

Titan

UNDERGROUND MINING
UTILITY VEHICLES

UNDERGROUND MINING UTILITY VEHICLES



Titan

Titan has its own production facilities to manufacture Underground Mining and Civil Tunnelling machinery such as: Concrete Spraying Machines, Underground Drilling Rigs, Dumper Trucks, Concrete Transmixers, Concrete Pumps, Personnel Carriers, ANFO Charging Vehicles, Crane Trucks, Scissor Lifts and Basket Boom Trucks. All intended to use in underground mines and civil tunnel projects, as well as slope stabilization and dam construction works.

We are the major local supplier for this kind of machinery in Turkey. And they are used in many underground mines in Turkey, including Canadian owned underground mines. The main reasons for our machines to be selected by these mines are **powershift transmission and ROPS & FOPS Level 2 certification.**

Besides Turkey, our machines are used in **Serbia, Bosnia - Herzegovina, Montenegro, Croatia, Albania, Slovenia, Ukraine, South Korea, Israel, Ireland, Algeria, Iraq, Georgia, Chile, Australia, Ghana, India, Russia, Jordan, Bulgaria, Saudi Arabia, Liberia, Burkina Faso, Tanzania** in civil construction or underground mining projects.

Titan

BIS20

CONCRETE SPRAYING MACHINE



BKS9

CONCRETE SPRAYING MACHINE
(DRY-MIX)



BYM6.0

CONCRETE TRANSMIXER



BYM4.5

CONCRETE TRANSMIXER



BTM6

CONCRETE AGITATOR



BAC2X350

ANFO CHARGER TRUCK



BEC100

EMULSION CHARGER TRUCK



BKPT7

MATERIAL TRANSPORTER



TITAN UNDERGROUND MINING UTILITY VEHICLES

BK05

FRONT BASKET TRUCK



BMP2X3

SCISSOR LIFT



BVK05

CRANE TRUCK



BHA3

CASSETTE SYSTEM UTILITY VEHICLE



BIA100

FUEL AND LUBE TRUCK



BPT24

PERSONNEL CARRIER



HG16

CONVEYOR BELT MAINTENANCE TRUCK



BIS20

CONCRETE SPRAYING MACHINE



Titan concrete pump with casted body and hydraulic vibrator



Spraying head with 350° rotation, +/-135° tilt and 8° oscillation



Control panel for manipulator and stabilizers



ROPS & FOPS level 2 certified closed 1-person cabin

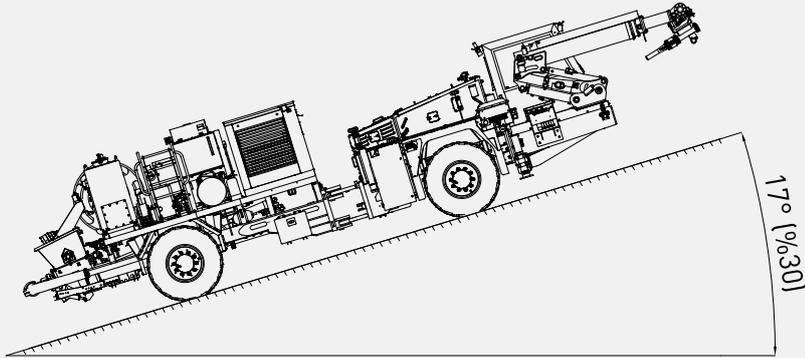
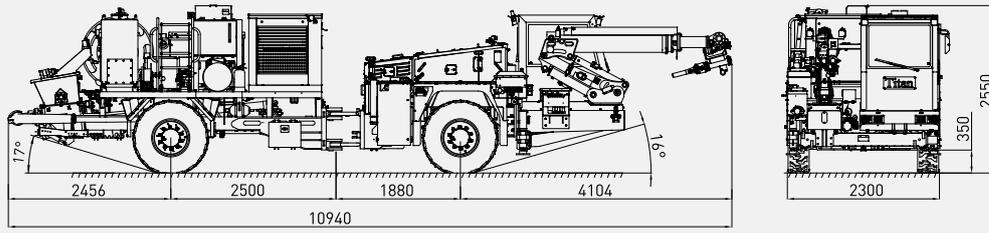


Rear view camera and LCD screen in operator cabin

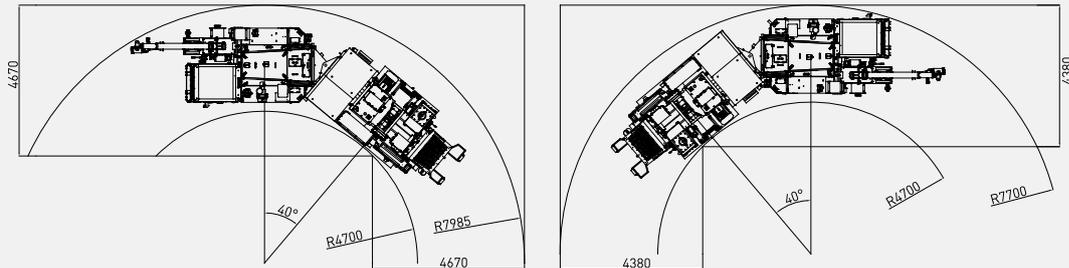


High strength articulated chassis

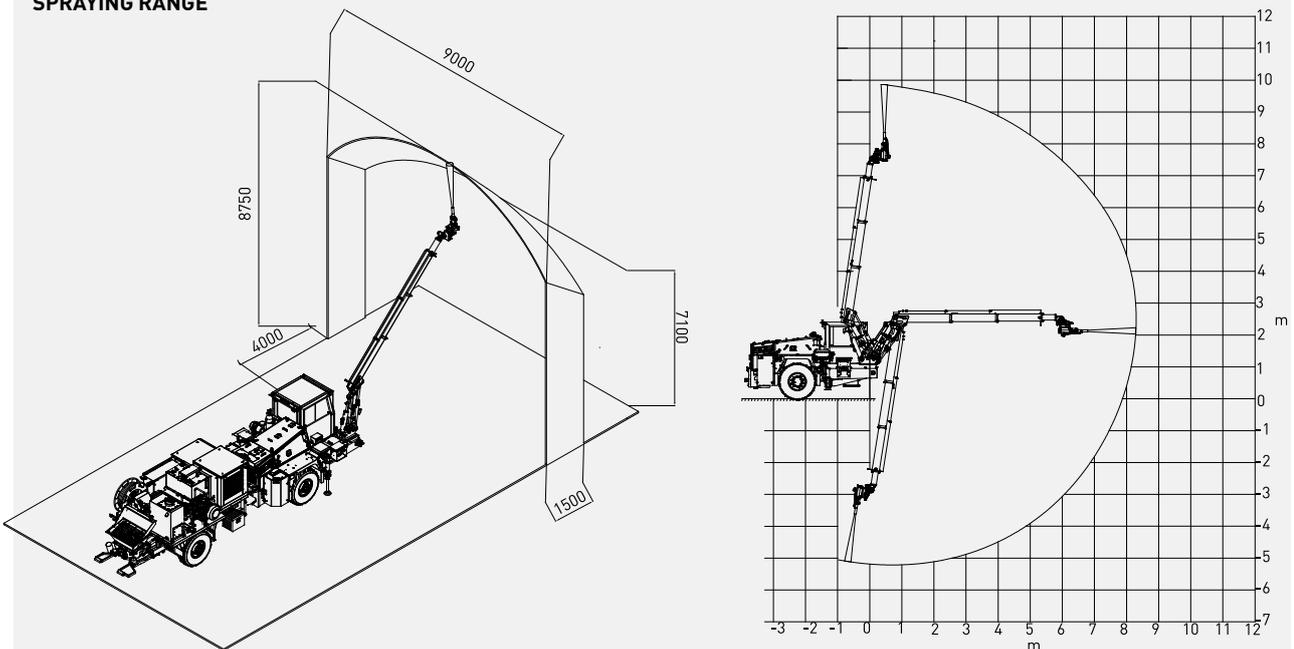
DIMENSIONS & PERFORMANCE



TURNING RADIUS



SPRAYING RANGE



TECHNICAL SPECIFICATIONS

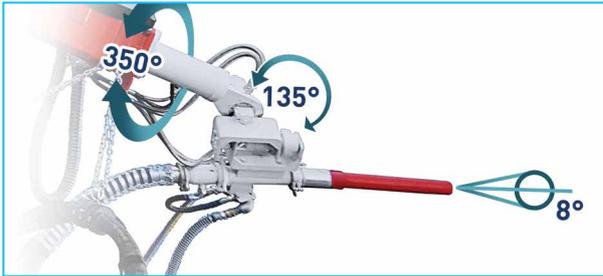
| | |
|--|---|
| DIESEL ENGINE | |
| Make / Model: | Deutz TCD 2013 L4 2V |
| Max. Power: | 129 kW at 2300 rpm |
| Max. Torque: | 670 Nm at 1600 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | Dana Spicer T24000 |
| Powershift | |
| Automatic 3-speed forward and reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | Dana Spicer 113 |
| Type: | Planetary |
| Front: | +/- 8° Oscillating |
| Rear: | Rigid |
| Tyres: | 12.00 – 20 |
| PERFORMANCE | |
| Max. Gradient: | 30% |
| Max. Speed: | 24.5 km/h |
| Max. Tractive Effort: | 122 kN |
| STEERING | |
| Articulation, +/- 40° | |
| Orbitrol Type | |
| BRAKING SYSTEM | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR |
| Fail safe | |
| CHASSIS | |
| Type: | Articulated, high strength steel |
| Stabilizers: | 2 pcs, extendible |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 290 l/min at 1450 rpm |
| | 125 l/min at 2300 rpm (Diesel) |
| Hydraulic Oil Tank: | 325 l |
| Return Oil Filter: | 20 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 24 V – 2 x 105 Ah |
| Protection: | IP65 |
| Lights: | 4 x 1500 Lumen Led in front of the operator cabin |
| | 2 x 1500 Lumen Led behind of the operator cabin |
| | 2 x 1500 Lumen Led at bumper |
| | 2 x 1500 Lumen Led on boom |
| | 1 x 1500 Lumen Led on hopper |
| | Turn signals and taillights |
| Box Type: | Stainless steel |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt (Forward tilting system) • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box • Transparent protection plate on the windshield | |
| DIMENSIONS & WEIGHT | |
| Weight: | 16500 kg (Approximately) |
| Length: | 10940 mm |
| Width: | 2300 mm |
| Height: | 2550 mm |
| Inner Turning Radius: | 4700 mm |
| Outer Turning Radius: | 7985 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery isolator switch | |
| MANIPULATOR | |
| Max. Spray Reach at Vertical: | 9.8 m |
| Max. Spray Reach at Horizontal: | 8.3 m |

| | |
|---------------------------------|---|
| SPRAYING HEAD | |
| Rotation: | 350° |
| Tilt: | +/- 135° |
| Oscillation: | 8° |
| CONCRETE PUMP | |
| Make / Model: | Titan hydraulically driven double piston pump |
| Max. Capacity: | 34 m³/h (Theoretical) |
| Concrete Cylinder: | 180 x 1000 mm |
| Max. Concrete Pressure: | 50 bar |
| Max. Hydraulic Pressure: | 210 bar |
| Hopper Volume: | 250 l |
| Concrete Line Diameter: | 5" – 4" – 3 1/4" |
| | Hydraulic vibrator on hopper grate |
| | Hydraulically controlled shutter at bottom (hopper flush) |
| POWER PACK | |
| | <ul style="list-style-type: none"> • 1470 rpm Electric motor • 55kW – 400V – 50Hz – IP55 • Diesel engine PTO driven hydraulic system for cleaning against power cut |
| CABLE REEL | |
| Drive: | Hydraulic |
| Power: | 400 V 50 Hz |
| Cable Length: | 50 m |
| Cable Cross Section: | 3 x 70 mm² + 1 x 35 mm² |
| | 3 x 70 mm² + 3 x 16 mm² (Option) |
| | Stainless collector box |
| CABLE REMOTE CONTROL | |
| Type: | Cable |
| Cable Length: | 15 m |
| Specifications: | <ul style="list-style-type: none"> • All nozzle and manipulator movements • Nozzle oscillation • Air line on/off • Dosing on/off • Dosing flow rate adjustment • Concrete pumping/reverse • Emergency stop • Horn |

| | |
|-------------------------------------|--|
| COMPRESSOR | |
| Make: | Ekomak |
| Type: | Electric screw compressor |
| Power: | 55 kW |
| Max. Air Flow: | 10.2 m³/min |
| Max. Working Pressure: | 6 bar |
| Cooling Fan Motor: | 1.1 kW |
| DOSING SYSTEM | |
| Type: | Frequency convertor controlled electric driven piston pump |
| Power: | 1.5 kW |
| Max. Flow Rate: | 600 l/h |
| Max. Working Pressure: | 8 bar |
| Additive Tank: | 500 l (Stainless) |
| | Stainless steel additive line |
| HIGH PRESSURE WASHING SYSTEM | |
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flow Rate: | 16 l/min |
| Hose Length: | 10 m |
| Water Tank: | 75 l |
| OTHER | |
| | <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS | |
| | <ul style="list-style-type: none"> • Automatic centralized lubrication system • Electrical outlet in the cabin 220 Volt - 150 Watt • Air-conditioner (Heating and Cooling) in the cabin • Wireless remote control • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • PLC Concrete and dosage control system • PLC Concrete and dosage monitoring system • Placing rubber on the cabin roof to protect against corrosion from rebound deposition (Standards B33) • High pressure wall washing kit (water scaler) • 24 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Additional side view camera • Form oil system • Spare wheel |

BKS9

CONCRETE SPRAYING MACHINE (DRY-MIX)



Spraying head with 350° rotation, +/-135° tilt and 8° oscillation



6-9 m³/h dry mix concrete pump



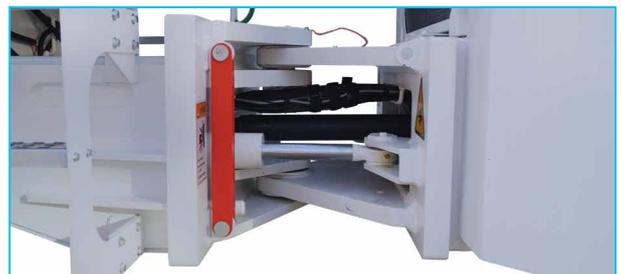
4 m³ bunker volume



135 bar high pressure washing system

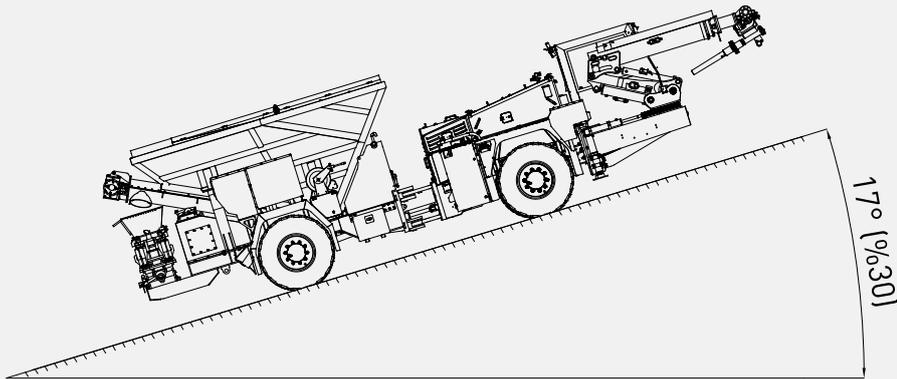
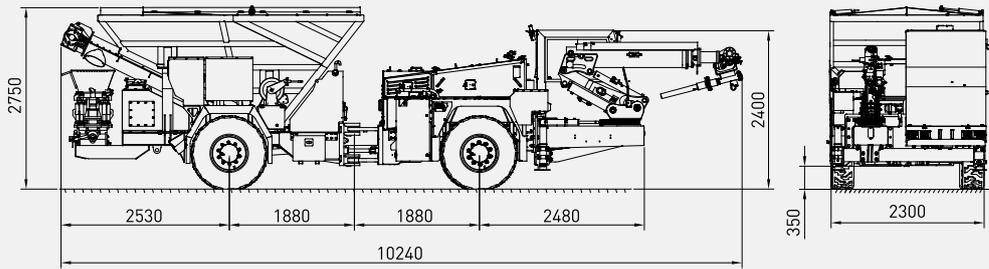


Rear view camera and LCD screen in operator cabin

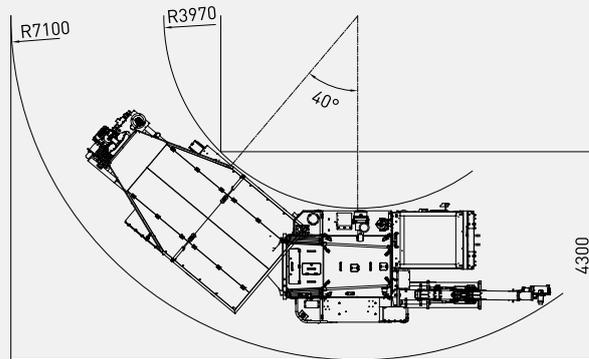


High strength articulated chassis

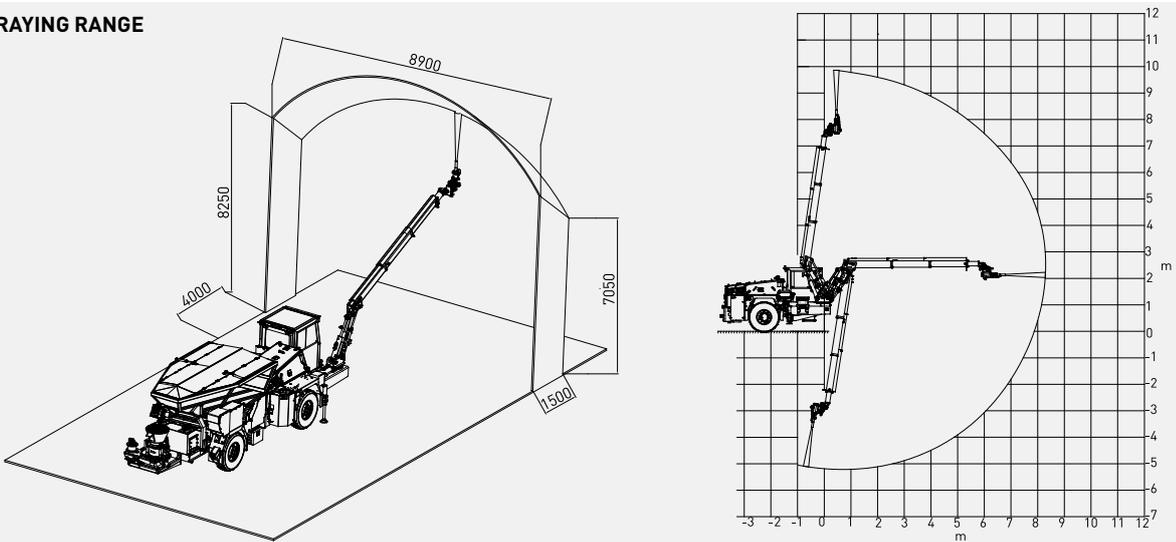
DIMENSIONS & PERFORMANCE



TURNING RADIUS



SPRAYING RANGE



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|--|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 4 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind of the operator cabin |
| Diesel Tank: | 140 l | | 2 x 1500 Lumen Led lights on rear bumper |
| | With Catalytic Converter and Silencer | | 2 x 1500 Lumen Led at bumper |
| | | | 2 x 1500 Lumen Led on boom |
| | | | 1 x 1500 Lumen Led on bunker |
| | | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | | |
| | Automatic 3-speed forward and reverse | | |
| | Four-wheel drive | | |
| AXLES & TYRES | | TITAN CLOSED OPERATOR CABIN | |
| Make / Model: | Dana Spicer 113 | <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt (Forward Tilting System) • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box • Transparent protection plate on the windshield | |
| Type: | Planetary | | |
| Front: | +/- 8° Oscillating | | |
| Rear: | Rigid | | |
| Tyres: | 12.00 – 20 | | |
| PERFORMANCE | | DIMENSIONS & WEIGHT | |
| Max. Gradient: | 30% | Weight: | 16000 kg (Approximately) |
| Max. Speed: | 24.5 km/h | Length: | 10240 mm |
| Max. Tractive Effort: | 122 kN | Width: | 2300 mm |
| | | Height: | 2750 mm |
| | | Inner Turning Radius: | 3970 mm |
| | | Outer Turning Radius: | 7100 mm |
| STEERING | | MISCELLANEOUS | |
| | Articulation, +/- 40° | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery isolator switch | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| Stabilizers: | 2 pcs, extendible | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 165 l/min at 1200 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 20 µm | | |
| | Oil level, filtration and temperature indicators | | |

| ELECTRIC SYSTEM | |
|--|---|
| Battery: | 24 V – 2 x 105 Ah |
| Protection: | IP65 |
| Lights: | 4 x 1500 Lumen Led in front of the operator cabin 2 x 1500 Lumen Led behind of the operator cabin 2 x 1500 Lumen Led lights on rear bumper 2 x 1500 Lumen Led at bumper 2 x 1500 Lumen Led on boom 1 x 1500 Lumen Led on bunker Turn signals and taillights |
| Box Type: | Stainless steel |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt (Forward Tilting System) • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box • Transparent protection plate on the windshield | |
| DIMENSIONS & WEIGHT | |
| Weight: | 16000 kg (Approximately) |
| Length: | 10240 mm |
| Width: | 2300 mm |
| Height: | 2750 mm |
| Inner Turning Radius: | 3970 mm |

| Outer Turning Radius: | 7100 mm |
|--|------------------------------------|
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery isolator switch | |
| MANIPULATOR | |
| Max. Spray Reach at Vertical: | 9.8 m |
| Max. Spray Reach at Horizontal: | 8.3 m |
| SPRAYING HEAD | |
| Rotation: | 350° |
| Tilt: | +/- 135° |
| Oscillation: | 8° |
| DRY CONCRETE PUMP | |
| Capacity: | 6-9 m ³ / h at 1450 rpm |
| Max. Concrete Pressure: | 8-10 bar |
| BUNKER | |
| Bunker Volume: | 4 m ³ |
| Covers: | Hydraulic cylinder double covers |
| SPIRAL | |
| Max. Speed: | 7.5 - 15 rpm |
| Drive: | Hydraulic reducer |
| CABLE REMOTE CONTROL | |
| Specifications: | |
| <ul style="list-style-type: none"> • All nozzle and manipulator movements • Nozzle oscillation • Air line on/off • Dosing on/off • Dosing flow rate adjustment • Pumping on/off and flow rate adjustment | |

BYM6.0

CONCRETE TRANSMIXER



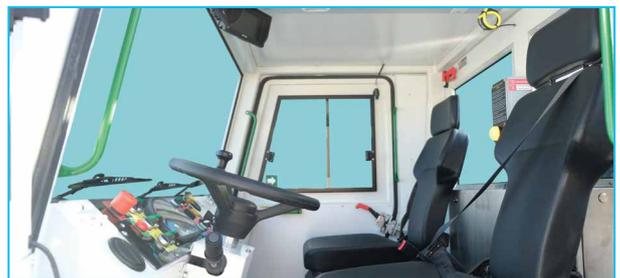
5.6 m³ concrete yield
220 l stainless steel admixture tank (optional)



