

IS21

Concrete Spraying Machine



Robust manipulator with 10 m vertical and 8 m horizontal spraying reach



350° rotation +/-135° tilt and 8° oscillation spraying head



Titan concrete pump with casted body hopper and hydraulic vibrator



135 bar – 16 l/min high pressure washer

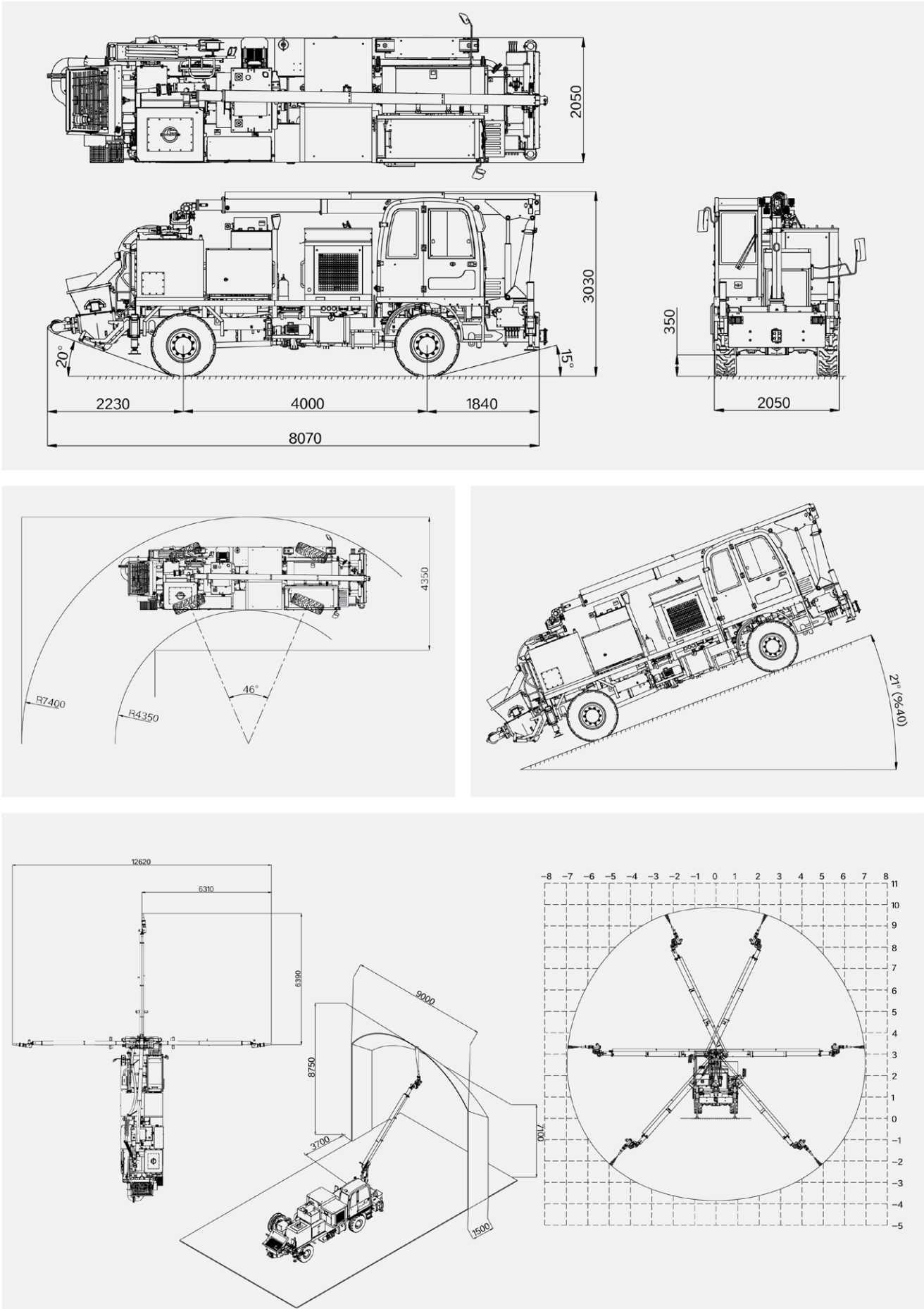


Cable or wireless remote control for all nozzle, manipulator, dosing and concrete pump functions



ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE – TURNING RADIUS – SPRAYING RANGE



DIESEL ENGINE	
Make / Model:	Deutz TCD 3.6 L4
Max. Power:	85 kW at 2300 rpm
Max. Torque:	430 Nm at 1600 rpm
Engine Emission:	EU Stage 3A / US EPA Tier 3
Diesel Tank Capacity:	80 l
	With Catalytic Converter and Silencer
TRANSMISSION	
Make / Model:	Dana Spicer T20.000
	Powershift Transmission
	Automatic and Manual 3–Speed Forward
	Manual 3–Speed Reverse
	4 Wheel Drive
AXLES & TYRES	
Make / Model:	Dana Spicer 212
Type:	Planetary
Front Axle:	+/- 8° Oscillating and Steerable
Rear Axle:	Steerable
Tires:	12.5–20 / 10–20
PERFORMANCE	
Max Gradient:	40%
Max Speed:	24.5 km/h
STEERING	
	4 Wheel Steering
	Crab Steering
	Front Wheel Steering
BRAKING SYSTEM	
Service Brake:	Hydraulically Powered Two–Circuit
	Oil–Immersed Multidisc
	Brakes In Both Axles
Safety/Parking Brake:	Spring Applied,
	Hydraulic Release (Sahr)
	Fail–Safe
CHASSIS	
Type:	Rigid, High Strength Steel Chassis
Stabilizers:	2 Pcs At Front, Extendible
	2 Pcs At Rear, Fixed

