

COMMANDER III
TRIMMER / SLIPFORM PAVER



NEW



**INTRODUCING
THE NEXT GENERATION**

GOMACO®

The Worldwide Leader in Concrete Paving Technology

Next Generation

Next Generation Commander III

- **The Commander III is the best selling multi-purpose machine of all time.** Voted *Roads and Bridges* magazine's Contractor's Choice for both paving and curb and gutter every year.
- **The third generation** of the Commander III is all about vision, safety, performance, and the operator.
- **Tier 4 Engine:** The Commander III's frame was redesigned for the new Tier 4 engine and cooling package. The engine and cooling package is now reversed for better operator visibility, quieter operation, and to provide air intake to the radiator while avoiding the concrete loading from a front-facing design. The redesigned engine shroud also allows for easy access to service and fill points.
- **Quiet and Efficient:** G+® controls the hydraulic fan which adapts the cooling based on the job-site conditions for quiet and efficient operation.
- **Improved fuel efficiency** with power-optimized engine and load-sensed hydraulic circuits. An increased fuel capacity of up to 88 gallons (333 L) allows for an uninterrupted day of paving.
- **The pivoting operator's console** is about visibility and hands-on control. Operators can position the console for better visibility of travel during different applications.
- **The vibrator circuits control panel** is relocated for easy access and easy-reach control.
- **Operator Comfort:** The Commander III features an isolated platform which reduces vibration for operator comfort all day.
- **Equipped with G+ Connect™** for simple connections to 3D guidance or GOMACO's complete library of sensors for steering and grade.
- **Easy push-button steering set up** with "smart" cylinders. This allows you to set track steering and parameters.
- **Features All-Track Steering (ATS)** for loading, job-site mobility, and to set the machine to line quickly.
- **Features All-Track Positioning (ATP)** giving the contractor more options for dealing with obstacles, job-site logistics, and various applications.
- **Telematics** is available with G+ for remote engine and machine monitoring.
- **An on-board camera** for visibility is available. The camera feeds full color video to the G+ control screen. This allows the operator to survey designated areas for the slipforming process.
- **The Commander III is the choice for various applications** such as monolithic sidewalk, curb and gutter, barrier, slotted drains, roll-over curb, parapet, and paving widths up to 20 feet (6.1 m) wide.



GOMACO's Next Generation Commander III, three-track, trims and paves a five foot (1.5 m) wide sidewalk.

Commander III

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.

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 imperial or the metric system. It has a lightning-fast processing speed and features two-way communications between paver accessories and G+. Its instant digital feedback combined with the tight closed-loop electronic and hydraulic control creates a G+ paving 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 years of experience in the field, and from what we have learned from you, our customer.

- Machine Setup and Operation are Simple
- Machine Response is Faster
- Troubleshooting is Pinpointed, Quicker and Easier Diagnostics

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 leg when the control loop is in the manual 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.



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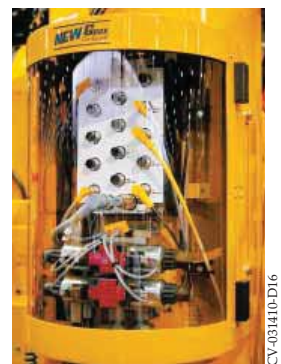
NEW



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GBox

The Next Generation Commander III has a GBox on every leg to accommodate improved steering and grade with G+ controls. It's part of GOMACO's electronic and hydraulic initiative. GOMACO's GBox features a new location for the slave controller and proportional valves, reduces hose and wiring needs, eases serviceability and troubleshooting, and provides easy access with a horizontal swing door at ground level.



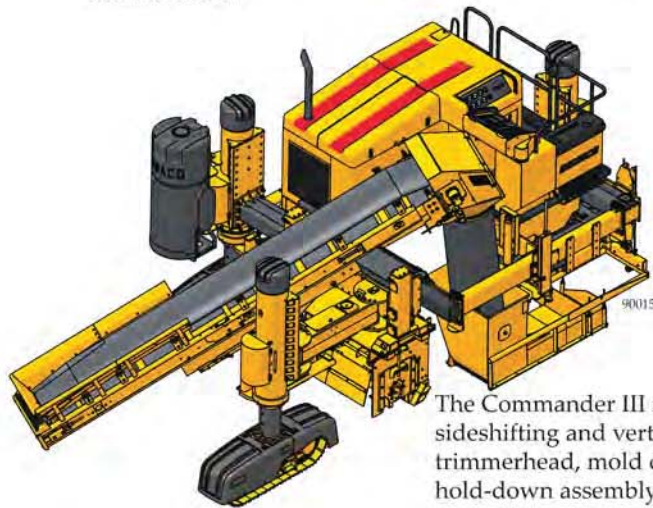
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GOMACO's GBox with a plexiglass covering at CONEXPO-CON/AGG 2014.

