9000
TRIMMER/PLACER

GOMACO®

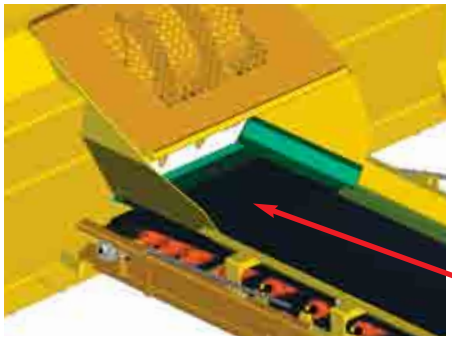
The Worldwide Leader in Concrete Paving Technology

Rideability Starts Here

With The World's Most Versatile Material Handling Machine

The Advantage of GOMACO's Unique Front-Mounted, Two-Track Design

- **More Trimming Power...** The new single-drive, hydrostatic motor increases trimmerhead power by 50 percent with nine percent more trimmerhead speed for high production. One drive instead of two provides less maintenance.
- **Asset Utilization...** The versatility of the 9000 comes directly from the front-mounted design. This allows changing the same machine from a grade trimmer to a shoulder trimmer or to a concrete placer.
- **Less Maintenance Time...** Easy access to the front-mounted trimmer allows quick inspection of the trimmerhead or replacement of teeth.
- **Quick Transport Readiness...** The trimmerhead or concrete hopper is easily detached and the machine simply backs off. No additional equipment is needed at the location to remove them.
- **It Loads Itself...** Optional hydraulic pick-up arms load the trimmerhead onto the trailer, so additional heavy-lifting equipment is not needed at that location.
- **Maneuverability Between Stringlines...** A 360-degree turn in the machine's own length is possible because of the two-track design. A wide turning radius is not demanded like three-track machines. Maneuverability is necessary in most job-site conditions.
- **Low PSI...** The large track surface contact area and the two-track design provide a high tractive effort and low ground pressure on the trimmed grade.
- **Does Not Leave The End Of The Pass Untrimmed...** Only the front-mounted trimmer allows for trimming to the end of each pass or within inches of front obstacles.
- **More Power And Minimum Side Clearance...** Our state-of-the-art, hydrostatic, direct drive motor in the trimmerhead is mounted internally to allow side-clearance requirements of only inches/millimeters.
- **Visibility Means Safety...** The operator has a full view of the trimmerhead or concrete hopper because it is directly in front of the operator's platform.



Improved Conveyor System Provides More Power

The conveyor system now offers more throughput than ever before. The conveyor system is now a closed loop direct drive hydrostatic system. This new system design provides more power to the belts and five percent more belt speed.

The throat from the trimmerhead to the transfer conveyor has been enlarged to funnel the maximum amount of material possible to the belt system in a single rotation of the head.

GOMACO Trimmerhead Designed For Maximum Power And Performance

The standard 10 ft. 8 in. (3.25 m) 9000 trimmerhead has 95 teeth for maximum performance to profile the grade to specification.

Quick and Accurate High-Volume Trimming and Placing

The GOMACO 9000 does both the grade trimming and concrete placing for the runways on this Air Force base in Florida. The 9000 trimmer was equipped with extended sensor arms. The telescoping arms allow sensoring off both stringlines set up to 40 ft. (12.19 m) apart. Dual grade control is used for sensoring stringline on both sides of the machine simultaneously.

The 9000 quickly and accurately places concrete in front of GOMACO's GP-2600 slipform paver. The 9000 placer is designed for a wide variety of job applications, including those requiring concrete placement over dowel baskets or mesh reinforcement and any high volume end-dump operation.

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Less Parts And More Trimming Power Than Ever Before With Single Drive

The 9000 has a single hydrostatic drive motor on the trimmerhead. This hydraulic system design has made the best even better. It requires less maintenance with one drive, instead of two. It has half the circuits, half the connections and half as many hoses with the single drive. It has more trimming power for the operation with 50 percent more power to the standard trimmerhead and the tooth-tip rotational maximum speed has increased by nine percent. The single drive now allows for simplified and cost effective trimmerhead width changes. You can now add inserts without the consideration of two drive sections.