HYDRAULIC SYSTEM	
Pump Type:	Fixed and Variable Displacement
Max. Pressure:	210 bar
Flow Rate:	290 l/min at 1450 rpm (Electric)
	75 l/min at 2300 rpm (Diesel)
Hydraulic Oil Tank:	325 l
Return Oil Filter:	25 µm
	Oil Level, Temperature Indicators
ELECTRIC SYSTEM	
Battery:	24V – 2 x (12V 105Ah)
Protection:	IP65
Working Lights:	
	Front Bumper 2 x 1800 Lumens Led Lights
	Operator Cabin 2 x 1800 Lumens Led Lights
	Rear Bumper 2 x 1800 Lumens Led Lights
	On Boom 4 x 1800 Lumens Led Lights
	Back Of Machine 3 x 1800 Lumens Led Lights
	Turn Signals
Panel Type:	Stainless Steel
Beacon Light:	Amber Color
TITAN CLOSED OPERATOR CABIN	
	▪ Closed 1–Person Cabin ▪ ROPS & FOPS Level 2 Certified (EN ISO 3471/ EN ISO 3449) ▪ Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt ▪ Rear View Camera and LCD Screen In Operator Cabin ▪ Levers and Indicators for All Driving Controls ▪ In–Cabin Radio Output and Location (12V) ▪ Heated Windshield and Wing Mirrors ▪ Cabin Lighting ▪ In–Cabin Heater
DIMENSIONS & WEIGHT	
Weight:	11,600 kg (Approx.)
Length:	8.070 mm
Width:	2.050 mm
Height:	3.030 mm
Inner Turning Radius:	4.350 mm
Outer Turning Radius:	7.400 mm

ACCESSORIES	
▪ Warning Plates And Decals	
▪ Tool Box	
▪ 2 X 4 Kg Portable Fire Extinguisher	
▪ 2 Pcs Wheel Chocks	
▪ Front Towbar	
▪ Battery Isolator Switch	
▪ Back-Up Alarm And Light	
MANIPULATOR	
Vertical Max. Reach:	10 m
Horizontal Max. Reach:	8 m
SPRAYING HEAD	
Rotation:	350°
Tilt:	135°
Oscillation:	8°
CONCRETE PUMP	
Make / Model:	Titan Hydraulic Driven Double Cylinder Pump
Max. Capacity:	34 m ³ / h (Theoretical)
Concrete Cylinder:	180 x 1000 mm
Max. Concrete Pressure:	50 bar
Hopper Volume:	250 l
▪ Hopper Grid with Vibrator	
▪ Hydraulically Controlled Bottom Cover	
▪ Concrete Pipeline Diameters:	5" – 4" – 3"
POWER UNIT	
▪ 1470 rpm Electric Motor	
▪ 55 kW – 400V – 50Hz – IP55	
CABLE REEL	
Drive:	Hydraulic
Power:	400 V 50 Hz
Cable Length:	50 m
Cable Cross Section:	3 x 70 mm ² +1x 35 mm ²
COMPRESSOR	
Make:	Ekomak
Model:	Electric Rotary Screw Compressor
Power:	55 kW
Max. Air Flow Rate:	10,2 m ³ / min
Max. Operating Pressure:	6 bar
Cooling Fan Motor:	1,1kW
REMOTE CONTROL (WIRED)	
Features:	
▪ Nozzle and Manipulator Movements	

▪ Nozzle Oscillation	
▪ Air Line On/Off	
▪ Dosing On/Off	
▪ Dosing Flow Adjustment	
▪ Pump Suction/Discharge	
▪ Emergency Stop	
▪ Horn	
DOSING SYSTEM	
Model:	Electric Peristaltic Hose Pump
Power:	1,5 kW
Max. Flow Rate:	600 l/h
Operating Pressure:	8 bar
Additive Tank:	1000 l
HIGH PRESSURE WASHING SYSTEM	
Pump Drive:	Hydraulic
Pressure:	135 bar
Flow Rate:	16 l/min
Hose Length:	10 m
Water Tank:	240 l
OTHER	
▪ Centralized Greasing System	
OPTIONS	
▪ CANBus	
▪ Automatic Lubrication System	
▪ Automatic And Manual Activated Fire Extinguishing System (Linear Wired)	
▪ Hydraulic Power Unit (Emergency Steering)	
▪ Pump For Oil Filling (Hydraulic, Transmission, And Engine)	
▪ Air-Conditioned Cabin With Heating And Cooling	
▪ Electrical Outlet In The Cabin (220 V – 150 W)	
▪ Wi-Fi Data Logging And Transfer	
▪ DVR Video Recording Device	
▪ Front Windshield Protection	
▪ Additional View Camera	
▪ Spare Wheel (Rim And Tire)	
▪ Manual Jack	
▪ Double-Walled Exhaust Pipes	
▪ Diesel Particulate Filter (DPF)	
▪ Stage V Engine	
▪ PLC Concrete and Dosage Control System	
▪ PLC Concrete and Dosage Monitoring System	
▪ Radio Frequency Remote Control	
▪ Caliper Braking System	
▪ 2 nd Seat in Cabin	