



SD-105DX & SD-105F

TF Series Soil Compactors



*Moving the
World Forward*

High performance, 10-ton compactors

Ingersoll Rand SD-105 TF Series vibratory soil compactors have 84 inch vibratory drums and are designed with many innovative features that provide excellent drum performance, serviceability, reliability, and a safe, comfortable, and productive environment for the operator. The SD-105DX smooth drum and SD-105F padfoot drum models are engineered to efficiently and effectively compact all types of soils from granular to cohesive.

MODEL		SD-105DX	SD-105F
MACHINE WEIGHTS W/ ROPS / FOPS			
Operating Weight (CECE) – lb (kg)		23,700 (10748)	25,100 (11383)
Static Weight @ Drum – lb (kg)		13,700 (6213)	15,100 (6848)
Static Weight @ Tires – lb (kg)		10,000 (4535)	10,000 (4535)
Shipping Weight – lb (kg)		23,416 (10619)	24,816 (11254)
MACHINE DIMENSIONS			
Length – in (mm)		232 (5892)	232 (5892)
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)	59 (1499)
Shell Thickness – in (mm)		1 (25)	1 (25)
Diameter Over Pad Feet – in (mm)		N/A	67 (1702)
Number Of Pad Feet		N/A	120
Pad Height – in (mm)		N/A	4 (102)
Pad Tip Area – sq in (cm ²)		N/A	21 (125)
VIBRATION			
Frequency – vpm (Hz)		1,225 / 2,025 (20.4 / 33.8)	1,225 / 2,025 (20.4 / 33.8)
Centrifugal Force – lb (kN)	High	59,000 (261)	78,000 (347)
	Low	17,044 (76)	21,720 (97)
Nominal Amplitude – in (mm)	High	0.076 (1.92)	0.084 (2.14)
	Low	0.051 (1.29)	0.055 (1.39)
PROPULSION			
Type System		Hydrostatic, single-speed motor on planetary axle w/ No-Spin® differential and 2-speed drum drive motor	
Tire Size		23.1 x 26 -8PR R3	23.1 x 26 -8PR R1
Drum Drive		Planetary gear reduction	
Travel Speed – mph (km/h)	High	0 – 6.3 (0 – 10.1)	0 – 6.4 (0 – 10.3)
	Low	0 – 3.7 (0 – 6)	0 – 3.9 (0 – 6.3)
ENGINE			
Make & Model		Cummins B3.9 – TAA Tier 2	
Engine Type		Turbocharged and aftercooled 4-cylinder	
Rated Power @ 2,200 rpm – hp (kW)		125 (93.2)	125 (93.2)
Electrical System		12 volts DC, negative ground; 95 A alternator; (2) 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)		35%	60%

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

AVAILABLE OPTIONS

- Air precleaner
- Battery master switch
- Block heater
- Control console power outlet
- Engine cold start aid
- EROPS cab with heat
- EROPS cab with heat and A/C
- Gauges for engine oil pressure, hydraulic oil temperature, and volt meter
- Patented 2-piece, clamp-on padfoot shell kit
- Quick disconnect fittings for test ports
- Rotating beacon light
- Strike-off blade (padfoot drums only)
- Vpm meter / speedometer
- Work lights (two front and two rear)



PERFORMANCE FEATURES

- Audible and visual warning lights for engine oil pressure, coolant temperature, hydraulic oil temperature, and air cleaner restriction
- Centrally located remote-mounted hydraulic oil filters
- Control console provides storage and a cup holder
- Easily accessible batteries protected behind hinged steps
- Gauges for coolant temperature, fuel, hour meter, and tachometer
- Heavy-duty axle with No-Spin® differential
- Hydraulic and eccentric oil level sight gauges
- Inside drum scraper bar
- Lockable control panel, engine cover, and fill caps
- ONE METER BY ONE METER visibility, increasing operator productivity and safety
- Premium 6-way adjustable suspension seat including swivel feature and arm rest
- Premium shock mounts for operator platform
- Rear-mounted cooling system, easy access for cleaning
- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with foot rest, dual deck rails, hand rails, seat switch, back-up alarm, horn, and emergency stop
- Single control for direction and speed with on / off vibration switch
- Tilt steering column with console
- Tilting operator platform for easy access to major components, reducing downtime and repair costs
- Ultra-Grade® Traction Control System for climbing and traction
- Universal front scraper, reducing time required to install or remove optional padfoot shell kit
- Vibration-isolated, anti-slip, polymer operator platform reduces fatigue, and its ergonomic design includes a seat, console, steering column, and controls all located within the operator's zone of comfort and reach
- Warning lights for battery discharge and parking brake



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