GOMACO's Control System Easily Interfaces with New Stringless Technology

GOMACO Corporation has the control system of the future. The new technology allows GOMACO's slipform pavers, trimmers, and placer/spreaders to be controlled by an automated 3D machine-control system and not by stringline. The 3D control system is adaptable to GOMACO's exclusive operating system. This system can accommodate radii or superelevations automatically according to design data.

HW-030102-S-24

Real-time navigation systems allow the project data created in the CAD system to be directly put into the paving process. **The result is improved product quality, operational safety and work rate.** Another advantage is uninterrupted control of the machine over long distances. There is no stringline installation or maintenance. **The stringless control systems can save you time and money.**

The 9000 trimmer provides fast and accurate cutting of lime-treated subgrade down to the final grade on this street project in Kansas. Production in removing the trimmed material is enhanced with conveyor belt speeds of 560 fpm (170.7 mpm).

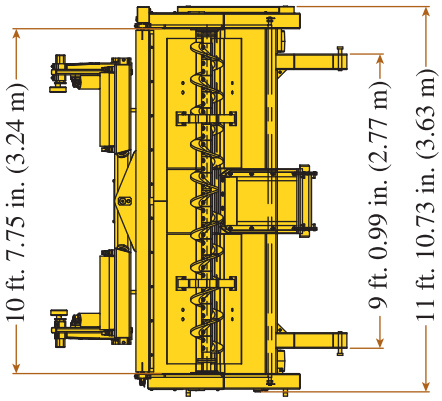
HW-030104-D3

QUALITY AND VERSATILITY

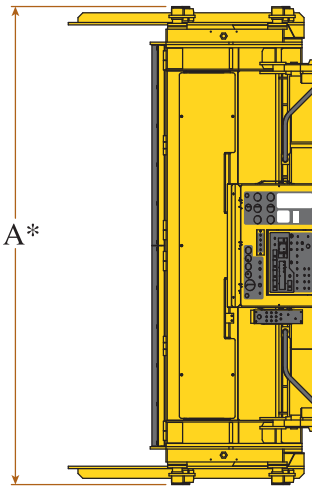
GOMACO has the highest standard of quality in the industry with skilled personnel producing state-of-the-art machines.

GOMACO's engineering, research and development and manufacturing teams are known for quality control to provide superior performance.

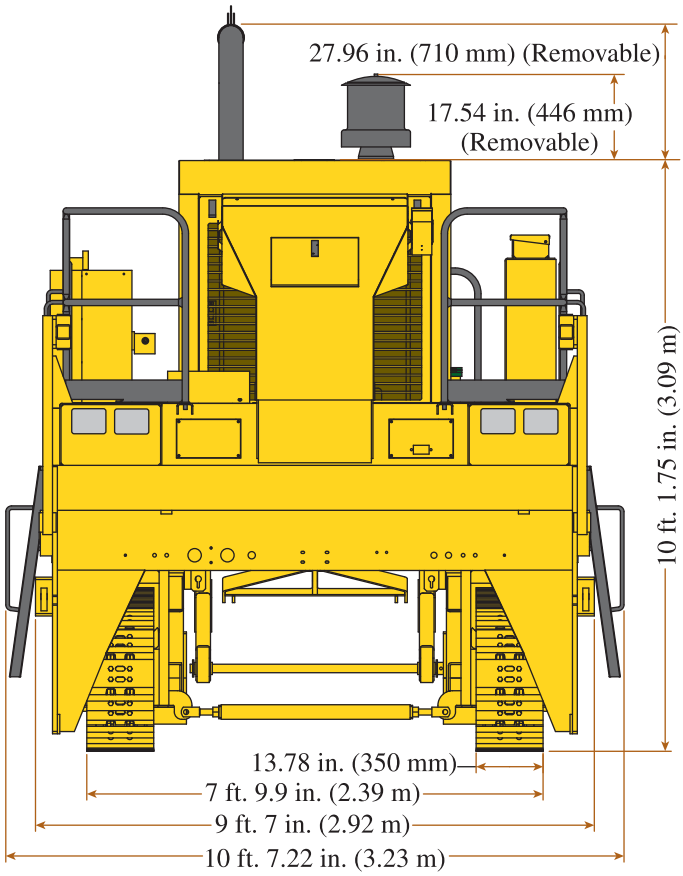
The GOMACO 9000 was designed for maximum versatility as both a high-production trimmer or a quick and accurate concrete placer. GOMACO quality is proven performance and dedication to customer satisfaction for over 40 years.

