CMI
ROADBUILDING INC.

COMPACTION

REXPACTOR™

SOIL COMPACTORS

REXPACTOR™

THE INDUSTRY'S ONLY FULL WIDTH SOIL COMPACTOR

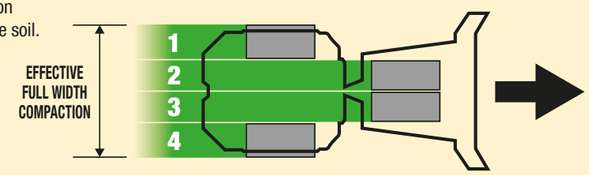
The CMI RexPactor™ achieves full width compaction utilising all four wheel paths in a single pass. All other soil compactors based on old fashioned style tractors leave an uncompacted center-line swathe between the two wheel paths resulting in increased passes, fuel consumption & reduced machine life, while also making them unusable in confined areas such as trench pipelines.

Whether building roads or pipelines, as part of the world's energy and transportation infrastructure, maximizing material density at the lowest possible cost is a common goal. CMI's line of compaction equipment developed over fifty years of varied field applications, possess the necessary attributes to quickly, effectively and affordably deliver superior results.

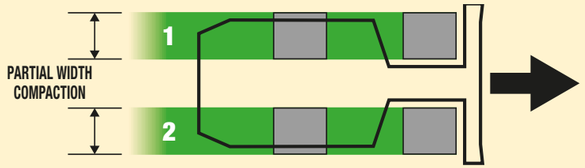
FULL WIDTH COMPACTION

In a typical operation, old fashioned style tractors, frequently plagued by the uncompacted 'windrow' of materials between the only two wheel paths, risk high centering of the machine, losing traction and getting bogged down in the uncompacted soil. This presents a significant operational limit to the machine. To address this limitation, makers of the old-style tractors fit the machine with wider high flotation wheels attempting to strike a balance between the reduction of compaction force produced by wider wheels and the risk of getting stuck in the soil.

The RexPactor's close, inset front wheels compacts the center line swathe of soil, greatly reducing the risk of getting high centered. This full width compaction, combined with high distributed load (measured in pounds per linear inch or PLI), means that the RexPactor achieves the most efficient compaction in a single pass of any soil compactor.



CMI configuration



Old-style tractors

REXPACTOR™

HIGHEST COMPACTION FORCES IN THE INDUSTRY

CMI compaction equipment offers purpose built machines designed to provide enhanced durability by maximizing sub-surface material density in the most cost-effective manner. Unique wheels and geometric configuration enables CMI compaction equipment to deliver unmatched final densities faster than any other method used today.

COMPACTION FORCE

Compaction is as much about how a machine applies force – Distributed Load measured in pounds per linear inch or PLI (N/m) – as how much the machine weighs.

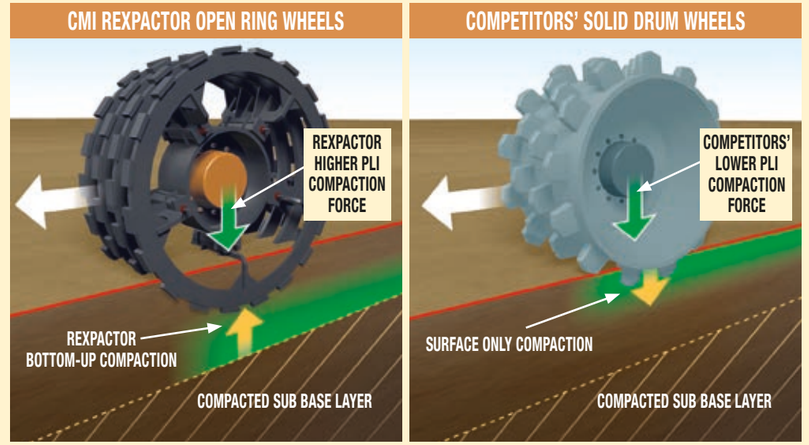
PLI is calculated by dividing total machine mass in pounds (Newtons) by the combined effective width of all four wheels in a single pass, in inches (meters). Generally speaking, the higher the PLI (N/m), the more material will be compacted in the same space, resulting in a greater density and improved productivity.

