



# *SD-70 D/F*

*TF Series Soil Compactors*



*Moving the  
World Forward*

# High performance seven ton compactor

Ingersoll Rand SD-70 TF Series vibratory soil compactors are designed with many innovative features that offer excellent drum performance and reliability while providing a safe and comfortable environment for the operator. Both models are engineered to efficiently and effectively compact a variety of soil types while the powerful eccentric system with dual amplitude and frequency provides versatility on thin or thick material lifts.

MODEL	SD-70D	SD-70F
<b>MACHINE WEIGHTS W/ ROPS / FOPS</b>		
Operating Weight (CECE) – lb (kg)	15,750 (7143)	17,780 (8063)
Static Weight @ Drum – lb (kg)	7,900 (3583)	9,930 (4503)
Static Weight @ Tires – lb (kg)	7,850 (3560)	7,850 (3560)
Shipping Weight – lb (kg)	15,503 (7030)	17,533 (7951)
<b>MACHINE DIMENSIONS</b>		
Length – in (mm)	199 (5044)	199 (5044)
Width – in (mm)	72 (1830)	72 (1830)
Height (top of ROPS / FOPS) – in (mm)	115 (2922)	116 (2955)
Wheelbase – in (mm)	105 (2673)	105 (2673)
Curb Clearance – in (mm)	15 (385)	17 (445)
Inside Turning Radius – in (mm)	128 (3249)	128 (3249)
<b>DRUM</b>		
Width – in (mm)	66 (1676)	66 (1676)
Diameter – in (mm)	48 (1219)	48 (1219)
Shell Thickness – in (mm)	0.88 (22)	0.88 (22)
Diameter Over Pad Feet – in (mm)	N/A	54 (1372)
Number Of Pad Feet	N/A	84
Pad Height – in (mm)	N/A	3 (76)
Pad Tip Area – sq in (cm <sup>2</sup> )	N/A	21 (125)
<b>VIBRATION</b>		
Frequency – vpm (Hz)	1,850 / 2,025 (30.8 / 33.8)	1,850 / 2,025 (30.8 / 33.8)
Centrifugal Force – lb (kN)	High	32,100 (143)
	Low	23,300 (104)
Nominal Amplitude – in (mm)	High	0.078 (1.98)
	Low	0.047 (1.2)
<b>PROPULSION</b>		
Type System	Hydrostatic, 2-speed motor on planetary axle w/ No-Spin differential and single-speed drum drive motor	
Tire Size	14.9 x 24 -6PR R3	14.9 x 24 -6PR R3
Drum Drive	Planetary gear reduction	
Travel Speed – mph (km/h)	High	0 – 9 (0 – 14.5)
	Low	0 – 4.1 (0 – 6.5)
<b>ENGINE</b>		
Make & Model	Cummins B4.5T Tier 2	
Engine Type	Turbocharged 4-cylinder	
Rated Power @ 2,200 rpm – hp (kW)	99 (73.8)	99 (73.8)
Electrical System	12 volts DC, negative ground, 105 A alternator, (1) 750 CCA battery	
<b>BRAKES</b>		
Service	Dynamic hydrostatic through propulsion system	
Parking / Secondary	Spring-applied, hydraulically released on axle and drum drive motors	
<b>MISCELLANEOUS</b>		
Articulation Angle	+ / - 38°	+ / - 38°
Oscillation Angle	+ / - 15°	+ / - 15°
Fuel Capacity – gal (L)	47 (178)	47 (178)
Hydraulic Oil Capacity – gal (L)	22 (84)	22 (84)
Gradeability (theoretical)	78%	78%

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-70 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

- Audible and visual warning lights for engine oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction
- Eccentric system with dual amplitude and frequency
- Ergonomically designed, roto-molded plastic operator platform reduces fatigue and allows easy access to all controls
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Heavy-duty axle with No-Spin® differential
- Hydraulic and eccentric oil level sight gauges
- Lockable control panel, engine cover, and fill caps
- Rear-mounted cooling system, easy access for cleaning
- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with footrest, dual deck rails, hand rails, back-up alarm, horn, and emergency stop
- Suspension seat with arm rest

## AVAILABLE OPTIONS

- Air precleaner
- Battery master switch
- Engine cold start aid
- EROPS cab with heat (adds 450 lb / 204 kg)
- EROPS cab with heat and A/C (adds 550 lb / 249 kg)
- Gauges for engine oil pressure, hydraulic oil temperature, and volt meter
- Inside drum scraper bar
- Patented 2-piece, clamp-on padfoot shell kit
- Premium 6-way adjustable suspension seat with swivel
- Rotating beacon light
- Strike-off blade (padfoot drums only)
- Work lights (two front and two rear) mounted on ROPS / FOPS



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