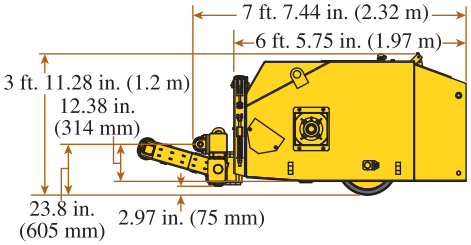


Top View - Placer Hopper

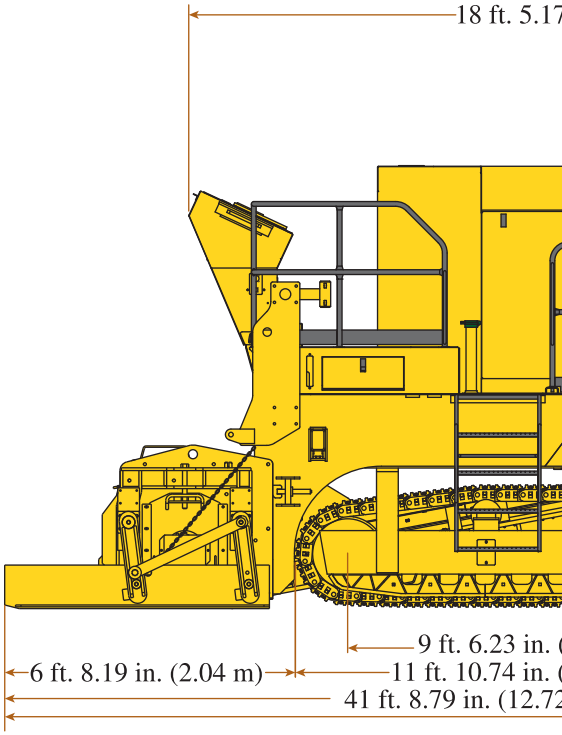


CUTTING WIDTH	OVER
	Dim
10 ft. 8 in. (3.25 m)	12 ft. 7
12 ft. 8 in. (3.86 m)	14 ft. 7
14 ft. 8 in. (4.47 m)	16 ft. 7