Three-Track Commander III

- Hydraulic telescoping leg for positioning right-front track.
- Hydraulic power-swing leg for positioning left-front track.
- Piston-style legs.
- Hydraulic charging conveyor with four-way hydraulic positioning for slide and tilt.
- GOMACO G+® control system in the pivoting console.
- Operator's platform provides easy access and ultimate operator visibility. The platform also features a special skid-resistant surface on the walkway for safety and is vibration isolated for operator comfort.
- Hydraulic power-slide leg for positioning rear track.
- GBox on every leg to accommodate improved steering and grade with G+ controls.
- Exclusive "smart" steering cylinders, used for dependable steering control feedback for push-button steering setup, and setting parameters.
- Track circuits provide up to 50 feet per minute (15 mpm) operating speed and 131 feet per minute (40 mpm) for job-site mobility. Self-tensioning tracks are fully automatic and hydraulically lock in on machine start-up to maintain steady track tension on the track chain.
- 42 inch (1067 mm) sectionalized trimmerhead has 18 inches (457 mm) of hydraulic vertical adjustment with an extra six inches (152 mm) of manual vertical adjustment and 36 inches (914 mm) of hydraulic sideshift. It is independent from the vertical and sideshifting mold drawbar and rolling hold-down assembly. Extensions are available on the unique sectionalized trimmerhead for trimming up to 10 feet (3.05 m) wide and carbide-tip trimmer teeth are standard on the job-proven trimmerhead.
- Exclusive independent adjustable stainless steel troweling section seals and provides a superior GOMACO finish.
- Mold drawbar and rolling hold-down assembly have 18 inches (457 mm) of pressure-compensated hydraulic vertical adjustment with an extra six inches (152 mm) of manual vertical adjustment and 36 inches (914 mm) of hydraulic sideshift, and are independent from the vertical and sideshifting trimmerhead.

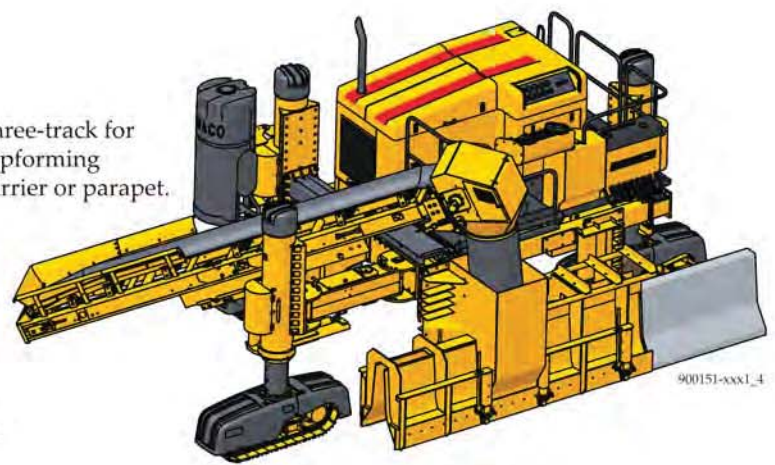
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The Commander III features the sideshifting and vertical-lifting trimmerhead, mold drawbar and hold-down assembly.

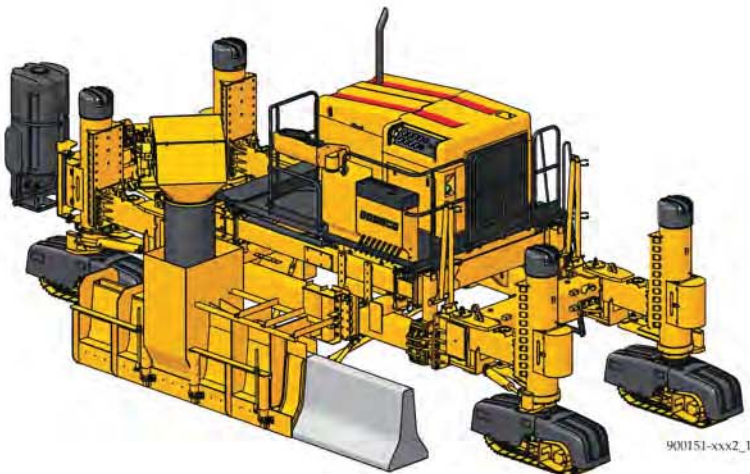
Three-track for slipforming barrier or parapet.



