

## Float Arm - long-reach snake manipulator

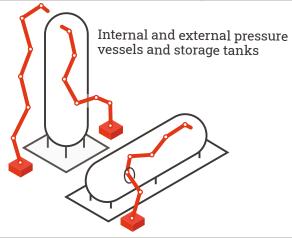
Float Arm is hibot's new snake manipulator, designed for long-reach applications in confined spaces. With hibot's proprietary snake-motion control and unique self-balancing mechanism, it is able to navigate in complex environments and acquire detailed data for inspection and maintenance.

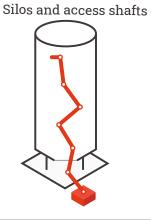
Float Arm is lightweight, fast and highly portable, making it an ideal tool for integration with other systems already in operation in the field, or simply as a stand-alone inspection device.

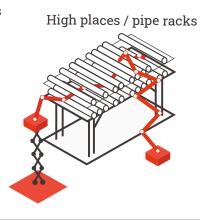


	, not included in the set
	r) and air (compressor), not incl
	generator) and a
eature available	urces of electricity (
¹ Collision Avoidance fe	<sup>2</sup> Excluding external so

	Electric Pow	rer			
Electrical rating		AC 100-240V, 50/60Hz, 10A			
Voltage tolerance		±10%			
Over-voltage		Category II (IEC 60664-1)			
Connector	IE	EC 60309 16A 250V 2P+E p	olug		
Power consumption	400W (average), 1kW (max)				
	Pneumatic Po	wer			
Input air pressure	8-10bar (800kPa-1MPa)				
Flow rate	30nL/min				
Internal pressure	7bar (700kPa)				
Control Modes					
Manual Joint Control (RPL)					
Automatic (pre-programmed)*1					
	Manual Steering (IK)*1				
	Move to Home*1 (at	utomatic)			
	Click'n'Go*¹ (auto	omatic)			
Tank Entrance*1 (semi-automatic)					
Tip Motion					
	Default speed	Max. speed	Repeatability		
Translation	50mm/s	100mm/s	±5mm (horizontal), ±10mm (vertical)		
Rotation	2.5°/s	5°/s	N/A		
Sensors					
	Location	Resolution	Zoom		
Inspection camera	End-Effector	1920x1080	30x (optical)		
Navigation camera	UT Gripper	640x480	N/A		
	End-Effector (x2)	640x480	N/A		
	Unit 3 (x2)	640x480	N/A		
	Location	Meas. range			
LiDAR	End-Effector	10cm ~ 30m			
UT probe	UT Gripper	Transd.: D791-RM; Gauge: 38DL PLUS (1mm ~ 508mm)			

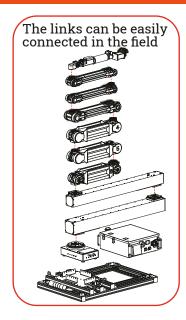


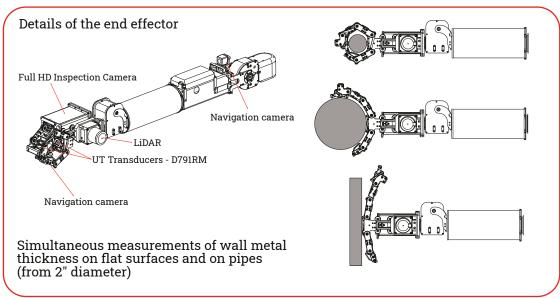




Dimensions					
	Horizontal	Vertical			
Maximum reach	7m	5m			
	Length	Width	Height		
Size when folded	1.7m	0.8m	1.6m		
Operating Conditions					
Temperature range	-10°C to 40°C				
Humidity	up to 90% at 20°C				
Wind Speed	up to 7m/s				
Altitude	up to 2,000m				
Storage temperature	-25°C to 55°C				
Pollution Degree	3, according to IEC 60664-1				
Noise Level	Less than 60dB*2				
IP Rating	65				
Applicable Directives					

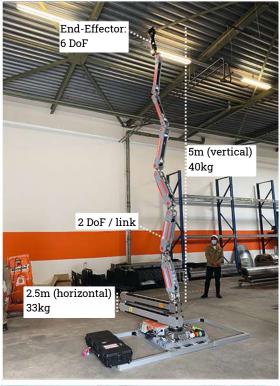
Machine Directive 2006/42/EC EMC Directive 2014/30/EU RoHS Directive 2011/65/EU





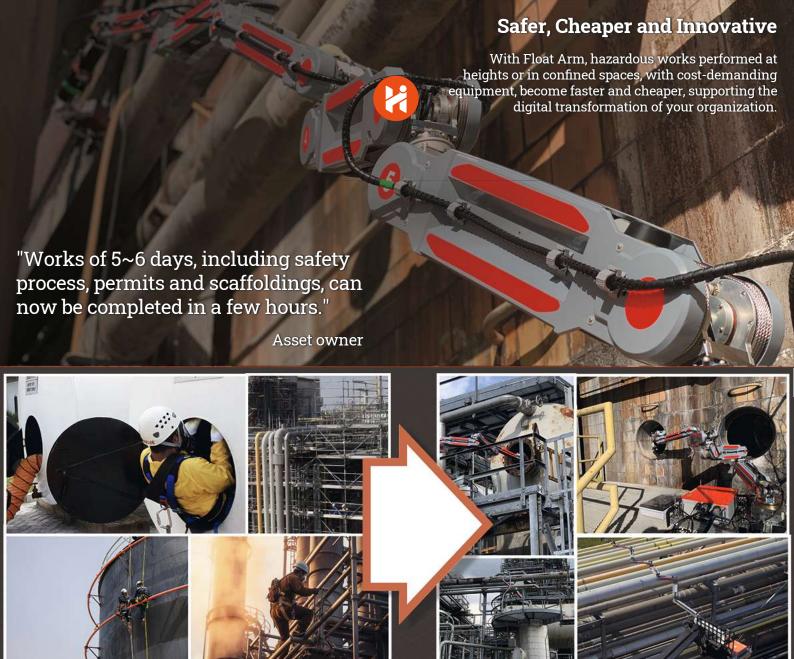
The base can be easily clamped or fixed to different lifter mechanisms, such as cherrypickers, man lifters or long booms











www.hibot.co.jp

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