Hydraulically controlled shutter and chute



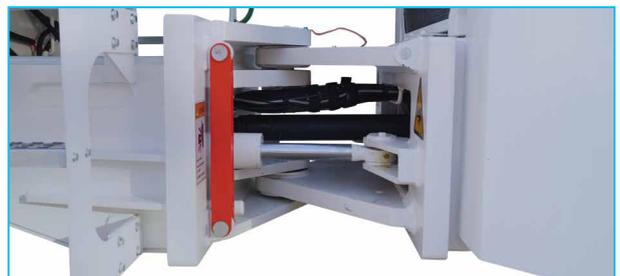
0-18 rpm adjustable rotating speed



ROPS & FOPS level 2 certified closed 2-person cabin

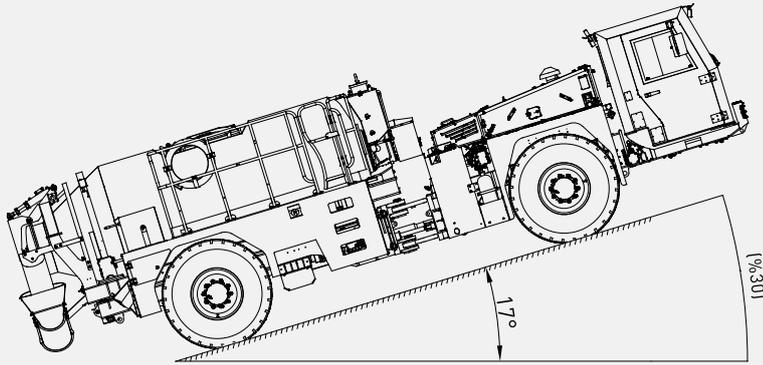
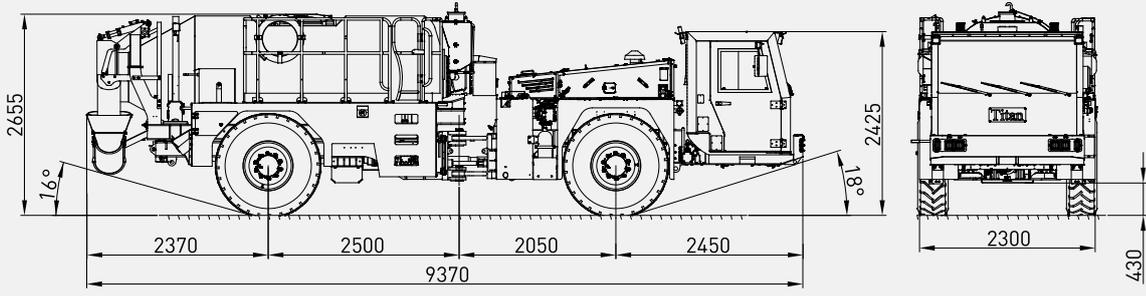


Rear view camera and LCD screen in operator cabin

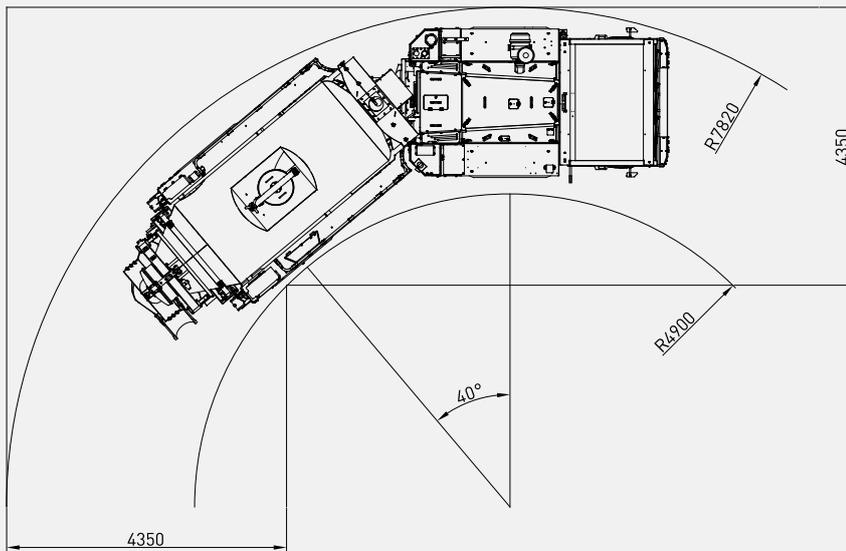


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|----------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2012 L6 | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 155 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 810 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | 2 x 1500 Lumen Led on the hopper saddle |
| | | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T32000 | Beacon Lamp: | Amber color |
| | Powershift | | |
| | Automatic 3-speed forward and reverse | TITAN CLOSED OPERATOR CABIN | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| AXLES & TYRES | | | |
| Make / Model: | Dana Spicer 113 | | |
| Type: | Planetary | | |
| Front: | +/- 8° Oscillating | | |
| Rear: | Rigid | | |
| Tyres: | 14.00 – 24 | | |
| PERFORMANCE | | | |
| Max. Gradient: | 30% | | |
| Max. Speed: | 18.5 km/h | | |
| Max. Tractive Effort: | 165 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | DIMENSIONS & WEIGHT | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | Weight: | 14500 kg (Approximately) |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | Max. Weight: | 28000 kg (Approximately) |
| | Fail safe | Length: | 9370 mm |
| Electromagnetic Retarder: | 4 stage | Width: | 2300 mm |
| | | Height: | 2655 mm |
| CHASSIS | | Inner Turning Radius: | 4900 mm |
| Type: | Articulated, high strength steel | Outer Turning Radius: | 7820 mm |
| HYDRAULIC SYSTEM | | MISCELLANEOUS | |
| Pump Type: | Fixed and variable displacement | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 170 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

| CONCRETE DRUM | |
|--|---------------------------|
| Drum Volume: | 7.1 m ³ |
| Max. Concrete Yield: | 5.6 m ³ |
| Drive: | Hydraulic |
| Reducer with Break: | Hydraulic |
| Drum Tilt Angle: | 10° |
| Adjustable Rotating Speed: | 0-18 rpm |
| Control Panel: | Operator side (Left rear) |
| <ul style="list-style-type: none"> • Drum safety lock for filling • Manual filling hatch • Hydraulically controlled shutter and chute • Hopper breaking system • Hopper chassis lock system • Concrete drain cover | |
| HIGH PRESSURE WASHER | |
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flow: | 16 l/min |
| Hose Length | 13 m |
| Water Tank: | 75 l |

| OTHER |
|--|
| <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS |
| <ul style="list-style-type: none"> • Automatic centralized lubrication system • Electrical outlet in the cabin 220 Volt - 150 Watt • Air-conditioner (Heating and Cooling) in the cabin • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • Form oil system • Stainless steel admixture tank (220 l) • 24 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Additional side view camera • Spare wheel |

BYM4.5

CONCRETE TRANSMIXER



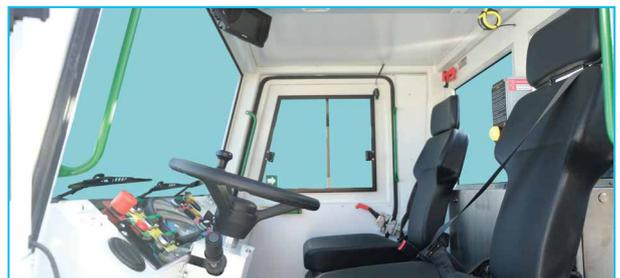
4.5 m³ concrete yield



Hydraulically controlled shutter and chute



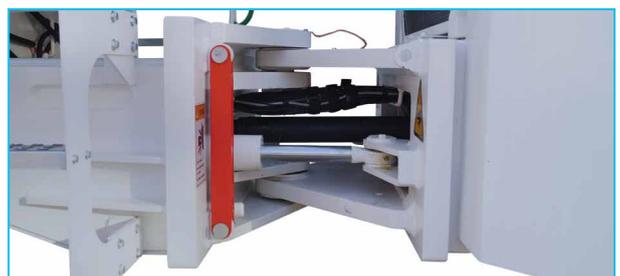
0-18 rpm adjustable rotating speed.



ROPS & FOPS level 2 certified closed 2-person cabin

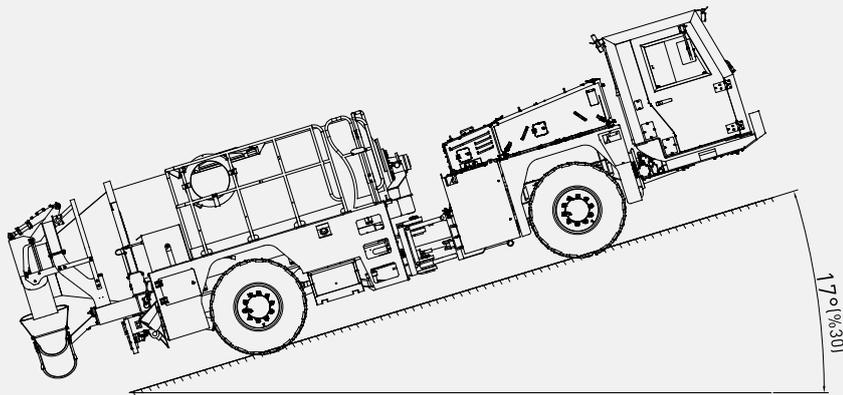
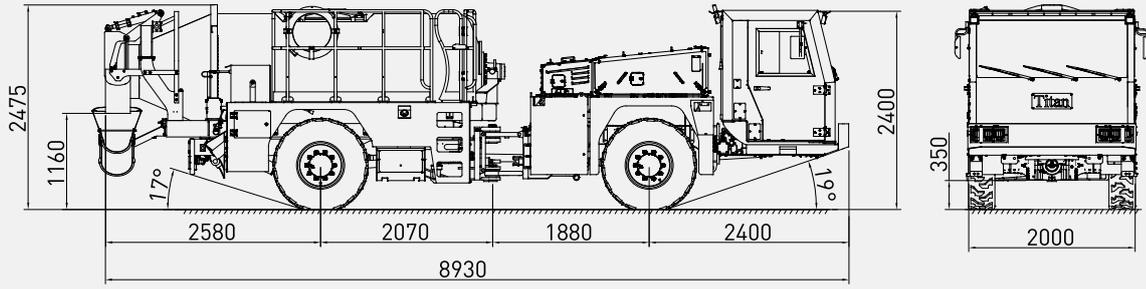


Rear view camera and LCD screen in operator cabin

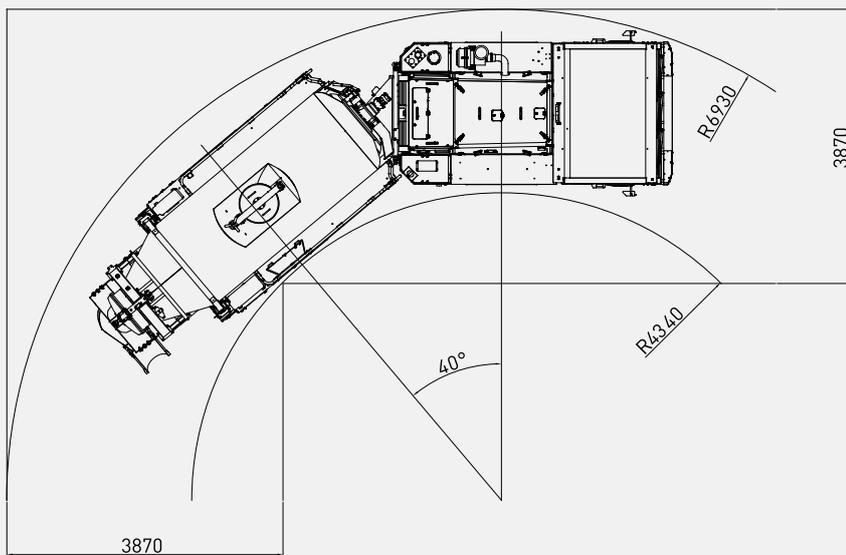


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



BYM4.5

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|--|
| DIESEL ENGINE | |
| Make / Model: | Deutz TCD 2013 L4 2V |
| Max. Power: | 129 kW at 2300 rpm |
| Max. Torque: | 670 Nm at 1600 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 150 l |
| | With Catalytic Converter and Silencer |
| TRANSMISSION | |
| Make / Model: | Dana Spicer T24000 |
| | Powershift |
| | Automatic 3-speed forward and reverse |
| | Four-wheel drive |
| AXLES & TYRES | |
| Make / Model: | Dana Spicer 113 |
| Type: | Planetary |
| Front: | +/- 8° Oscillating |
| Rear: | Rigid |
| Tyres: | 12.00 – 20 |
| PERFORMANCE | |
| Max. Gradient: | 30% |
| Max. Speed: | 24.5 km/h |
| Max. Tractive Effort: | 122 kN |
| STEERING | |
| | Articulation, +/- 40° |
| | Orbitrol Type |
| BRAKING SYSTEM | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR |
| | Fail safe |
| CHASSIS | |
| Type: | Articulated, high strength steel |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 180 l/min at 2300 rpm |
| Hydraulic Oil Tank: | 150 l |
| Return Oil Filter: | 25 µm |
| | Oil level, filtration and temperature indicators |
| ELECTRIC SYSTEM | |
| Battery: | 24 V – 2 x 105 Ah |
| Protection: | IP65 |
| Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| | 2 x 1500 Lumen Led behind the operator cabin |
| | 2 x 1500 Lumen Led at bumper |
| | 2 x 1500 Lumen Led on the hopper saddle |
| | Turn signals and taillights |
| Box Type: | Stainless steel |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| | <ul style="list-style-type: none">• Closed 2-person cabin• ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point 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)• Cabin lighting• Heated wing mirrors• Document box under the seat• Equipment box |
| DIMENSIONS & WEIGHT | |
| Weight: | 12800 kg (Approximately) |
| Max. Weight: | 23600 kg (Approximately) |
| Length: | 8930 mm |
| Width: | 2000 mm |
| Height: | 2475 mm |
| Inner Turning Radius: | 4340 mm |
| Outer Turning Radius: | 6930 mm |
| MISCELLANEOUS | |
| | <ul style="list-style-type: none">• Warning plates and decals• Tool box• 2x4 kg portable fire extinguisher• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery isolator switch |

| CONCRETE DRUM | |
|--|---------------------------|
| Drum Volume: | 5.6 m ³ |
| Max. Concrete Yield: | 4.5 m ³ |
| Drive: | Hydraulic |
| Reducer with Break: | Hydraulic |
| Drum Tilt Angle: | 13° |
| Adjustable Rotating Speed: | 0-18 rpm |
| Control Panel: | Operator side (Left rear) |
| <ul style="list-style-type: none"> • Drum safety lock for filling • Manual filling hatch • Hydraulically controlled shutter and chute • Hopper breaking system • Hopper chassis lock system • Concrete drain cover | |
| HIGH PRESSURE WASHER | |
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flow: | 16 l/min |
| Hose Length | 13 m |
| Water Tank: | 75 l |

| OTHER |
|--|
| <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS |
| <ul style="list-style-type: none"> • Automatic centralized lubrication system • Electrical outlet in the cabin 220 Volt - 150 Watt • Air-conditioner (Heating and Cooling) in the cabin • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • Form oil system • Electromagnetic retarder • 24 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Additional side view camera • Spare wheel |

BTM6

CONCRETE AGITATOR



6 m³ concrete yield



135 bar high pressure washing system



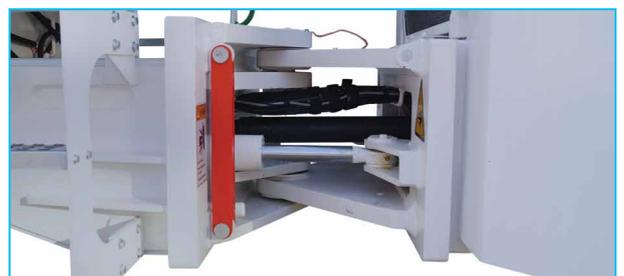
Control panel for drum rotation



ROPS & FOPS level 2 certified closed 2-person cabin

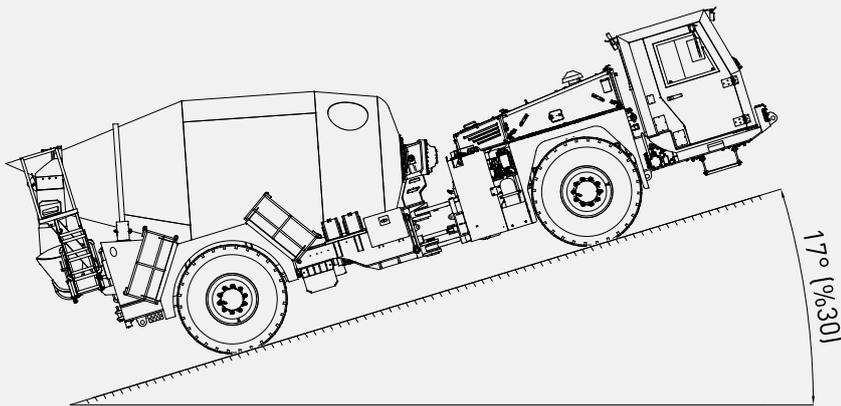
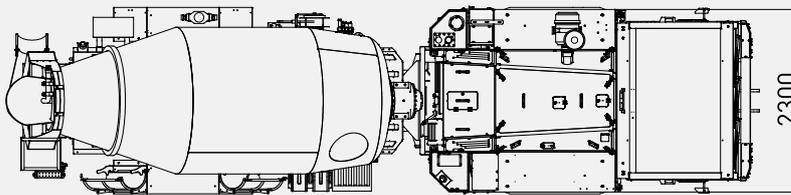
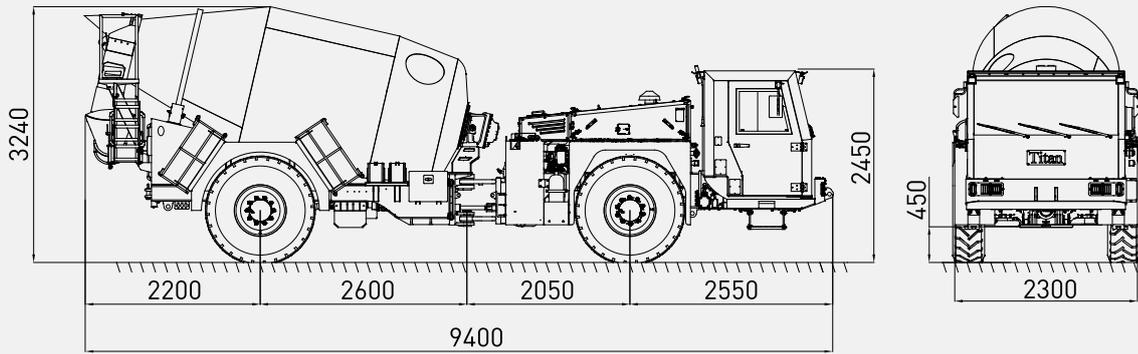


Rear view camera and LCD screen in operator cabin

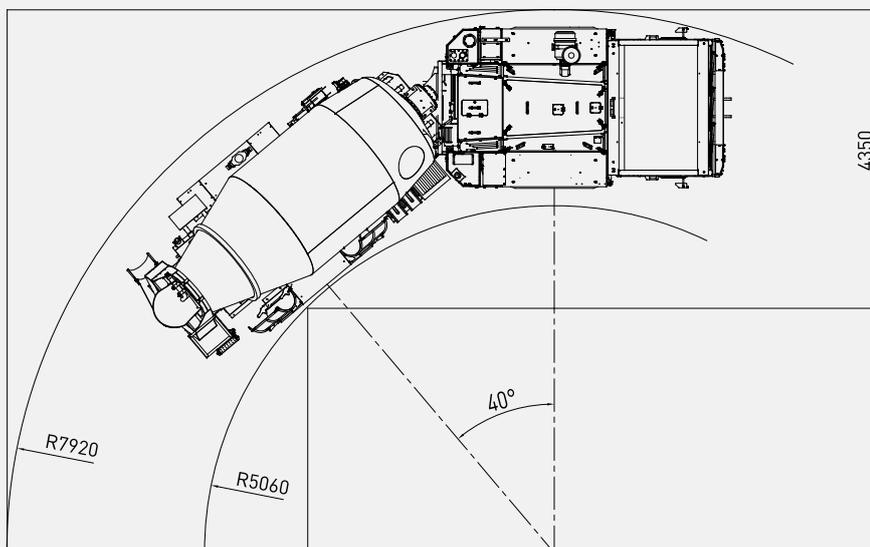


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|----------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2012 L6 | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 155 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 810 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at back of the vehicle |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T32000 | Beacon Lamp: | Amber color |
| | Powershift | TITAN CLOSED OPERATOR CABIN | |
| | Automatic 3-speed forward and reverse | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| | Four-wheel drive | DIMENSIONS & WEIGHT | |
| AXLES & TYRES | | Weight: | 13800 kg (Approximately) |
| Make / Model: | Dana Spicer 113 | Max. Weight: | 28800 kg (Approximately) |
| Type: | Planetary | Length: | 9400 mm |
| Front: | +/- 8° Oscillating | Width: | 2300 mm |
| Rear: | Rigid | Height: | 3240 mm |
| Tyres: | 14.00 – 24 | Inner Turning Radius: | 5060 mm |
| PERFORMANCE | | Outer Turning Radius: | 7920 mm |
| Max. Gradient: | 30% | MISCELLANEOUS | |
| Max. Speed: | 18.5 km/h | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| Max. Tractive Effort: | 165 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | | |
| | Fail safe | | |
| Electromagnetic Retarder: | 4 stage | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 170 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