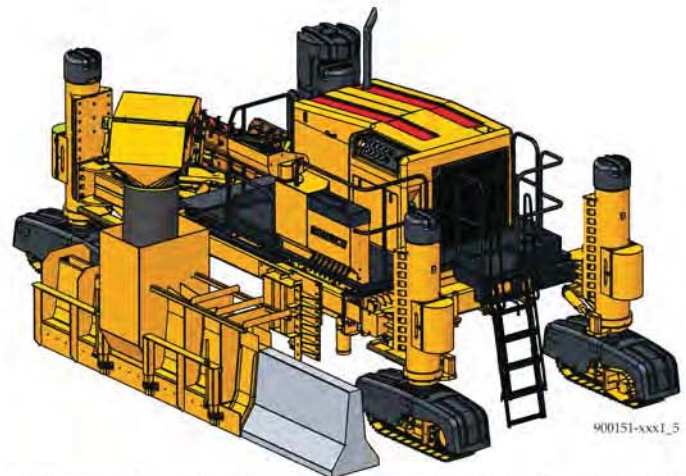
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Four-Track Commander III

- Pivoting legs that swing to the outboard position for easy loading and transport.
- Piston-style legs.
- GOMACO G+ control system in the pivoting console.
- Operator's platform provides easy access and ultimate operator visibility. The platform also features a special skid-resistant surface on the walkway for safety and is vibration isolated for operator comfort.
- Vibrator controls for up to 16 circuits.
- Each leg is adjustable in four inch (102 mm) increments for 28 inch (711 mm) manual adjustment with 42 inch (1067 mm) hydraulic adjustment.
- GBox on every leg to accommodate improved steering and grade with G+ controls.
- Track circuits provide up to 37 feet per minute (11 mpm) operating speed and 98 feet per minute (30 mpm) for job-site mobility.
- A roller frame provides easy and accurate width changes. The Commander III's frame hydraulically telescopes on the left side up to six feet (1.83 m). The dual rollers, mounted to the top and bottom of the outer frame tubes, position the inner tube and reduce the amount of surface to surface contact area when telescoping. The roller frame was originally developed for the Commander III with a V2 mold. The V2 is GOMACO's dual mold system that is hydraulically adjustable for paving at different widths. The roller frame provides a fluid action as the V2 mold is making on-the-go width changes for tapered slabs. The roller frame is now standard on all GOMACO Commander III four-track machines. It can also be retrofitted in the field on existing Commander III's.
- Exclusive "smart" steering cylinders, used for dependable steering control feedback for push-button steering setup, and setting parameters.
- Optional aluminum work bridge extends from 10 feet (3.05 m) to 18.9 feet (5.76 m) and folds up for transport.
- Pressure-compensated, split sideplates.
- 3100 series open-front mold, vibrators and a 14 inch (356 mm) diameter auger and adjustable stainless to provide the superior GOMACO finish.



Four-Track Paving Package in the transport mode for slipforming barrier or parapet.

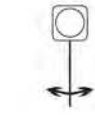


The Four-Track Barrier Package assembly includes the fourth leg and track and a hydraulically extendible rear frame to extend the right rear leg and track.

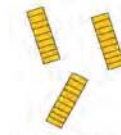
Three-Track Versatility

All-Track Steer (ATS)

