



iF Award
Design
Leader's choice
2017



GOOD DESIGN
2017

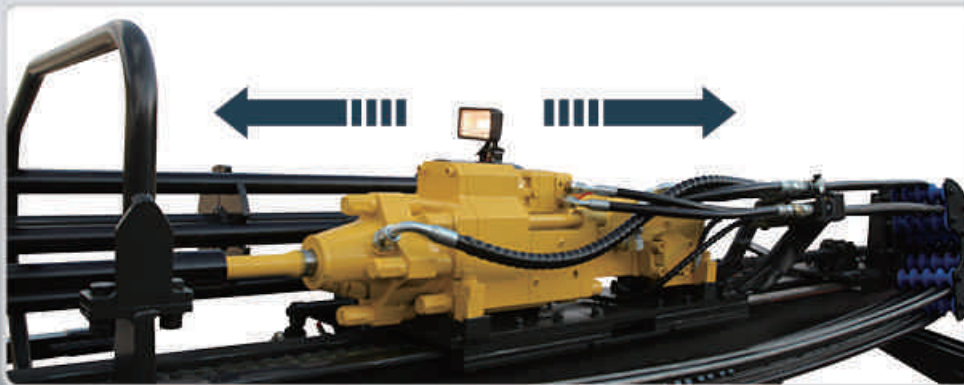
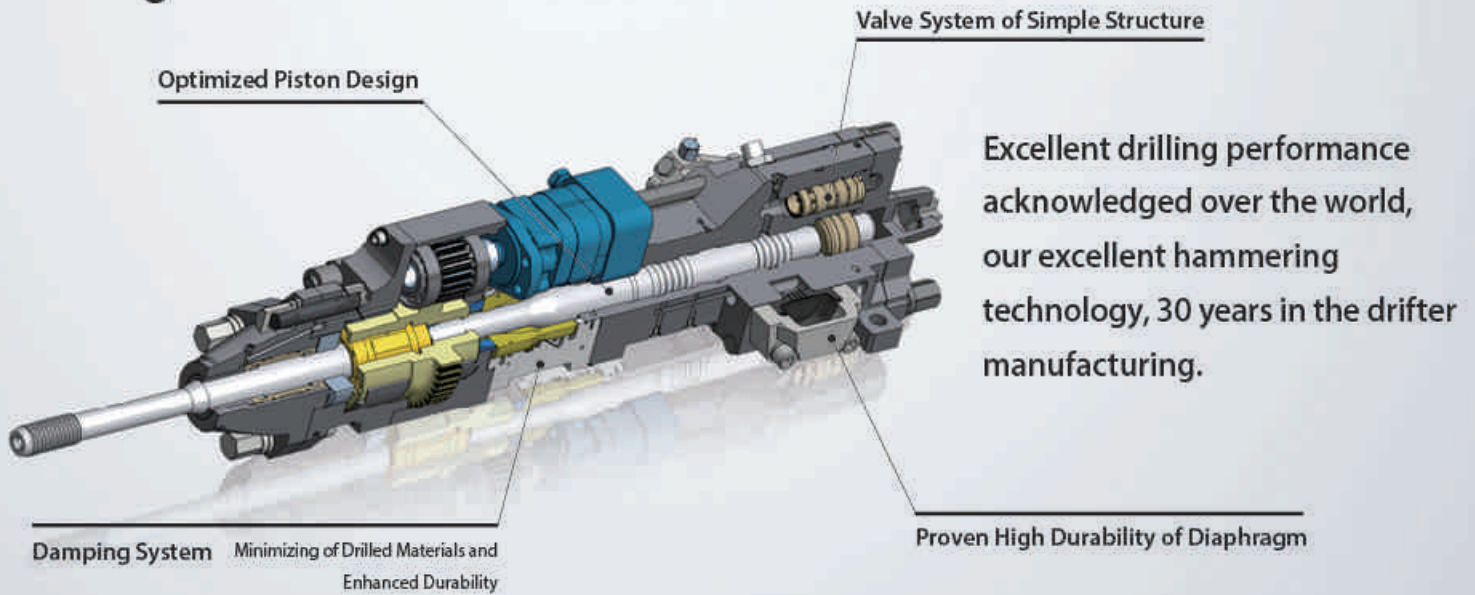