BAC2X350

ANFO CHARGER TRUCK



ANFO tank options 2 x 250 / 350 / 500 l



1590 x 790 mm, 500 kg lifting capacity basket



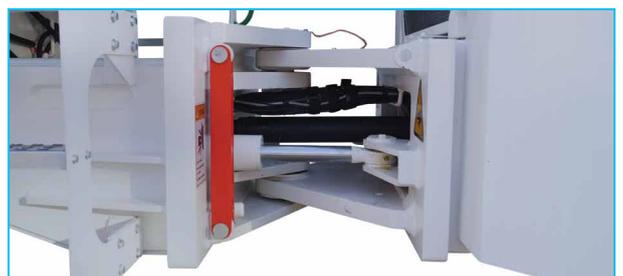
Hydraulically driven ANFO hose reel



ROPS & FOPS level 2 certified closed 2-person cabin

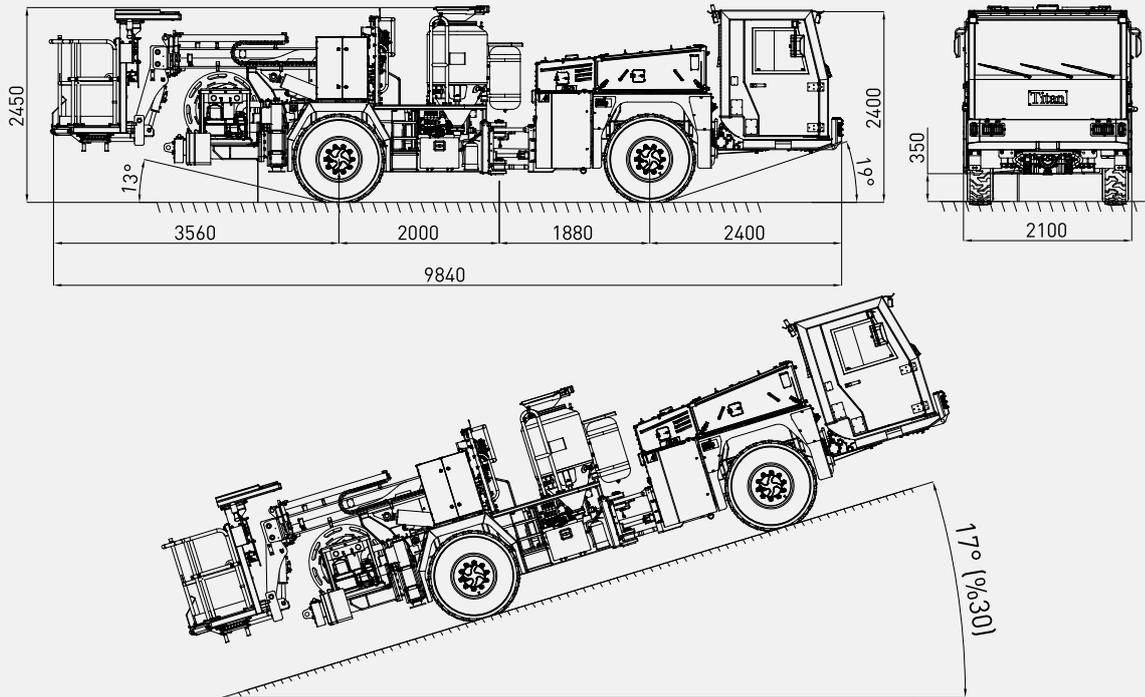


Rear view camera and LCD screen in operator cabin

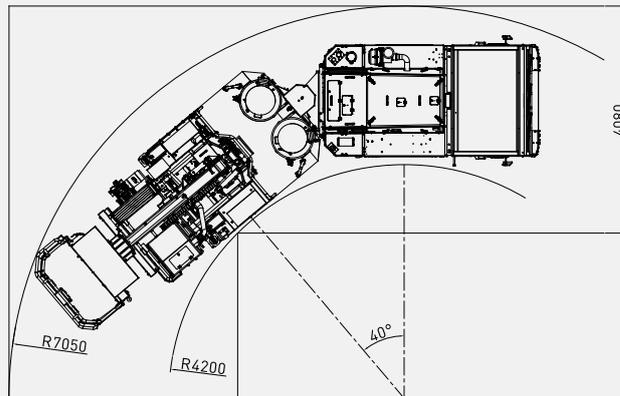


High strength articulated chassis

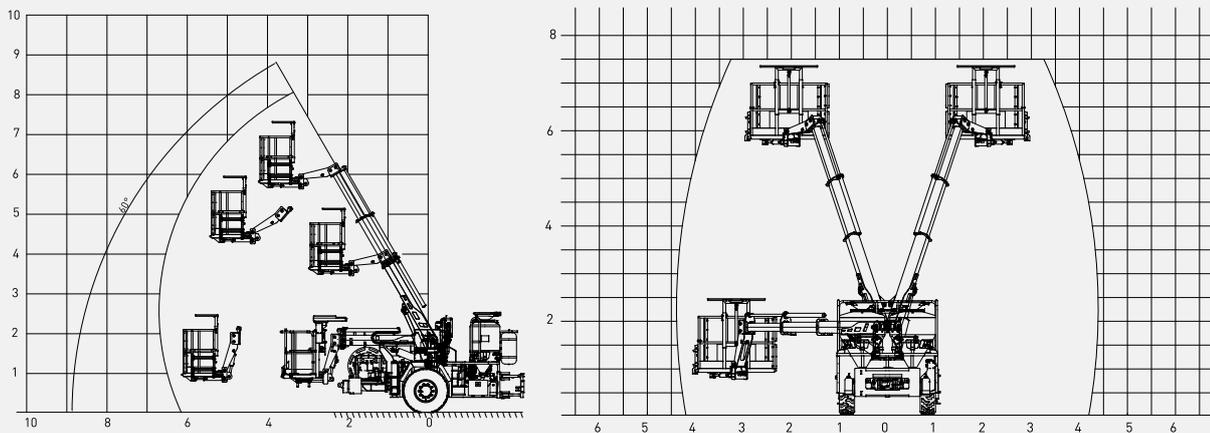
DIMENSIONS & PERFORMANCE



TURNING RADIUS



COVERAGE AREA



BAC2X350

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|---|
| DIESEL ENGINE | |
| Make / Model: | Deutz TCD 2013 L4 2V |
| Max. Power: | 129 kW at 2300 rpm |
| Max. Torque: | 670 Nm at 1600 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 150 l |
| | With Catalytic Converter and Silencer |
| TRANSMISSION | |
| Make / Model: | Dana Spicer T24000 |
| | Powershift |
| | Automatic 3-speed forward and reverse |
| | Four-wheel drive |
| AXLES & TYRES | |
| Make / Model: | Dana Spicer 113 |
| Type: | Planetary |
| Front: | +/- 8° Oscillating |
| Rear: | Rigid |
| Tyres: | 12.00 – 20 |
| PERFORMANCE | |
| Max. Gradient: | 30% |
| Max. Speed: | 24.5 km/h |
| Max. Tractive Effort: | 122 kN |
| STEERING | |
| | Articulation, +/- 40° |
| | Orbitrol Type |
| BRAKING SYSTEM | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR |
| | Fail safe |
| CHASSIS | |
| Type: | Articulated, high strength steel |
| Stabilizers: | 2 pcs, extendible |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 190 l/min at 2300 rpm |
| Hydraulic Oil Tank: | 150 l |
| Return Oil Filter: | 25 µm |
| | Oil level, filtration and temperature indicators |
| ELECTRIC SYSTEM | |
| Battery: | 24 V – 2 x 105 Ah |
| Protection: | IP65 |
| Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| | 2 x 1500 Lumen Led behind of the operator cabin |
| | 2 x 1500 Lumen Led at bumper |
| | 2 x 1500 Lumen Led on boom |
| | Turn signals and taillights |
| Box Type: | Stainless steel |
| Beacon Lamp: | Red color |
| TITAN CLOSED OPERATOR CABIN | |
| | <ul style="list-style-type: none">• Closed 2-person cabin• ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt• Cabin heater• Rear view camera and LCD screen in operator cabin• Levers and indicators for all driving controls• In-Cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors• Document box under the seat• Equipment box |
| DIMENSIONS & WEIGHT | |
| Weight: | 14060 kg (Approximately) |
| Length: | 9840 mm |
| Width: | 2100 mm |
| Height: | 2450 mm |
| Inner Turning Radius: | 4200 mm |
| Outer Turning Radius: | 7050 mm |
| MISCELLANEOUS | |
| | <ul style="list-style-type: none">• Warning plates and decals• Tool box• 2x4 kg portable fire extinguisher (1 in operator cabin)• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery isolator switch |

| BOOM & BASKET | |
|---|---|
| Basket Dimensions: | 1590 x 790 mm |
| Max. Lifting Capacity: | 500 kg |
| Max. Lifting Height (Basket Base): | 5.8 m |
| Basket Swing: | +/- 35° |
| Max. Boom Angle: | 60° |
| Boom Swing: | +/- 35° |
| Basket Tilt: | +/- 5° |
| Parallelism: | Automatic |
| | Electro-hydraulic driven control unit |
| | Control system with tank selection, in-hole cleaning and tank on/off feature on the basket |
| ANFO CHARGING UNIT | |
| ANFO Tank Capacity: | 2 x 350 l |
| ANFO Tank: | Stainless steel, with cap and screen |
| ANFO Hose Diameter: | Antistatic Ø26/33 mm |
| ANFO Hose Total Length: | 25 m |
| | Hydraulic driven ANFO charging hose reel |
| COMPRESSOR | |
| | 3.5 m³/min – 7 bar – 23 kW hydraulic driven screw compressor |
| SAFETY | |
| | <ul style="list-style-type: none"> • Conforms to EN280 mobile elevating work platforms standard • Manual emergency boom movement control • Stabilisers must be used to allow basket movements • 3 pcs emergency stop button; one on the basket • 2 pcs mechanical inclinometer for rolling and pitching angle indication • 2 pcs electronic inclinometer sensor for rolling and pitching angles • +/- 4° rolling angle limitation • +/- 5° pitching angle limitation • Sensor system that disables collecting support legs until the basket is completely lowered. • Weight moment control system for basket • Rubber chocks on basket for bump protection • Hydraulically driven safety canopy over the basket |
| OTHER | |
| | <ul style="list-style-type: none"> • Centralized greasing system • Water separator + grease trap in ANFO air lines • Closed dynamite carrying compartment on the machine • Lid with screen preventing lumped ANFO loading |

| OPTIONS |
|---|
| <ul style="list-style-type: none"> • Automatic centralized lubrication system • Electrical outlet in the cabin 220 Volt - 150 Watt • Air-conditioner (Heating and Cooling) in the cabin • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • 2 x 250 or 2 x 500 l ANFO tank • 24 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Additional side view camera • Spare wheel |

BEC100

EMULSION CHARGER TRUCK



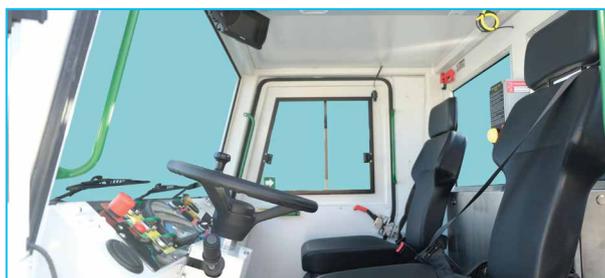
1590 x 790 mm, 500 kg lifting capacity basket



External emulsion unit to be supplied by the customer



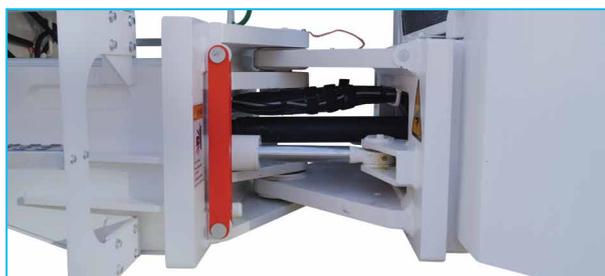
Basket with automatic parallelism conforms to EN280 standard



ROPS & FOPS level 2 certified closed 2-person cabin

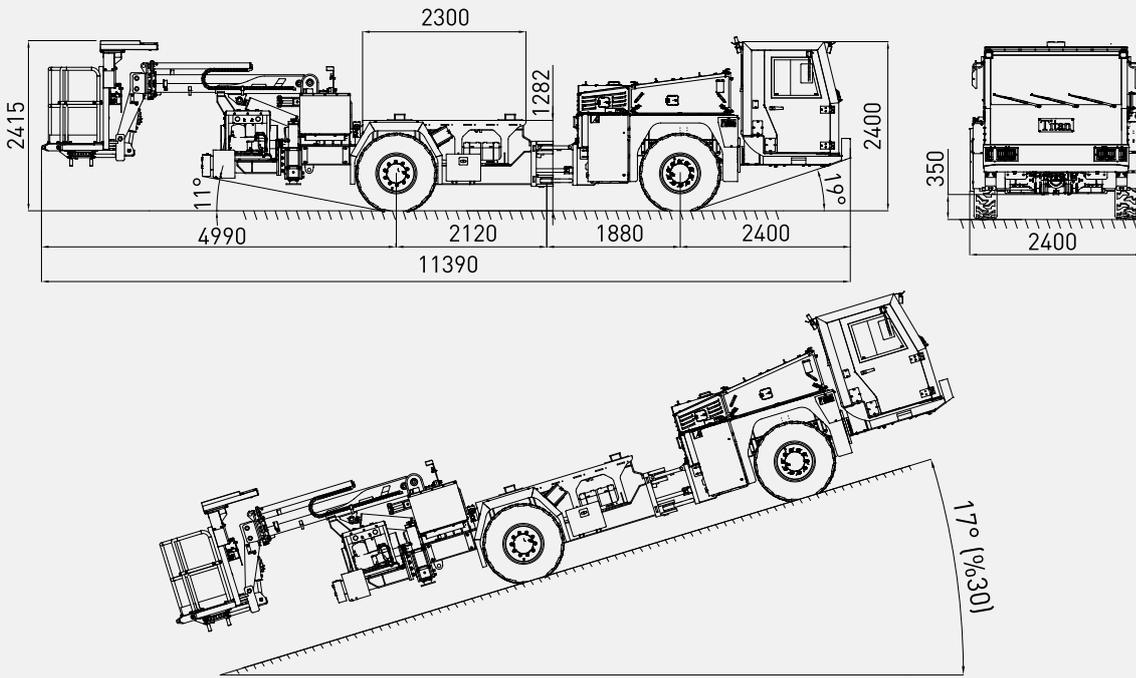


Rear view camera and LCD screen in operator cabin

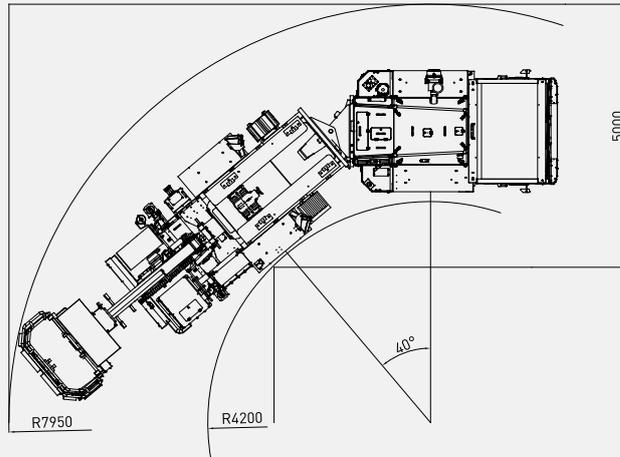


High strength articulated chassis

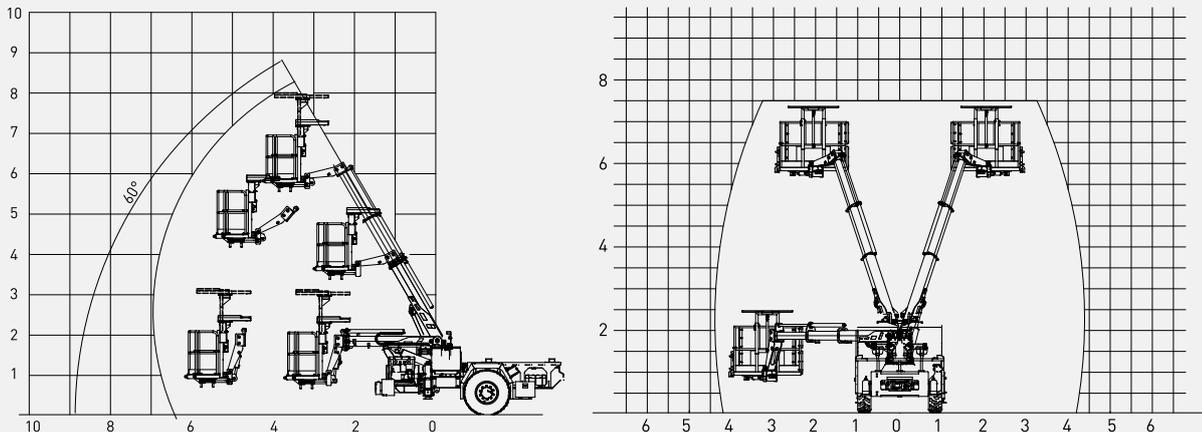
DIMENSIONS & PERFORMANCE



TURNING RADIUS



COVERAGE AREA



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|--|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | 2 x 1500 Lumen Led on boom |
| | | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | | |
| | Automatic 3-speed forward and reverse | TITAN CLOSED OPERATOR CABIN | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| AXLES & TYRES | | | |
| Make / Model: | Dana Spicer 113 | | |
| Type: | Planetary | | |
| Front: | +/- 8° Oscillating | | |
| Rear: | Rigid | | |
| Tyres: | 12.00 – 20 | | |
| PERFORMANCE | | | |
| Max. Gradient: | 30% | | |
| Max. Speed: | 24.5 km/h | | |
| Max. Tractive Effort: | 122 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | DIMENSIONS & WEIGHT | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | Weight: | 14000 kg (Approximately) |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | Length: | 11390 mm |
| | Fail safe | Width: | 2400 mm |
| | | Height: | 2415 mm* |
| | | Inner Turning Radius: | 4200 mm |
| | | Outer Turning Radius: | 7950 mm |
| | | | *Height may change depending on the emulsion unit dimensions |
| CHASSIS | | MISCELLANEOUS | |
| Type: | Articulated, high strength steel | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| Stabilizers: | 2 pcs, fixed | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 320 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 300 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

BKPT7

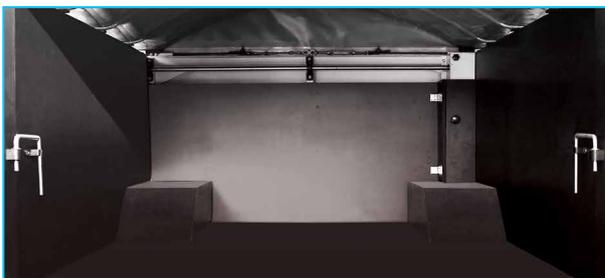
MATERIAL TRANSPORTER



ROPS & FOPS level 2 certified closed 4-person personnel cabin



Manual opening / closing awning mechanism on the case



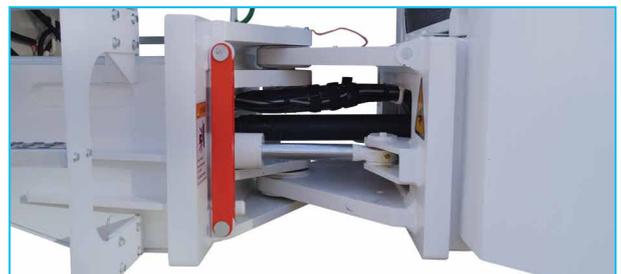
7000 kg carrying capacity pick-up box



ROPS & FOPS level 2 certified closed 2-person cabin

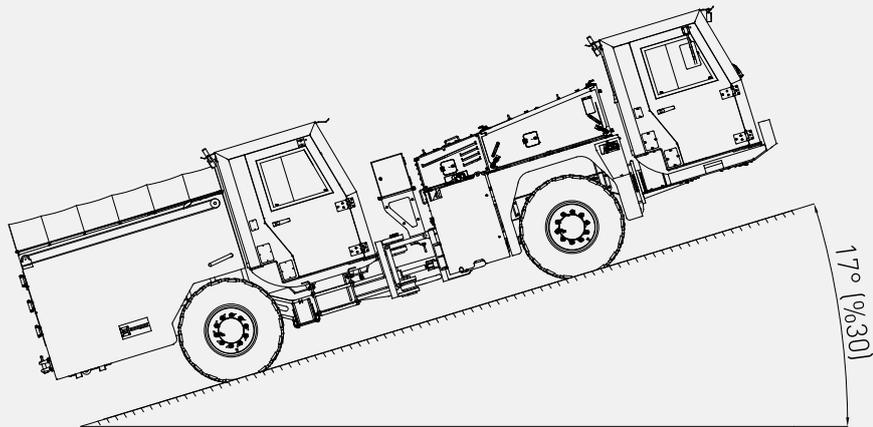
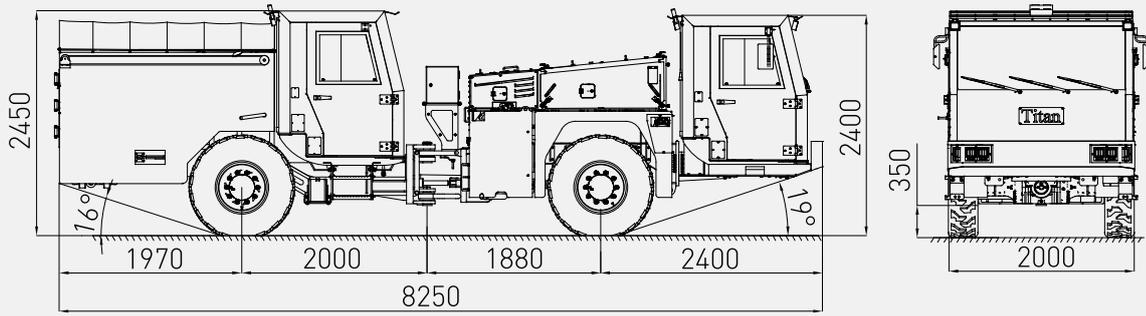


Rear view camera and LCD screen in operator cabin

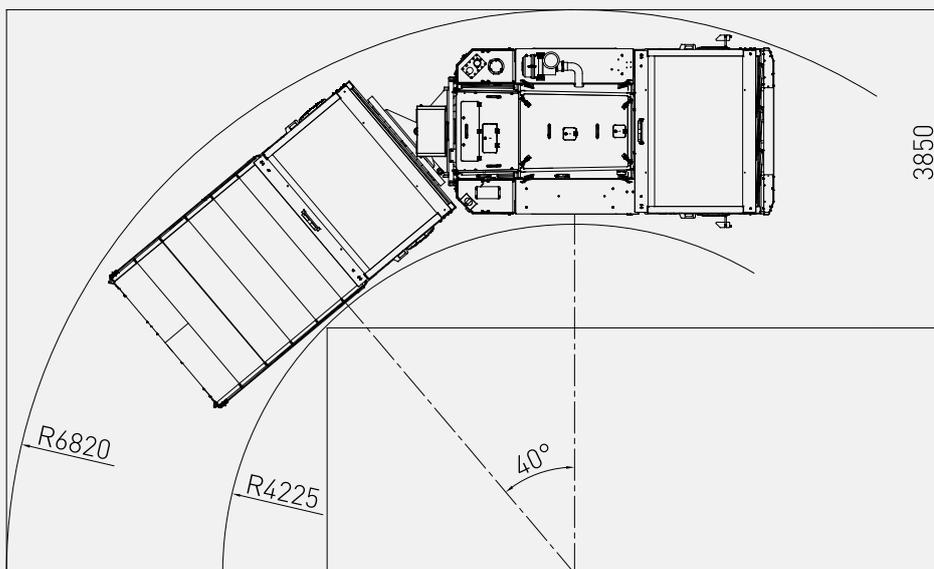


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led behind the personnel cabin |
| | With Catalytic Converter and Silencer | | 2 x 1500 Lumen Led at bumper |
| | | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | | |
| | Automatic 3-speed forward and reverse | TITAN CLOSED OPERATOR CABIN | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| AXLES & TYRES | | | |
| Make / Model: | Dana Spicer 113 | | |
| Type: | Planetary | | |
| Front: | +/- 8° Oscillating | | |
| Rear: | Rigid | | |
| Tyres: | 12.00 – 20 | | |
| PERFORMANCE | | | |
| Max. Gradient: | 30% | | |
| Max. Speed: | 24.5 km/h | | |
| Max. Tractive Effort: | 122 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | DIMENSIONS & WEIGHT | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | Weight: | 11450 – 12000 kg* |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | Length: | 8250 mm |
| | Fail safe | Width: | 2000 mm |
| | | Height: | 2450 mm |
| | | Inner Turning Radius: | 4225 mm |
| | | Outer Turning Radius: | 6820 mm |
| | | | *Depends on option |
| CHASSIS | | MISCELLANEOUS | |
| Type: | Articulated, high strength steel | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 3 portable fire extinguisher (1 in operator cabin (4 kg), 2 in personnel cabin (2 kg)) • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 125 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