Three-Track
Commander III



Stringline
Steer Mode



Coordinated
Steer



Crab Steer

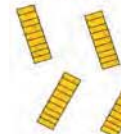


Front Steer

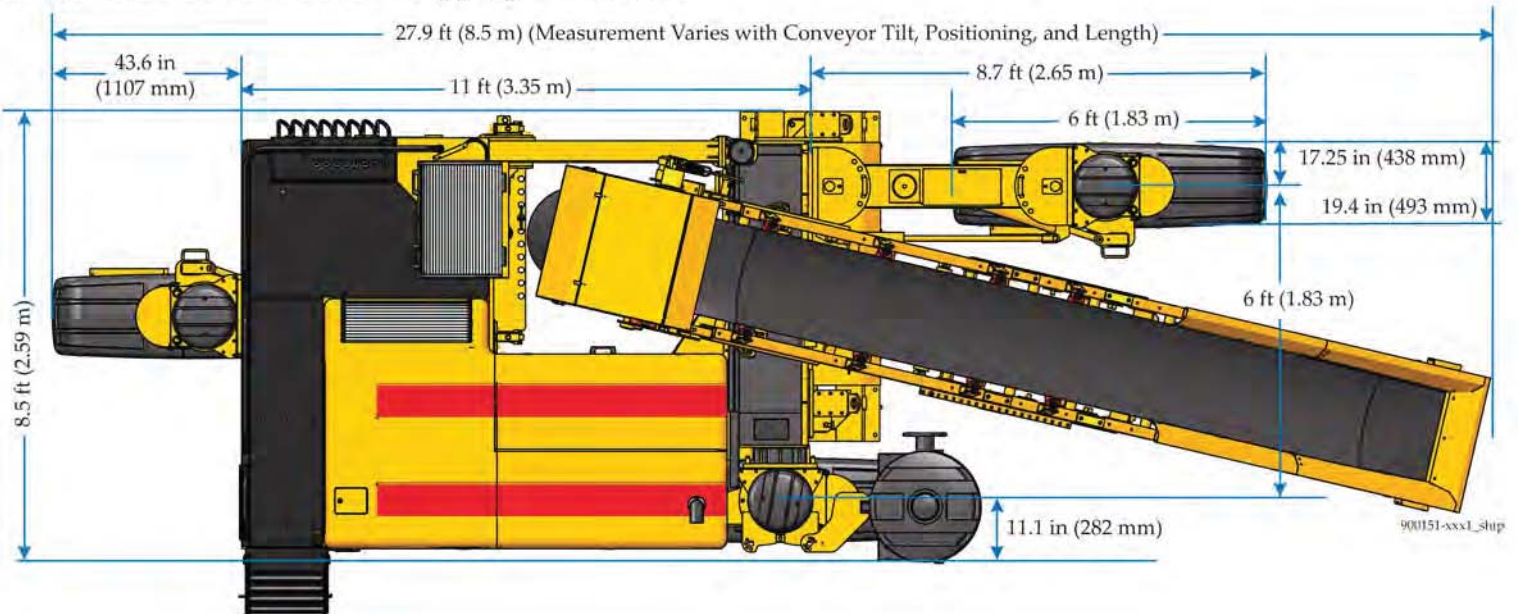


Rear Steer

Four-Track
Commander III

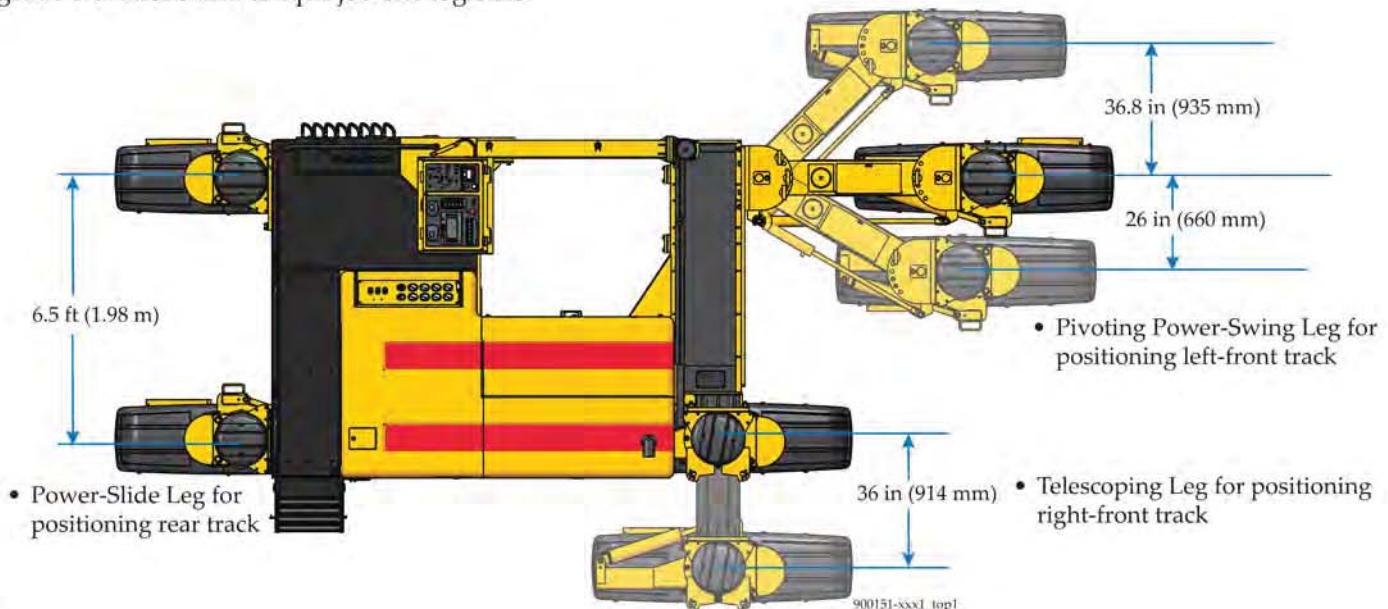


Three-Track Commander III Shipping Dimensions



ATP

All-Track Positioning (ATP) provides versatility in our slipform pavers. Each leg has a reinforced steel attachment plate that allows extra leg height adjustments. ATP provides the capability to perform various applications and work with differences in grade elevations and unique job-site logistics.