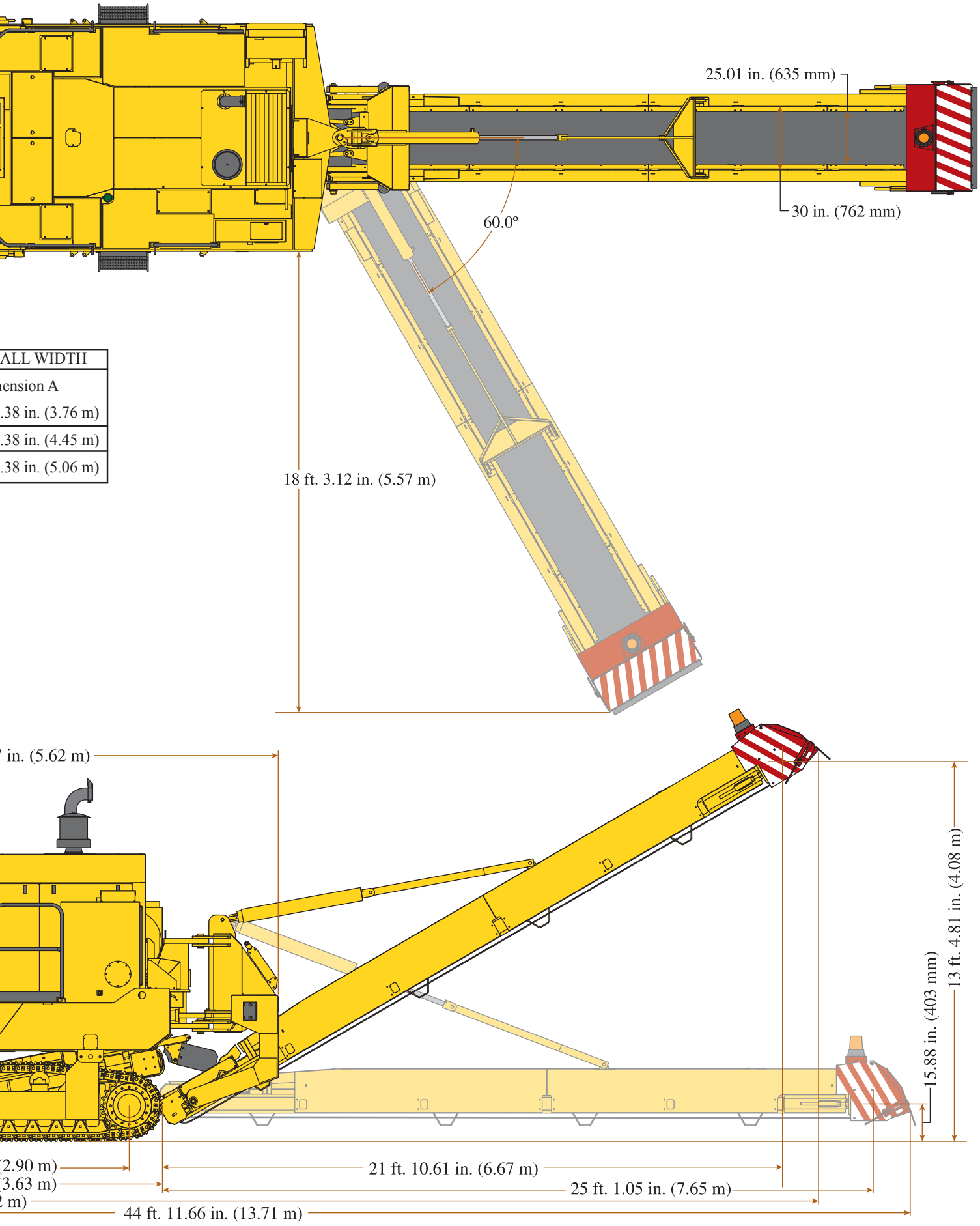




Side View - Placer Hopper



Side View - Trimmer



ALL WIDTH
ension A
.38 in. (3.76 m)
.38 in. (4.45 m)
.38 in. (5.06 m)

The Digital Power of GOMACO's Exclusive Operating System

The world's first full color, full text, and multi-language paver control system.

SH-011109-D-13

GOMACO's operating system is a digital control system with a graphical display that provides easy to understand icons and multi-language commands. It is a revolutionary proprietary software and operating system that combines intelligence with simplicity for GOMACO construction equipment. The information is presented in full color, commands are presented in full text, and this system can contain multiple languages for operation.

The GOMACO operating system features a 6.5 inch (165 mm) anti-glare display screen with sensor-controlled backlight levels. It provides superior visibility under all operating conditions. Its rugged, shock resistant construction protects it against dust, moisture, and other outdoor elements. The high-brightness, color graphics, and fourteen (14) function buttons provide the ultimate user-friendly operator experience.

Training time on the machine is reduced dramatically because the user-friendly screen and controls are easy to understand. A simplified approach with screen icons is used to represent universal and quick identifications. Text fields provide complete descriptions of instructions, faults, or other communications in order to reduce the operator's learning curve to a minimum.

G**OMACO's operating system is designed for the world market** with the multi-language feature. This control system features the ability to operate in English and other languages of the operator's choice. It also offers the choice of metric or imperial measurements. The graphics, combined with your native language, make it easy to understand and easy to identify the target function.