TITAN CLOSED PERSONNEL CABIN

- Closed 4-person cabin
- ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)
- Height adjustable ergonomic seat with seat belt
- Cabin heater
- Cabin doors on both sides (right-left)
- Hand rails and horn on the ceiling of the cabin
- Cabin floor covered with non-slip material
- Intercom between operator cabin and personnel cabin

PICK-UP BOX

Dimensions: 2320 x 2000 x 980 mm

Max. Carrying Capacity: 7000 kg

Type: Open top for transportation of explosives

Inner Surface: Waterproof wooden lining

Doors: Two doors at rear (for loading & unloading)

Can be fixed when opened

- Plywood upholstered case internal surfaces
- Rear doors can be fixed at 90° and 270°
- Manual opening / closing awning mechanism on the case

DETONATOR BOX

Dimensions: 800 x 500 x 500 mm

Material: Steel box

- Placed over articulation
- Anti-static inner surface
- Lockable covers

OTHER

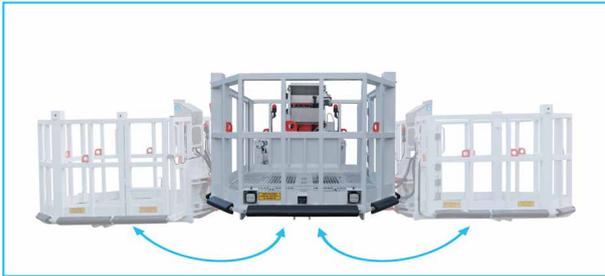
- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Electrical outlet in the cabin 220 Volt - 150 Watt
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- 24 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Additional side view camera
- Spare wheel

BKOS

FRONT BASKET TRUCK



+/- 35° basket swing



Max. lifting height 5.9 m



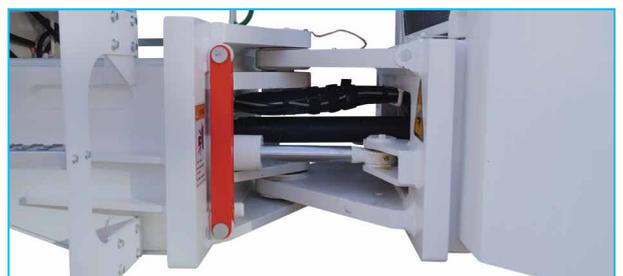
Basket with automatic parallelism conforms to EN280 standard



ROPS & FOPS level 2 certified closed 1-person cabin

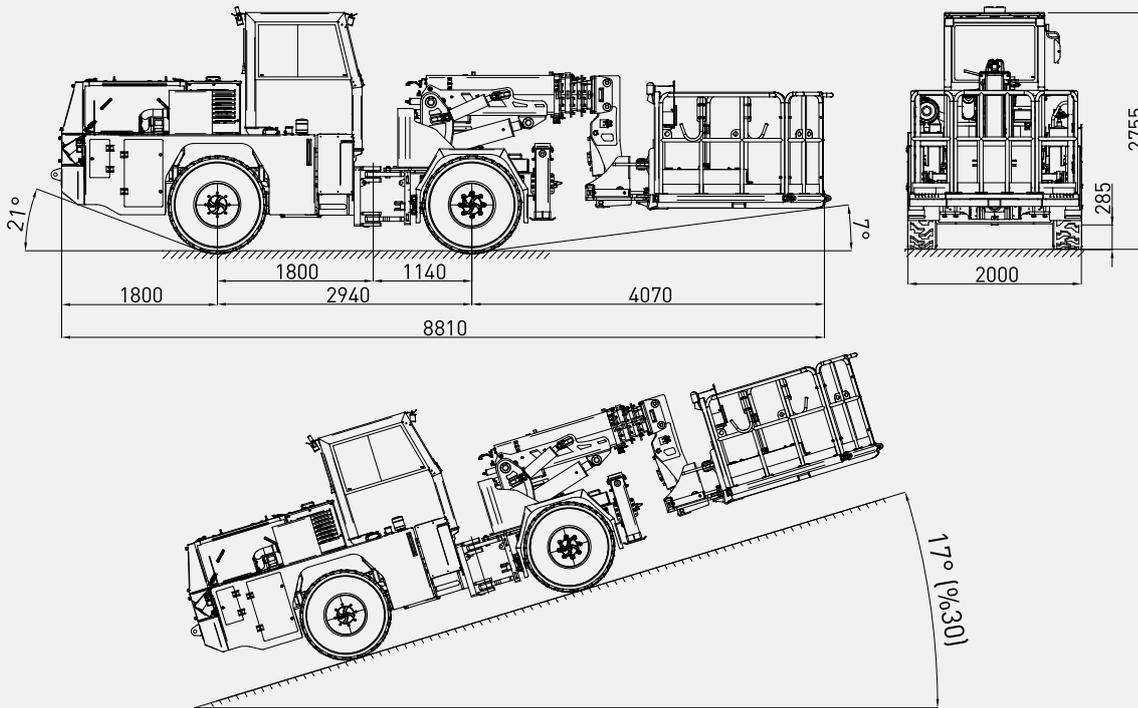


Rear view camera and LCD screen in operator cabin

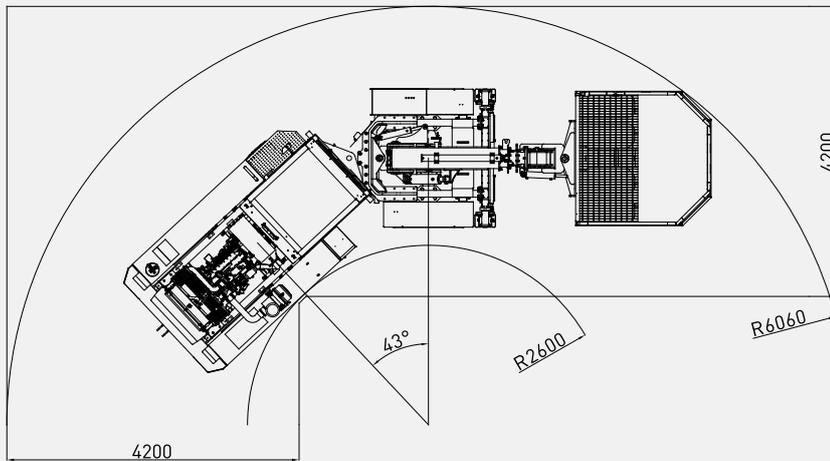


High strength articulated chassis

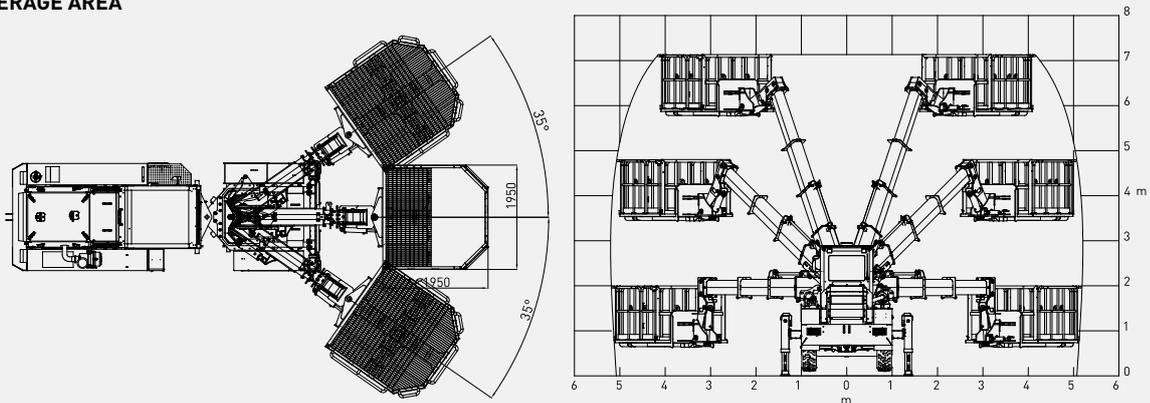
DIMENSIONS & PERFORMANCE



TURNING RADIUS



COVERAGE AREA



BMP2X3

SCISSOR LIFT



3200 x 2000 mm lifting platform



3000 kg lifting capacity



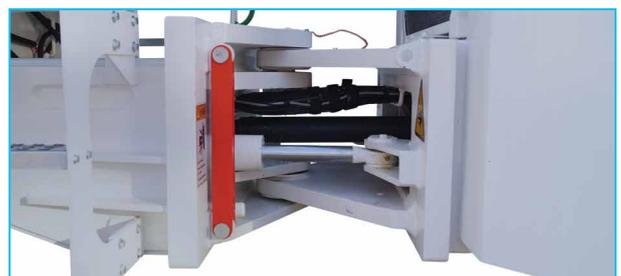
Platform and legs controllable from 2 panels



ROPS & FOPS level 2 certified closed 2-person cabin

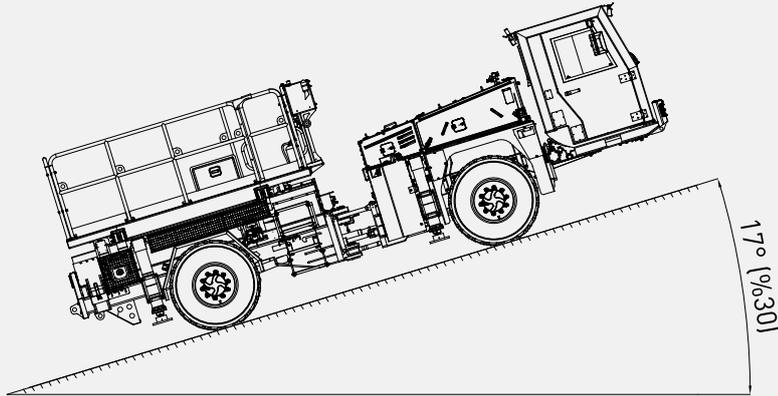
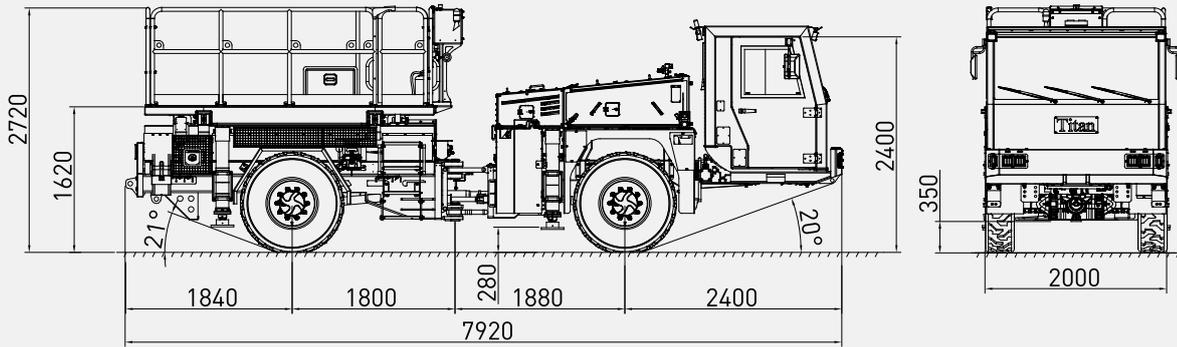


Rear view camera and LCD screen in operator cabin

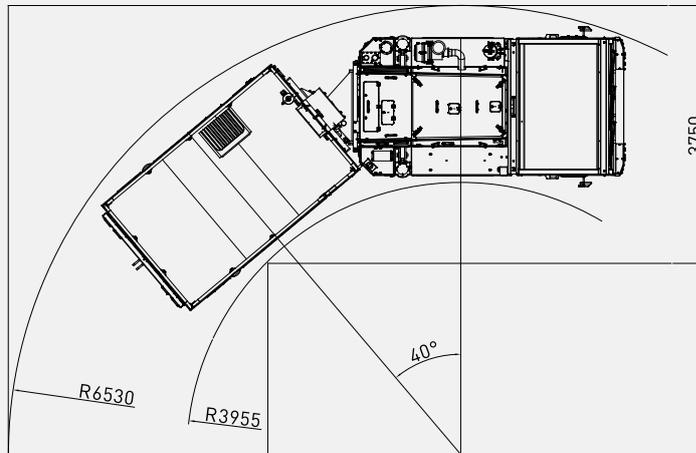


High strength articulated chassis

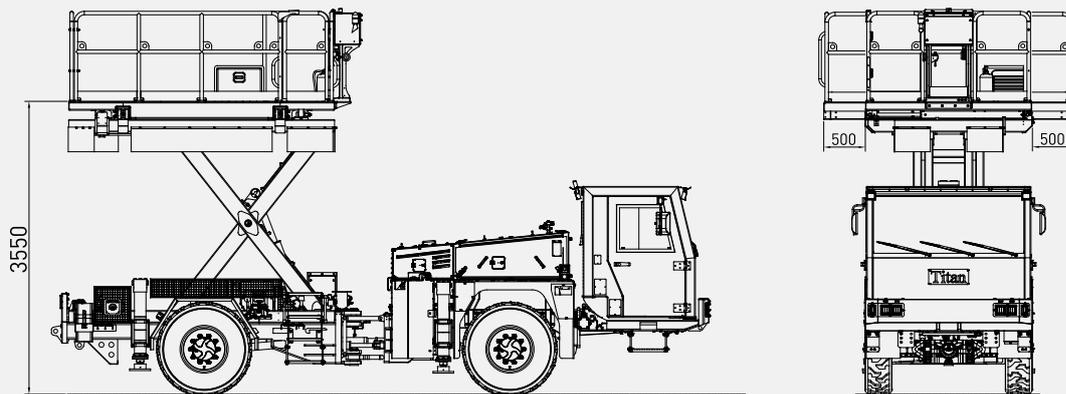
DIMENSIONS & PERFORMANCE



TURNING RADIUS



LIFTING HEIGHT



BMP2X3

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| DIESEL ENGINE | |
| Make / Model: | Deutz TCD 2013 L4 2V |
| Max. Power: | 129 kW at 2300 rpm |
| Max. Torque: | 670 Nm at 1600 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 115 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | Dana Spicer T24000 |
| Powershift | |
| Automatic 3-speed forward and reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | Dana Spicer 113 |
| Type: | Planetary |
| Front: | +/- 8° Oscillating |
| Rear: | Rigid |
| Tyres: | 12.00 – 20 |
| PERFORMANCE | |
| Max. Gradient: | 30% |
| Max. Speed: | 24.5 km/h |
| Max. Tractive Effort: | 122 kN |
| STEERING | |
| Articulation, +/- 40° | |
| Orbitrol Type | |
| BRAKING SYSTEM | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR |
| Fail safe | |
| CHASSIS | |
| Type: | Articulated, high strength steel |
| Front Stabilisers: | 2 pcs, fixed |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 110 l/min at 2300 rpm |
| Hydraulic Oil Tank: | 115 l |
| Return Oil Filter: | 25 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 24 V – 2 x 105 Ah |
| Protection: | IP65 |
| Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| 2 x 1500 Lumen Led behind of the operator cabin | |
| 2 x 1500 Lumen Led at bumper | |
| 1 x 1500 Lumen Led light on platform | |
| Turn signals and taillights | |
| Box Type: | Stainless steel |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none">• Closed 2-person cabin• ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt• Cabin heater• Rear view camera and LCD screen in operator cabin• Levers and indicators for all driving controls• In-Cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors• Document box under the seat• Equipment box | |
| DIMENSIONS & WEIGHT | |
| Weight: | 12400 kg (Approximately) |
| Length: | 7920 mm |
| Width: | 2000 mm |
| Height: | 2720 mm |
| Inner Turning Radius: | 3955 mm |
| Outer Turning Radius: | 6530 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none">• Warning plates and decals• 2x4 kg portable fire extinguisher (1 in operator cabin)• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery isolator switch | |

| LIFTING PLATFORM | |
|---|----------------|
| Platform Dimensions: | 3200 x 2000 mm |
| Max. Lifting Capacity: | 3000 kg |
| Max. Lifting Height: | 3.55 m |
| <ul style="list-style-type: none"> • Platform and legs controllable from 2 panels • Tool box on platform • Standard compliant kickplate around the platform • Manual emergency lowering system when platform is open | |
| SAFETY | |
| <ul style="list-style-type: none"> • Conforms to EN280 mobile elevating work platforms standard • Emergency platform lowering system • Scissor cannot be moved without support legs touching the ground. • Platform climbing steps • 4 pcs emergency stop button (inside the cabin, on electric box, right rear, on the platform) • 2 pcs mechanical inclinometer at chassis • +/- 4° rolling angle limitation • Sensor system that disables collecting support legs until the platform is completely lowered. • Door is open warning system | |

| OTHER |
|---|
| <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS |
| <ul style="list-style-type: none"> • Automatic centralized lubrication system • Electric socket in cabin 220 Volt – 150 Watt • Air-conditioner (Heating and Cooling) in the cabin • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • +/- 500 mm side shift function • Platform size and lifting capacity on demand • 24 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Additional side view camera • Spare wheel |

BVK05

CRANE TRUCK



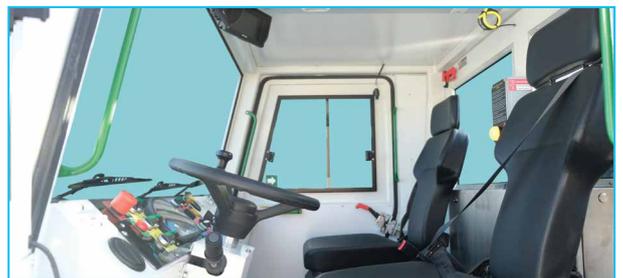
Crane with 1200 kg capacity at 5 meters



8000 kg capacity pick-up box



Robust boom



ROPS & FOPS level 2 certified closed 2-person cabin

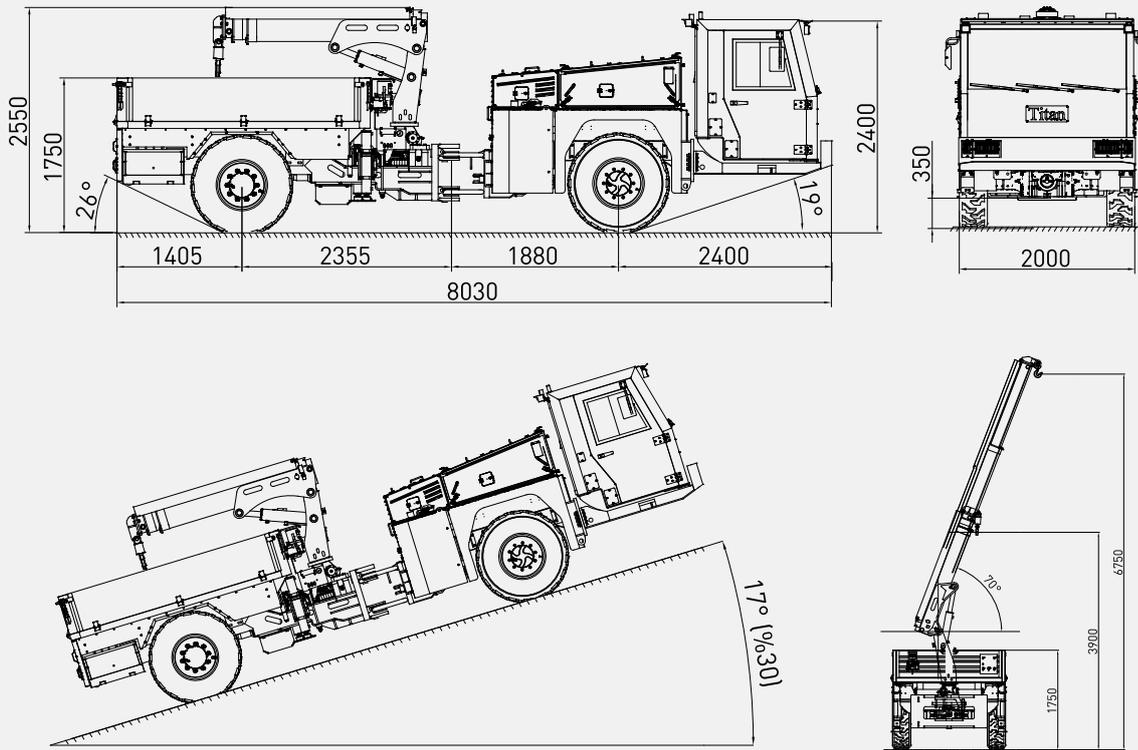


Rear view camera and LCD screen in operator cabin

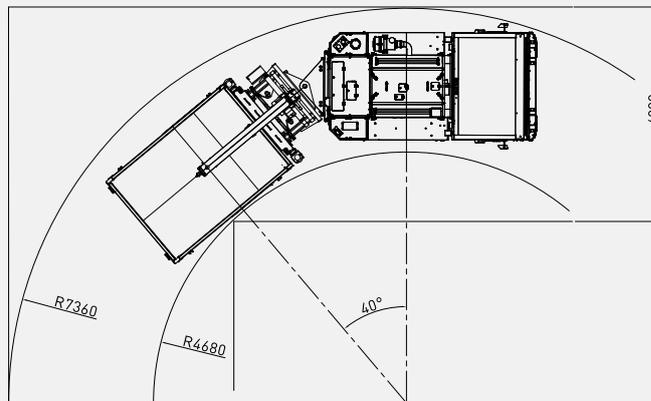


High strength articulated chassis

DIMENSIONS & PERFORMANCE

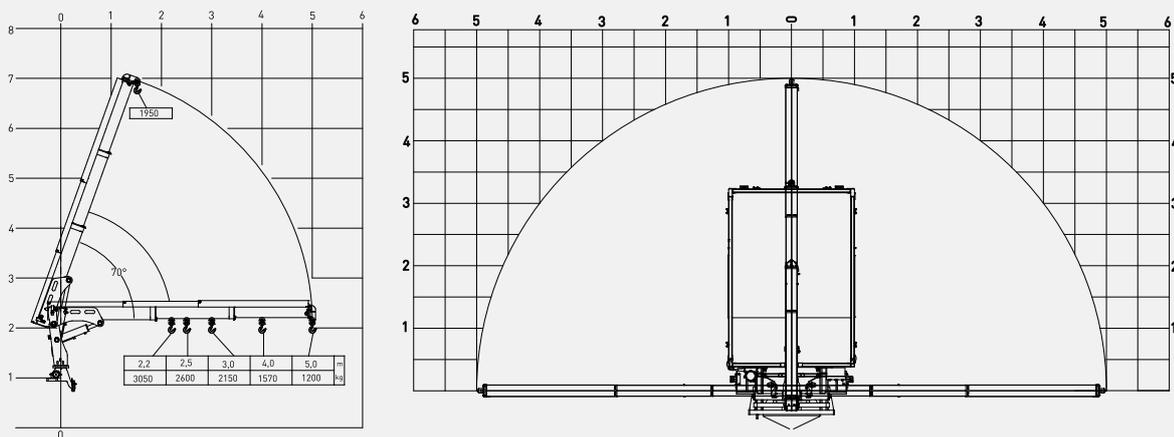


TURNING RADIUS



COVERAGE AREA

$M_{max} = 67 \text{ kNm}$
 $P_{max} = 3050 \text{ kg}$



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | 2 x 1500 Lumen Led at boom |
| | | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | | |
| | Automatic 3-speed forward and reverse | TITAN CLOSED OPERATOR CABIN | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point 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) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| AXLES & TYRES | | DIMENSIONS & WEIGHT | |
| Make / Model: | Dana Spicer 113 | Weight: | 11500 kg (Approximately) |
| Type: | Planetary | Length: | 8030 mm |
| Front: | +/- 8° Oscillating | Width: | 2000 mm |
| Rear: | Rigid | Height: | 2550 mm |
| Tyres: | 12.00 – 20 | Inner Turning Radius: | 4680 mm |
| | | Outer Turning Radius: | 7360 mm |
| PERFORMANCE | | MISCELLANEOUS | |
| Max. Gradient: | 30% | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| Max. Speed: | 24.5 km/h | | |
| Max. Tractive Effort: | 122 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | | |
| | Fail safe | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| Stabilisers: | 2 pcs, extendible | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 110 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