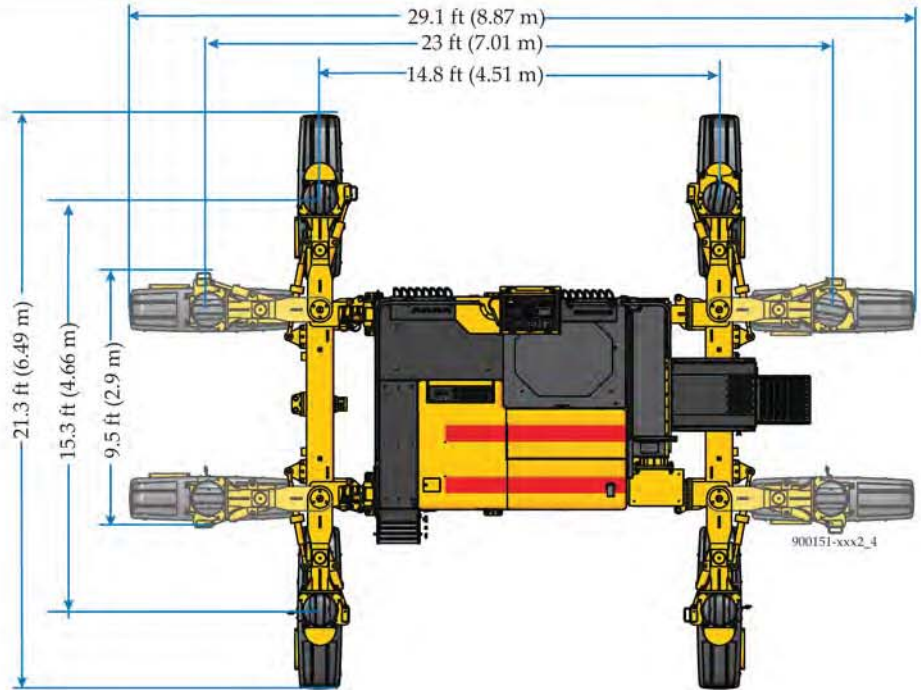


FOUR-TRACK COMMANDER III IS THE PERFECT PAVER FOR NARROW WIDTH PROJECTS

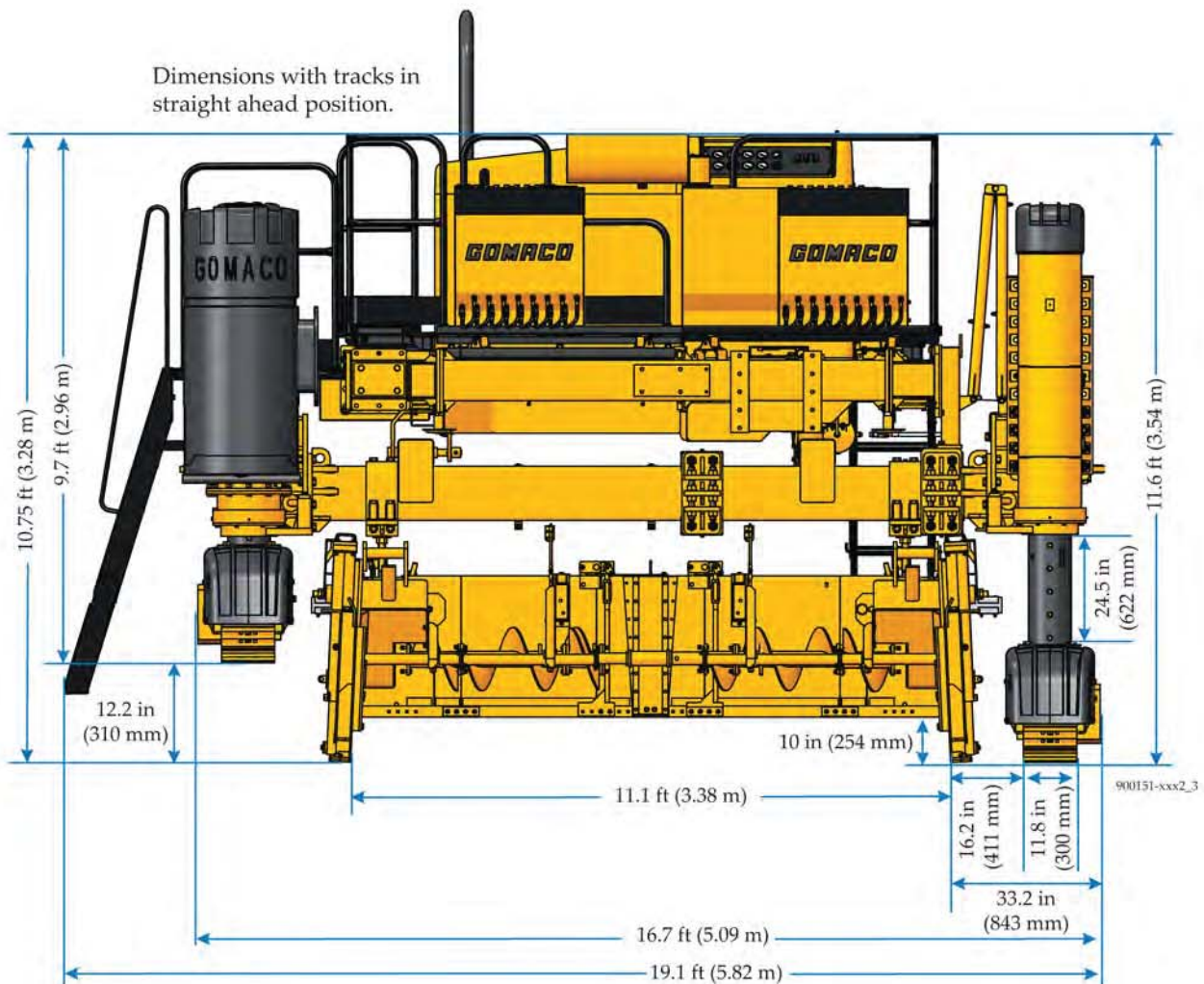


A GOMACO four-track Next Generation Commander III paves a new highway.

