SPECIFICATION

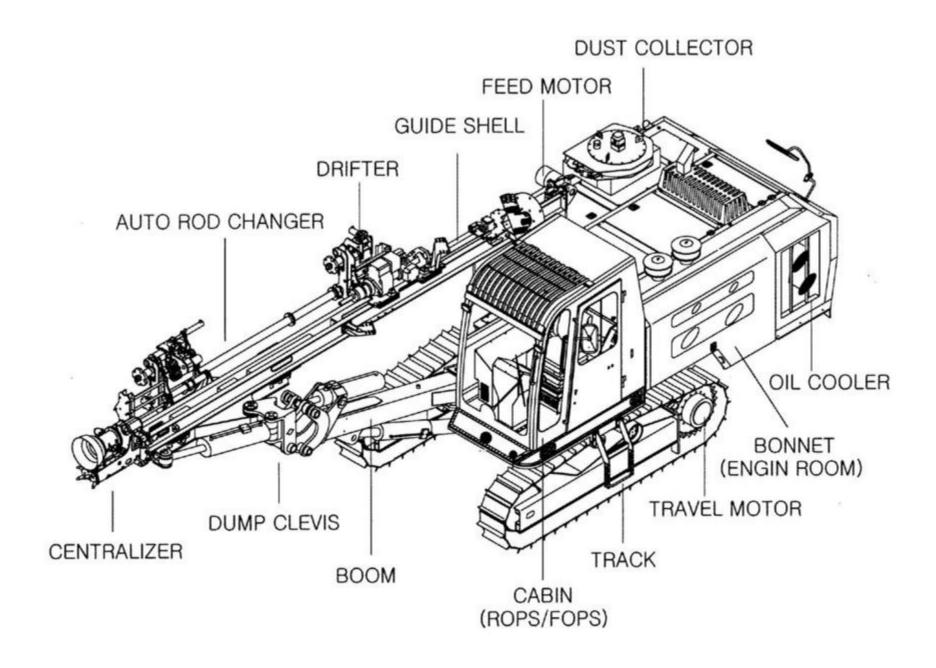
MODEL: HYD. CRAWLER DRILL

(JD-1400E)

1. Outline

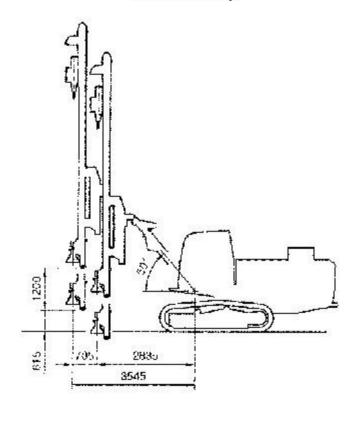
SOOSAN csm hydraulic crawler drill is a drilling machine for blasting with dynamite in the quarries, and mining and construction site. It is mainly composed of Travelling device as a base machine, Drifter, Guide shell, loading device as drilling device, power unit and running device operated by diesel engine. Differently from pneumatic drill, Air compressor and dust collector installed on the power unit make a high efficient rock drilling with low noise as much as possible.

2. Major Components

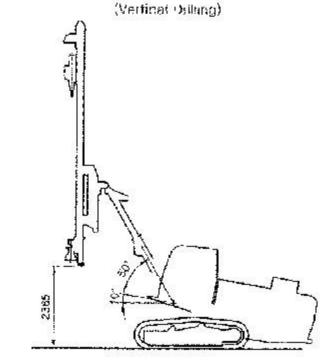


3. COVERAGE RANGE

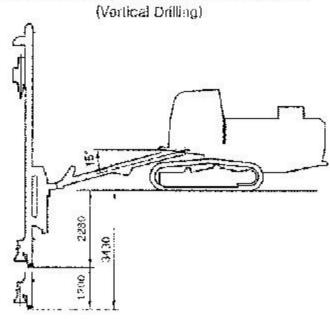
SOOM LIFTING, EXTENDING, GUIDE SHOING (Vertical Drilling)



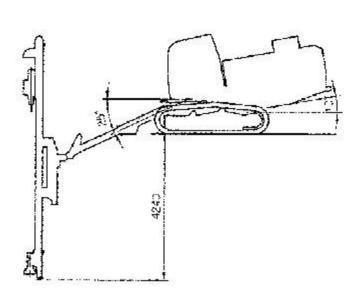
2) BOOM LIFTING, EXTENDING, TRACK OSCILLATING