Even faster troubleshooting is possible because the operating system gives you a full explanation of the problem. Advanced system diagnostics on the operating system automatically pinpoint and identify electrical circuit opens, shorts, and fault codes to aid in troubleshooting. A bright yellow LED light alerts the operator, and the operating system describes the fault with a full explanation and recommended action.

Red LED display is featured... This provides a user-friendly operation and high visibility for monitoring deviation meters.

Cruise control to maintain constant, maximum production... GOMACO's exlcusive opearting system on the 9000 has the GOMACO Trimmer Load Control (TLC) feature for optimum performance and power to the trimmerhead. It will increase the operating speed to a predetermined level in relationship to the trimmer circuit pressure. The exclusive operating system automatically controls the travel speed through TLC and takes the operator guesswork on "head pressure versus speed" out of the trimming operation.

Behind the scenes programming for conveyors... GOMACO's exclusive operating system is responsible for the electronic-over-hydraulic operation of the two conveyors. Programming in the software dictates the ramp-up and ramp-down of the conveyor speed when the conveyors are activated or switched off. This keeps the material in place on the belts and protects the pumps for longer life. The transfer and rear conveyors' direction and speed are easily controlled through the exclusive operating system's directional switch and speed dial. The direction and speed of the trimmer and augers on the placer are also controlled by the exclusive operating system.

Trims grade to profile... The slope transition system is available for transitioning in and out of curves, and provides automatic and smooth correction for grade elevation and steering. No stringline adjustment is needed.

GOMACO's exclusive operating system makes steering control safe and simple... The exclusive operating system makes it possible for the two tracks to steer in perfect proportion by coordinating the oil flow for manual steering with the dial, automatic steering with stringline, or interfaced with 3D control. The exclusive operating system also coordinates the flow for safe counter-rotation of the track system.

Cost savings on hydraulic filters... The exclusive operating system monitors all of the hydraulic filters. A warning indication light on the controller alerts the operator to check the diagnostics display when a filter needs attention. The display indicates which of the eight circuit filters requires maintenance, and you only need to replace the filter that has been diagnosed with a problem. The early filter-diagnostics warning provides an alert for cost-efficient preventive maintenance and could eliminate costly hydraulic problems down the road.

Flow requirements are automatic when interchanging or upgrading trimmerheads... GOMACO 's exclusive operating system recognizes what trimmerhead drive system is plugged into it and automatically sets the required flow to the drive motor.


FT-059904#14A


FT-059904#5-5A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Sidemounted, Sectional Trimmerhead Is Designed For Shoulder Work

- The 9000 travels on the existing roadway and the sidemounted trimmer eliminates the problems of restricted side clearance, obstacles along the shoulder, and lack of offset or available track path outside the shoulder.
- Capable of trimming off either side of machine.
- Hydraulically controlled, sidemounted, sectional trimmerhead designed for shoulder work.
- Up to 6 ft. (1.83 m) sideshifting capabilities.
- 48 in. (1219 mm) diameter trimming wheel.
- Up to 16 in. (406 mm) cutting depth.
- Sectional trimmerhead allows width changes in 12 in. (305 mm), 18 in. (457 mm) and 24 in. (610 mm) increments.
- Single trimmerhead drive system for the 9000 with trimming widths from 24 in. (610 mm) to 60 in. (1524 mm).
- Pressure-compensated sideplates.
- Existing machine hydraulics run the drive system.
- Cross-conveyor for delivery of trimmed material from trimmerhead to center-mounted transfer conveyor.
- The transfer conveyor can hydraulically shift forward for operation and pull back to allow the trimmerhead to sideshift for transport.
- The rear conveyor is used to place the trimmed material into haul units or into windrows.
- Transport width is 12 ft. (3.66 m) with the shoulder trimmer mounted to the 9000.