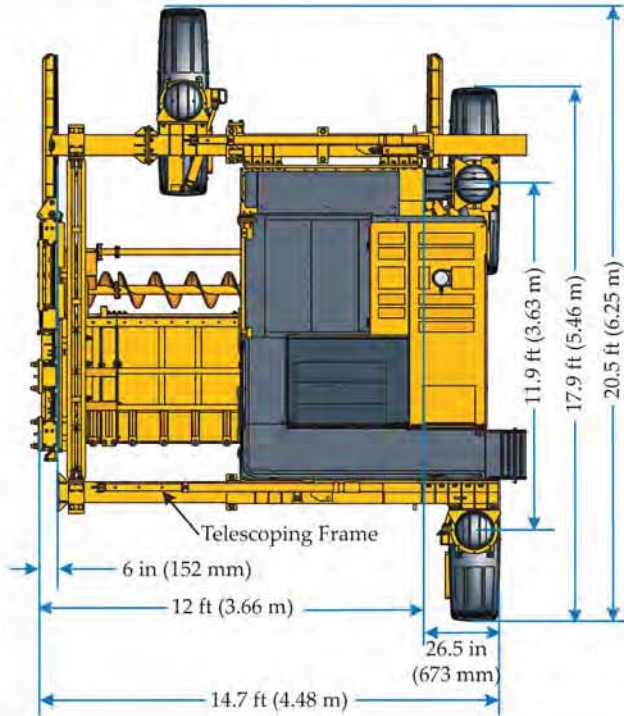
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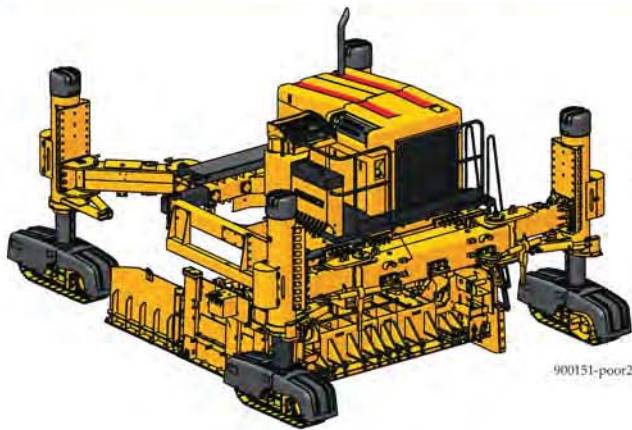
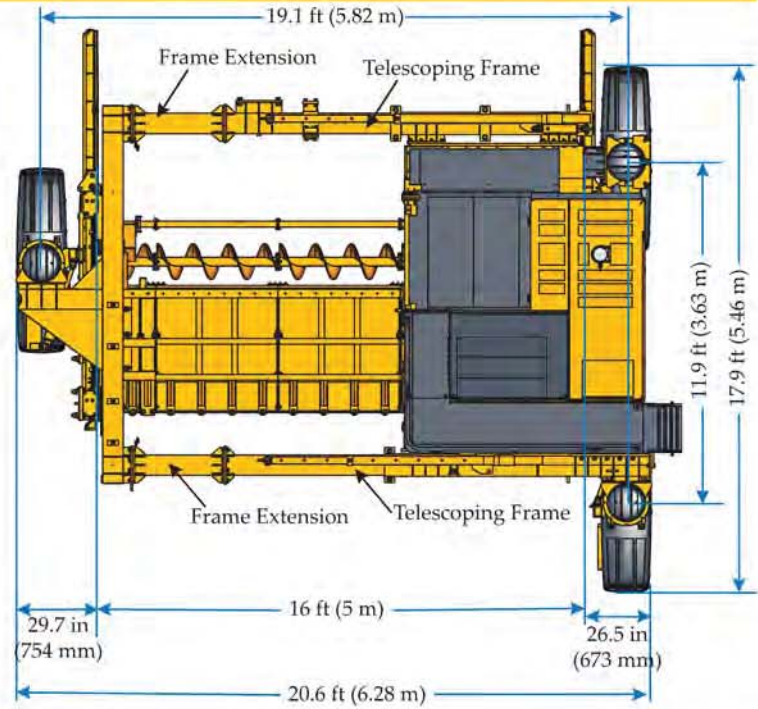
Dimensions with tracks in straight ahead position.



