

**T765**

**MECHANICAL DRIVE  
CHAIN TRENCHER**

**TRENCOR**  
*by ASTEC*



**BREAKTHROUGH SOLUTIONS**



# T765 Mechanical Drive Chain Trencher

## More than 60 years of experience

The Trencor line of high-performance rock trenchers, surface miners, Road Miners™, and related equipment rounds out Astec Underground's broad lineup of underground construction solutions. Trencor has more than 60 years of experience in the specialized trenching industry, serving the construction and oil and gas markets. The Trencor line-up includes seven different trencher models that can be configured to meet custom applications.

Trencor products are manufactured at the company's 360,000 square-foot facility in Loudon, Tenn., along with the Astec utility trenchers and horizontal drills.

The seeds of the company now known as Trencor were sown in 1945 in Alhambra, Calif., with the establishment of the Jiffy Excavator Tooth Company, which later became known as Dallas Jetco. In 1981, Trencher Corporation of America (Trencor) was established in Grand Prairie, Tex. The company manufactured chain type trenchers, while Dallas Jetco specialized in wheel trenchers. Trencor purchased Dallas Jetco in 1984 and changed the name of the combined operation to Trencor Jetco. Four years later, Astec Industries, Inc., acquired the thriving business, and provided additional resources for capital investment and growth. The company moved to Grapevine, Tex., in 1994, and shortened its name to Trencor. Manufacturing operations moved to Loudon, Tennessee in 2003.

Trencor machines are supported through a dedicated parts and service center, available 24-hours a day to help customers minimize downtime and get needed repair parts.

Visit [www.astecunderground.com](http://www.astecunderground.com) to learn about the full line of Astec Underground products or to contact the company for more information.

### CHOOSE DEPTH AND WIDTH

BOOM AND CHAIN OPTIONS PROVIDE FLEXIBILITY IN TRENCHING DEPTH — 4 TO 8 FEET — AND WIDTH — 12 TO 30 INCHES.



### RELIABLE TRENCHER DRIVE SYSTEM

PROVEN CHAIN-DRIVEN HEAD SHAFT WITH CHAIN DRIVES FULLY ENCLOSED IN AN OIL BATH FOR LONGER LIFE. COSTS MUCH LESS THAN HYDRAULIC PUMPS AND MOTORS. MECHANICAL POWERTRAIN WITH TORQUE CONVERTER PROVIDES POWER TO THE CHAIN AS CONDITIONS DICTATE. MULTIPLE CHAIN SPEEDS DELIVER FULL HORSEPOWER IN VARYING CONDITIONS.

### SAFETY FIRST

LOCATION OF CAB PROVIDES OPERATOR PROTECTION FROM HAZARDS FROM TRENCH AND KEEPS HIM OR HER AWAY FROM CONVEYOR OR TRENCHER BOOM. CAB MEETS ALL ISO CERTIFICATIONS FOR ROLLOVER AND CRUSH TESTS.



**CE CERTIFIED**  
CE-CERTIFIED FOR USE IN COUNTRIES OF THE EUROPEAN UNION.



### RUGGED FRAME CONSTRUCTION

UNIBODY TRACTOR FRAME IS STRONGER THAN TUBE AND BOLT-ON SHEET METAL DESIGNS. PLENTY OF POWER IN A COMPACT PACKAGE TO WORK IN TIGHT JOB CONDITIONS. UNDERCARRIAGE TILTS A TOTAL OF 17 DEGREES TO KEEP THE DIGGING CHAIN VERTICAL WHILE THE MACHINE WORKS ON A SLOPE.

### SEALED AND LUBRICATED

SEALED AND LUBRICATED TRACK DRIVE PROVIDES EXTENDED LIFE AND LOW MAINTENANCE.



