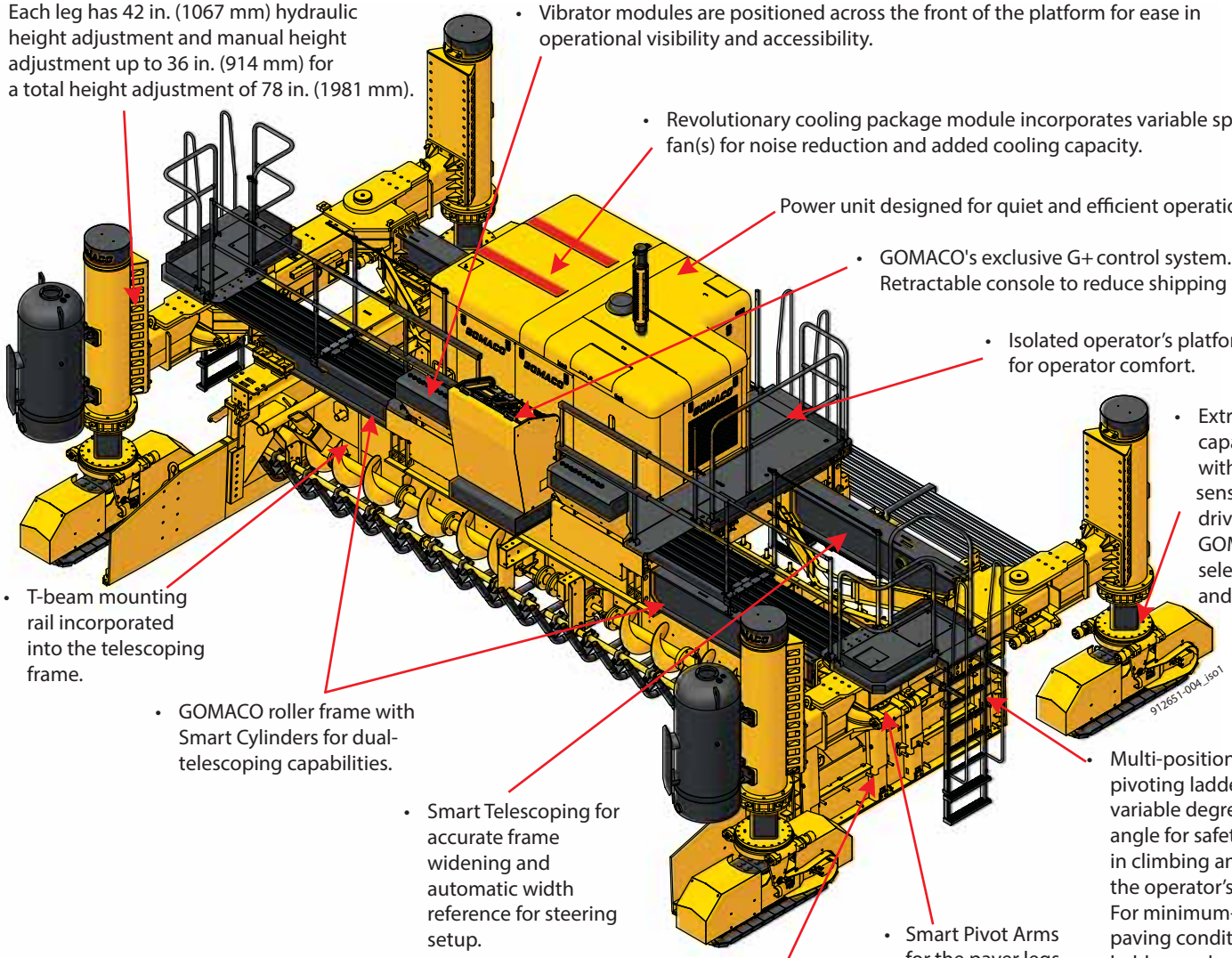
Full-steer tracks and hydraulic rotational sensored pivot arms allow the legs to be driven to the transport position. Track direction of travel and steering control is automatic with the G+ control system.