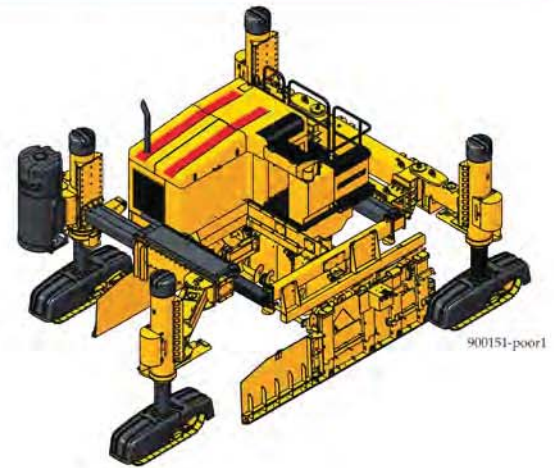
12 foot (3.66 m) Paving Package



16 foot (5 m) Paving Package



Additional Versatility
An economical paving package for trails and small paving applications.



Cover Photo: CG-061402-D4

Manufactured under one or more of the following U.S. or foreign patents: 5,190,397; 5,209,602; 5,924,817; 5,941,659; 6,099,204; 6,450,048; 2,211,331; 2,069,516; 7,044,680; 7,284,472; 7,517,171; 7,845,878; 7,850,395; 2,591,177; and patents pending.

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GOMACO Corporation reserves the right to make improvements in design, material, and/or changes in specifications at any time without notice and without incurring any obligation related to such changes. Performance data is based on averages and may vary from machine to machine.

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Designed For Safety

The Commander III is carefully designed to give years of dependable and safe service. Emergency stop (E-Stop) buttons are located on strategic areas of the machine. The E-Stops are on the operator's console and on corners of the machine, or can be positioned at various points on the machine providing optimal use for specific applications. Other safety features include track guards, warning decals, an operator's manual, and a safety manual. GOMACO machines are also designed to provide the operator maximum visibility over the entire paving operation.

GOMACO Corporation recommends the implementation of all safety procedures.



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.



The Next Generation Commander III

Introductory Specifications

ENGINE

Type: Tier 3 (Stage IIIA) C7.1 Caterpillar diesel.
Power: 173 hp (129 kW) @ 2200 rpm.

SERVICE CAPACITIES

Fuel reservoir: 88 gal. (333 L).
Hydraulic oil reservoir: 162 gal. (613 L).

HYDRAULIC SYSTEM

Pumps: Five load-sense pumps for track, vibrator, trimmer, and conveyor functions.

One pressure-compensated pump for lift and auxiliary functions.

One fixed displacement pump for powering the cooling system fan.

Filtration: Industry standard filtration, including 10 micron control circuit filter, 100 wire mesh control circuit strainers and reusable double magnetic sump strainers.

VIBRATORS

Type: Hydraulically powered, motor-in-head, variable speed, independently controlled.

Quantity: Eight hydraulic circuits and four hydraulic vibrators with mounts included with each machine.

SLIPFORM MOLD

Curb and gutter mold: One mold standard, up to 36 in. (914 mm) wide. Optional molds available for curb and gutter, monolithic sidewalk and curb and gutter, barrier, parapet, irrigation canal, and more.

TELESCOPING FRAME (four-track)

Telescoping: Frame hydraulically telescopes on the left side up to 6 ft. (1.83 m).

DRAWBAR & HOLD-DOWN ASSEMBLY

Hydraulic lift: 18 in. (457 mm) pressure-compensated hydraulic vertical adjustment with 6 in. (152 mm) manual vertical adjustment, allowing up to 24 in. (610 mm) of vertical adjustment.

Sideshift distance: 36 in. (914 mm) hydraulic sideshift.

WATER SYSTEM

Type: High-pressure water system.

Capacity: 110 gal. (416 L) tank, hose, and nozzle.

AUTOMATIC 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 as machine follows string-line or 3D commands.

Reverse auto control: Single switch sets controls for automated control with machine traveling in reverse.

TRACK SYSTEM

Type: Hydraulically powered gear-driven crawler tracks.

Track length: 5.1 ft. (1.55 m). Overall length with fenders 6 ft. (1.83 m).

Track pad width: 11.8 in. (300 mm).