### MORE POWER

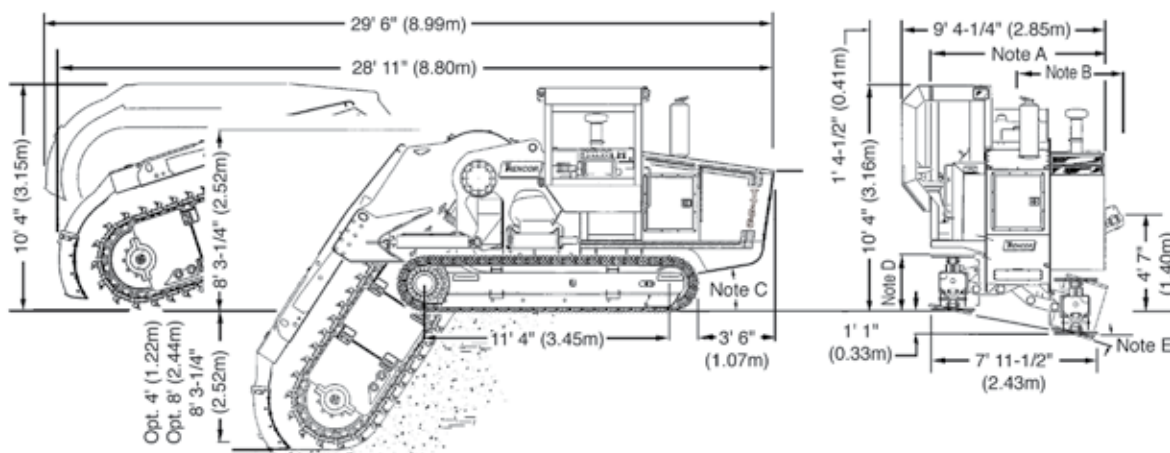
CATERPILLAR C-7 ACERT TIER 3 STAGE IIIA 250-HORSE-POWER TURBOCHARGED DIESEL ENGINE, MEETING ALL EMISSIONS STANDARDS, TRANSMITS POWER TO THE DIGGING CHAIN THROUGH A PROVEN POWERSHIFT TRANSMISSION WITH 6-SPEEDS PLUS REVERSE WHICH ALLOWS MAXIMUM TORQUE IN EACH TRENCHING SPEED.

### LATEST TECHNOLOGY

LOAD CONTROL SYSTEM RAPIDLY ADJUSTS TRENCHER TRACK SPEEDS TO MAINTAIN A CONSTANT ENGINE LOAD TO MAINTAIN DIGGING PERFORMANCE AND REDUCE MACHINE WEAR.



# T765 Mechanical Drive Chain Trencher



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

## ENGINE

- Caterpillar C7 Acert turbocharged diesel, Tier 3 Stage IIIA emissions
- 250 hp (186 Kw) @ 2200 RPM
- 842 ft-lbs (1142 N-m) @ 1400 RPM
- Fuel rate consumption 14 Gal (53L)/hour at full horsepower
- 24-volt DC electrical system
- Cooling system — 125° F ambient (52° C)
- Heavy-duty, 2-stage air cleaner

## FUEL CAPACITY

Dual tanks ..... 130 gal. (492 L)  
 Operation ..... 9 Hours at full horsepower

## HYDRAULIC SYSTEM

Single bolt-on tank ..... 80 gal. (303 L)  
 Crawler drive ..... Close loop piston pumps  
 Conveyor Drive ..... Close loop piston pumps  
 Accessory ..... Open loop

## TRACK DRIVE

Infinitely variable hydrostatic/mechanical  
 Speed ..... 2 mph (3.2 kph)  
 Track control ..... Independent proportional electric over hydraulic  
 Load control ..... Microcontroller with bypass  
 Crawlers ..... Cat D-4 components  
 Grouser ..... 24-inch (610 mm) wide, low-profile triple grousers

## OPERATOR STATION

Fully enclosed air conditioned, heated, and pressurized cab

## DIGGING ASSEMBLY

Heavy-duty mechanical chain drive. Power shift transmission with six trenching speeds and reverse.

Tailwheel .....  
 ..... 36-in. (914 mm) diameter forged — **not plate welded** — ring  
 Trench depth  
 ..... 4- and 6-ft. primaries (1219- and 1829-mm)  
 ..... 2- and 4-ft. extensions (610- and 1220-mm)  
 Trench width  
 ..... 12 to 18 in. (305 to 460mm) with single 4501 chain  
 ..... 14 to 24 in. (356 mm to 610 mm) with single 4502 chain  
 ..... 22 to 30 in. (560 to 762 mm) with double 4501 chain  
 ..... 12 to 18 in. (305 mm to 460 mm) with single D6 chain

## CONVEYOR

Arc type conveyor with hydraulic shift in either direction  
 Belt width ..... 24 in. (610mm)  
 Belt speed ..... 0 to 1,000 fpm (305 mpm)

## ADDITIONAL STANDARD ITEMS

Bottom tail wheel transition wear plates  
 Personnel guard  
 Work lights — 2 fore and 2 aft  
 Noise abatement

## OPTIONAL EQUIPMENT

Automatic laser control for grade	Tilt and level tracks
Automatic laser control for steering	Automatic track leveling
Auxiliary truck loading conveyor	Cold weather package

## APPROXIMATE WEIGHT AND DIMENSIONS

Weight ..... 55,000 - 65,000 lbs. (25,000 - 29,545 Kg)  
 Width ..... 8 ft. (2,440 mm)  
 Height ..... 10 ft. 4 in (3,150 mm)  
 Length with 6-ft. boom ..... 28 ft., 11 in. (8,814 mm)

IMPORTANT: Astec Underground reserves the right to change these specifications without notice and without incurring any obligation relating to such change. This literature has been published for world-wide circulation. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your Astec dealer/distributor will be able to give you details of the products and their specifications available in your area.

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

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