

TF300B Trencher

ASTEC

ENGINE

Manufacturer Briggs & Stratton
Model Vanguard
Type Gasoline
Cylinders 2 (V-twin)
Bore/Stroke 2.97" x 2.76"
(7.5 x 7 cm)
Displacement 38 in³ (627 cc)
Horsepower 18.5 (13.8 kW)
@ 3100 rpm
Max. torque 32 lb-ft (43.3 N·m)
@ 2400 rpm

DRIVELINE

Hydraulic drive with final drives sealed and enclosed in oil. Infinitely variable speed. Direct-drive clutches and multi-disc steering brakes. Two speed ranges, transport and working. Hydraulic fixed displacement pump with variable flow from valve to fixed displacement motor on final drive.

Travel/work speeds

Transport 1.8 mph (2.2 km/h)
Working 0 to 30 ft./min.
(9.1 m/min.)

OPERATOR ENVIRONMENT

Electric start and shut-down
Hand throttle and choke
Single lever forward/reverse
Dual steering and brake levers
Variable speed creep control
Trencher chain clutch lever
Low noise, low vibration engine
Optional backfill blade controls
Operator noise level 86.7 dB

UNDERCARRIAGE

High-flotation tracks available in cleat-type steel or rubber tracks
Track rollers Sealed
Track ground area 730 in²
(4710 cm²)
Ground pressure
w/backfill blade 3.1 psi
w/o backfill blade 2.6 psi

HYDRAULIC SYSTEM

Ground drive pump
@ 3100 rpm 11.3 gpm
(42.7 l/min)
Relief valve setting 2550 psi
(17 580 kPa)
Boom anti-drift valve Standard
Filtration 10 micron spin-on

ELECTRICAL SYSTEM

Battery 12 volts, 340 CCA
Alternator 12 volt, 16 amp
Gauges
Ammeter
Digital tachometer
Digital hourmeter
Low oil shutdown system (engine)
Neutral start safety logic
Seat interlock system

SERVICE CAPACITIES

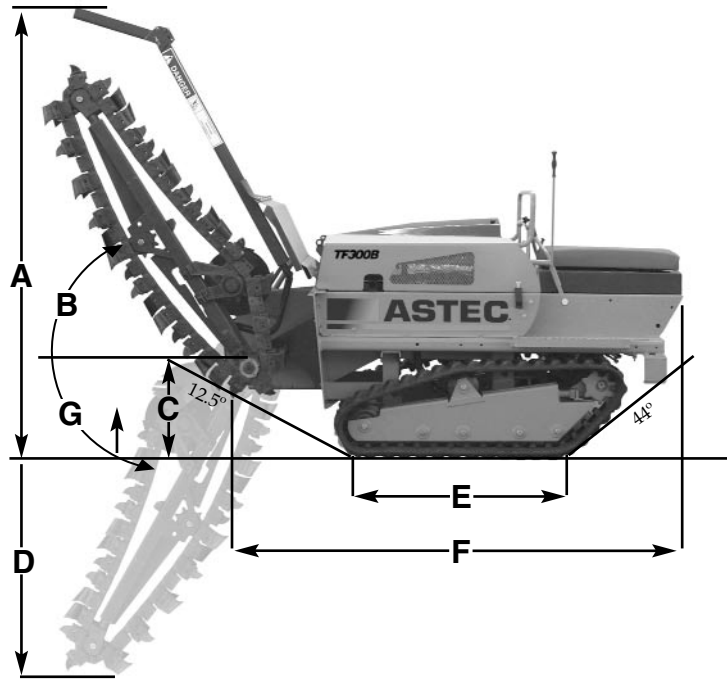
Fuel tank 5.5 gal (20.8 L)
Engine oil
w/ filter change 1.75 qt (1.7 L)
Hydraulic reservoir ... 7.0 gal (26.5 L)
Transmission 1.0 qt (0.95 L)
Satellite gearbox 0.25 qt (0.25 L)

TRENCHER

Boom mounting options
Centerline for (4"-12") cut width
Offset 2" for (14"-16") cut width
Flush digger
Centerline of flush digging attachment to outside edge of track 5" (12.7 cm)
Chainline speed 338 ft/min.
(103 m/min.)
Spoil removal Auger
Digging depth and width —
Sprocket boom
Dig depth to 45" (114 cm)
Dig width 4-16" (10-40.6 cm)
Channel boom
Dig depth to 45" (114 cm)
Dig width 4-16" (10-40.6 cm)

BACKFILL BLADE

Angle (left/right) 40° each way
Dual lever controls
Blade lift/lower float position



DIMENSIONS/WEIGHTS

A. Maximum height* - transport.....	77" (195.5 cm)
B. Boom travel - above horizontal.....	Up 70°
C. Trencher shaft height.....	13.7" (34.8 cm)
D. Maximum dig depth.....	45" (114.3 cm)
E. Length of track on ground.....	36.5" (92.7 cm)
F. Length - basic unit w/o blade, boom and chainline.....	85" (215.9 cm)
G. Boom travel - below horizontal.....	Down 60°
Backfill blade height.....	16" (40.8 cm)
Backfill blade width.....	56" (142 cm)
Backfill blade lift above ground.....	10" (25 cm)
Backfill blade depth of cut.....	4" (10 cm)
Overall width - w/o backfill blade.....	41" (104.1 cm)
Overall width - w/ backfill blade straight.....	56" (142 cm)
Length - basic unit w/blade and w/o boom and chainline.....	108" (274.3 cm)
Length - w/ backfill blade and 40" boom, trencher raised.....	137" (348 cm)
Length w/o backfill blade and w/26" boom, trencher raised.....	103" (262 cm)
Weight - w/40" boom and w/o backfill blade.....	1,945 lb (882 kg)
Weight - w/40" boom and backfill blade.....	2,315 lb (1050 kg)
Weight - w/40" boom, backfill blade and ROPS.....	2,450 lb (1111 kg)

* With ROPS option.

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

IMPORTANT: Astec Underground reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Astec Underground does not warrant the safety or reliability of attachments from other manufacturers.

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