Track speed: For the three-track machine, up to 49.5 fpm (15.1 mpm) paving, and auxiliary up to 131 fpm (39.9 mpm); for the four-track machine, up to 37.1 fpm (11.3 mpm) paving; and auxiliary, up to 98 fpm (29.9 mpm).

Track tension: Fully automatic, hydraulically locks in on machine start-up, maintaining a steady tension on the track chain.

Leg height adjustment: Each leg adjustable in 4 in. (102 mm) increments for 28 in. (711 mm) manual adjustment with 42 in. (1067 mm) hydraulic adjustment.

Telescoping leg for positioning right front track: Hydraulically controlled, allows 36 in.

(914 mm) lateral track adjustment range.

Power-slide leg for positioning rear track:

Hydraulically controlled, allows 6.5 ft. (1.98 m) lateral track movement.

Power-swing leg for positioning left front track:

Hydraulically controlled, allows track positioning from straight ahead to 13.5, 26, and 36.8 in. (343, 660, and 935 mm) to left outside of main frame or 13.5 and 26 in. (343 and 660 mm) to right toward center of main frame.

CHARGING CONVEYOR

Type: Hydraulically powered, reversible with charging hopper.

Length: 17.1 ft. (5.21 m) between pulley centers.

Width: 24 in. (610 mm).

Belt speed: Variable to 362 fpm (110 mpm).

Conveyor mount: 36 in. (914 mm) hydraulic slide adjustment with 6 in. (152 mm) hydraulic tilt cylinder and manual pivoting mount (slide and tilt) for negotiating discharge from the ready-mix truck and negotiating grade variations. Allows truck positioning to front or side of machine. Hydraulically powered mount controls conveyor slope.

SUBGRADE TRIMMER (sectionalized)

Sectionalized trimmer: Internal hydraulic drive system and 24 in. (610 mm) diameter trimming wheel.

Trimmer wheel rotation: Upward cut.

Width: 42 in. (1067 mm) sectionalized trimmerhead includes one 24 in. (610 mm) drive section with hydraulic internal drive and 18 in. (457 mm) extension. Extensions available for trimming up to 10 ft. (3.05 m) wide.

Sideshift and vertical adjustment: The trimmerhead mount for the three-track machine has 36 in. (914 mm) hydraulic sideshift, 18 in. (457 mm) of hydraulic vertical adjustment and 6 in. (152 mm) of manual vertical adjustment, allowing up to 24 in. (610 mm) of vertical adjustment.

THREE-TRACK MACHINE DIMENSIONS

Overall length: 23.3 ft. (7.1 m) without conveyor.

Transport height: 8.6 ft. (2.62 m) without the mold.

Transport width: 8.5 ft. (2.59 m) without ladder.

Transport length: 27.9 ft. (8.5 m) with conveyor (measurement varies with conveyor tilt, positioning and length) and 23.3 ft. (7.1 m) without conveyor.

FOUR-TRACK PAVER DIMENSIONS

Overall length: 21.3 ft. (6.49 m).

Overall width: 25.1 ft. (7.65 m) extended and 19.1 ft. (5.82 m) retracted with ladder mounted.

Operational height: 11.6 ft. (3.54 m) with 3100 series mold and 10 in. (254 mm) paving depth.

Transport height: 9.7 ft. (2.96 m) without mold and stack, and 10.75 ft. (3.28 m) with 3100 series mold and without stack.

Transport width: 9.5 ft. (2.9 m) without ladder.

Transport length: 29.1 ft. (8.87 m).

THREE-TRACK WEIGHT

Standard curb and gutter machine approximate weight: 29,500 lbs. (13,381 kg).

FOUR-TRACK WEIGHT

Standard four-track paver with 12 ft. (3.66 m)

3100 series mold approximate weight: 49,500 lbs. (22,453 kg).

OPTIONS

Tier IV 173 hp (129 kW) @ 2200 rpm
C7.1 Caterpillar diesel engine.

Consult factory for other engine options.
Barrier/parapet sidemount or centermount.
Monolithic sidewalk and curb and gutter package.

Trimmerhead extensions.

Left-hand discharge trimmerhead.

48 in. (1219 mm) charging conveyor extension to accommodate longer conveyor requirements.

Conveyor truss assembly required on 24 ft. (7.32 m) long conveyors.

Auger provides fast and efficient concrete delivery.

Additional vibrator circuits and controls.

Hold-over assembly, hydraulically powered, required when paving adjacent to existing concrete slab.

Swinging drawbar extension, for use with molds wider than 48 in. (1219 mm).

Slipform molds, consult factory.

V2 paving mold.

24 in. (610 mm) section with supported or self-supported power transition adjuster (PTA).

Auto-Float® attachment.

Polyurethane track pads.

Wireless remote for G+ curb and gutter machines.

3D package for stringless control.

On-Board Camera.

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