MANIPULATOR / CRANE

- Titan Boom
- Max. Vertical Reach: 6.75 m
- Max. Horizontal Reach: 5 m + 5 m
- 1.200 kg Capacity at 5 meters
- System with Rack
- Weight control system

PICK-UP BOX

- Right, left and back covers can be opened and closed
- Dimensions: 2000 x 2850 x 500 mm
- Capacity: 8000 kg

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Electrical outlet in the cabin 220 Volt - 150 Watt
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Electromagnetic retarder
- Cable or wireless remote control
- 24 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Additional side view camera
- Spare wheel

BHA3

CASSETTE SYSTEM UTILITY VEHICLE



4000 l Water Tank Cassette



1750 x 3500 mm, 3000 kg Loading Platform Cassette



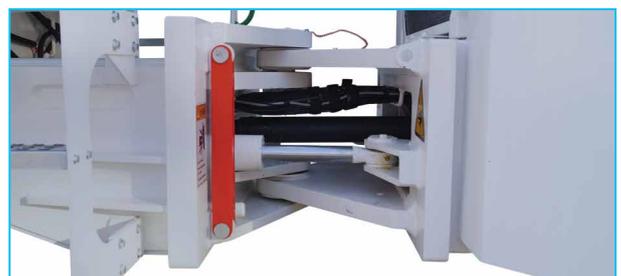
Electronic tracking of hooklift position and angle



ROPS & FOPS level 2 certified closed 2-person cabin

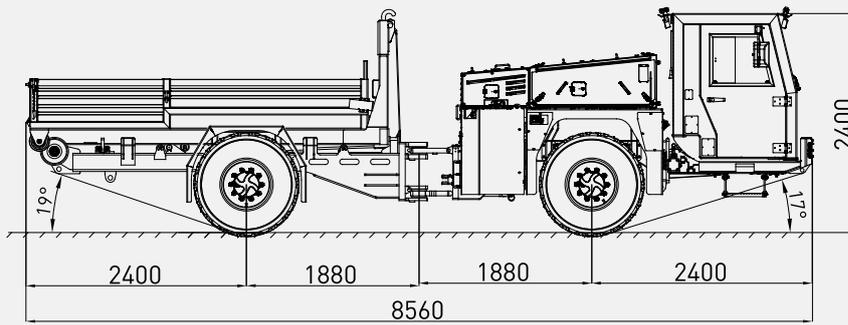
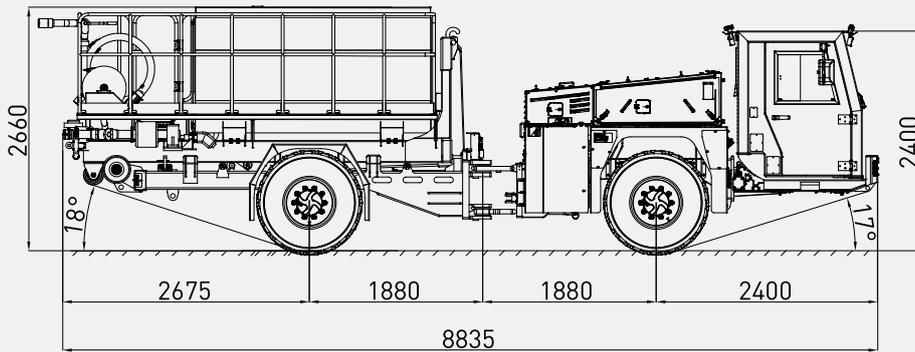
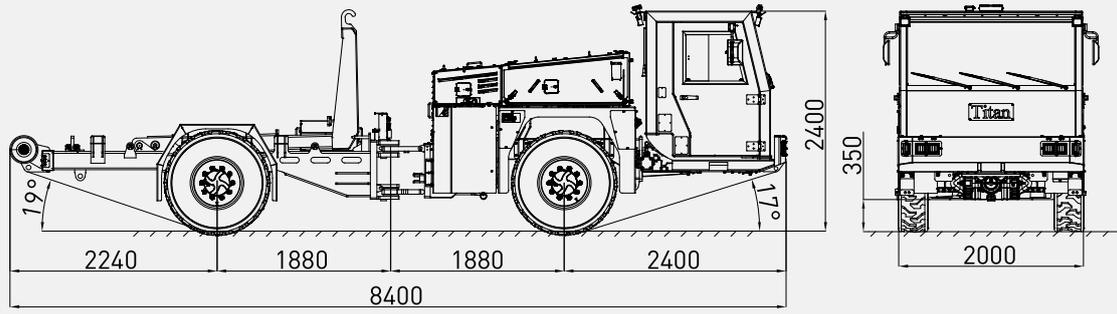


Rear view camera and LCD screen in operator cabin

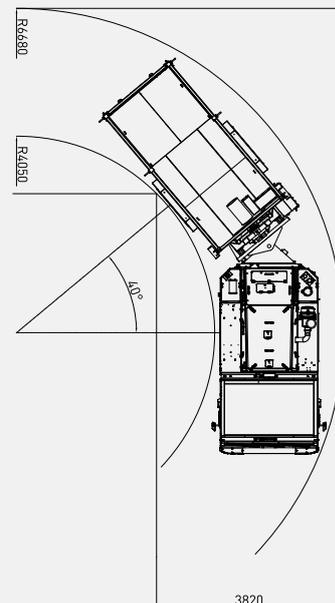
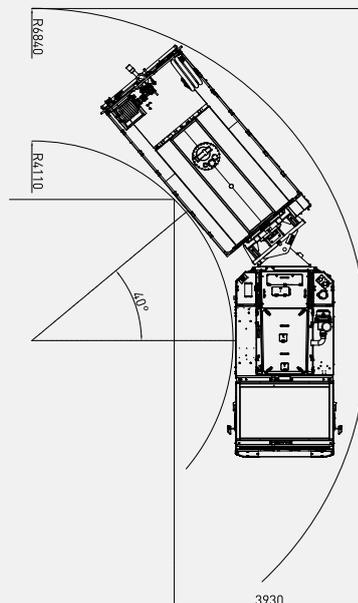
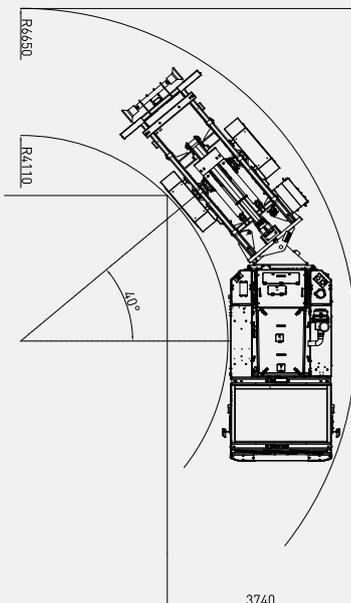


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber and Blue color |
| | Powershift | TITAN CLOSED OPERATOR CABIN | |
| | Automatic 3-speed forward and reverse | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| | Four-wheel drive | DIMENSIONS & WEIGHT (CASSETTE HANDLER, WITHOUT CASSETTE) | |
| AXLES & TYRES | | Weight: | 10200 kg (Approximately) |
| Make / Model: | Dana Spicer 113 | Length: | 8400 mm |
| Type: | Planetary | Width: | 2000 mm |
| Front: | +/- 8° Oscillating | Height: | 2400 mm |
| Rear: | Rigid | Inner Turning Radius: | 4110 mm |
| Tyres: | 12.00 – 20 | Outer Turning Radius: | 6650 mm |
| PERFORMANCE | | WATER TANK CASSETTE | |
| Max. Gradient: | 30% | Empty Weight: | 12100 kg (Approximately) |
| Max. Speed: | 24.5 km/h | Max. Full Weight: | 16100 kg (Approximately) |
| Max. Tractive Effort: | 122 kN | Length: | 8835 mm |
| STEERING | | Width: | 2000 mm |
| | Articulation, +/- 40° | Height: | 2660 mm |
| | Orbitrol Type | Inner Turning Radius: | 4110 mm |
| BRAKING SYSTEM | | Outer Turning Radius: | 6840 mm |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 125 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

LOADING PLATFORM CASSETTE

| | |
|------------------------------|--------------------------|
| Empty Weight: | 11500 kg (Approximately) |
| Max. Full Weight: | 14500 kg (Approximately) |
| Length: | 8560 mm |
| Width: | 2000 mm |
| Height: | 2400 mm |
| Inner Turning Radius: | 4050 mm |
| Outer Turning Radius: | 6680 mm |

MISCELLANEOUS

- Warning plates and decals
- Tool box
- 2x4 kg portable fire extinguisher (1 in operator cabin)
- 2 pcs Wheel chocks
- Front and rear towbar
- Back-up alarm and light
- Battery isolator switch

HOOKLIFT SYSTEM

- Electronic tracking of hooklift position and angle
- Sensor system preventing movement before the cassette is closed
- Quick coupling with sensor for cassette hoses

WATER TANK CASSETTE

- Water Tank Capacity: 4000 l
- Hose Reel: L: 30 m Ø:1"
- Wave breaker in the water tank
- Machine connection points with attachment and lock system
- Water monitor for adjusting spray angle
- Gearbox pump with 1500 l/min capacity
- Drop system
- Right and Left 1.5 m height wall washing
- Water tank filling hose
- 3 Point contact platform ladder
- Guardrail around the water tank
- Water tank level electronic monitoring system

LOADING PLATFORM CASSETTE

- Platform Dimensions: 1750 x 3500 mm
- Loading Capacity: 3000 kg
- Machine connection points with attachment and lock system
- On-Platform shackle ports
- Removable back cover
- Removable rod rack on the platform

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Electrical outlet in the cabin 220 Volt - 150 Watt
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and Manual activated fire extinguishing system (Linear wired)
- 24 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Additional side view camera
- Spare wheel

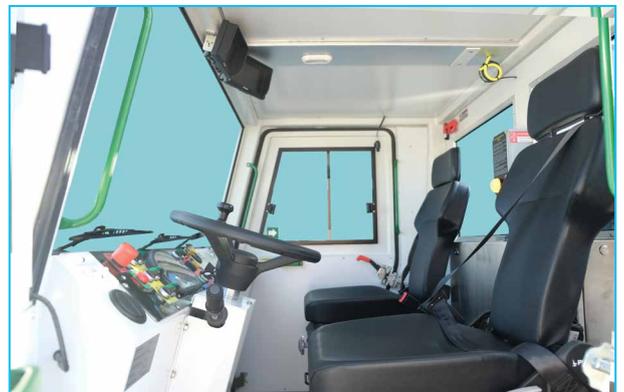


BIA100

FUEL AND LUBE TRUCK



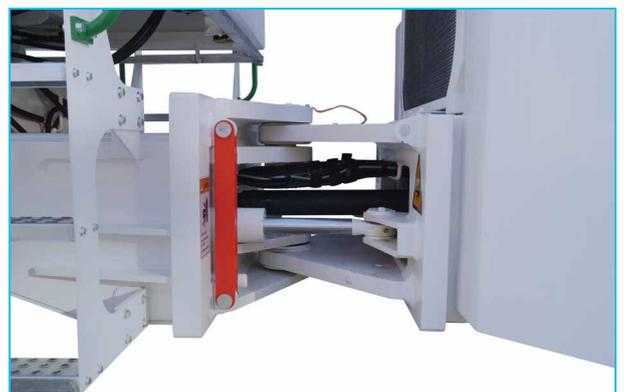
Fuel/oil transfer hoses with reels and flow meters



ROPS & FOPS level 2 certified closed 2-person cabin

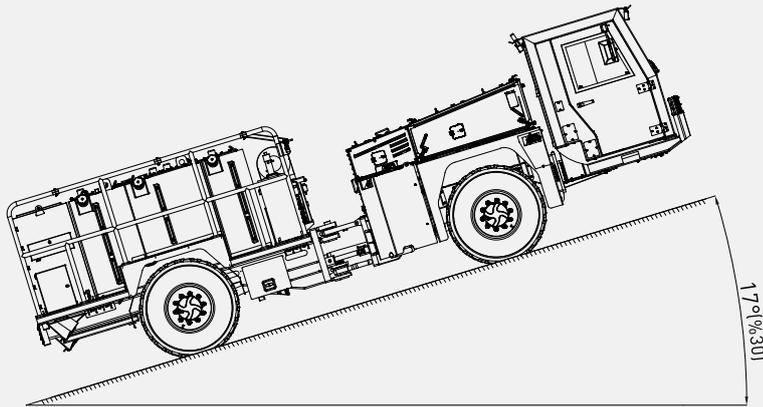
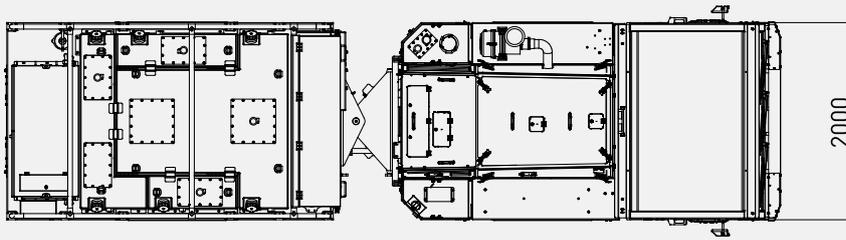
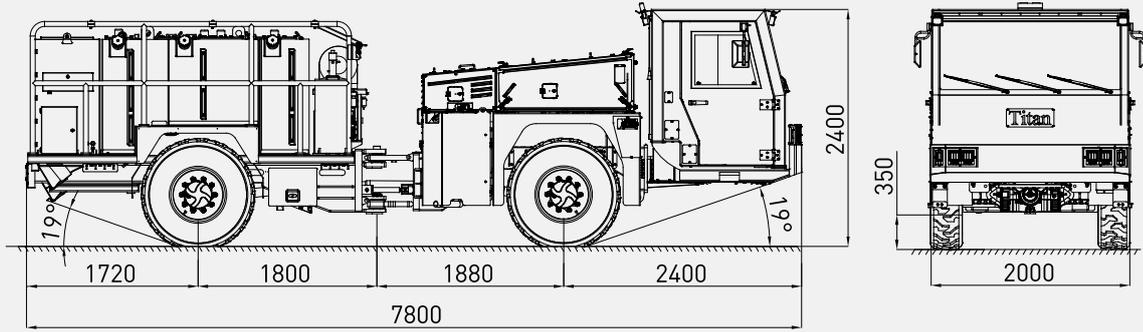


Rear view camera and LCD screen in operator cabin

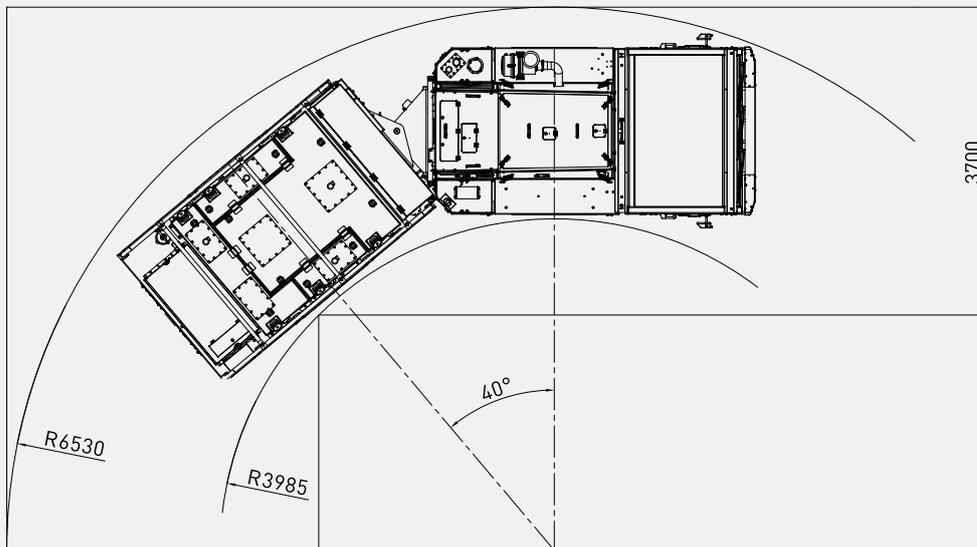


High strength articulated chassis

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind of the operator cabin |
| Diesel Tank: | 150 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | TITAN CLOSED OPERATOR CABIN | |
| | Automatic 3-speed forward and reverse | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| | Four-wheel drive | DIMENSIONS & WEIGHT | |
| AXLES & TYRES | | Weight: | 12000 kg (Approximately) |
| Make / Model: | Dana Spicer 113 | Max. Weight: | 15000 kg (Approximately) |
| Type: | Planetary | Length: | 7800 mm |
| Front: | +/- 8° Oscillating | Width: | 2000 mm |
| Rear: | Rigid | Height: | 2400 mm |
| Tyres: | 12.00 – 20 | Inner Turning Radius: | 3985 mm |
| PERFORMANCE | | Outer Turning Radius: | 6530 mm |
| Max. Gradient: | 30% | MISCELLANEOUS | |
| Max. Speed: | 24.5 km/h | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery isolator switch | |
| Max. Tractive Effort: | 122 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | | |
| | Fail safe | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 125 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 150 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

BPT24

PERSONNEL CARRIER



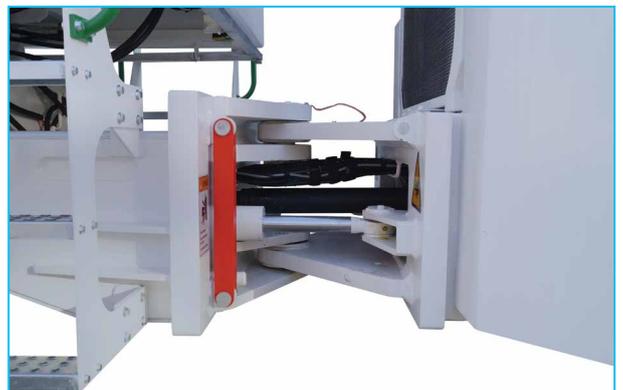
ROPS & FOPS level 2 certified, closed 24-person cabin



ROPS & FOPS level 2 certified closed 2-person cabin

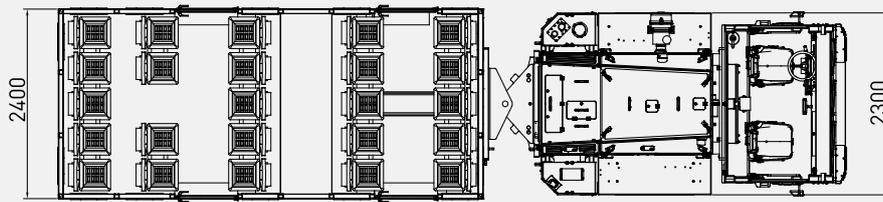
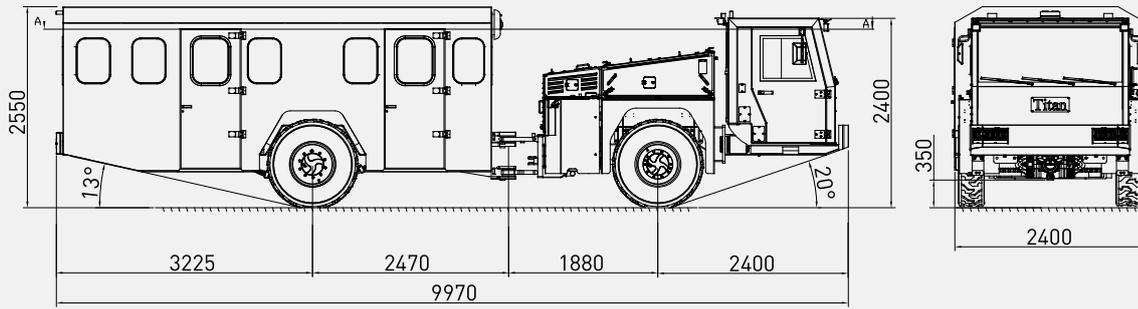