Versatility with Sonar, Quick-Hitch, Pick-Up Arms, and Rolling Grade Ski


FT-129002#2A-3

A digital tracking sonar sensing system is available for the 9000 trimmer. This system is ideal for second pass trimming operations. **Grade referencing is achieved** as the sonar sensor bounces a sound wave off an existing slab or grade. No stringline setup is needed, and this **saves time**, which means **more profit** for the contractor.


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A **quick-hitch** locks the dump truck to the 9000 placer and with the truck in neutral, the **9000 will easily push** the truck while it is discharging the concrete into the receiving hopper. The **receiving hopper, with a capacity of 1.6 cu. yd. (1.2 cu. m)**, is equipped with a split flighting hydraulic 12 in. (305 mm) diameter auger that carries concrete from both sides to the center and onto the transfer conveyor.

Grade sensoring with GOMACO's rolling grade ski is standard for the 9000. The versatile grade ski includes two rubber-tired casters which follow the existing grade or surface. The grade ski uses a standard sensor wand.


FT-059901#11A-12


EG-098908#4A

Ease in loading the trimmerhead or receiving hopper onto a trailer for transport or positioning either of these when mounting on the 9000 is achieved with the optional **hydraulic pick-up arms at the front of the frame.** The pick-up arms can lift the standard trimmerheads to a maximum height of 5 ft. 8 in. (1.73 m).

9000 TRIMMER/PLACER SPECIFICATIONS

ENGINE (emission-controlled)

Type: Turbocharged CAT C11 diesel. (air-to-air after-cooled, four stroke)
Power: 385 hp (287.2 kW) @ 1850 rpm.

SERVICE CAPACITIES

Fuel reservoir: 138 gal. (522.4 L).
Hydraulic oil reservoir: 163 gal. (617 L).

HYDRAULIC SYSTEM

Pumps: Two single-stage hydrostatic pumps provide 82 gpm (310 Lpm) @ 2200 rpm for travel. One single-stage hydrostatic pump provides 100 gpm (378.5 Lpm) @ 2200 rpm for trimmer. Two single-stage hydrostatic pumps provide 50 gpm (189.3 Lpm) for conveyors.
One pressure-compensated control circuit pump provides 25 gpm (94.6 Lpm) @ 2200 rpm.
Hydraulic oil cooling: One cooler to cool track and trimmer circuit oil.
Filtration: One 7 micron main return filter, six 7 micron charge pressure filters for each track pump and auger/trimmer pump, one 7 micron control circuit filter and two 100 mesh magnetic sump strainers. Filter restriction is monitored electronically through the exclusive operating system.

AUTOMATIC CONTROL SYSTEM

Type: Electronic-over-hydraulic.
Controls: GOMACO's exclusive operating system.
Remote control: Remote control handset included for operator convenience.
Dual grade control: Dual grade control for sensoring stringline on both sides of machine simultaneously.
Trimmer control: Controls direction and speed for trimming accuracy and safety.
Transfer and rear conveyor control: Controls direction and speed for placement of material.
Slope transition system: Software for slope transition is available and features automatic correction for grade elevation, automatic correction for steering, and eliminates the need for stringline adjustment.
Lighting: Light system for night operation.

TRACK SYSTEM

Type: Two hydrostatic powered, enclosed, planetary gear-driven crawler tracks.
Track length: 11 ft. 11 in. (3.63 m). Length from center-to-center of sprockets, 9 ft. 6 in. (2.9 m).
Track pad width: 13.78 in. (350 mm).
Gearbox reduction: 125.66:1.
Track speed: Variable up to 115 fpm (35 mpm).
Ground pressure: 16 psi, based on 53,000 lb. (24,040.8 kg) machine with weight evenly distributed.

GRADE SKI

Rolling grade ski for matching previously trimmed grade.

TRIMMERHEADS (for trimmer only)

Widths: 10 ft. 8 in. (3.25 m); 12 ft. 8 in. (3.86 m); and 14 ft. 8 in. (4.47 m).
Sectional trimmer shroud: Standard.
Trimmer wheel diameter: 32 in. (813 mm).
All trimmerheads include material loading deflectors, replaceable carbide-tip cutter teeth and single internally mounted hydraulic motor.
Number of teeth on standard trimmerheads:
10 ft. 8 in. - 95 teeth;
12 ft. 8 in. - 107 teeth;
14 ft. 8 in. - 119 teeth.

