



SD-116

TF Series Soil Compactors



*Moving the
World Forward*

Handle it all, including steep grades

Nothing is too tough for the SD-116 single drum soil compactor, not even steep grades. A built-in Ultra-Grade® traction system enhances grade-climbing grip, extending versatility on the most difficult terrain. In addition to axles and drive motors specifically designed for climbing, the SD-116 is powered by a heavy-duty, 155-hp Cummins turbocharged diesel engine providing abundant torque to propel the SD-116 over both highly cohesive and granular soils.

MODEL		SD-116DX	SD-116F
MACHINE WEIGHTS W/ ROPS / FOPS			
Operating Weight (CECE) – lb (kg)		23,930 (10852)	25,050 (11360)
Static Weight @ Drum – lb (kg)		13,700 (6213)	14,550 (6598)
Static Weight @ Tires – lb (kg)		10,230 (4639)	10,500 (4762)
Shipping Weight – lb (kg)		23,630 (10716)	24,750 (11224)
MACHINE DIMENSIONS			
Length – in (mm)		232 (5895)	232 (5895)
Width – in (mm)		90 (2286)	90 (2286)
Height (top of ROPS / FOPS) – in (mm)		121.7 (3091)	123.9 (3146)
Wheelbase – in (mm)		122 (3100)	122 (3100)
Curb Clearance – in (mm)		19 (483)	19 (483)
Inside Turning Radius (to drum edge) – in (mm)		136 (3463)	136 (3463)
DRUM			
Width – in (mm)		84 (2134)	84 (2134)
Diameter – in (mm)		59 (1499)	51 (1295)
Shell Thickness – in (mm)		1.0 (25)	1.0 (25)
Diameter Over Pad Feet – in (mm)		N/A	61 (1549)
Number Of Pad Feet		N/A	112
Pad Height – in (mm)		N/A	5 (127)
Pad Tip Area – sq in (cm ²)		N/A	21 (135.5)
VIBRATION			
Frequency – vpm (Hz)		1,900 – 2,054 (31.7 – 34.2)	1,650 – 2,025 (27.5 – 34)
Centrifugal Force – lb (kN)	High	61,000 (271)	61,000 (271)
	Low	47,900 (213)	59,400 (264)
Nominal Amplitude – in (mm)	High	0.076 (1.92)	0.087 (2.21)
	Low	0.051 (1.29)	0.057 (1.44)
PROPULSION			
Type System	Hydrostatic, 2-speed motors on planetary axle and drum drive w/ No-Spin® differential		
Tire Size		23.1 x 26 – 8PR R3	23.1 x 26 – 8PR R1
Travel Speed – mph (km/h)	High	0 – 7.8 (0 – 12.5)	0 – 7.7 (0 – 12.4)
	Low	0 – 3.0 (0 – 4.8)	0 – 3.0 (0 – 4.8)
ENGINE			
Make & Model		Cummins QSB5.9-30T	Cummins QSB5.9-30T
Engine Type		Turbocharged 6-cylinder	
Rated Power @ 2,200 rpm		155 hp (115.6 kW)	155 hp (115.6 kW)
Electrical System		12 volt DC, negative ground; 95 A alternator; two 750 CCA batteries	
BRAKES			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on axle and drum drive motors	
MISCELLANEOUS			
Articulation Angle		+ / - 38°	+ / - 38°
Oscillation Angle		+ / - 17°	+ / - 17°
Fuel Capacity – gal (L)		68 (257)	68 (257)
Hydraulic Oil Capacity – gal (L)		22 (84)	22 (84)
Gradeability (theoretical)		84%	77%

Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.



POWER TO PERFORM

The Ultra-Grade® traction system is a full-time system providing excellent climbing ability. Additionally, heavy-duty drum drive components and a rear axle with a No-Spin® differential provide application flexibility.

OPTIONAL PADFOOT SHELL KIT

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD-116 smooth drum into a padfoot drum without changing the hydraulic system. Drum conversion is completed by installing the two shells and replacing the smooth scraper bar with padfoot teeth.



SERVICEABILITY

One-piece, rear-hinged engine cover for complete access and tilting operator platform for hydraulic access.

PERFORMANCE FEATURES

- 6-way adjustable premium suspension seat with swivel feature
- Control console includes cup holder and storage
- Inside drum scraper bar
- “ONE METER BY ONE METER” visibility
- Premium shock-mounted operator platform
- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with footrest, dual deck rails, seat switch, back-up alarm, horn, and emergency stop
- Tilting steering column with console displaying gauges and switches
- Variable frequency and dual amplitude

AVAILABLE OPTIONS

- Air pre-cleaner
- Automatic vibration on / off and impact meter
- Battery master switch
- EROPS cab with heat (adds 450 lb / 204 kg)
- EROPS cab with heat and A/C (adds 550 lb / 249 kg)
- Gauge package for engine oil pressure, hydraulic oil temp, and voltmeter
- Patented two-piece clamp-on padfoot drum shell kit (adds 3,000 lb / 1361 kg)
- Remote-mounted hydraulic test ports
- Strike-off blade (padfoot model only)
- Vpm meter and speedometer
- Working lights: two front, two rear



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