

TRENCOR MODEL 1860 HD CHAIN TRENCHER

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TRENCHLESS
UTILITY EQUIPMENT INC.



- **World's Largest**
- **Digs 35' deep and 96" wide in rock**
- **1500 hp (1120kW)**



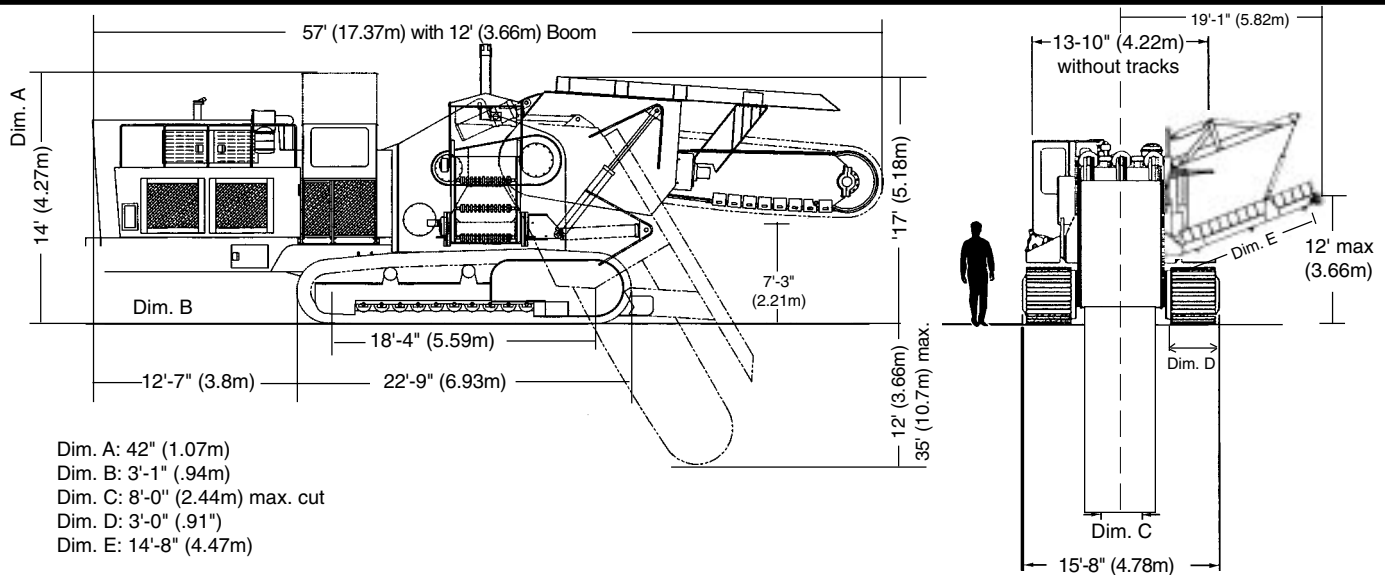
The 1860HD is specifically designed to provide contractors with additional power and strength for unusually deep and wide cuts through rock and tough soils.

Weighing 185 tons, the 1860HD uses one 1200 hp (895kW) engine for the digging chain and one 300 hp (224 kW) engine to power the tracks, conveyors and auxiliary functions. The 1860HD features a technologically advanced digging assembly drive with four digging speeds.

An optional RoadMiner[®] attachment is available to replace the digging assembly, providing a 17' (5.2m) wide cut up to 6' (1.8m) deep.

TRENCOR[®]
INC.
an Astec company

TRENCOR 1860HD SPECIFICATIONS



- Dim. A: 42" (1.07m)
- Dim. B: 3'-1" (.94m)
- Dim. C: 8'-0" (2.44m) max. cut
- Dim. D: 3'-0" (.91")
- Dim. E: 14'-8" (4.47m)

ENGINES

Caterpillar® model 3512 diesel engine, rated 1200hp (895kW) @ 1800 rpm is used to power the digging chain only. A Caterpillar® model 3306B engine, rated at 300 hp (224 kW) @ 2100 rpm is used for all other functions. Both engines are equipped with two stage air cleaner systems, 24-volt electric starters, cooling system for 120 degree (55C) ambient temperature operation, and mufflers.

