

ASTECC

765HD

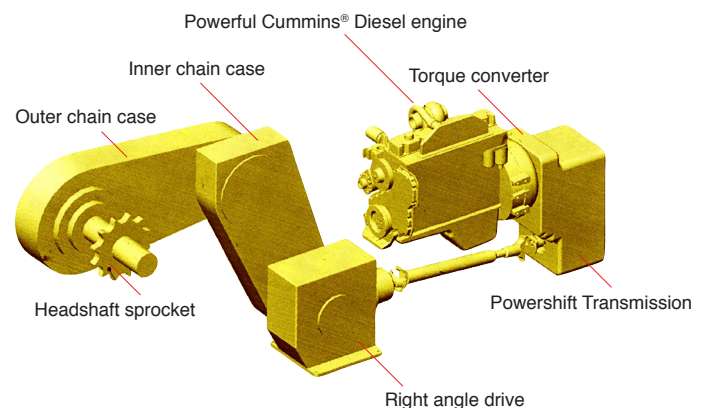
Mechanical Drive Chain Trencher



- 250 hp powertrain
- Compact size
- Rugged construction
- Mechanical drive provides stronger components, increased power

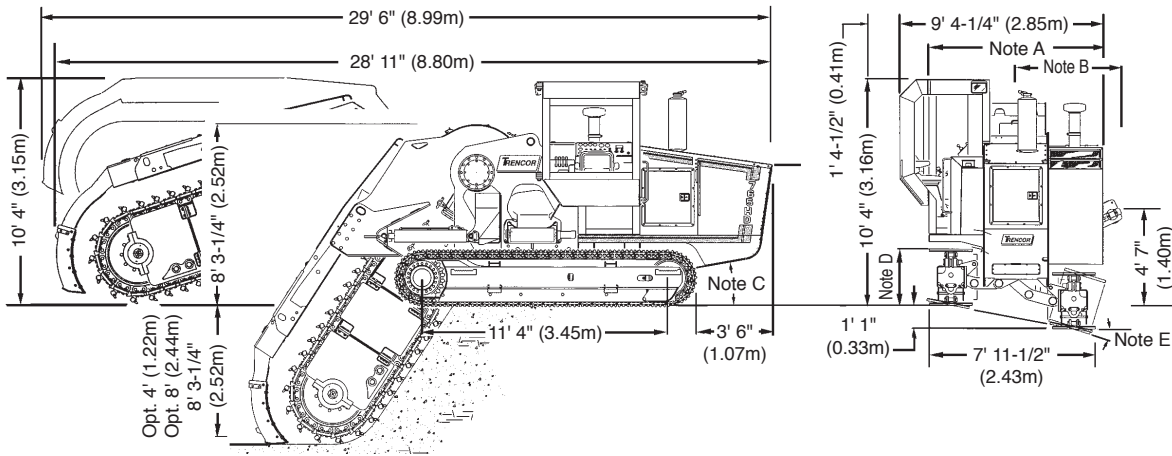
The 765HD's mechanical power train with torque converter provides power to the chain as digging conditions dictate. Multiple chain speeds deliver full horsepower in varying conditions. The head shaft chain drives are fully enclosed and run in an oil bath for much longer life. The unibody tractor frame weldment is stronger than bolted plate designs and can be equipped with a variety of chain widths and cutting depths.

The 765HD has a computer controlled transmission to reduce or prevent shock loading on components such as the digging chain. Its undercarriage tilts a total of 17° to keep the digging chain vertical while the machine is working on a slope.



The mechanical chain drive has proven to be much more rugged and trouble free than hydrostatic designs

765HD Specifications



- Notes
 A: 8' 0" (2.44m) shipping width
 B: 4' 10" (1.47m)
 C: 10°
 D: 2' 7" (0.79m)
 E: 17°

POWER UNIT

Cummins® model 6CTA8.3 turbo charged and after-cooled diesel engine, rated 250 hp (186.5 kW) @ 2,200 rpm. Two-stage air cleaner assembly. Remote mounted radiators and coolers with hydraulically driven fans.

FUEL CAPACITY

130 gallon (492 L) capacity. Twin fuel filters and cab mounted fuel gauge. Approx. 12 gallons (45 L) per hour fuel consumption at maximum load.

HYDRAULIC RESERVOIR

80 gallon (303 L) capacity.