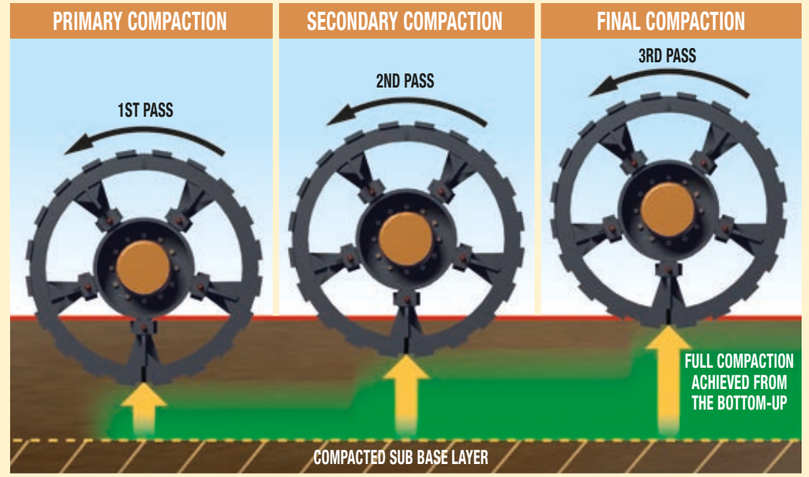
MODEL	DISTRIBUTED LOAD (PLI)
SP-3	463 lb/in (81,156 N/m)
SP-5	521 lb/in (91,212 N/m)
SP-8	570 lb/in (99,877 N/m)

REXPACTOR™ OPEN RING WHEELS

The CMI RexPactor, which achieves very high and uniform densities through 'bottom-up' compaction, is fitted with unique 'open-ring' high strength fabricated steel wheels. Bottom-up compaction is achieved by forcing the wheel rings to sink into the soil under the machine's static weight.

Forcing the compaction pad-foot deeply into the soil lift to the point of refusal, avoids the false refusal or flotation that would otherwise occur with other drum style or closed-ring wheel designs.





The RexPactor front wheels compact the center line of the utility ditch allowing this machine to backfill in confined areas where no other soil compactor can.

REXPACTOR™ SERIES

Crucial to the stability and longevity of roadways, pipelines and other soil embankments is the proper preparation of the subgrade level of the structure.

CMI RexPactor is a trusted and important tool for civil and energy infrastructure builders around the world to ensure the high performance of these structures.

INTEGRATED ROLLOVER PROTECTION SYSTEM
New ergonomically designed cab has the operator in mind with a high back suspension seat, joystick control of steering and blade functions and clear instrumentation.

HIGH MOUNTED HYDRAULICS
Steering and blade cylinders and associated hoses are mounted high on the machine providing protection from debris.

POWERFUL LIGHTS
New state of the art LED lights positioned front and rear for excellent working visibility.

EASY ACCESS TILTING HOOD
Gas spring assisted engine enclosure with vandal-proof locking protection, allows easy access to all service points including the cooling package.

ROBUST BLADE & LIFT ARMS
Designed with reversible cutting edge and has the ability to be ordered with variable widths and semi U-configuration bolt-on extensions. Heat treated moldboard. Optional tilt blade.

HEAVY DUTY DRIVE TRAIN
All new redesigned drive train with industry leading draw bar pull and high torque for increased dozing capabilities. Three speed forward and three reverse. Oil cooled modular components, planetary drives, and large diameter torque converter.

EXCLUSIVE OPEN WHEEL DESIGN
The industry's only open wheel design results in the deepest lifts, better densities, and ability to achieve quicker and higher densities with less effort than any competitor. New urethane isolator blocks require zero maintenance and provide a smoother ride.

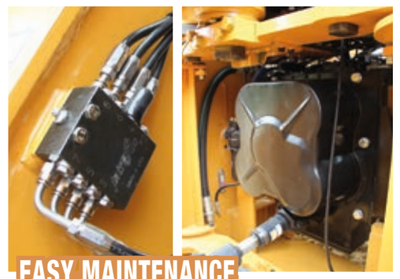
EFFICIENT COOLING SYSTEM
High altitude tested. High ambient cooling designed for operation in a wide range of climates worldwide.

Features

HIGH VISIBILITY CAB
All-around high visibility enhanced with the Masterview safety camera system showing 360º wrap-around view of the machine. Cab is air conditioned, sound suppressed and isolated mounts reduce vibration for operator comfort. AM/FM Radio fitted as standard.

SIDE FACING OPERATOR SEAT
Industry's only side facing seat with high back, lumbar support, six way adjustment and suspension mounted. Integrated joystick controller for ergonomic steering and blade operation when moving in either direction.

POWERFUL POWERPLANT
Fully EPA compliant Cummins Tier 4 Final / EU Stage 5 powerpack with real-time monitoring system (Tier 3 options available). Easy to use touch point monitors and alerts for engine oil pressure, charging system, fuel, hydraulic oil levels, transmission and steering functions.