Rear view camera and LCD screen in operator cabin

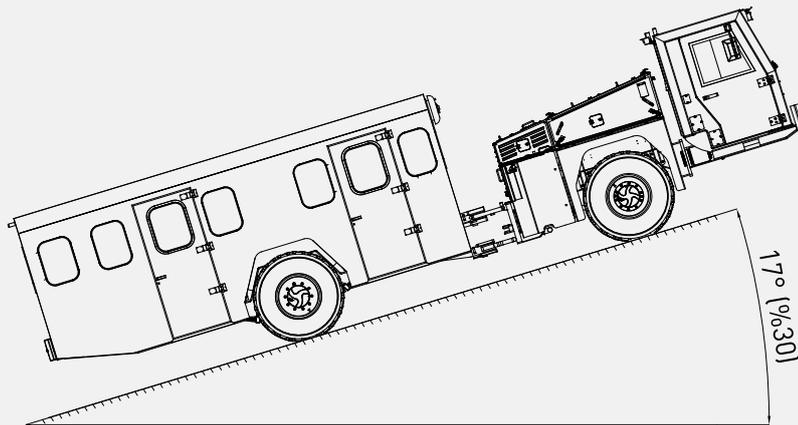


High strength articulated chassis

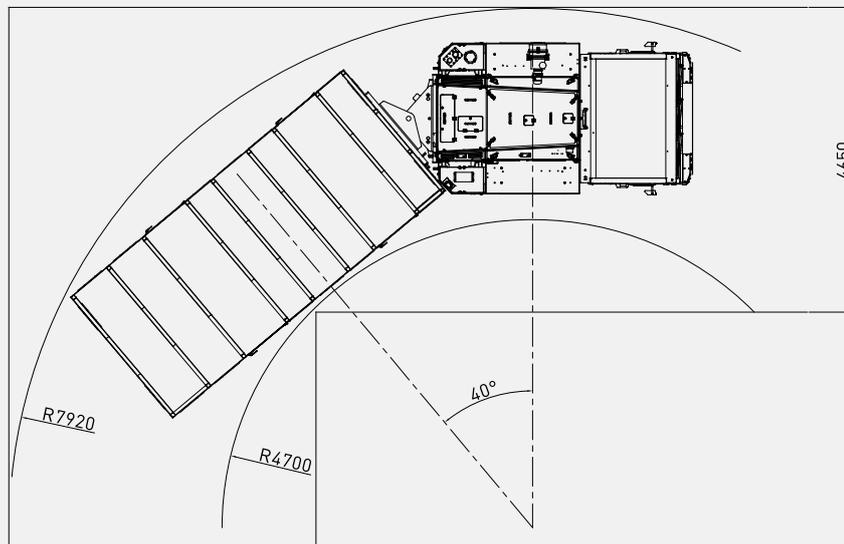
DIMENSIONS & PERFORMANCE



SECTION A-A



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|---|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | Deutz TCD 2013 L4 2V | Battery: | 24 V – 2 x 105 Ah |
| Max. Power: | 129 kW at 2300 rpm | Protection: | IP65 |
| Max. Torque: | 670 Nm at 1600 rpm | Lights: | 6 x 1500 Lumen Led in front of the operator cabin |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led behind of the operator cabin |
| Diesel Tank: | 140 l | | 2 x 1500 Lumen Led at bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Box Type: | Stainless steel |
| Make / Model: | Dana Spicer T24000 | Beacon Lamp: | Amber color |
| | Powershift | TITAN CLOSED OPERATOR CABIN | |
| | Automatic 3-speed forward and reverse | <ul style="list-style-type: none"> • Closed 2-person cabin • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, "T" shaped seat with 3-point seat belt • Cabin heater • Rear view camera and LCD screen in operator cabin • Levers and indicators for all driving controls • In-Cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Document box under the seat • Equipment box | |
| | Four-wheel drive | DIMENSIONS & WEIGHT | |
| AXLES & TYRES | | Weight: | 13650 kg (Approximately) |
| Make / Model: | Dana Spicer 113 | Length: | 9970 mm |
| Type: | Planetary | Width: | 2400 mm |
| Front: | +/- 8° Oscillating | Height: | 2550 mm |
| Rear: | Spring leaf + shock absorber | Inner Turning Radius: | 4700 mm |
| Tyres: | 12.00 – 20 | Outer Turning Radius: | 7920 mm |
| PERFORMANCE | | MISCELLANEOUS | |
| Max. Gradient: | 30% | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher (1 in operator cabin) • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery isolator switch | |
| Max. Speed: | 24.5 km/h | | |
| Max. Tractive Effort: | 122 kN | | |
| STEERING | | | |
| | Articulation, +/- 40° | | |
| | Orbitrol Type | | |
| BRAKING SYSTEM | | | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR | | |
| | Fail safe | | |
| CHASSIS | | | |
| Type: | Articulated, high strength steel | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed and variable displacement | | |
| Max. Pressure: | 210 bar | | |
| Flow Rate: | 120 l/min at 2300 rpm | | |
| Hydraulic Oil Tank: | 140 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

TITAN CLOSED PERSONNEL CABIN

- Closed 24-person cabin
- ROPS & FOPS level 2 certified
(EN ISO 3471:2008 / EN ISO 3449:2008)
- Height adjustable ergonomic seat with 2 points seat belt
- Cabin heater
- 4 Outward opening doors (Sliding windows on doors)
- Mica glass windows
- Ventilation in the cabin
- Amber color beacon on cabin
- Cabin lighting
- Intercom between operator cabin and personnel cabin
- 2x4 kg portable fire extinguisher
- Emergency exit windows on doors

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Electrical outlet in the cabin 220 Volt - 150 Watt
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and Manual activated fire extinguishing system (Linear wired)
- 24 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Additional side view camera
- Spare wheel

HG16

CONVEYOR BELT MAINTENANCE TRUCK



Cable or wireless remote control for all crane and cross-over platform



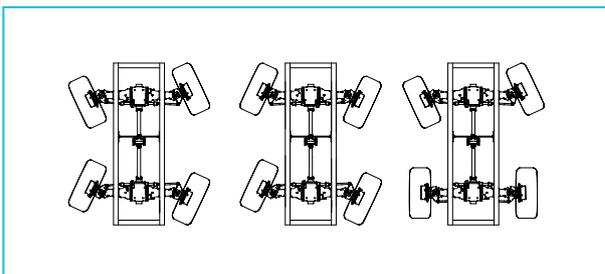
46 kNm lifting capacity, 4.9 m crane



4.5 m +/- 9° height adjustable +/- 95° pivotable telescopic platform



Closed cabin with 180° pivoting operator seat and ROPS & FOPS Level 2 certification

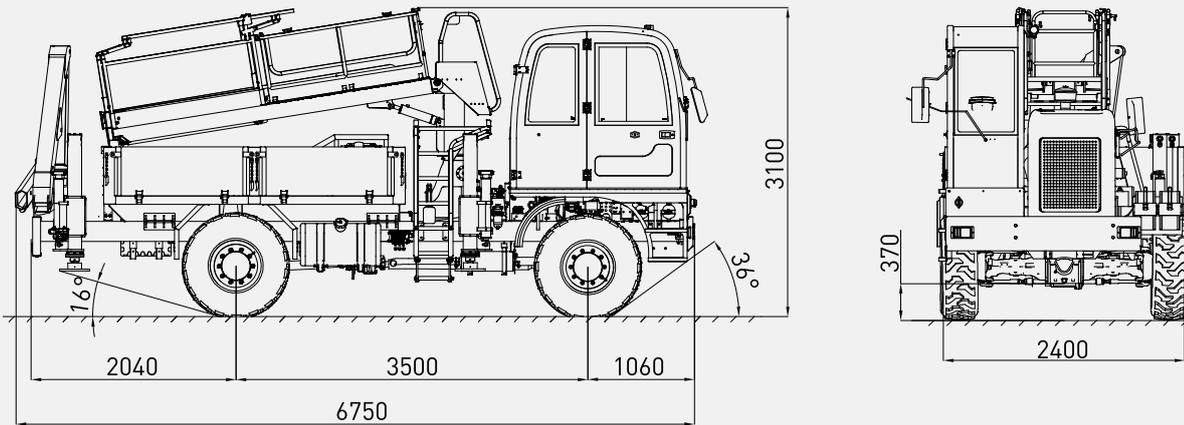


3 steering modes; Four-Wheel Steering, Front-Wheel Steering and Crab Steering

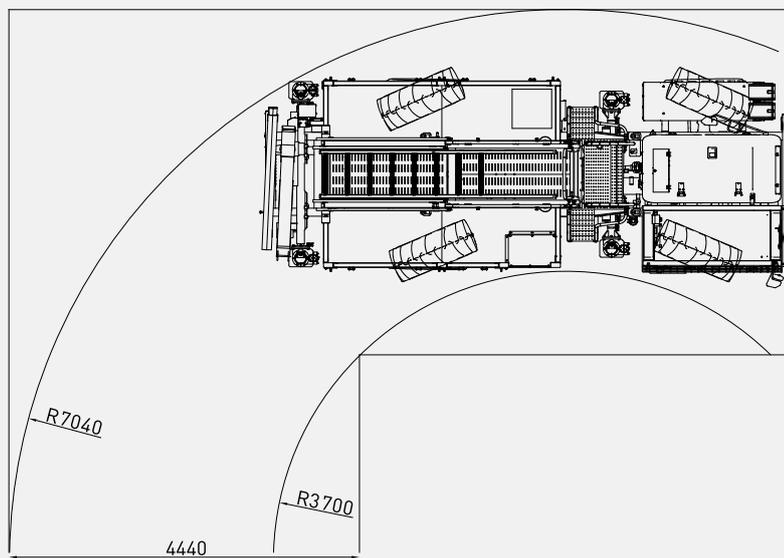


Rear view camera and LCD screen in operator cabin

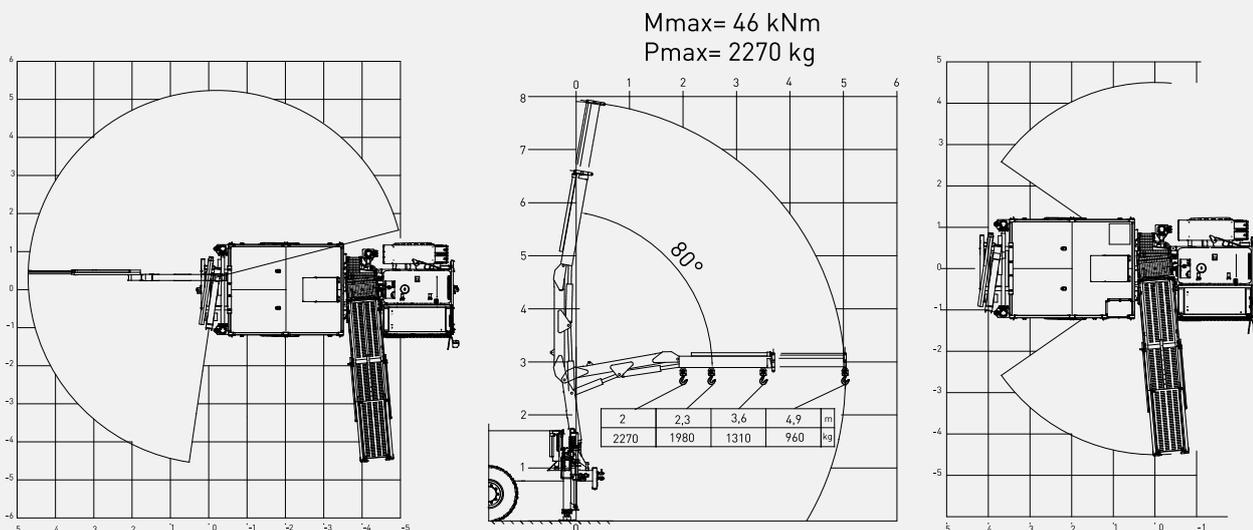
DIMENSIONS & PERFORMANCE



TURNING RADIUS



COVERAGE AREA



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|--------------------------------------|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | JCB Dieselmax 444 TCA-85 | Battery: | 12 V - 150 Ah |
| Max. Power: | 85 kW at 2200 rpm | Protection: | IP65 |
| Max. Torque: | 440 Nm at 1300 rpm | Lights: | 2 x 1500 Lumen Led at front bumper |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 2 x 1500 Lumen Led on operator cabin |
| Diesel Tank: | 120 l | | 2 x 1500 Lumen Led at rear |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Beacon Lamp: | Amber color |
| Make / Model: | JCB PS760 | TITAN CLOSED OPERATOR CABIN | |
| | Powershift | <ul style="list-style-type: none"> • Closed 1-person cabin | |
| | Automatic and Manual 4-speed forward | <ul style="list-style-type: none"> • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) | |
| | Manual 3-speed reverse | <ul style="list-style-type: none"> • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Cabin heater | |
| AXLES & TYRES | | <ul style="list-style-type: none"> • Levers and indicators for all drive control | |
| Make / Model: | JCB SD70 | <ul style="list-style-type: none"> • In-cabin radio output and location (12V) | |
| Type: | Planetary | <ul style="list-style-type: none"> • Cabin lighting | |
| Front: | +/- 8° Oscillating and steerable | <ul style="list-style-type: none"> • Heated wing mirrors | |
| Rear: | Rigid and steerable | DIMENSIONS & WEIGHT | |
| Tyres: | 16.00 / 70-20 | Weight: | 9350 kg (Approximately) |
| PERFORMANCE | | Length: | 6750 mm |
| Max. Gradient: | 40% | Width: | 2400 mm |
| Max. Speed: | 24.5 km/h | Height: | 3100 mm |
| STEERING | | Inner Turning Radius: | 3700 mm |
| | Four-wheel steering | Outer Turning Radius: | 7040 mm |
| | Crab steering | ACCESSORIES | |
| | Front-wheel steering | <ul style="list-style-type: none"> • Warning signs and label | |
| BRAKING SYSTEM | | <ul style="list-style-type: none"> • 2x4 kg portable fire extinguisher | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | <ul style="list-style-type: none"> • 2 pcs Wheel chocks | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | <ul style="list-style-type: none"> • Front and rear towbar | |
| CHASSIS | | <ul style="list-style-type: none"> • Rear light and alarm | |
| Type: | Rigid, high strength steel | <ul style="list-style-type: none"> • Battery Isolator switch | |
| HYDRAULIC SYSTEM | | COMPRESSOR | |
| Pump Type: | Fixed displacement | <ul style="list-style-type: none"> • 750 l/min – 11 bar screw compressor | |
| Max. Pressure: | 200 bar | CRANE | |
| Flow Rate: | 60 l/min at 2200 rpm | <ul style="list-style-type: none"> • 46 kNm Crane (4.9 m / 960 kg) | |
| Hydraulic Oil Tank: | 120 l | CROSS-OVER PLATFORM | |
| Return Oil Filter: | 25 µm | <ul style="list-style-type: none"> • +/- 95° pivotable telescopic platform | |
| | Oil level, filtration and temperature indicators | <ul style="list-style-type: none"> • 4.5 m long | |
| | | <ul style="list-style-type: none"> • +/- 9° height adjustable | |

OTHER

- Centralized greasing system
- EN19296 certified

OPTIONS

- Automatic lubrication (Greasing) system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 24 V emergency steering
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Wireless remote control for crane and platform movement
- Spare wheel

Titan

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Titan

CONSTRUCTION
UTILITY VEHICLES



CONSTRUCTION UTILITYVEHICLES

Titan

Titan has its own production facilities to manufacture Underground Mining and Civil Tunnelling machinery such as: Concrete Spraying Machines, Underground Drilling Rigs, Dumper Trucks, Concrete Transmixers, Concrete Pumps, Personnel Carriers, ANFO Charging Vehicles, Crane Trucks, Scissor Lifts and Basket Boom Trucks. All intended to use in underground mines and civil tunnel projects, as well as slope stabilization and dam construction works.

We are the major local supplier for this kind of machinery in Turkey. And they are used in many underground mines in Turkey, including Canadian owned underground mines. The main reasons for our machines to be selected by these mines are **powershift transmission and ROPS & FOPS Level 2 certification.**

Besides Turkey, our machines are used in **Serbia, Bosnia - Herzegovina, Montenegro, Croatia, Albania, Slovenia, Ukraine, South Korea, Israel, Ireland, Algeria, Iraq, Georgia, Chile, Australia, Ghana, India, Russia, Jordan, Bulgaria, Saudi Arabia, Liberia, Burkina Faso, Tanzania** in civil construction or underground mining projects.

Titan

IS26

CONCRETE SPRAYING MACHINE



IS21

CONCRETE SPRAYING MACHINE



TM05

CONCRETE TRANSMIXER



YTM05

CONCRETE TRANSMIXER



AC500

ANFO CHARGER TRUCK



EC2X350

ANFO CHARGER TRUCK



TITAN CONSTRUCTION UTILITY VEHICLES

SP1500

BASKET BOOM TRUCK



MP2X3

SCISSOR LIFT



VK10

CRANE TRUCK



DK16

DUMPER TRUCK



PT16

PERSONNEL CARRIER



IS26

CONCRETE SPRAYING MACHINE



Robust manipulator with 13.5 m vertical and 10.8 m horizontal spraying reach



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



Peristaltic hose pump driven by 1.5 kW electric motor



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



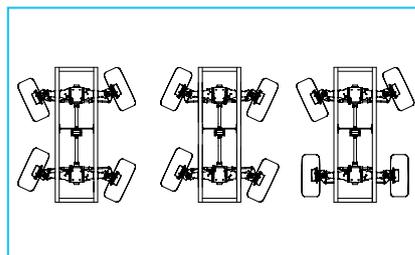
Titan concrete pump with casted body hopper and hydraulic vibrator



135 bar – 16 l/min high pressure washer



Control panel push buttons and indicating lights for concrete and dosing functions (PLC system is optional)

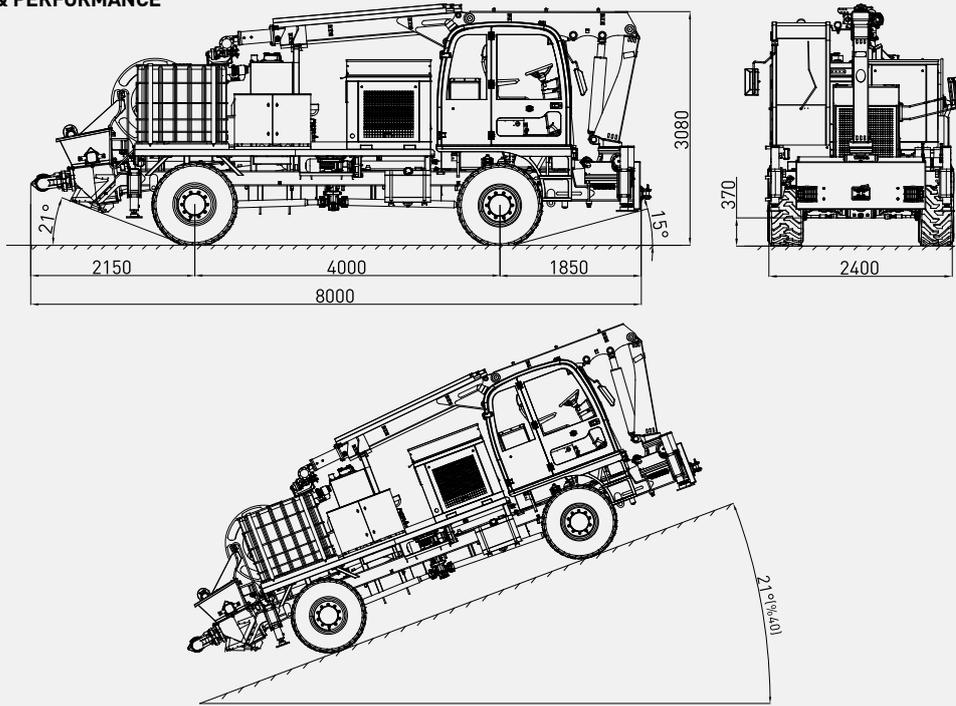


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

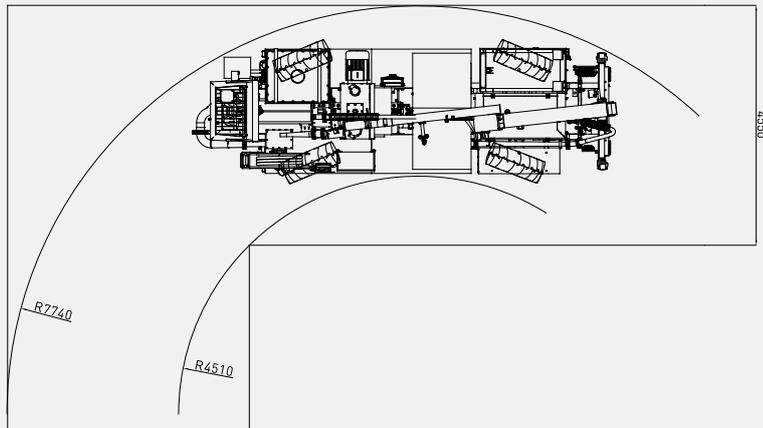


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

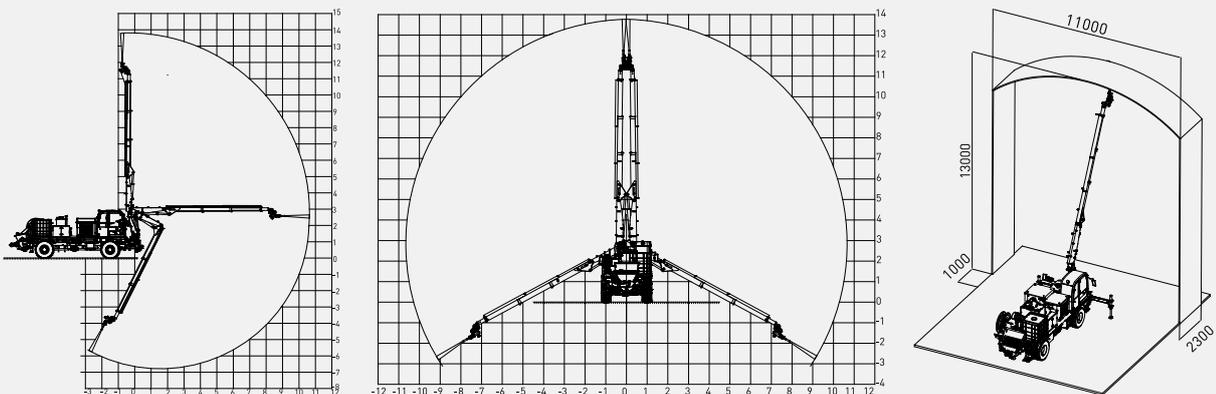
DIMENSIONS & PERFORMANCE



TURNING RADIUS



SPRAYING RANGE



TECHNICAL SPECIFICATIONS

| | |
|--|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 80 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, extendible |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 290 l/min at 1450 rpm |
| Hydraulic Oil Tank: | 325 l |
| Return Oil Filter: | 20 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| 1 x 1500 Lumen Led on operator cabin | |
| 1 x 1500 Lumen Led at rear | |
| 4 x 1500 Lumen Led on boom | |
| 1 x 1500 Lumen Led on hopper | |
| Turn signals and taillights | |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Transparent protection plate on the windshield | |
| DIMENSIONS & WEIGHT | |
| Weight: | 12600 kg (Approximately) |
| Length: | 8000 mm |
| Width: | 2400 mm |
| Height: | 3080 mm |
| Inner Turning Radius: | 4510 mm |
| Outer Turning Radius: | 7740 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery Isolator switch | |
| MANIPULATOR | |
| Max. Spray Reach at Vertical: | 13.5 m |
| Max. Spray Reach at Horizontal: | 10.8 m |
| SPRAYING HEAD | |
| Rotation: | 350° |
| Tilt: | +/- 135° |
| Oscillation: | 8° |

| CONCRETE PUMP | |
|---------------------------------|---|
| Make / Model: | Titan hydraulically driven double piston pump |
| Max. Capacity: | 34 m ³ /h (Theoretical) |
| Concrete Cylinder: | 180 x 1000 mm |
| Max. Concrete Pressure: | 50 bar |
| Max. Hydraulic Pressure: | 210 bar |
| Hopper Volume: | 250 l |
| Concrete Line Diameter: | 5" – 4" – 3 1/4" |
| | Hydraulic vibrator on hopper grate |
| | Hydraulically controlled shutter at bottom (hopper flush) |
| POWER PACK | |
| | <ul style="list-style-type: none"> • 1470 rpm Electric motor • 55kW – 400V – 50Hz – IP55 • Diesel engine PTO driven hydraulic system for cleaning against power cut |
| CABLE REEL | |
| Drive: | Hydraulic |
| Power: | 400 V 50 Hz |
| Cable Length: | 50 m |
| Cable Cross Section: | 3 x 70 mm ² + 35 mm ² |
| CABLE REMOTE CONTROL | |
| Type: | Cable |
| Cable Length: | 15 m |
| Specifications: | <ul style="list-style-type: none"> • All nozzle and manipulator movements • Nozzle oscillation • Air line on/off • Dosing on/off • Dosing flow rate adjustment • Concrete pumping/reverse • Emergency stop • Horn |
| COMPRESSOR | |
| Make: | Ekomak |
| Type: | Electric screw compressor |
| Power: | 55 kW |
| Max. Air Flow: | 10.2 m ³ /min |
| Max. Working Pressure: | 6 bar |
| Cooling Fan Motor: | 1.1 kW |

| DOSING SYSTEM | |
|-------------------------------------|---|
| Type: | Frequency convertor controlled electric driven piston pump |
| Power: | 1.5 kW |
| Max. Flow Rate: | 600 l/h |
| Max. Working 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: | 300 l |
| OTHER | |
| | <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS | |
| | <ul style="list-style-type: none"> • Automatic centralized lubrication system • Air-conditioner (Heating and Cooling) in the cabin • Wireless remote control • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • Caliper brake system • 2nd seat in the cabin • Stainless steel electrical box • Stainless steel additive tank • Stainless steel additive line • Stainless collector box • PLC Concrete and dosage control system • PLC Concrete and dosage monitoring system • Placing rubber on the cabin roof to protect against corrosion from rebound deposition (Standarts B33) • High pressure wall washing kit (water scaler) • Form oil system • 12 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Rear view camera and LCD monitor in operator cabin • Additional side view camera • Spare wheel |