Shown with a 24 ft. (7.32 m) 5000 Series Mold



GOMACO s GP3 Slipform Paver



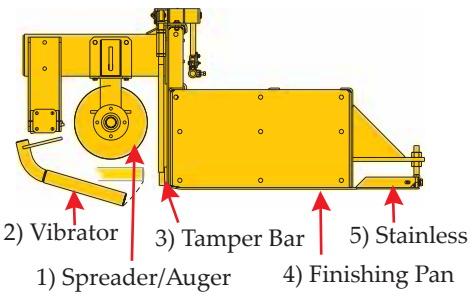
- Each leg has 42 in. (1067 mm) hydraulic height adjustment and manual height adjustment up to 36 in. (914 mm) for a total height adjustment of 78 in. (1981 mm).
- Vibrator modules are positioned across the front of the platform for ease in operational visibility and accessibility.
- Revolutionary cooling package module incorporates variable speed fan(s) for noise reduction and added cooling capacity.
- Power unit designed for quiet and efficient operation.
- GOMACO's exclusive G+ control system. Retractable console to reduce shipping width.
- Isolated operator's platform for operator comfort.
- Extreme Steering capabilities with rotary-sensored slew drives, GOMACO selective steer, and G+ controls.
- T-beam mounting rail incorporated into the telescoping frame.
- GOMACO roller frame with Smart Cylinders for dual-telescoping capabilities.
- Smart Telescoping for accurate frame widening and automatic width reference for steering setup.
- Split, pressure-compensated sideplates.
- Smart Pivot Arms for the paver legs feature rotary-sensored slew drives.
- Multi-positioning pivoting ladder allows variable degrees of angle for safety and ease in climbing and access to the operator's platform. For minimum-clearance paving conditions, the ladder can be vertically positioned tight to the machine.

GOMACO's 3100 and 5000 Open-Front Mold

(1) The **spreader/auger** on the 3100 series open-front mold is a 14 inch (356 mm) auger with maximum speed of 33 rpm @ 12 gpm (45 Lpm) flow. The spreader/auger on the 5000 series open-front mold has a 16 inch (406 mm) auger and maximum speed of 28 rpm @ 12 gpm (45 Lpm) flow.

(2) **Vibration** is provided to the throat area of the mold for consolidation of concrete. The vibrators, with an automatic on/off control, activated with machine movement, are hydraulically powered with variable speeds up to 10,500 vpm. The vibrator positioning is hydraulically controlled for ease in start-up and finish.

(3) The GOMACO **tamper bar** system tamps down the aggregate level with the surface of the pan. The tamper bar is hydraulically powered with an automatic on/off control, activated with machine movement.

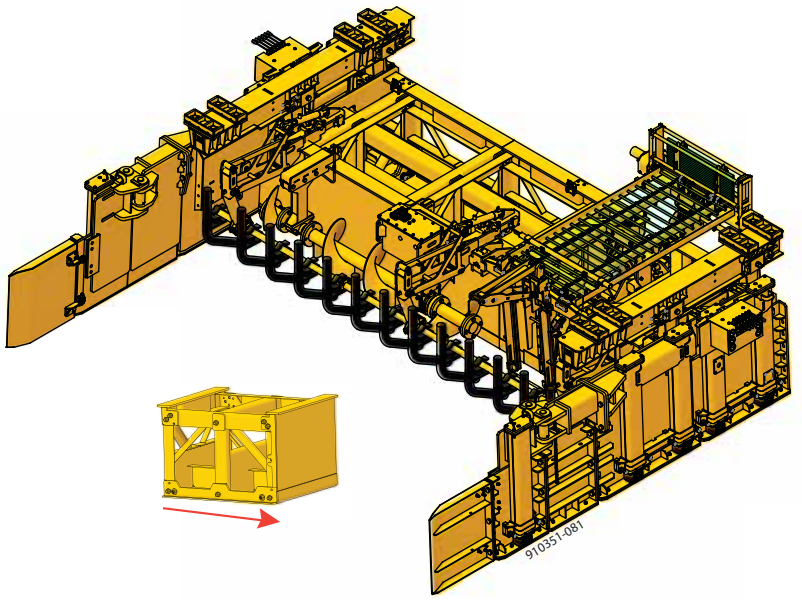


(4) The **finishing pan** serves to level the concrete. The 3100 series mold and stainless from front to back is 48 inches (1219 mm). The 5000 series mold and stainless is 60 inches (1524 mm) from front to back.

(5) Adjustable **stainless steel** is exclusive to the GOMACO system.

