



SD-77DA & SD-105DA

Single Drum Asphalt Compactors



*Moving the
World Forward*

Increased versatility with Ingersoll Rand compactors

The Ingersoll Rand SD-77DA and SD-105DA TF Series compactors combine proven technologies from the soil and asphalt lines and are designed with dual frequency, eight amplitudes, a machined drum, and auto-reversing eccentrics. Both models are equipped with automatic on/off spray and vibration systems adjusted for machine travel, plus they have many other features commonly found on large highway-class double drum compactors.

MODEL	SD-77DA	SD-105DA	PERFORMANCE FEATURES
MACHINE WEIGHTS (W/ ROPS / FOPS)			<ul style="list-style-type: none"> • Audible warning alarms for air cleaner restriction, engine coolant temperature, engine oil pressure, and hydraulic oil temperature • Color-coded lube chart, remote-mounted hydraulic pressure test ports, and hydraulic filters sight gauge for checking eccentric oil and hydraulic oil reservoirs • Eccentric rotation matches travel direction • Eight-position variable amplitude • Gauges for hour meter, tachometer, engine coolant temperature, fuel, and impact meter • "ONE METER BY ONE METER" operator visibility • One-piece rear engine cover and tilting operator platform provide unobstructed access to engine, coolant system, and hydraulic components • Pressurized emulsion spray system includes adjustable front and rear drum scrapers with wiper blades and cocoa mats • Pressurized water system with back-up spray bar, dual pumps, hand-serviceable nozzles, and a 3-stage filtration system • Safety features: ROPS / FOPS, seat belts, seat switch, double-bar guard rails, skid-resistant deck, and back-up alarm • Travel direction and speed control, horn, emergency stop, water and emulsion control switch, power outlet, parking brake, brake test switch, and keyed ignition switch • Vibration-isolated operator station with suspension-mounted seat, tilt steering column, fully adjustable swivel seat base, and fold-down adjustable arm rest • Work lights, two front and two rear mounted to ROPS / FOPS
Operating Weight (CECE) – lb (kg)	17,350 (7868)	24,800 (11247)	
Static Weight @ Drum – lb (kg)	10,550 (4784)	14,300 (6485)	
Static Weight @ Tires – lb (kg)	6,800 (3084)	10,500 (4762)	
Shipping Weight – lb (kg)	15,900 (7210)	24,500 (11111)	
MACHINE DIMENSIONS			
Length – in (mm)	205 (5197)	236 (5994)	
Width – in (mm)	73 (1854)	90 (2286)	
Height (top of ROPS / FOPS) – in (mm)	116 (2957)	122 (3098)	
Wheelbase – in (mm)	109 (2771)	122 (3098)	
Curb Clearance – in (mm)	15.6 (396)	17 (431)	
Inside Turning Radius (to drum edge) – in (mm)	122 (3100)	128 (3251)	
DRUM			
Width – in (mm)	66 (1675)	84 (2135)	
Diameter – in (mm)	48 (1220)	55.1 (1400)	
Shell Thickness (nominal) – in (mm)	0.75 (19)	0.75 (19)	
VIBRATION			
Dual Frequency – vpm (Hz)	1,850 / 2,500 (31 / 42)	1,850 / 2,500 (31 / 42)	
Centrifugal Force – lb (kN)	High 26,000 (116) Low 5,840 (26)	36,000 (160) 8,800 (39)	
Nominal Amplitude, 8 settings – in (mm)	High 0.040 (1.01) Low 0.016 (0.41)	0.035 (0.89) 0.016 (0.41)	
PROPULSION			
Type System	Hydrostatic, single-speed drum drive motor and 2-speed motor on planetary axle with No-Spin® differential		
Tire Size	13.0 x 24 -10 PR-smooth	16.9 x 30 -6 PR-smooth	
Travel Speed – mph (km/h)	High 0 – 8.1 (0 – 13.1) Low 0 – 5.4 (0 – 8.5)	0 – 9.3 (0 – 14.9) 0 – 5.8 (0 – 9.3)	
ENGINE			
Make & Model	Cummins B4.5T	Cummins B3.9-TAA	
Engine Type	4-cylinder turbocharged	4-cylinder turbocharged and aftercooled	
Rated Power @ 2,200 rpm – hp (kW)	99 (73.8)	125 (93.2)	
Electrical System	12 volts DC, negative ground; 95 A alternator; (1) 750 cca battery	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	Spring-applied, hydraulically released on axle and drum drive motors	
WATER SYSTEM			
Type / Pump	Pressurized, electric diaphragm pump with flow control		
Tank Capacity – gal (L)	130 (492)	155 (587)	
Drum Spray Nozzles: Main Bar	7 hand-serviceable nozzles	8 hand-serviceable nozzles	
Drum Spray Nozzles: Auxiliary Bar	6 hand-serviceable nozzles	7 hand-serviceable nozzles	
MISCELLANEOUS			
Articulation Angle	+ / - 38°	+ / - 38°	
Oscillation Angle	+ / - 15°	+ / - 17°	
Fuel Capacity – gal (L)	47 (178)	68 (257)	
Hydraulic Oil Capacity – gal (L)	22 (84)	22 (84)	
Gradeability (theoretical)	55%	51%	
Emulsion Tank Capacity – gal (L)	18 (68)	20 (76)	

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

SELECTED OPTIONS

- Cold start aid
- Engine air precleaner
- Engine block heater
- 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, volt meter, and hydraulic oil temperature
- Rotating beacon light
- Special paint



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