# **UPS-12JT** Mining shotcrete machine

#### **Product introduction:**

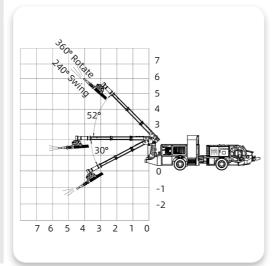
• UPS-12JT is a low and compact wet spraying machine developed for small-section mine tunnel concrete spraying operations. It is widely used in metal and non-metal mine tunnels, hydraulic tunnels, underground buildings (military and civilian), road slope wet spraying support and spraying concrete operations without explosion hazards. This machine is easy to operate, flexible, safe and reliable, with a small size, high working efficiency and less rebound.



#### **Main features:**

- The chassis adopts a hydrostatically driven engineering off-road chassis, four-wheel drive, articulated steering, wet brakes, and bidirectional driving.
- Adopts fully enclosed wet multi-disc spring brake, hydraulic release, fail-safe type brake, meets the safety requirements of mines.
- The boom is made of high-strength steel plate material, and the fully hydraulic telescopic and rotating mechanical arm has strong load-bearing capacity, stable movement, flexible operation, and no injection blind area.
- It adopts a German IFM dedicated controller, and the main electrical components are all imported Schneider or Japanese Mitsubishi brands.
- The hose pump system controlled by imported hydraulic proportional valves is intelligently synchronized according to the preset ratio, the dosage of admixtures and
- The air compressor system adopts a large-volume screw air compressor unit. During injection, the air supply of the air compressor can be adjusted steplessly on the remote control according to different injection positions, which can effectively reduce the rebound of the sprayed concrete and improve the surface quality of the sprayed
- The wet spraying machine adopts a dual power system configuration. The diesel power can retract and extend the boom and perform emergency pumping and discharging, avoiding accidental power outages or failures that may cause concrete to solidify in the concrete cylinder.

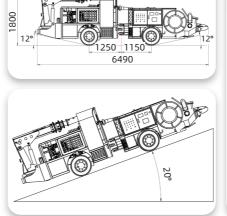
## **Working Scope:**

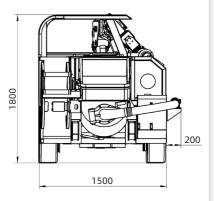


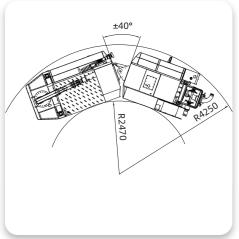
### **Technical parameters:**

Item	Parameter
Overall dimensions (L x W x H)	6490×1500×1800mm
Machine weight	7800kg
Engine rated power and speed	Yunnei 36.8kW/2200rpm
Total motor power (pumping + air compressor)	44kW (22kW+22kW)
Drive type, steering method	Closed hydrostatic four-wheel drive, articulated steering
Braking system	Driving: Hydraulic wet brake, dual-bridge independent hydraulic power-assisted dual-circuit oil-immersed multi-disc brake Parking: Closed spring brake, hydraulic release, fail-safe parking brake
Max. Driving speed	10km/h
Max. Climbing ability	20°
Min. Turning radius	Inner: 2470mm; Outer: 4250mm
Ground clearance	220mm
Actual concrete spraying capacity	12m³/h
Sprayed concrete aggregate particle size	12mm
Hopper volume	0.2m³
Hopper loading height	0.95m
Boom operation method	Dual control: 16m wired + 100m wireless remote control
Max. Effective upward spraying range	7m
Max. Effective forward spraying range	6m
Max. Effective downward spraying range	2m
Effective spraying width	12m
Air compressor rated exhaust pressure	0.5MPa
Accelerator pump type	Hose pump
Accelerator tank volume	120L
Cable specifications	3×25+1×16mm²
Cable length	50m
Tire	Mining solid tire

#### Schematic diagram:







Note: Due to different customer needs, the parameter settings may vary. Our company reserves the final right of interpretation for the above content. If you need product customization or to get a quote, please call the consultation hotline +86 15215510300 or send an email to lance@ah-jarlo.com

PAGE 15