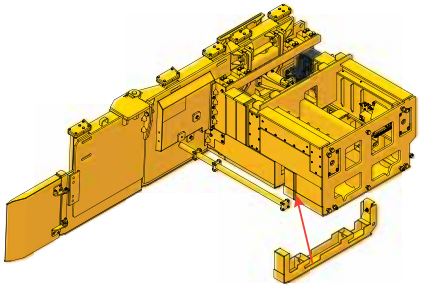
Optional 5400 Series Paving Mold

- Box design with durable 0.5 inch (13 mm) thick paving skin.
- Vertically-adjustable mold mount for precise leveling of mold to machine.
- Telescoping end sections with 24 inches (610 mm) of width variation on each side are optional.
- Edge slump adjustment.
- Hydraulic Vertical Hinged Sideplates, self-contained inside the mold.
- Split, pressure-compensated sideplates.
- Folding sideplate wings for transporting without removing.
- Pivoting mold mounting beam to eliminate stress points, created by crowning the mold.
- Self-supported TA is hydraulically driven with 3.5 inch (89 mm) ACME screws for up to a six inch (152 mm) crown.
- Front and rear top T-bar on mold for attaching accessories and structural integrity.
- Inserts are bolted together with front and rear alignment pins for easy mold assembly.
- Vibrator mounting tube attaches to T-bar on mold.
  - Vertical vibrator lift.
  - Rear lubrication system with grease zerks accessible from the work bridge.
- Tamper bar optional.
- Trailing stainless optional.



The box design of the 5400 series mold has a 54 inch (1372 mm) finishing length front to back and is equipped with a durable 0.5 inch (13 mm) thick paving skin that is welded to the mold to increase the structural integrity.

This 5400 Series paving mold is equipped with two telescoping end sections, and has two 36 inch (914 mm) and two 24 inch (610 mm) mold sections. The 5400 series paving mold also features edge slump adjustment and a self-supported TA. 5400 series paving molds can also be equipped with one or more bar inserters. The mold above is equipped with a center-mounted 5400 series bar inserter.

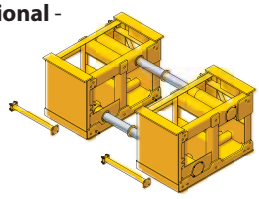


Telescoping End Sections are optional - Inserts are available in quarter-inch (6 mm), half-inch (13 mm), three inch (76 mm), or six inch (152 mm) increments. This drawing shows a six inch (152 mm) insert for the telescoping end section.

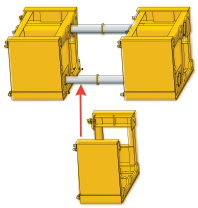
The end section can be telescoped from five to seven feet (1.52 to 2.13 m).

A six inch (152 m) insert is lifted and hooked into place after the end section telescopes out.

Telescoping Mold Sections are optional - Two options are available for the telescoping mold section. One option is a five to eight foot (1.5 - 2.44 m) section, and the other option is six to ten foot (1.83 - 3 m).



These telescoping mold inserts are shown in two foot (0.61 m) and six inch (152 mm) sections.



The telescoping mold section is designed with a structural integrity that is unmatched in the industry.

GP3 Specifications

ENGINE
Consult for options available.

SERVICE CAPACITIES
Fuel reservoir: 160 gal. (605.7 L).
Oil reservoir: 230 gal. (870.6 L).

AUTOMATED CONTROL SYSTEM
Type: Electronic-over-hydraulic.
Controls: GOMACO's exclusive G+® control system features self-diagnostics for grade and steering and smart steer controls for paving accuracy and ease in operation. It features multi-language, metric or imperial settings, and a 6.5 in. (165 mm) anti-glare display screen.
Control indicators: Color graphical performance indicators allow operator to monitor control signals for machine guidance on stringline or 3D.

TELESCOPING FRAME
Telescoping: 16 in. (406 mm) deep modular roller frame telescopes up to 7 ft. (2.13 m) on both sides for a total of 14 ft. (4.27 m) of telescoping capability.
Paving widths: 12 ft. (3.66 m) to 26 ft. (7.92 m) optional to 30 ft. (9.14 m) with additional frame inserts.

WATER SYSTEM
High-pressure water system: Two 100 gal. (378.5 L) tanks. High-pressure with trigger gun control and adjustable pressure unloader for up to 2000 psi.
Option: Two 100 gal. (378.5 L) tanks with hoses, nozzles, and 14.5 cfm (.41 cmm) air compressor for pressurized spray system.

VIBRATORS
Type: Hydraulic motor-in-head powering an eccentric weight.
Quantity: 16 vibrators and 20 vibrator circuits are standard.

AUGER SYSTEM
Type: Electronic-over-hydraulic circuitry. Reversible, hydraulically-powered split auger.

TAMPER SYSTEM
Type: Electronic-over-hydraulic circuitry. Hydraulically-powered split vertical tamping system.
Tamper speed: Adjustable up to 120 strokes per minute.

SLIPFORM MOLD
One right-hand drive section, one left-hand drive section, and one center insert with power transition adjuster (PTA) section. Balance of inserts per customer specifications. Hydraulically pressure-compensated sideplates with variable depth adjustments.