CONVEYOR

Arc type, dual motor, hydraulically driven 24" (61 cm) wide center-guided belt, infinitely variable in speeds from 0 to 1,000 fpm (5 m/s) in either direction. Hydraulically transversely shiftable for precise spoil placement selection. Optional 24" (61 cm) extension available.

DIGGING CHAIN DRIVE ASSEMBLY

Mechanically driven through a computer-controlled multispeed power shift transmission with 3 - element torque converter, providing for six digging chain speeds; and fully enclosed and oil bath lubricated roller chain driving one side of the head shaft. Chain speeds: first range-181 fpm (55 m/min); 2nd range-255 fpm (77 m/min); 3rd range-355 fpm (108 m/min); 4th range-498 fpm (151 m/min); 5th range-722 fpm (220 m/min); 6th range-1010 fpm (308 m/min).

ADDITIONAL STANDARD ITEMS

- Computer controlled transmission
- Bottom Tail Wheel Transition Wear Plates - replaceable abrasive resistant plate for increased boom life.
- Personnel Guard - covering the digging chain above when crumbler assembly not used
- Work lights - (12 volt) installed 2 fore and 2 aft.
- Noise Abatement - noise absorbing material at engine and deflecting panels reduce ambient noise levels.

CRAWLERS

B4 heavy duty components with 23.6" (60 cm) low profile triple grouser shoes, on a long frame for good stability and floatation, providing approximately 8.1 psi (.57 kg/cm²) ground bearing pressure with minimum width and depth digging assembly. Track adjusters are Caterpillar-type with recoil spring for constant tension. Crawler rollers are oil filled and sealed.

OPTIONAL LEVELING SYSTEM

Each track can be independently actuated through 10 degrees or 12" (30.5 cm) at the trackframe. In addition, the tracks are terrain following through an additional 10 degrees in either direction, giving a maximum of 20 degrees total motion at the grouser. The leveling system is automatic with manual override.

CRAWLER DRIVE AND STEERING

Dual speed track motors. Infinitely variable hydrostatic/mechanical system for speeds from 0 to 2 mph (3.2 km/h). Separate hydrostatic transmission for each track with electric over hydraulic steering controls and heavy-duty planetary gearbox direct coupled to track drive sprocket. Tracks may be counter-rotated for excellent maneuverability. An automatic parking brake is provided.

OPERATOR'S STATION

Operator is side positioned on right hand side to provide good visibility both fore and aft. All controls and operation gauges are control panel mounted for safe, positive and efficient operation. Diagnostic ports to check all hydraulic functions are conveniently grouped in one location.

DIGGING ASSEMBLY

Digging assembly equipped with 36" (92 cm) diameter tailwheel; replaceable abrasion resistant wear plates; heavy-duty roller type digging chains with hydraulic-adjuster to keep proper tension; cutter plates of T-1 steel with cup cutters or ASTEC heavy-duty tooth blocks and replaceable carbide-tipped teeth. Standard digging chain is heavy-duty 4.5" pitch, 310,000 lb. (140,000 kg) tensile strength roller chain for trench widths from 10" to 18" (25 - 46cm). One double strand of 4.5" pitch roller chain, rated at 590,000 lb (267,624 kg) is available for trench widths from 14" to 24" (36 - 61cm). Two single strands of 4.5" pitch roller chain are used for trench widths from 24" to 30" (61 - 76cm).

BOOM HOIST

Digging boom is elevated by double acting dual hydraulic cylinders mounted to the substructure. The hoist provides positive down-crowd, and optimum tailwheel clearance.

DIGGING CAPACITY

Trench depths: 4', 6', or 8' (1.22 m, 1.83 m, or 2.44 m).
 Trench widths: 12" - 30" (30.5 - 76 cm) in 2" (5 cm) increments.

OPTIONAL AND EXTRA EQUIPMENT

- Automatic track leveling
- Tilt & level tracks
- Laser interface
- Operator's cab - air conditioned and pressurized
- Berm scrapers-for both sides of trench (hydraulic)
- Retractable crumb shoe
- Power down crumb shoe
- Edge drain package
- Single or double grouser pads
- 29.5" pads (fixed track only)
- Muffler guard
- 10" (25 cm) narrow cut
- Truck loading conveyor
- CE package

APPROXIMATE WEIGHT

55,000 - 65,000 lbs. (24,970 - 29,424 kg)



Due to our continuing product improvement, specifications are subject to change without notice.
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