reddot award 2018
winner

TOP HAMMER DRILL RIG SD112E/SD142E

Excellent Drilling Performance and Durability

High Pressure Drifter TD Series



Model	Unit	TD-45P	TD-51P
Weight	lb(kg)	443(201)	672(305)
Impact Power	kw	15	20
Impact Rate	bpm	2,800-3,000	2,800-3,000
Operating Pressure	psi(kg/cm ²)	1,991-2,418 (140-170)	1,991-2,560 (140-180)
Number of Rotations	rpm	0-220	0-200



Powerful and Safe Driving Performance



Minimization of impacts transferred to the lower part and strengthened durability



Secured safety for the front and rear sides while driving and boom feeding



Oscillating angle: +/- 10degrees



No trapping of the lower part of the chassis with its high ride height

SOOSAN SD Series		SD112E		SD142E	
		US Standard	Metric	US Standard	Metric
Dimension & Weight	Overall Weight (A) *1	29,101 lb	13,200 kg	29,211 lb	13,250 kg
	Overall Weight (A) *2	30,203 lb	13,700 kg	30,314 lb	13,750 kg
	Shipping Length	31.7 ft	9,660 mm	31.7 ft	9,660 mm
	Shipping Width	8.0 ft	2,450 mm	8.0 ft	2,450 mm
	Shipping Height	10.1 ft	3,080 mm	10.3 ft	3,150 mm
	Travel Speed, max	2.2 mile/h	3.5 km/h	2.2 mile/h	3.5 km/h
	Maximum Traction Force	18,213 lbf	81 kN	18,213 lbf	81 kN
	Maximum Grade of Hill Climb	57.7% (30 deg.)		57.7% (30 deg.)	
	Oscillating Angle	±10 deg.		±10 deg.	
	Ground Contact Pressure	11 psi	76 kPa	12 psi	79 kPa
Drifter	Model	TD-45P(Standard) / TD-45P RP(Optional)		TD-51P(Standard) / TD-51P RP(Optional)	
	Output	20 hp	15 kW	27 hp	20 kW
	Weight	505 lb	229 kg	653 lb	296 kg
	Weight(with RP)	578 lb	262 kg	664 lb	301 kg
	Overall Length	4.7 ft	1,426 mm	4.6 ft	1,414 mm
	Overall Length(with RP)	5.3 ft	1,616 mm	5.6 ft	1,706 mm
	Overall Width	1.0 ft	298 mm	1.0 ft	319 mm
	Overall Height	0.9 ft	283 mm	1.0 ft	320 mm
	Impact pressure, max.	2,611 psi	180 bar	2,611 psi	180 bar
	Impact rate	47 ~ 50 Hz / 2,800 ~ 3,000 BPM		47 ~ 50 Hz / 2,800 ~ 3,000 BPM	
Rotation torque, max.	434 lbf.ft	588 N.m	542 lbf.ft	736 N.m	
Rotation rate, max	200 RPM		200 RPM		
Engine	Brand & Model	6BT5.9		6CTAAB.3-C	
	Type	Water-cooled & Turbo Charged Diesel Engine		Water-cooled & Turbo Charged Diesel Engine	
	Rated Output	173 hp / 2,200 rpm	129 kw / 2,200 rpm	260 hp / 2,200 rpm	194 kw / 2,200 rpm
Hydraulic Equipment	Emission	Tier 2(EU Stage II)		Tier 2(EU Stage II)	
	Variable Displacement Pump	Axial Piston Pump X2 (Load Sensing)		Axial Piston Pump X2 (Load Sensing)	
	Fix Displacement Pump	Double Geared Pump		Double Geared Pump	
Boom	Model				
	Type	Extendable Boom		Extendable Boom	
	Boom Lifting Angle	Up 60 / Down 40 deg.		Up 60 / Down 40 deg.	
	Boom Swing Angle	Right 45 / Left 45 deg.		Right 45 / Left 45 deg.	
Compressor	Boom Slide Length 3'11" 1,200 mm	3.3 ft	1,000 mm	3.3 ft	1,000 mm
	Make & Model	Germany GHH, CF-75G		Germany GHH, CF-90G	
	Type	Screw Type, Single Stage		Screw Type, Single Stage	
	Discharge Airflow	201.3 CFM	5.7 m³/min	307.2 CFM	8.7 m³/min
Discharge Pressure	152.3 psi	10.5 bar	152.3 psi	10.5 bar	