FUEL CAPACITY

Dual tanks, 820 gallon (3100 L) total capacity. Fuel consumption at maximum power is approximately 72 gallons (270 L) per hour.

HYDRAULIC RESERVOIR

345 gallon (1305 L) capacity.

CONVEYOR SYSTEM

A straight, side-shiftable cross conveyor ejects material onto an elevatable extension conveyor. Both conveyors use 48" (1.22 m) wide belts and are hydrostatically driven allowing infinite speed adjustment and direction. The extension conveyor is adaptable to either side of the machine.

DIGGING ASSEMBLY DRIVE

An extra heavy-duty headshaft is driven from both sides by a two-stage roller chain arrangement, a heavy-duty differential and a four speed power shift transmission with an integral three element torque converter. All shafts, chains and bearings are designed to withstand the full output of the torque converter and transmission in the stall condition. All drive chains are fully enclosed and oil bath lubricated. Chain tension in each chaincase is adjustable by eccentric hubs.

DIGGING CHAIN

D-8 Caterpillar® track-type digging chains. Boom is furnished with grease actuated hydro-adjusters to maintain proper chain adjustment.

DIGGING CHAIN CARRIER ROLLERS

Top of boom is equipped with carrier rollers to reduce chain drag and assist chain in shedding excavated material.

COUNTERWEIGHT

Hydraulically extendable counterweight is provided for increased stability when moving the machine with the boom raised.

CRAWLER

Extra heavy-duty Caterpillar® type components mounted on special heavy-duty long frames which are detachable for transport. Crawler rollers are oil-filled and sealed. Track adjuster is a Caterpillar® grease cylinder-type with double recoil springs.

CRAWLER DRIVE AND STEERING

Hydrostatic / Mechanical system consisting of a two speed hydraulic motor driving a planetary gearbox and a single stage roller chain. Crawl speed is infinitely adjustable from 0 to .75 mph (1.2 km/h). Tracks are independently, electronically controlled for speed, direction, and steering. Fail-safe brakes provided for parking and emergency use. The roller chains are fully enclosed and oil bath lubricated.

CUTTER BAR PLATES

Rectangular, high-alloy steel plates with Trenchor® heavy-duty welded tooth holders. These plates accept conical carbide teeth for rock or the patented Trenchor® spade teeth for dirt. Plates are sized according to the cut required and bolted to the digging chains.

TAILWHEELS

48" (1.22 m) diameter wheels with large bearings and heavy-duty seals.

WEAR PLATES

Boom equipped with replaceable, abrasive-resistant wear plates on top and bottom.

OPERATOR'S CAB

Fully enclosed with all machine controls within easy reach of operator. Elevates hydraulically 42" (1.07 m) for increased operator visibility. Cab heat and air conditioner is standard.

BOOM HOIST

Five, double-acting hydraulic cylinders provide boom hoist and positive down crowd. Three of the cylinders are mounted on top of the main-frame and the other two are mounted at the sides of the boom hood

DIGGING CAPACITY

Boom lengths from 10 through 35 ft (3.05 - 10.7 m) with widths from 36 through 96 inches (.91 - 2.44 m). Width and depth maximums are subject to approval.

SAFETY SYSTEMS

A switch panel is provided on the side of the machine opposite the operator so an observer can either signal the operator or shut the machine down in an emergency situation. Any time there is a loss of hydraulic pressure in the traction system, the brakes automatically engage. All traction and digging chain controls must be in neutral before the engines can be started.

APPROXIMATE WEIGHT

400,000 - 450,000 lbs. (180,000 - 200,000 kg). Machine is designed and constructed with modular sections for ease of transport or shipment. No module exceeds 50 tons. Shipping weights of each module are available upon request.



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

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