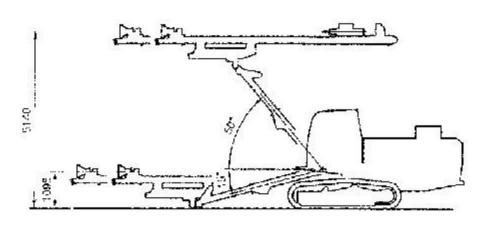
3) BOOM LOWERING, EXTENDING, GUIDE SLIDING



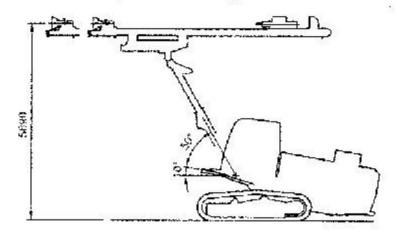
 BOOM LOWERING, EXTENDING, GUIDE SLIDING ,TPACK OSCILLATING. (Vertical Drilling)



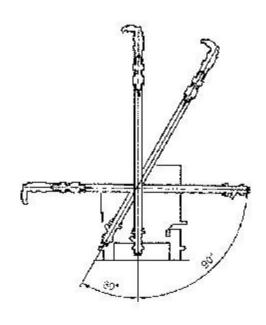
5) BOOM LIFTING.LOWERING, EXTENDING, GUIDE SLIDING (Horizontal Driving)



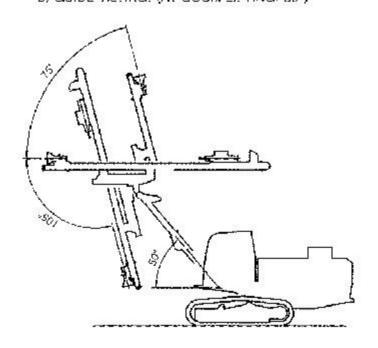
6) BOOM LIFTING, EXTENDING, TRACK OSCILLATING (Horizontal Drilling)



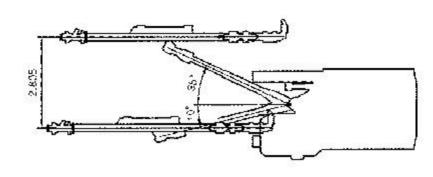
7) GUIDE SWING



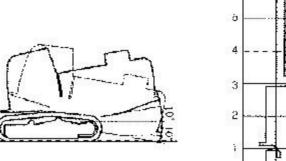
B) GUIDE BETING: (AT BOOM EIFTING: 50°)



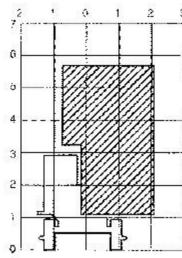
9) BOOM SWING



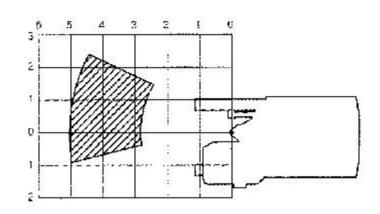
10) TRACK OSCILLATING



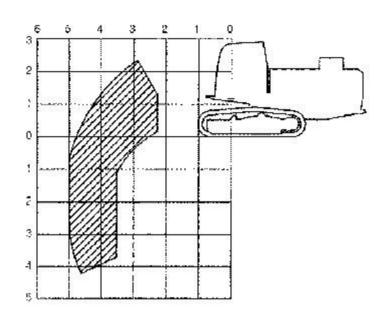
11) HORIZONTAL ORILLING



12) VERTICAL DRILLING(I)

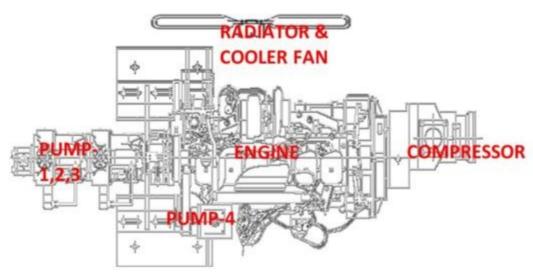


13) VERTICAL DRILLING(II)



4. Features

1) Power Unit



2) Working safety

- 1 Tumbler length 2480mm and shoe width 330mm maximizes safety.
- ② Ground clearance 530mm and track oscillation(±10°) on either side prevent the bottom from being damaged by projection on the rough zone.

3) Anti-jamming system

Makes the stable operation possible on all kind of rock and makes an easy operations by an unskilled operator. This will be operated only in case the anti-jamming switch is on position.

4) Collaring

Collaring makes it easy to take a correct position for drilling and an unskilled operator performs drilling correctly.