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



Peristaltic hose pump driven by 1.5 kW electric motor



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



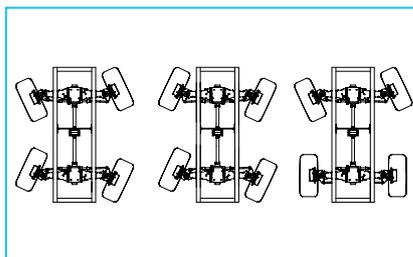
Titan concrete pump with casted body hopper and hydraulic vibrator



135 bar – 16 l/min high pressure washer



Control panel push buttons and indicating lights for concrete and dosing functions (PLC system is optional)

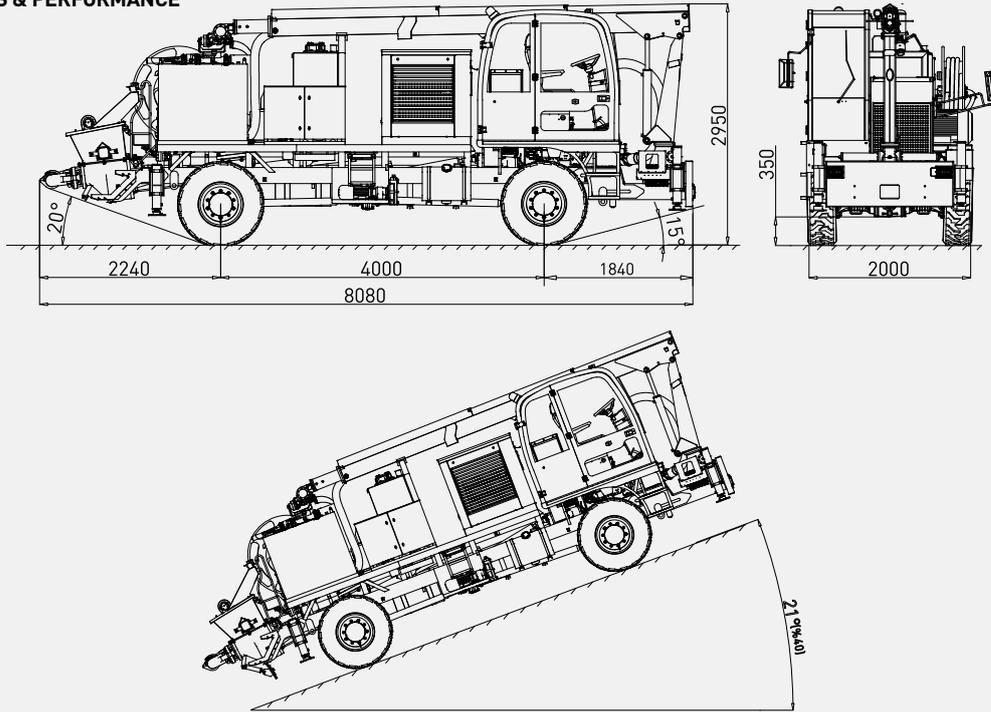


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

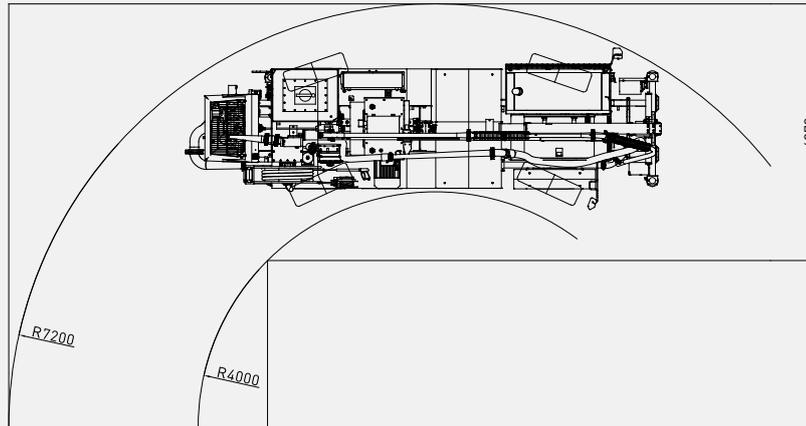


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

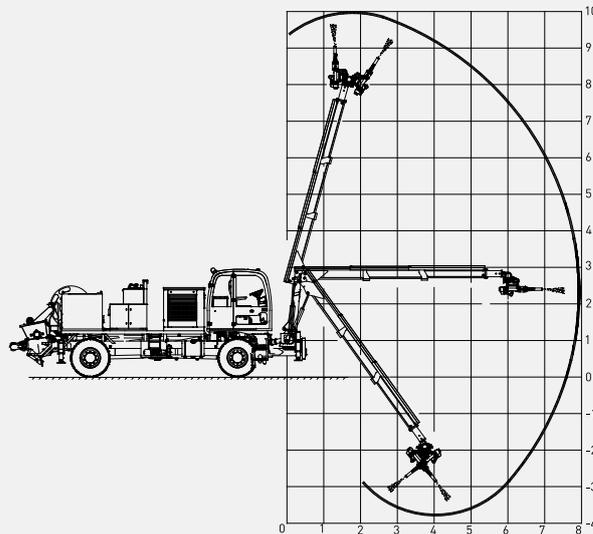
DIMENSIONS & PERFORMANCE



TURNING RADIUS



SPRAYING RANGE



TECHNICAL SPECIFICATIONS

| | |
|--|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 80 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD55 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 12.5-20 / 10-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, extendible |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Fixed and variable displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 290 l/min at 1450 rpm |
| Hydraulic Oil Tank: | 325 l |
| Return Oil Filter: | 20 µm |
| Oil level, filtration and temperature indicators | |

| | |
|--|--------------------------------------|
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| | 1 x 1500 Lumen Led on operator cabin |
| | 1 x 1500 Lumen Led at rear |
| | 4 x 1500 Lumen Led on boom |
| | 1 x 1500 Lumen Led on hopper |
| | Turn signals and taillights |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors • Transparent protection plate on the windshield | |
| DIMENSIONS & WEIGHT | |
| Weight: | 11000 kg (Approximately) |
| Length: | 8080 mm |
| Width: | 2000 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 4000 mm |
| Outer Turning Radius: | 7200 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front towbar • Back-up alarm and light • Battery Isolator switch | |
| MANIPULATOR | |
| Max. Spray Reach at Vertical: | 10 m |
| Max. Spray Reach at Horizontal: | 8 m |
| SPRAYING HEAD | |
| Rotation: | 350° |
| Tilt: | +/- 135° |
| Oscillation: | 8° |

| CONCRETE PUMP | |
|---------------------------------|---|
| Make / Model: | Titan hydraulically driven double piston pump |
| Max. Capacity: | 34 m ³ /h (Theoretical) |
| Concrete Cylinder: | 180 x 1000 mm |
| Max. Concrete Pressure: | 50 bar |
| Max. Hydraulic Pressure: | 210 bar |
| Hopper Volume: | 250 l |
| Concrete Line Diameter: | 5" – 4" – 3 1/4" |
| | Hydraulic vibrator on hopper grate |
| | Hydraulically controlled shutter at bottom (hopper flush) |
| POWER PACK | |
| | <ul style="list-style-type: none"> • 1470 rpm Electric motor • 55kW – 400V – 50Hz – IP55 • Diesel engine PTO driven hydraulic system for cleaning against power cut |
| CABLE REEL | |
| Drive: | Hydraulic |
| Power: | 400 V 50 Hz |
| Cable Length: | 50 m |
| Cable Cross Section: | 3 x 70 mm ² + 35 mm ² |
| CABLE REMOTE CONTROL | |
| Type: | Cable |
| Cable Length: | 15 m |
| Specifications : | <ul style="list-style-type: none"> • All nozzle and manipulator movements • Nozzle oscillation • Air line on/off • Dosing on/off • Dosing flow rate adjustment • Concrete pumping/reverse • Emergency stop • Horn |
| COMPRESSOR | |
| Make: | Ekomak |
| Type: | Electric screw compressor |
| Power: | 55 kW |
| Max. Air Flow: | 10.2 m ³ /min |
| Max. Working Pressure: | 6 bar |
| Cooling Fan Motor: | 1.1 kW |

| DOSING SYSTEM | |
|-------------------------------------|---|
| Type: | Frequency convertor controlled electric driven piston pump |
| Power: | 1.5 kW |
| Max. Flow Rate: | 600 l/h |
| Max. Working Pressure: | 8 bar |
| Additive Tank: | 1000 l |
| HIGH PRESSURE WASHING SYSTEM | |
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flowrate in Flow Rate: | 16 l/min |
| Hose Length: | 10 m |
| Water Tank: | 300 l |
| OTHER | |
| | <ul style="list-style-type: none"> • Centralized greasing system |
| OPTIONS | |
| | <ul style="list-style-type: none"> • Automatic centralized lubrication system • Air-conditioner (Heating and Cooling) in the cabin • Wireless remote control • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • Caliper brake system • 2nd seat in the cabin • Stainless steel electrical box • Stainless steel additive tank • Stainless steel additive line • Stainless collector box • PLC Concrete and dosage control system • PLC Concrete and dosage monitoring system • Placing rubber on the cabin roof to protect against corrosion from rebound deposition (Standarts B33) • High pressure wall washing kit (water scaler) • Form oil system • 12 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Rear view camera and LCD monitor in operator cabin • Additional side view camera • Spare wheel |

TM05

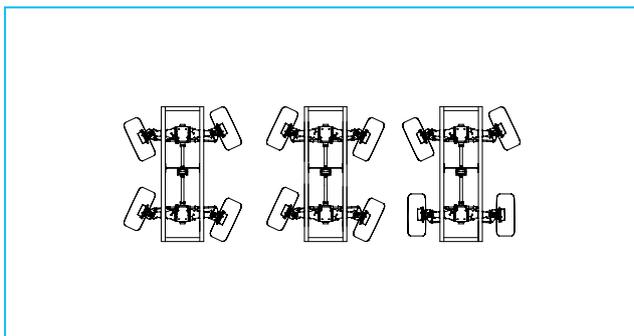
CONCRETE TRANSMIXER



Tough drum with 5 m³ concrete yield



Rear view camera and LCD screen in operator cabin

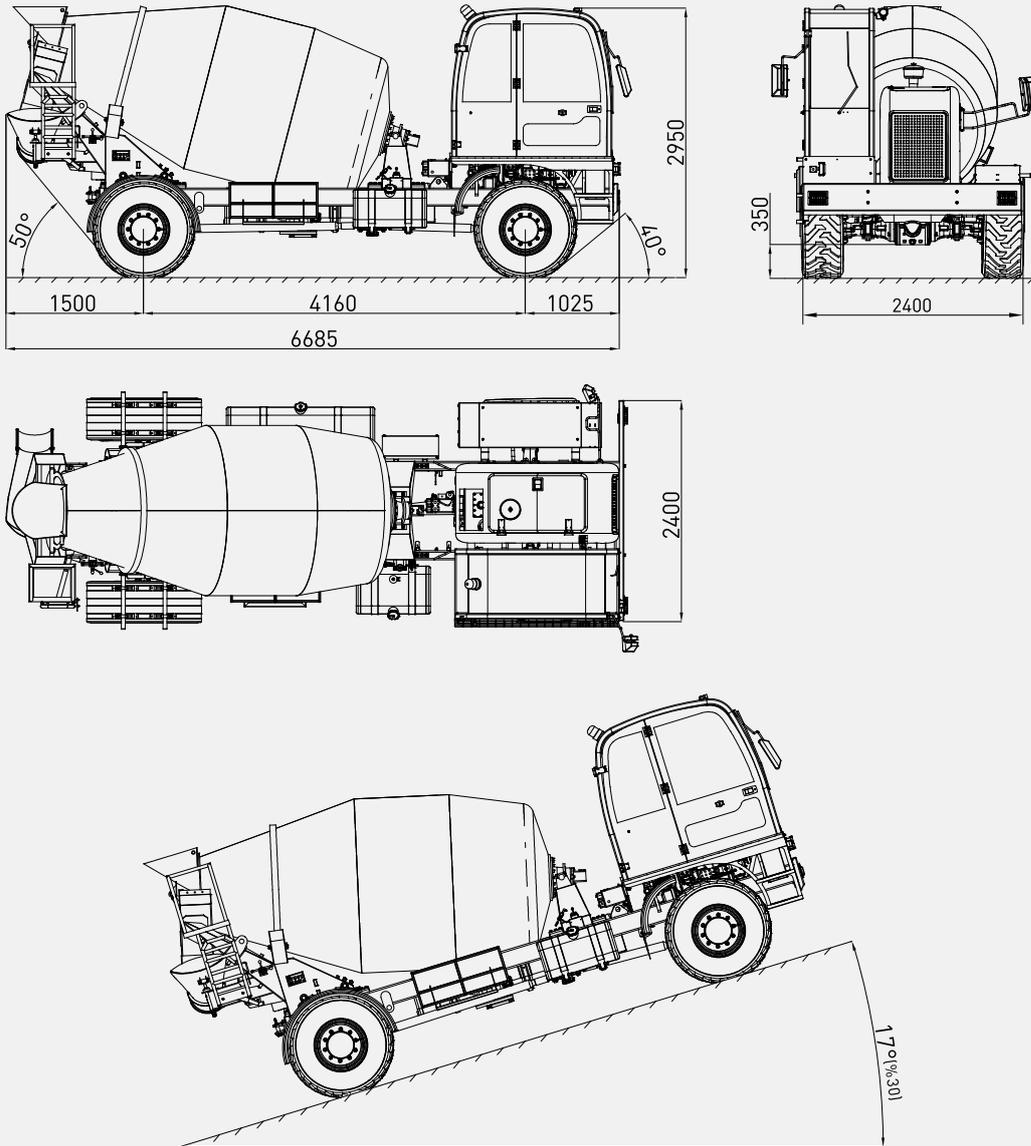


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

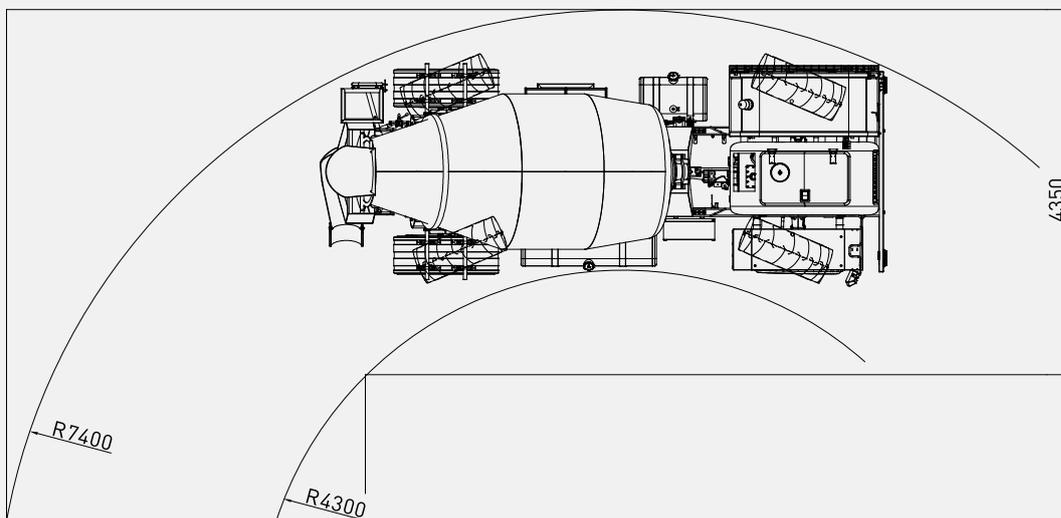


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | |
|--|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 160 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 30% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| HYDRAULIC SYSTEM | |
| Pump Type: | Variable displacement piston and gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 160 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 105 l |
| Return Oil Filter: | 25 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| | 1 x 1500 Lumen Led on operator cabin |
| | 1 x 1500 Lumen Led at rear bumper |
| | Turn signals and taillights |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors | |
| DIMENSIONS & WEIGHT | |
| Weight: | 7100 kg (Approximately) |
| Length: | 6685 mm |
| Width: | 2400 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 4300 mm |
| Outer Turning Radius: | 7400 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery Isolator switch • 2 additional groove | |
| CONCRETE DRUM | |
| Drum Volume: | 7.2 m³ |
| Max. Concrete Capacity (at 9 cm slump): | 5 m³ |
| Drive: | Hydraulic |
| Adjustable Rotating Speed: | 0-18 rpm |
| 1 Lid for cleaning | |
| Hydraulically controlled ecological cover and gutter | |
| Hopper breaking system | |
| Concrete drain cover | |

HIGH PRESSURE WASHING SYSTEM

| | |
|--------------------|-----------|
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flow Rate: | 16 l/min |
| Hose Length | 13 m |
| Water Tank: | 300 l |

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Form oil system
- Spare wheel