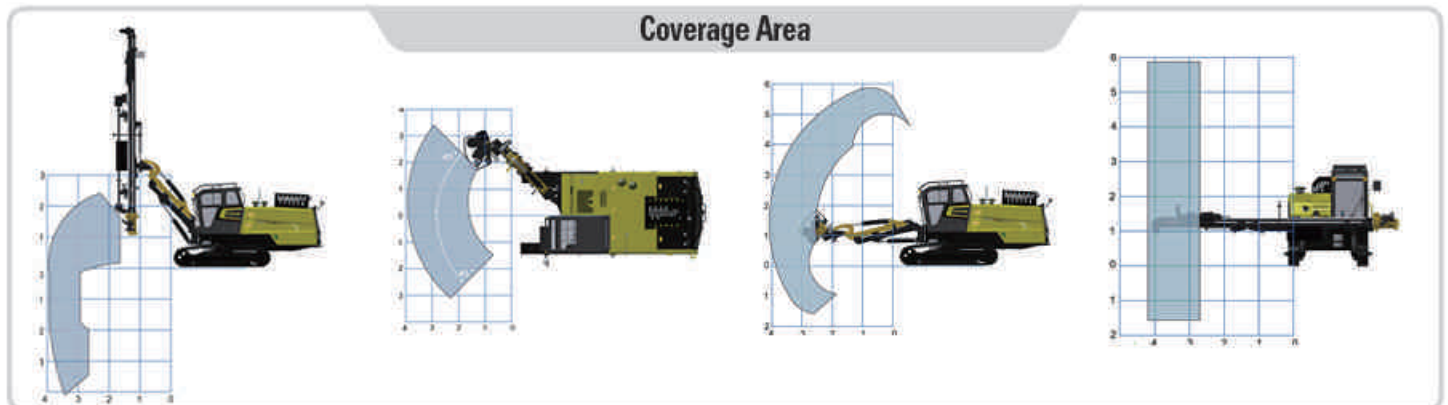
SOOSAN SD Series		SD112E		SD142E	
		US Standard	Metric	US Standard	Metric
Guide Shell	Model				
	Overall Length	24.2 ft	7,378 mm	24.2 ft	7,378 mm
	Feed Length	20.3 ft	6,188 mm	20.3 ft	6,188 mm
	Feed Length (with RP)	20.6 ft	6,278 mm	20.6 ft	6,278 mm
	Guide Slide Length	4.9 ft	1,500 mm	4.9 ft	1,500 mm
	Guide Swing Angle	Right 30 / Left 90 deg.		Right 30 / Left 90 deg.	
	Guide Tilt Angle	180 deg.		180 deg.	
	Maximum Pulling Force	5,395 lbf	24 kN	5,395 lbf	24 kN
	Feed system	Chain & Hydraulic Motor with Reduction Gear		Chain & Hydraulic Motor with Reduction Gear	
	Dust Collector	Model			
Airflow		847.6 CFM	24.0 m³/min	847.6 CFM	24.0 m³/min
Number of Elements		4 EA		4 EA	
Dust Removal		Full Automatic Air Pulsing System		Full Automatic Air Pulsing System	
Suction Cap		Sliding Hood		Sliding Hood	
Electrical Equipment	Battery	12V; 125Ah x 2EA		12V; 125Ah x 2EA	
	Voltage	DC24V		DC24V	
Oil Capacity	Fuel Tank	85 gal	320 liter	111 gal	420 liter
	Hydraulic Tank	66 gal	250 liter	66 gal	250 liter
Bit and Rod	Bit Diameter	2.5 ~ 4.0 inch	64 ~ 102 mm	3.0 ~ 4.5 inch	76 ~ 115 mm
	Type of Bit	Button, Retract, Cross		Button, Retract, Cross	
	Starter Rod Length	10ft / 3,050mm or 12ft / 3,660mm or 14ft / 4,270mm		12ft / 3,660mm or 14ft / 4,270mm	
Circumstance	Working Temperature	5 ~ 113° F	-15 ~ +45° C	5 ~ 113° F	-15 ~ +45° C

