

Remote Controlled Track Mounted Vehicle

WOMA's HYDROMATIC is a proven remote controlled manipulator rig that increases productivity and improves access and safety by removing the worker from the workface. With an expandable boom this unit is track mounted and driven by a Perkins diesel engine.

- WOMA Designed HYDROMATIC Remote Controlled track mounted vehicle specifically for use in the Alumina production, mining and refining industries.
- Main Drive— 4 cylinder Low Emission (c/w catalytic converter) Industrial Open Power Unit allows 'walking' speed travel within tanks and around refinery/mine sites.
- Can be used with a WOMA (or other) HP or UHP Pump Unit, withstanding larger reaction forces therefore facilitating large volume descale operations.
- Robust— Electrics, Hydraulics, Slew and Tracks — this units predecessors have proved its hybrid.
- Operation & maintenance training tailored to suit your requirements upon request

Main Features:

Arm/Boom — comprising 4 main sections (one fixed) with the remaining 3 sections retracting telescopically

Load Tested single lift point

Water cooled Perkins 404C-22 Low Emission Diesel Engine complete with catalytic converter

Reaction Force to suit large pump units, 1000HP

Machine mounted Emergency Stop & Remote Emergency Stop on Radio Frequency Controller.

Audible warning horn on equipment start up

Outriggers with rubber feet & operational safety interlock with manual over-ride in event of hydraulic control failure

Driving speed approx 5kph (walking speed), proportionally controlled & with travel safety interlock

Air cooled hydraulic system

System Power—24VDC with workface lighting

Lock Out Tag Out Isolator (LOTO)

Remote start of engine & throttle control

Battery saving function on remote controls & engine return to idle after preset time interval

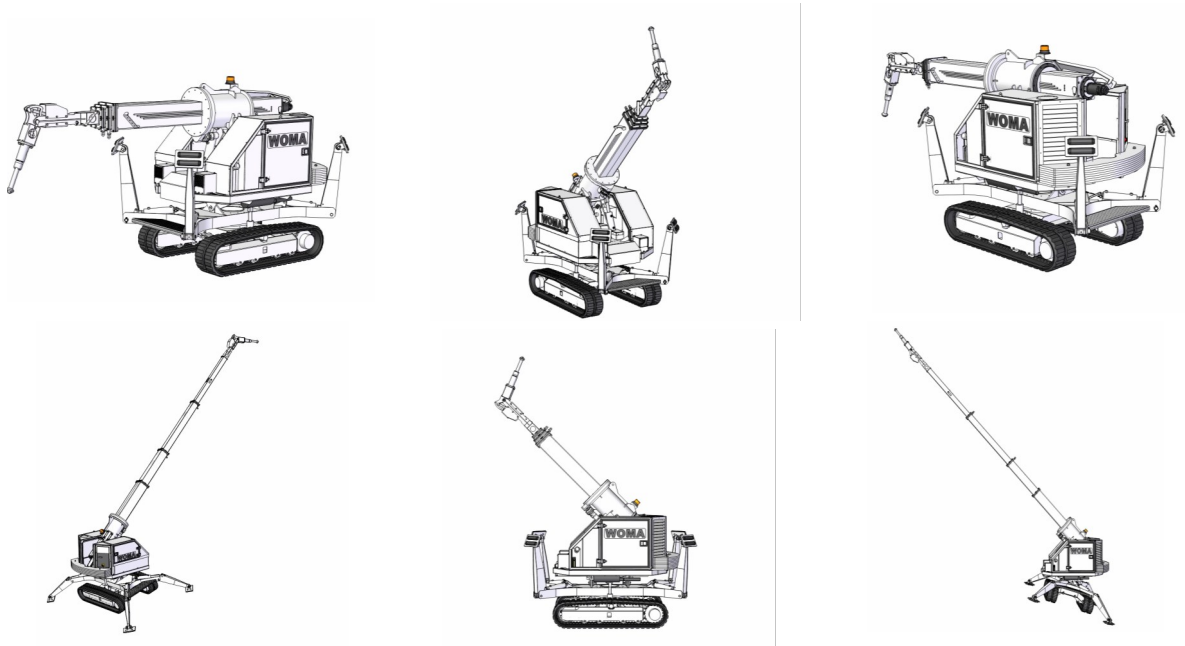
Easily removable protective covers

Engine coolant reservoir tank

Easy maintenance & extended greasing interval



Water as a tool



Specifications and General Information:

Mass	5900 kg (dry)
Arm Extension	5250mm
Full Arm Reach	8430mm
Arm Rotation	360°
Arm Luff (Lift) Angle	+45° to -10°
Nozzle Tilt	+70° to -15°
Platform Rotation (Slew)	360°
Platform Tilt	± 15°
Diesel tank capacity	125 Litres
Fuel Consumption (typical)	10 L/hr typical at rated rpm
Hydraulic tank capacity	200 Litres
Reaction Force (equivalent)	278kg mass
Machine footprint	3760mm Lg x 1870mm Wd
Track Dimensions	2110mm Lg x 1630mm Wd x 350mm (track width)
Track Speed	4.8km/hr (approx Walking speed)

Materials:

Arm/Boom	Mild steel 350 & 450 MPa
Wear Pads	Nylatron & Ertalon
Nozzle Head Carrier	High Tensile Steel

Drive:

Diesel Engine, Brand:	PERKINS
Type:	404C-22
Cooling:	Water
Engine Output:	P = 34 KW
Engine Speed:	n = 2400 rpm

Control and monitoring system with:

Control panel for automatic safety shut down and interlocks in case of critical operation conditions:

Engine Temp. max.	
Oil Pressure min.	
Hydraulic Oil Low Level	
Low Fuel Level	
Low Coolant	
Hydraulic Pressure min.	Out-Riggers
Pressure Loss Compensation	Out-rigger pressure loss interlock
Arm/Boom Retraction	Prevents travel if Arm does not fully retract
Battery Saving Remote	Turns off without use
Fuel Saver	Engine returns to idle after preset interval of no use

Note all the above is controlled by radio controlled remote control in compliance with mine site specifications.