



SD-45 D/F

TF Series Soil Compactors



*Moving the
World Forward*

Little in size, big on performance

The SD-45 TF Series soil compactor comes in either a smooth drum model for compacting granular soils, or a padfoot drum model for cohesive soils. Both models have 54-inch rolling widths ideal for small applications such as residential and commercial construction. Excellent gradeability and traction are achieved through a full-time traction control system driving both the drum and rear axle.

MODEL	SD-45D	SD-45F
MACHINE WEIGHTS (W/ ROPS / FOPS)		
Operating Weight (CECE) – lb (kg)	10,600 (4807)	11,350 (5147)
Static Weight @ Drum – lb (kg)	5,400 (2449)	6,150 (2789)
Static Weight @ Tires – lb (kg)	5,200 (2358)	5,200 (2358)
Shipping Weight – lb (kg)	10,390 (4712)	11,140 (5053)
MACHINE DIMENSIONS		
Length – in (mm)	160 (4053)	160 (4053)
Width – in (mm)	62.6 (1590)	62.6 (1590)
Height (top of ROPS / FOPS) – in (mm)	111.4 (2830)	113.6 (2885)
Wheelbase – in (mm)	94.5 (2450)	94.5 (2450)
Curb Clearance – in (mm)	12 (305)	14.5 (368)
Inside Turning Radius (to drum edge) – in (mm)	101 (2569)	101 (2569)
DRUM		
Width – in (mm)	54 (1372)	54 (1372)
Diameter – in (mm)	39.4 (1000)	39.4 (1000)
Shell Thickness – in (mm)	0.78 (20)	0.78 (20)
Diameter Over Pad Feet – in (mm)	N/A	45.4 (1153)
Number Of Pad Feet	N/A	63
Pad Height – in (mm)	N/A	3 (76)
Pad Tip Area – sq in (cm²)	N/A	21 (125)
VIBRATION		
Frequency – vpm (Hz)	1,900 (32)	1,900 (32)
Centrifugal Force – lb (kN)	22,250 (99)	22,250 (99)
Nominal Amplitude – in (mm)	0.078 (1.98)	0.067 (1.71)
PROPULSION		
Type System	Hydrostatic, single-speed motors on drum and planetary axle w/ No-Spin® differential	
Tire Size	12.4 x 24 -4PR R1 Lug	12.4 x 24 -4PR R1 Lug
Drum Drive	Low speed, high torque motor	
Travel Speed – mph (km/h)	0 – 4.8 (0 – 7.7)	0 – 4.9 (0 – 7.9)
ENGINE		
Make & Model	Cummins 4BT 3.3	
Engine Type	Turbocharged 4-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	80 (59.7)	80 (59.7)
Electrical System	12 volts DC, negative ground; 60 A alternator; (1) 750 CCA battery	
BRAKES		
Service	Dynamic hydrostatic through propulsion system	
Parking / Secondary	Spring-applied, hydraulically released on rear axle	
MISCELLANEOUS		
Articulation Angle	+ / - 41°	+ / - 41°
Oscillation Angle	+ / - 12°	+ / - 12°
Fuel Capacity – gal (L)	26 (98)	26 (98)
Hydraulic Oil Capacity – gal (L)	25 (96)	25 (96)
Gradeability (theoretical)	54%	45%

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



OPTIONAL PADFOOT SHELL KIT

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD-45D 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.



PERFORMANCE FEATURES

- Adjustable front drum scraper
- Centrally located remote-mounted hydraulic oil filters
- Drum and axle drive, No-Spin® differentials, and full-time flow divider
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Lug-type tires track within drum width
- Oil level sight gauges (eccentric oil and hydraulic oil reservoirs)
- “ONE METER BY ONE METER” operator visibility
- Safety features include ROPS / FOPS, seat belt, back-up alarm, seat switch, emergency stop button, horn, safety rails, and grab handle
- Tilting operator platform for easy access to major components, reducing downtime and repair costs
- Vibration-isolated, anti-slip, polymer operator platform with ergonomic design reduces fatigue and enhances comfort

SELECTED OPTIONS

- Air precleaner
- Battery master switch
- Inside drum scraper bar
- Patented 2-piece, clamp-on padfoot shell kit
- Rotating beacon light
- Strike-off blade (2-way)
- Strike-off blade (4-way, semi U-shape)
- Tires with diamond tread
- Universal front drum scraper
- Vandal cover
- Work lights, two front and two rear, mounted on ROPS / FOPS



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