Note: *1 "Overall Weight (A)" includes weights of fuel and oils (full).
*2 "Overall Weight (B)" includes weights of "Overall Weight (A)", operator and rod bit.

Optional Equipment		SD112E		SD142E	
		US Standard	Metric	US Standard	Metric
Auto Rod Changer Option 1 Roller Type, 10ft	Rod Threads	T38, T45			
	Rod length	10.0 ft	3,050 mm		
	Number of Rods	Standard : 4+1(T38), Optional : 4+1(T45)			
Option 2 Roller Type, 12ft	Type of Rod	MM			
	Rod Threads	T38, T45		T38, T45	
	Rod length	12.0 ft	3,660 mm	12.0 ft	3,660 mm
Option 3 Carousal Type, 12ft	Number of Rods	Standard : 4+1(T38), Optional : 6+1(T45)		Standard : 4+1(T38), Optional : 6+1(T45)	
	Type of Rod	MM		MM	
	Rod Threads	T45		T45, T51	
Option 3 Carousal Type, 12ft	Rod length	12.0 ft	3,660 mm	12.0 ft	3,660 mm
	Number of Rods	Standard : 5+1(T45)		Standard : 5+1(T45), Optional : 5+1(T51)	
	Type of Rod	MF		MF	

Maximized Drilling Efficiency with a Wide of Drilling Coverage

Ultimate drilling efficiency under various kinds of environments, 45 degrees to the left and right and 60 & 40 degrees upward & downward



Enhanced Customer Convenience and Maintainability through Simple and Efficient Designs

Working and maintenance efficiency, simplified structure and minimized no. of parts
 Easy to replace a filter or oil and a wide room for an engine

Easy to replace of most of consumable parts, Highly compatible

Optimal Power Unit



Cummins Tier 2 Engine
 6BT5.9 [SD112E] 173HP
 6CTAA8.3-C [SD142E] 260HP



Compressor Air Volume
 [SD112E: GHH CF75G] 5.7m³/min
 [SD142E: GHH CF90G] 8.7m³/min



Double Pump
 Enhanced Fuel Efficiency



Switchboard

Main Components



Suction Hood



Reliable Dust Collector
 with a Powerful Suction Power
 Suction Capacity: 20~25m³/min



Hose Reel

Ergonomically Designed Cabin



Comfortable Cabin
 with Plenty of Elbowroom



Excellent Feel of Grip and
 Convenient Joystick Control



Real-time Monitoring System
 (Feed/ Rear/ Black Box)



LED Light

SOOSAN CSM

HEAD OFFICE & FACTORY

#365, Woram-ro, Eumbong-myeon, Asan-si, Chungcheongnam-do, Korea
 Tel. 82-41-539-0200 / Fax. 82-41-547-0020

OVERSEAS SALES TEAM

Tel. 82-41-539-0338 / Fax. 82-41-539-0389

E-mail info2@soosan.co.kr
<http://www.soosancsm.co.kr>



Distributed by