SD-122D, SD-122DX, & SD-122F Ingersoll-Rand, TF Series Soil Compactors





High Performance, Twelve-Ton Compactors

The Ingersoll-Rand SD-122 TF Series of vibratory soil compactors have 84 inch (2134 mm) 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 standard SD-122D smooth drum, the fully featured SD-122DX smooth drum, and the SD-122F padfoot drum models are engineered to efficiently and effectively compact all types of soils - granular, mixed, or cohesive.

Kev Features

- Ultra-Grade[®] Traction Control System provides excellent climbing and traction when operating in difficult applications (optional on SD-122D)
- Variable frequency of 1,225 2,025 vpm (20.4 33.8 Hz) for better matching natural resonance of various soils (optional on SD-122D)
- Tilting operator platform for easy access to major components, reducing downtime and repair costs

Optional Padfoot Shell Kit Provides Versatility

- 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
- "ONE METER BY ONE METER" visibility, increasing operator productivity and safety
- Universal front scraper, reducing time required to install or remove optional padfoot shell kit

A two-piece, clamp-on padfoot shell kit easily and quickly converts the SD-122D or the SD-122DX smooth drum to 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.

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Specifications

STANDARD 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 and hydraulic test ports
- 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 (optional on SD-122D)
- Lockable control panel, engine cover, and fill caps
- Premium 6-way adjustable suspension seat including swivel feature and arm rest (optional on SD-122D)
- 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
- Shock-mounted operator platform
- Single control for direction and speed with on / off vibration switch
- Tilt steering column with console (optional on SD-122D)
- Warning lights for battery discharge and parking brake

SELECTED OPTIONS

Battery master switch

- Control console power outlet
- CE-conformity kit
- 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
- 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) mounted on ROPS / FOPS

MODEL		SD-122D	SD-122DX	SD-122F
MACHINE WEIGHTS (W/ ROPS	S / FOPS)		
Operating Weight (CECE) – Ib (kg)		26,460 (12000)	26,465 (12002)	28,235 (12805)
Static Weight @ Drum – Ib (kg)		15,630 (7088)	16,230 (7361)	18,000 (8163)
Static Weight @ Tires – Ib (kg)		10,830 (4912)	10,235 (4642)	10,235 (4642)
Shipping Weight – Ib (kg)		26,176 (11871)	26,181 (11873)	27,951 (12676)
MACHINE DIMENSION	VS			
Overall Length – in (mm)		232 (5895)	232 (5895)	232 (5895)
Overall Width – in (mm)		90 (2286)	90 (2286)	90 (2286)
Overall Height (top of ROPS / FOPS) - in (n		. ,	121.7 (3091)	123.9 (3146)
Wheelbase – in (mm)		122 (3100)	122 (3100)	122 (3100)
Curb Clearance – in (mm)		19 (483)	19 (483)	19 (483)
Inside Turning Radius – in (mr (measured to drum edge)	n)	136 (3463)	136 (3463)	136 (3463)
DRUM				
Drum Width – in (mm)		84 (2134)	84 (2134)	84 (2134)
Drum Diameter – in (mm)		59 (1499)	59 (1499)	59 (1499)
Drum Shell Thickness – in (mm)		1.19 (30)	1.19 (30)	1.19 (30)
Drum Diameter Over Pad Feet	t – in (mm)	_	_	69 (1753)
Number Of Pad Feet		_	_	120
Pad Height – in (mm)		_	_	5 (127)
Pad Tip Area – sq in (cm²)		_	_	21 (125)
VIBRATION				
Frequency – vpm (Hz)	High Amp Low Amp	1,250 / 1,850 (20.9 / 30.9) 1,225 / 2,025 (20.4 / 33.8)	1,250 - 1,850 (20.9 - 30.9) 1,225 - 2,025 (20.4 - 33.8)	1,250 - 1,650 (20.9 - 27.6) 1,225 - 2,025 (20.4 - 33.8)
Centrifugal Force – Ib (kN)		28,853 / 63,200 (128 / 281)		
	Low Amp	17,064 / 46,400 (76 / 206)	,	23,537 - 64,000 (105 - 285)
Nominal Amplitude – in (mm)			0.075 (1.90)	0.080 (2.03)
	Low Amp	0.046 (1.17)	0.046 (1.17)	0.052 (1.31)
PROPULSION				
Type System	Hydrostatic, 2-speed motor on planetary axle w/ No-Spin [®] differential and 2-speed drum drive motor		anetary axle w/ drum drive motor	
Tire Size		23.1 x 26 -8PR R3	23.1 x 26 -8PR R3	23.1 x 26 -8PR R1
Drum Drive			Planetary gear reduct	ion
Travel Speed – mph (km/h)	High	0 - 7.5 (0 - 12.1)	0 - 8.2 (0 - 13.1)	0-7.9 (0-12.7)
	Low	0 - 2.7 (0 - 4.3)	0 - 3.1 (0 - 5.1)	0 - 2.8 (0 - 4.5)
ENGINE				
Make & Model		STD: Cu	immins QSB5.9-30T; Optional:	Cummins B5.9-TAA
Engine Type	STD: Turbocharged 6-cylinder; Optional: Turbocharged and charge air-cooled			
Rated Power @ 2,200 rpm –				
Electrical System		12 volts DC, r	negative ground; 95 A alternator	; (2) 750 CCA batteries
BRAKES				
Service		D	ynamic hydrostatic through pro	pulsion system
Parking / Secondary		Spring-applied,	hydraulically released on axle a	and drum drive motors
MISCELLANEOUS			-	
Articulation Angle		+ / - 38°	+ / - 38°	+ / - 38°
Oscillation Angle		+ / - 17°	+ / - 17°	+ / - 17°
Fuel Capacity – gal (L)		68 (257)	68 (257)	68 (257)
Hydraulic Oil Capacity – gal (L)	22 (84)	22 (84)	22 (84)
,	,	== (0 1)	75%	71%

Product improvement is a continuing goal at Ingersoll-Rand.

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