



HSC-2515 concrete spray system

The series wet shotcrete system equipment have multi-function and can be applied widely. This equipment are suitable for bigger fracture surface, project which need big output, and tunnel construction which need high efficiency shotcrete.



Features:

1. Closed circuit hydraulic system running system, powerful chassis, wet mix braking system.
2. Four-wheel transmission, four-wheel steering, small turning radius, thus make a better operation.
3. Open-type cab, widely views, driver's seat with 180 ° rotation design, thus make the operation flexible and can drive two-way.
4. Reasonable loading design makes the equipment with bigger anti-overturning moment.
5. Full hydraulic telescope and rotate robot arm make the machine with high carrying capability, steady movement, flexible operation, no construction dead zone.
6. Electric motor and diesel two-motor drive.
7. Convey cylinder with long stroke and big cylinder diameter can reduce the abrasion of resistant ring and plate and improve the stability of concrete spraying.
8. Hydraulic drive hopper vibrator, air cooler, cable reel, accelerator pump and water pump can proof electric leakage and pollution.
9. The ratio of accelerator and concrete is in fixed and can be monitored and adjusted by touch screen and remote control.
10. All operation can be controlled by wireless remote control thus reduce labor intensity and



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improve working efficiency.

11. Diesel engine can make the spray arms move slowly in case the concrete solidification makes the equipment crash when electric power is off.

Technical data:

Unity machine parameter	Item	unit	HSC-2515B	HSC-2515C	HSC-2515D
	L×W×H	mm	7800×2530×3280		
Weight	kg	14000	12800		
Arm and Leg parameter	Arm structure		main arm rotate + telescope (stretch out + draw back); spray arm fold + telescope (stretch out + draw back)		
	Max. Spray height	m	15 (normal spraying height 7-10m)		
	Max. Spray width	m	2×13		
	Max. Spray depth	m	8		
	big arm pitching angle	degree	-30° ~ +75°		
	small arm pitching angle	degree	70°		
	nozzle rotary angle	degree	360°		
	nozzle swing angle	degree	240°		
	drive mode		Electric motor driven for normal work, diesel engine driven for emergency discharging and cleaning stretch out and draw back arm		
	electric motor rated power	kW	52		
	electric motor working voltage	V/Hz	380/50	380/50	380/50
diesel engine rated power	kW	83			
Pump parameter	rated output	m3/h	25		
	rated reversing time	/min	21		



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	system pressure	Bar	230	
	outlet pressure	Bar	70	
	convey cylinder inner diameter	mm	Φ160	
	convey cylinder stroke	mm	1000	
	nozzle diameter	mm	Φ40	Φ45
Chassis parameter	wheel base	mm	4100	3850
	front and rear bridge drive mode	-	4×4	
	Hydraulic oil tank capacity	L	550	700
	fuel tank capacity	L	190	140
	max. running speed	Km/h	22	
	max. grade ability	%	40	35
	min. ground clearance	mm	450	400
	min. turning radius	m	5	7.65
	braking distance	m	≤10	
Auxiliary system parameter	cable	m	100	
	air compressor power	kW	75	---
	air compressor output	m ³ /min	15	---
	air compressor working pressure	Bar	5	---
	additive output	L/h	800	
	additive system pressure	Bar	10	
	additive tank capacity	L	1000	



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