International mold: One right-hand drive section, one left-hand drive section, and one power transition adjuster (PTA) section. Balance of metric inserts per customer specifications. Hydraulically pressure-compensated sideplates with variable depth adjustments.

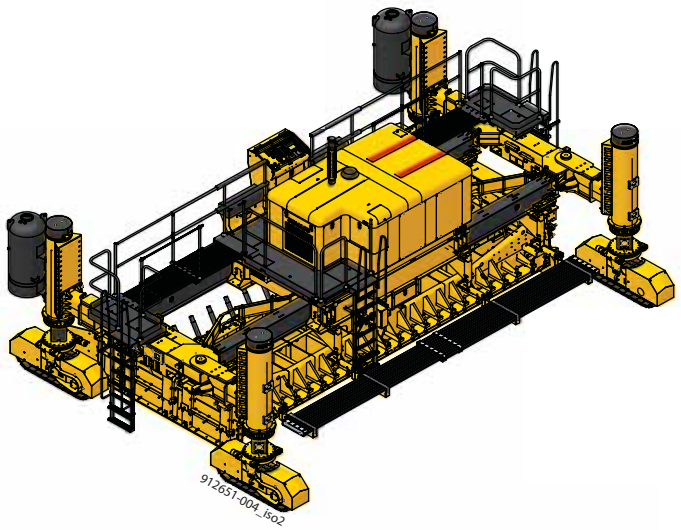
FOUR-TRACK SYSTEM
Type: Four gear-driven.
Overall track length: Series 2 track, 6.3 ft. (1.92 m) includes track fender.
Track pad width: 11.8 in. (300 mm).
Track speed: Variable up to 91 fpm (27.7 mpm).
Ground pressure: 35.1 psi based on 74,600 lb. (33,838 kg) machine with mold and weight evenly distributed.
Leg height adjustment: 42 in. (1067 mm) hydraulic adjustment and manual adjustment up to 36 in. (914 mm) for a total height adjustment of 78 in. (1981 mm).

DIMENSIONS
Operational with 24 ft. (7.32 m) 3100 series open-front mold, transport without mold.
Operational length: 21.7 ft. (6.61 m).
Operational width: 32.2 ft. (9.81 m).
Operational height: 12.1 ft. (3.69 m) with 10 in. (254 mm) slab.
Minimum transport length: 33.3 ft. (10.15 m).
Minimum transport width: 9.2 ft. (2.8 m).
Minimum transport height: 10.3 ft. (3.14 m).

WEIGHTS (approximate)
Transport weight: 57,000 lbs. (25,855 kg) without mold.
Operational weight: 74,600 lbs. (33,838 kg) with 24 ft. (7.32 m) 3100 series open-front mold.
Note: Transport and operational weights and dimensions are variable, depending on the number of machine options.

ATTACHMENTS/OPTIONS
5000 series mold.
5400 series mold.
VHS, vertical hinged sideplates.
Auto-Float® attachment.
Computer-controlled power transition adjuster (PTA).
Ratchet-style edge slump.
Frame extensions.
GOMACO Smoothness Indicator (GSI®).
Sideplate extensions for bar insertion.
Manual bar inserter.
Air bar inserter.
Hydraulic bar inserter.
Bolt-on keyway attachments.
Spreader plow.
5400 series tie bar inserter.
GOMACO Remote Diagnostics (GRD).
On-board camera.

Other options are available to customize the machine to accommodate applications and customer needs.



HW-101614-D5

The GOMACO GP3 slipforms a scab-on lane over continuous steel during a night pour on an interstate project. A GOMACO RTP-500 places the concrete in front of the GP3.

HW-051613-D6

The GP3 slipforms a roadway that is 16.4 feet (5 m) wide. The GOMACO GP3 features an isolated operator's platform for optimum operator comfort. There is also easy access to the operator's platform from both sides of the machine.

Cover Photo: HW-051606-D14

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-- DESIGNED FOR SAFETY --

The GP3 is carefully designed to give years of dependable and safe service. The emergency stop buttons are on the operator's console and on the corners of the machine, which are easily accessible from the ground level. The machine is equipped with a backup alarm, which is designed to alert personnel around the machine when the tracks are set to operate in reverse. Other safety features include track guards, warning decals, operator horn, an operator's manual, and a safety manual. GOMACO machines are also designed to provide the operator with excellent visibility over the entire paving operation.

GOMACO®

The Worldwide Leader in Concrete Paving Technology

GOMACO Corporation's Quality Management System Is ISO 9001 Certified By The American Systems Registrar.

Quality Policy: We Shall Meet Or Exceed Our Customers' Expectations.