EASY MAINTENANCE
Completely accessible from ground level for easy maintenance of engine oil fill and check, sight gauges, grease fittings, air box, etc. U-joints are lifetime lubricated.

HEAVY DUTY WHEELS
Strategic pad placement for maximum penetration. Pattern designed to compact soil productively with minimum effort.

SELF CLEANING WHEELS
All wheels are fender covered and include integral striker and raker bars to prevent material buildup during operation. Optional equipment can include ARM - abrasion resistant material on raker bars and ground engaging pads.

REXPACTOR™ TECHNICAL SPECIFICATIONS

	SP-3	SP-5	SP-8
ENGINE	Cummins QSB 6.7 Tier 4 Final Diesel	Cummins QSB 6.7 Tier 4 Final Diesel	Cummins QSL 9 Tier 4 Final Diesel
POWER OUTPUT	225 hp (168 kW)	300 hp (224 kW)	380 hp (283 kW)
DISTRIBUTED LOAD (PLI)	463 lb/in (81,156 N/m)	521 lb/in (91,212 N/m)	570 lb/in (99,877 N/m)
COMPACTION WIDTH	9 ft 9 in (2972 mm)	10 ft 1 in (3073 mm)	12 ft (3658 mm)
INSIDE TURNING RADIUS	14 ft 4 in (4369 mm)	13 ft 2 in (4013 mm)	13 ft 6 in (4110 mm)
OUTSIDE TURNING RADIUS	24 ft 6 in (7468 mm)	23 ft 1 in (7036 mm)	25 ft 6 in (7470 mm)
BLADE RAISED ABOVE GRADE	34 in (864 mm)	43 in (1092 mm)	40 in (1016 mm)
BLADE LOWERED BELOW GRADE	6 in (152 mm)	6 in (152 mm)	6 in (152 mm)
GROUND CLEARANCE	18¾ in (476 mm)	20 in (508 mm)	20 in (508 mm)
WHEEL WIDTH FRONT / REAR	17 in (432 mm) / 24 in (610 mm)	20 in (508 mm) / 28 in (711 mm)	28 in (711 mm) / 36 in (914 mm)
NUMBER OF WHEEL RINGS FRONT / REAR	3 / 4	3 / 4	4 / 5
PAD WIDTH	3 in (76 mm)	4 in (102 mm)	4 in (102 mm)
WHEEL DIAMETER	60 in (1524 mm)	74 in (1880 mm)	74 in (1880 mm)
DIMENSIONS & WEIGHTS			
SHIPPING HEIGHT	12 ft (3602 mm)	12 ft 10½ in (3924 mm)	12 ft 10½ in (3924 mm)
SHIPPING WIDTH OVER GUARDRAILS	10 ft 9 in (3277 mm)	10 ft 11 in (3327 mm)	12 ft (3658 mm)
SHIPPING LENGTH	21 ft 4½ in (6514 mm)	24 ft 6 in (7468 mm)	27 ft 2 in (8280 mm)
SHIPPING WEIGHT	38,000 lb (17235 kg)	50,000 lb (22680 kg)	73000 lbs (33112 kg)

STANDARD EQUIPMENT

- Masterview 360° all-around safety camera system
- High-intensity LED lights (forward and rearward)
- Air conditioning
- AM/FM Radio

OPTIONAL EQUIPMENT

- Open ROPS operator's station
- Extended service warranty
- Removable hand rails
- Tilt blade
- CMI telematics
- Vandal guards
- ARM on raker bars and ground engaging pads
- ARM cutting edges and bolt-on extensions

BENEFITS

- Unique wheel arrangement resulting in the industry's only full width soil compactor
- Exclusive open ring design; self cleaning wheels compact from the bottom up
- Side facing seat for operator comfort and excellent visibility in forwards or reverse
- Purpose built high speed soil and embankment compactor for infrastructure projects

DEALER STAMP

REXPACTOR™

SOIL COMPACTORS SINCE 1968

All reasonable steps have been taken to ensure the accuracy of this publication. However, due to our policy of continual product development, CMI Roadbuilding Inc. reserve the right to change details without prior notice. All machines supplied in accordance with our standard conditions. Illustrations and photos may show optional equipment. All rights reserved. Copyright © CMI Roadbuilding Inc. 2023.

CMI ROADBUILDING INC. THE PARKWAY, 1300 S MERIDIAN AVE., OKLAHOMA CITY, OK 73108, U.S.A. **T:** 1-800-994-1736 **E:** sales@cmi-roadbuilding.com **WWW.CMI-ROADBUILDING.COM**