5) Travelling speed and gradeability

The piston pump and travelling motor with high efficiency maximize its travelling speed and gradeability-Travelling speed: 3.8km/h; Max. gradeability: 30

JD-1400E

6) Maintenance and inspection

Panel typed bonnet and vertical typed fuel tank make more room for checking and services.

The oil drain cocks installed on either side for engine oil, gear box oil, fuel, compressor oil make the oil exchange and cleaning easy.

7) Powerful Dust Collection

- ① Dust collector with 4 filters prevents dust from flying in drilling and its filters are protected by air flushing in each filter.
- ② To prevent the filter from being damaged by a water vein, shutter installed within stop collecting dust in case a water vein appears during drilling.

8) Comfortable and safe Cabin

Strong frame, safety glass on all directions, and safety net protect the operator and provide secure broad view in job site. Floating typed operators seat with air-bellows protects the operator from vibration and provides very comfortable working conditions. Air condition, radio, and the heater are provided as basic specifications.

9) Sliding Suction Hood

With suction hood cab slided up and down by the operator in the cabin, the operator con performs drilling without others assistance correctly. The hood stuck to the ground prevents the debris from flying in drilling.

10) Large Lubrication for Drifter

With additional device, lubricating oil can be supplied from Lubrication tank directly. The automatic lubrication system removes the inconvenience of feeding oil frequently and protects the drifter from being damaged by lubrication oil shortage.

11) Centralized Electric Control System

All the electric control devices are centralized in the control box for checking any trouble easily.

12) Pre-Cleaner(Cyclone)

Pre-cleaner installed between hood and dust collector protects the filters in the dust collector and the hose from being damaged by the debris.

13) Auto Grease Gun

Before the rod and the sleeve connected, greases the external screw by only pushing the button, which helps the rod and the sleeve charged tightly to get easily loosed.

14) Automatic Rod Changer

The operator connects or disconnects the rods by controlling only a few levers in the cabin without an assistant. This automatic rod exchange can be performed by means of sequential hydraulic schematic.

5 Rods(including the first rod) can be equipped in the cartridge of ARC

15) Cummins Engine with large output

Cummins engine with water cooling system supply sufficient power for travelling or operating at job site. Especially its world wide services network by Cummins will be a good point for the users.

16) Large Fuel Tank

Fuel tank can hold 480 liters and gives comparatively a long operating duration. The residual fuel can be observed in sight unless engine room opened.

17) Compressor On/Off Switch

Air compressor can be used only in case compressed air required by On/Off switch. The On/Off switch of compressor is effective to cut down the engine fuel consumption by unloading the compressor at the Off position.

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5. Specifications

NO	IT EN A			MODEL
NO	ITEM			JD-1400E
1		Gross weight	kg	16,000
	Overall	Overall length	mm	10,300
	Dimensions	Overall width	mm	2,470
		Overall height	mm	3,200
2	Crawler	Ground clearance	mm	510
		Oscillating angle		±10
		Gradeabillity	0	28
		Traveling speed	km/h	3.3
		Model		QSC8.3-C (CUMMINS)
3	Engine	Rated output	bhp /rpm	260/2,200
		Model		YH-135
4	Drifter	Total Length	Mm	1,225
		Total Width	Mm	360
		Total Height	Mm	335
		Weight	Kgf	260
		Impact Frequency	Hz	40~45
		Rotational Torque	Kgf-m	Max. 120
		Rotational Frequency	RPM	Max. 120
		Impact Pressure	Bar	Max. 140
		Rotation Pressure	Bar	Max. 140
		Flusing Pressure	Bar	Max. 10.5
	Model		CF90LG3 (GHH-RAND)	
5	Air	Working pressure	kg/cm ²	10.5
	compressor	Free air delivery	m³	11.3
		Tank capacity	m³	0.075
6	Guide	Overall length	mm	7,290
		Slide length	mm	1,500
		Feed length	mm	4,300
		Swing angle	R/L。	90 / 15
		Tilt angle	0	180

JD-1400E

NO	ITEM		MODEL	
INO	I I EIVI			JD-1400E
7	Boom	Overall length	mm	3,000
		Lift angle	U/D。	50/15
		Swing angle	R/L。	15/35
8	Dust collector	Suction capacity	m³/min	40
		Number of filters	EA	4
		Blow pressure	mm/Aq	550
9	Rod changer	Weight	kg	
		Number of rods		6+1
10	Bit & Rod	Bit dia		Ф76 ~ Ф127
		Bit design		CROSS, BUTTON
		Rod length	mm	3,660
		Rod section		51R
11	Hyd. sys.	Hyd. pump		Variable Piston
				Pump
12	Auto rod changer	Туре		0
		Number of Rod	EA	6 + 1

6. Specification Diagram

