

HPS3016S Shotcrete Manipulator (rubber-tyred)

HPS3016 series Shotcrete self-designed & developed by CRCHI displays a great capability in the construction, whose good performance has been highly praised by clients.

HPS3016 Shotcrete integrates the functions of walking, pumping and injection, at the same time, it has the characteristics of better maneuver ability, highly automation, wide jetting range, stable performance, easy operation, safely & reliability, high productivity, low rebound and high construction quality.



Parameter Sheet

Item		Unit	Parameter
Max. capacity (theor.)		m ³ /h	30
Max outlet pressure (concrete)		MPa	8
Hydraulic cylinder		mm	φ100 / 70
Concrete piston		mm	φ180 / 1200
Max aggregate size		mm	15
Distribution Valve type			S-type
Delivery hose		mm	φ80
Pumping frequency		time/min	15
Air compressor	Rated Power	kW	75
	Rated Pressure	bar	8.0
	Capacity	m ³	13
Pumping			
Hydraulic and rotating spray boom, Wireless remote control			
Max. injection height		m	17.5
Max. injection width		m	31.4
Max. horizontal reach		m	15.3
Max. operating depth		m	7.6m below ground level
Min. tunnel height		m	4
Boom base horizontal rotation		°	±90
Boom base vertical rotation		°	±110
First boom length / rotation		mm	4200 / 90°

Item	Unit	Parameter
Second boom length / rotation	mm	2500 / 180°
Third boom length / rotation	mm	3500 / 270°
Fourth boom stretching	mm	1750
Spray nozzle rotation	°	360
Spray nozzle axial-swing	°	240
Control mode	Machine control + Wireless remote control, Max. remote control distance 100mtrs	
Chassis		
Solid chassis, IC-hydrostatic drive, Four wheel drive, Four wheel steering, bi-directional driving (two cabins)		
Engine	Model	Deutz BF4M2012
	Power	KW 75
Driving speed I/II/III/IV	Km/h	3/6/10/20
Gradeability	%	58
Approach angle	°	18
Departure angle	°	16
Wheel base	mm	4000
Brake	Hydraulic four wheel brake, Parking brake device	
Machine weight	ton	19.5
Ground clearance	mm	315
Minimum turning radius	mm	5300
Working altitude range	m	≤2000
Dimension	mm	11234 × 2500 × 3198

***Remark:**

The differences among HPS3016 series Shotcrete are as follow:

1. HPS3016: Two wheel steering with air compressor
2. HPS3016S: Four wheel steering with air compressor (In stock)
3. HPS3016W: Two wheel steering without air compressor