RECEIVING HOPPER (for placer only)

Overall width: 11 ft. 11.25 in. (3.64 m).
Receiving width: 10 ft. 6.5 in. (3.21 m).
Capacity: 1.47 cu. yd. (1.1 cu. m).
Truck latching system: Quick hitch.
Auger diameter: 12 in. (305 mm).

RECLAIMING SYSTEM

Front Transfer Conveyor
Length with trimmer: 12 ft. (3.66 m).
Length with placer: 16 ft. (4.88 m).
Width: 30 in. (762 mm).
Type: Hydrostatic.
Belt speed: 512 fpm (156.1 mpm).
Rear Conveyor
Length: 25 ft. (7.62 m).
Width: 30 in. (762 mm).
Type: Hydrostatic.
Belt speed: 560 fpm (170.7 mpm).
Hydraulic swing: 120 degrees.
Hydraulic elevation: 13 ft. 4.81 in. (4.08 m).
Conveyor lift winches: Two 1500 lb. (680.4 kg) removable conveyor lift winches mounted at the rear of the machine frame.

PICK-UP ARMS (optional)

Hydraulic pick-up arms located at the front of the 9000. Maximum lift of 4 ft. 10.5 in. (1.49 m).

DIMENSIONS

Shipping
Width: 9 ft. 7 in. (2.92 m).
Height: 10 ft. 1.75 in. (3.09 m), with stack removed.
Length: 18 ft. 5.17 in. (5.62 m).
Operational
Width: Variable, 12 ft. 7.38 in. (3.85 m), 14 ft. 7.38 in. (4.45 m), and 16 ft. 7.38 in. (5.06 m), depending on size of trimmerhead.
Height: 13 ft. 4.81 in. (4.08 m).
Length: 44 ft. 11.66 in. (13.71 m) with rear conveyor in lowered position.

WEIGHTS

Prime mover with transfer conveyor: 38,000 lbs. (17,236.8 kg).
Rear conveyor assembly: 3870 lbs. (1755.4 kg).
Standard trimmerheads:
10 ft. 8 in. (3.25 m), 11,895 lbs. (5395.6 kg).
12 ft. 8 in. (3.86 m), 12,403 lbs. (5626 kg).
14 ft. 8 in. (4.47 m), 12,278 lbs. (5569.3 kg).
Receiving hopper: 7288 lbs. (3305.8 kg)

OPTIONS

Additional trimmerheads and conversion kits.
Extended sensor boom assembly for reaching stringlines 40 ft. (12.19 m) apart.
High-pressure water system includes trigger gun control and adjustable pressure loader for up to 2000 psi.
Pressure-compensated sideplates for variable trimming depths.
Transfer conveyor conversion to convert transfer conveyor from placer to trimmer system.
Concrete placer system, includes receiving hopper, 3 ft. (.91 m) transfer conveyor extension and vulcanized belt.
Complete transfer conveyor for concrete placer system.
Sonar sensing system eliminates stringline setup.
Hydraulic pick-up arms.
Pick-up head attachment is ideal for use in asphalt reclaiming operations by picking up milled asphalt and conveying the material into trucks.
Placing hopper designed for placement of aggregate and other materials.
Asphalt placing hopper with heat-resistant belts.
3D package for stringless control.

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

You can always find us at http://www.gomaco.com/9000

GOMACO®

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European Headquarters
GOMACO International Ltd. is located in Witney, England.

Sales offices are located in Singapore, Bolivia, Australia, China and India. GOMACO has a worldwide distributor network for sales and service.

Cover Photos: Top photo, FT-069901#18A-19; Bottom photo, HW-030103-D8

ASR American Systems Registrar

GOMACO Corporation's Quality Management System Is ISO 9001:2008 Certified By The American Systems Registrar.

ANAB

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