YTM05

CONCRETE TRANSMIXER



Horizontal drum with 5 m³ concrete yield



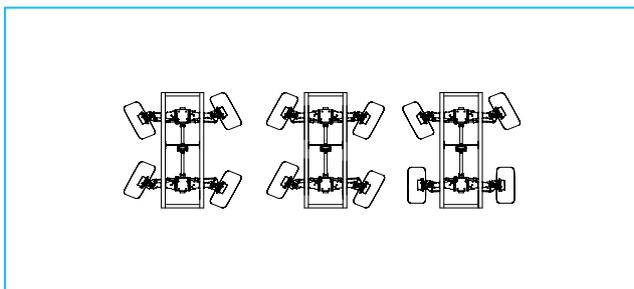
Hydraulic drum tilting up to 8°



Locked type battery isolator switch



Rear view camera and LCD screen in operator cabin

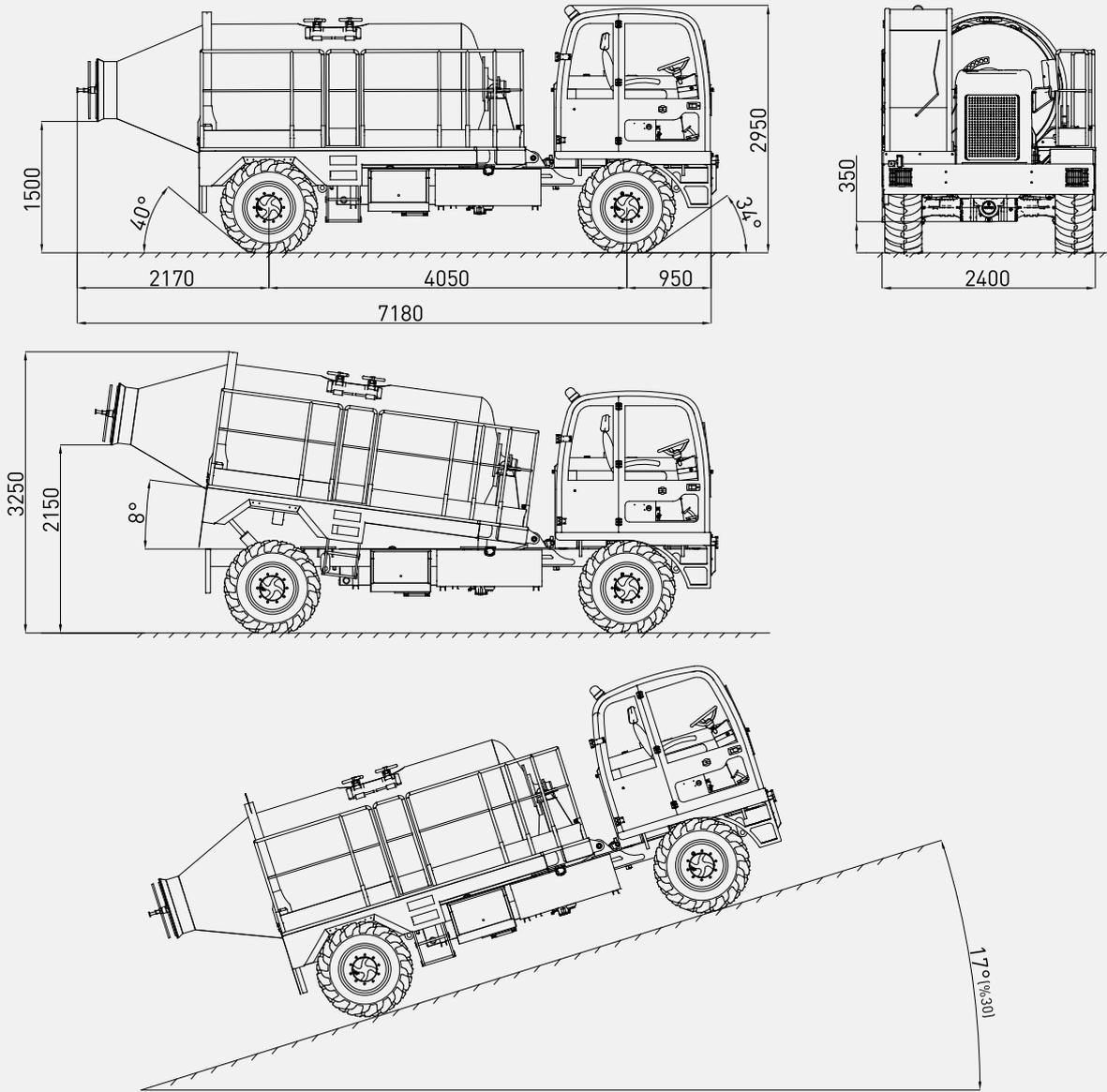


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

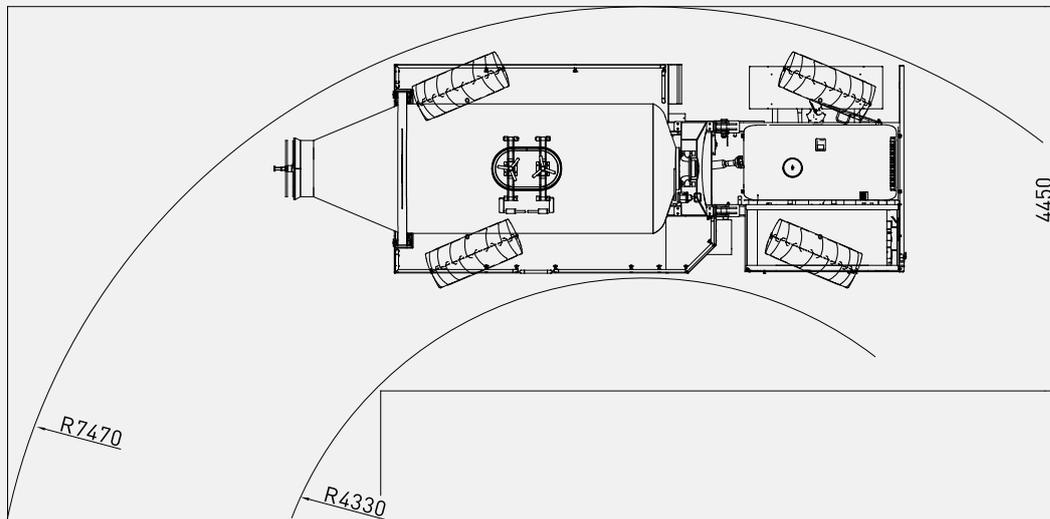


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|--|--------------------------------------|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | JCB Dieselmax 444 TCA-85 | Battery: | 12 V - 150 Ah |
| Max. Power: | 85 kW at 2200 rpm | Protection: | IP65 |
| Max. Torque: | 440 Nm at 1300 rpm | Lights: | 2 x 1500 Lumen Led at front bumper |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 | | 1 x 1500 Lumen Led on operator cabin |
| Diesel Tank: | 140 l | | 1 x 1500 Lumen Led at rear bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Beacon Lamp: | Amber color |
| Make / Model: | JCB PS760 | TITAN CLOSED OPERATOR CABIN | |
| | Powershift | <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors | |
| | Automatic and Manual 4-speed forward | | |
| | Manual 3-speed reverse | | |
| | Four-wheel drive | | |
| AXLES & TYRES | | DIMENSIONS & WEIGHT | |
| Make / Model: | Dana Spicer 223 | Weight: | 8600 kg (Approximately) |
| Type: | Planetary | Max. Weight: | 20600 kg |
| Front Axle: | +/- 8° Oscillating and steerable | Length: | 7180 mm |
| Rear Axle: | Rigid and steerable | Width: | 2400 mm |
| Tyres: | 18-19.5 | Height: | 2950 mm |
| PERFORMANCE | | Inner Turning Radius: | 4330 mm |
| Max. Gradient: | 30% | Outer Turning Radius: | 7470 mm |
| Max. Speed: | 24.5 km/h | MISCELLANEOUS | |
| STEERING | | <ul style="list-style-type: none"> • Warning plates and decals • Tool box • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery Isolator switch | |
| | Four-wheel steering | | |
| | Crab steering | | |
| | Front-wheel steering | | |
| BRAKING SYSTEM | | CONCRETE DRUM | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | Drum Volume: | 6.25 m ³ |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | Max. Concrete Capacity (at 9 cm slump): | 5 m ³ |
| CHASSIS | | Drive: | Hydraulic |
| Type: | Rigid, high strength steel | Drum Tilt Angle: | 8° |
| HYDRAULIC SYSTEM | | Adjustable Rotating Speed: | 0-18 rpm |
| Pump Type: | Variable displacement piston and gear pump | | Manual filling hatch |
| Max. Pressure: | 210 bar | | Hopper breaking system |
| Flow Rate: | 160 l/min at 2200 rpm | | Concrete drain cover |
| Hydraulic Oil Tank: | 105 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

HIGH PRESSURE WASHING SYSTEM

| | |
|--------------------|-----------|
| Pump Drive: | Hydraulic |
| Pressure: | 135 bar |
| Flow Rate: | 16 l/min |
| Hose Length | 13 m |
| Water Tank: | 300 l |

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Spare wheel

AC500

ANFO CHARGER TRUCK



2 pcs remote controlled, hydraulically driven ANFO charging hose feeder



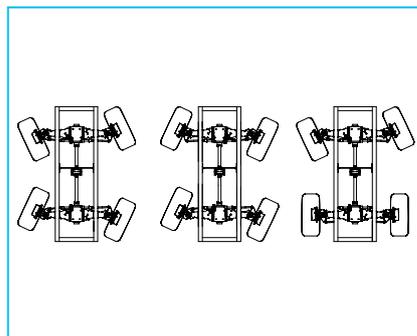
2 x 500 l stainless steel ANFO tanks



Hydraulically driven ANFO charging hose reel



Cable remote control

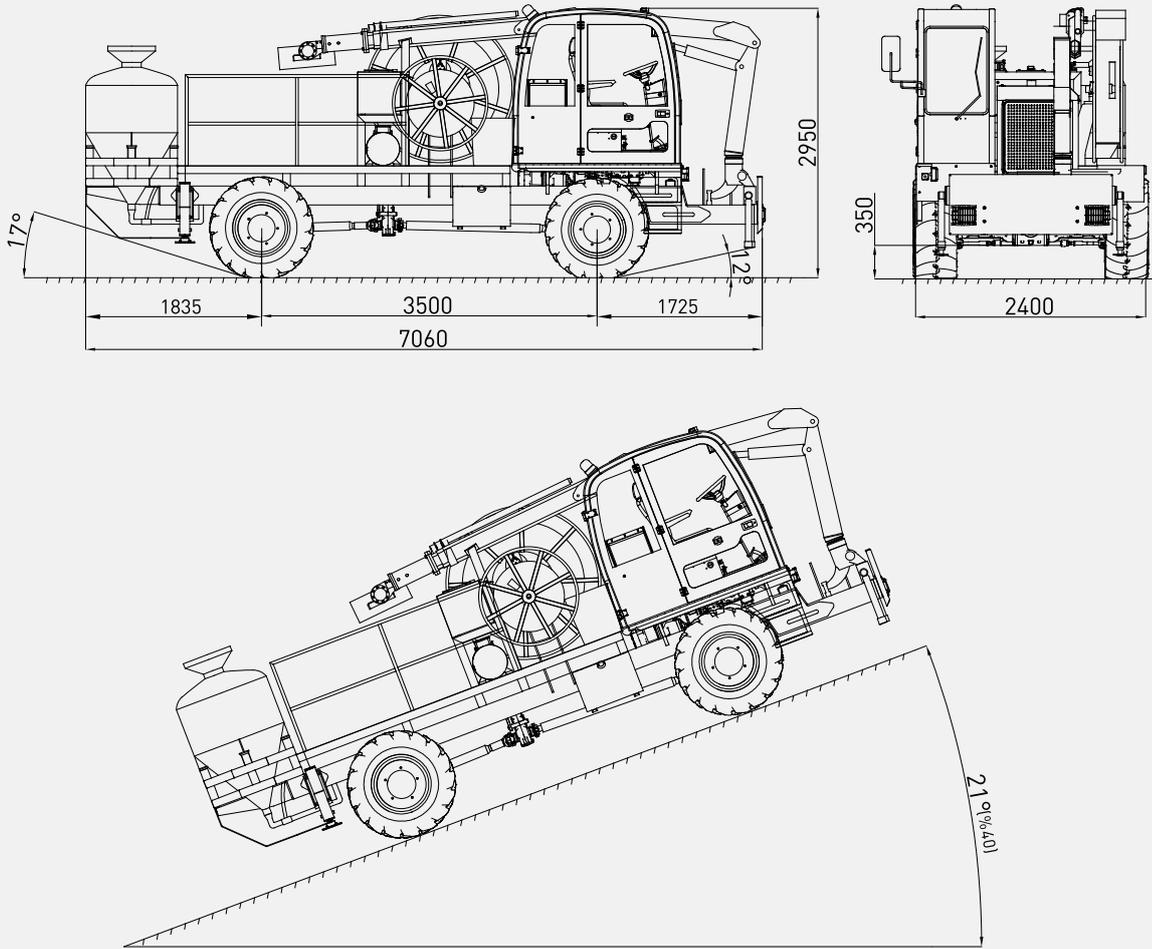


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

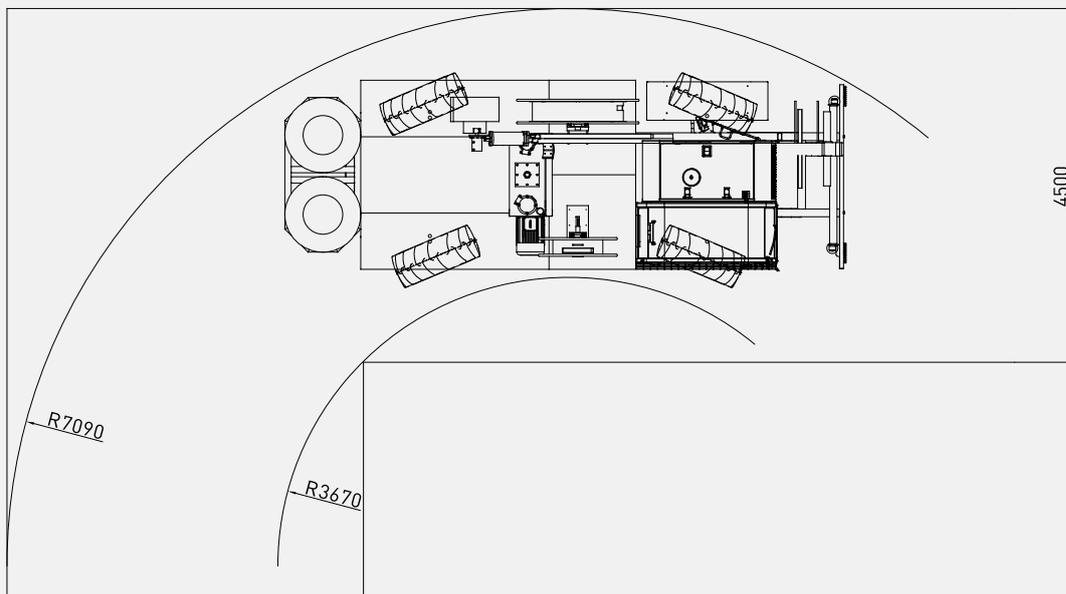


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



AC500

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| | With Catalytic Converter and Silencer |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| | Powershift |
| | Automatic and Manual 4-speed forward |
| | Manual 3-speed reverse |
| | Four-wheel drive |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| | Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, extendible |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Variable displacement piston and gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 150 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 200 l |
| Return Oil Filter: | 25 µm |
| | Oil level, filtration and temperature indicators |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| | 2 x 1500 Lumen Led on operator cabin |
| | 1 x 1500 Lumen Led at rear |
| | 1 x 1500 Lumen Led on boom |
| | Turn signals and taillights |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| | <ul style="list-style-type: none">• Closed 1-person cabin• ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt• Cabin heater• Levers and indicators for all driving controls• In-cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors |
| DIMENSIONS & WEIGHT | |
| Weight: | 8800 kg (Approximately) |
| Length: | 7060 mm |
| Width: | 2400 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 3670 mm |
| Outer Turning Radius: | 7090 mm |
| MISCELLANEOUS | |
| | <ul style="list-style-type: none">• Warning plates and decals• 2x4 kg portable fire extinguisher• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery Isolator switch |
| ANFO TANK | |
| ANFO Tank Capacity: | 2 x 500 l |
| Charging Capacity: | 60 – 120 kg/min |
| Charging Outlet: | 1 ¼" |
| Air Requirement: | 4 – 6 m ³ /min at 6 – 7 bar |
| ANFO Tank Type: | Stainless steel |
| ANFO Hose: | Antistatic, 30/38 mm diameter |
| ANFO Hose Total Length: | 50 m |
| Flow Control Valves: | Manual ball valve |
| | Remote control actuator valve |
| | Hose cleaning valve |

EXPLOSIVE STORAGE BOX

- 2 pcs Antistatic storage box for caps and primary explosives

HOSE FEEDER

- 2 pcs Hydraulically driven ANFO hose feeder. One on board, one on manipulator
- Hydraulically driven winder and unwinder
- Hydraulically proportional hose feed speed
- Remote controlled hose speed between 5 – 20 m/min

ANFO CHARGING HOSE REEL

- Proportional, hydraulically driven
- 60 m ANFO charging hose reel

ELECTRIC CABLE

| | |
|---------------|---|
| Drive: | Hydraulic |
| Power: | 400 V – 50 Hz |
| Cable: | 3 x 25 mm ² + 15 mm ² |

MANIPULATOR

| | |
|-------------------------------|-------|
| Max. Reach Vertical: | 9.6 m |
| Max. Reach Horizontal: | 6.8 m |

CABLE REMOTE CONTROL

Specifications:

- All manipulator movements
- Hose feed
- Hose winder
- Proportional hose feeding speed
- ANFO charge on/off
- Hose length indicator
- Emergency stop
- Horn

OTHER

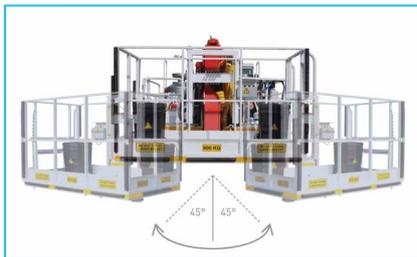
- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Spare wheel

EC2X350

ANFO CHARGER TRUCK



Basket swing +/- 45°



2 x 350 L capacity ANFO tank



ANFO hose reel



Robust boom



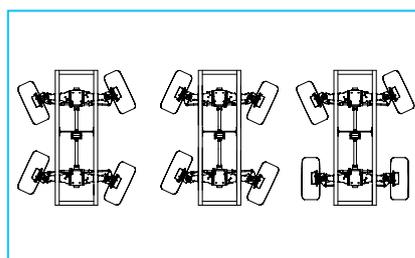
3.5 m³/min – 7 bar – 23 kW hydraulic driven screw compressor



Boom, basket and stabilizers manual controls



Rear view camera and LCD screen in operator cabin

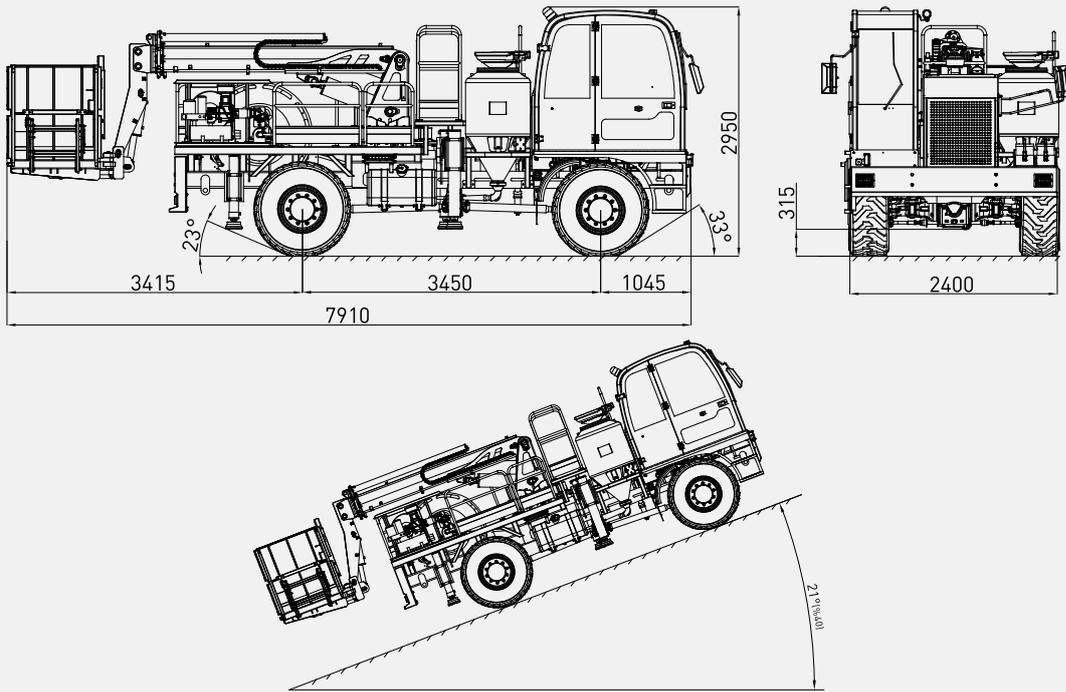


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

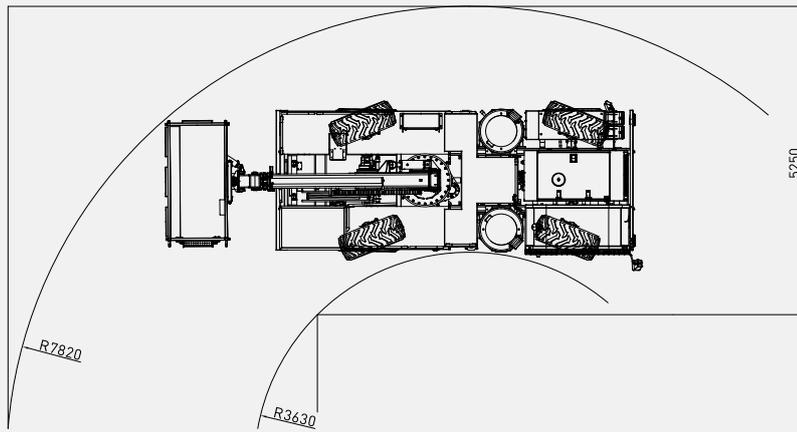


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

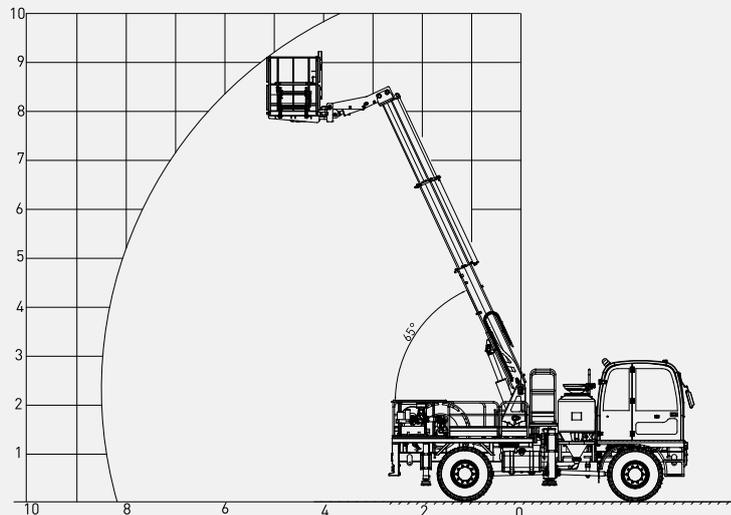
DIMENSIONS & PERFORMANCE



TURNING RADIUS



LIFTING HEIGHT



EC2X350

TECHNICAL SPECIFICATIONS

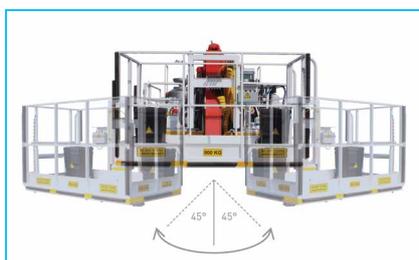
| | |
|------------------------------------|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emission: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| | With Catalytic Converter and Silencer |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| | Powershift |
| | Automatic and Manual 4-speed forward |
| | Manual 3-speed reverse |
| | Four-wheel drive |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| | Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, extendible |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Variable displacement piston and gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 200 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 105 l |
| Return Oil Filter: | 25 µm |
| | Oil level, filtration and temperature indicators |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| | 2 x 1500 Lumen Led on operator cabin |
| | 2 x 1500 Lumen Led at rear bumper |
| | 1 x 1500 Lumen Led on boom |
| | Turn signals and taillights |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| | <ul style="list-style-type: none">• Closed 1-person cabin• ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt• Cabin heater• Levers and indicators for all driving controls• In-cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors |
| DIMENSIONS & WEIGHT | |
| Weight: | 11500 kg (Approximately) |
| Length: | 7910 mm |
| Width: | 2400 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 3630 mm |
| Outer Turning Radius: | 7820 mm |
| MISCELLANEOUS | |
| | <ul style="list-style-type: none">• Warning plates and decals• 2x4 kg portable fire extinguisher• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery Isolator switch |

| BOOM & BASKET | |
|---|--|
| Basket Dimension: | 2000 x 1000 mm |
| Max. Lifting Capacity: | 800 kg |
| Max. Lifting Height (Basket Base): | 7.96 m |
| Basket Swing: | +/- 45° |
| Max. Boom Angle: | 65° |
| Basket Tilt: | +/- 5° |
| Boom Rotation: | +/- 90° |
| Parallelism: | Automatic |
| | Electro-hydraulic driven control unit |
| | Control system with tank selection, in-hole cleaning and tank on/off feature on the basket |
| ANFO CHARGING UNIT | |
| ANFO Tank Capacity: | 2 x 350 l |
| ANFO Tank: | Stainless steel, with cap and screen |
| ANFO Hose: | Antistatic, Ø18/26mm |
| ANFO Hose Total Length: | 25 m |
| | Manual hose feeding. There is no hose feeder or pusher on the machine. Hose feeding and rewinding is done manually |
| COMPRESSOR | |
| | <ul style="list-style-type: none"> • 3.5 m³/min – 7 bar – 23 kW hydraulic driven screw compressor |
| SAFETY | |
| | <ul style="list-style-type: none"> • Conforms to EN280 mobile elevating work platforms standard • Manual emergency boom movement control • Front stabilisers must be used to allow basket movements • 2 pcs emergency stop buttons; one on basket one on the machine • 2 pcs mechanical inclinometer for rolling and pitching angle indication • 2 pcs electronic inclinometer sensor for rolling and pitching angles • +/- 4° rolling angle limitation • +/- 5° pitching angle limitation • Weight moment control system for basket • Platform access ladder • Rubber chocks on basket for bump protection |
| OTHER | |
| | <ul style="list-style-type: none"> • Centralized greasing system • Lid with screen preventing lumped ANFO loading • Antistatic storage box for caps and primary explosives |

| OPTIONS |
|---|
| <ul style="list-style-type: none"> • Automatic centralized lubrication system • Air-conditioner (Heating and Cooling) in the cabin • Manual activated fire extinguishing system • Automatic and manual activated fire extinguishing system (Linear wired) • Caliper brake system • 2nd seat in the cabin • 12 V emergency steering • Diesel particulate filter - DPF • EU Stage 5 diesel engine • Rear view camera and LCD monitor in operator cabin • Additional side view camera • Spare wheel • Cable remote control |

SP1500

BASKET BOOM TRUCK



Basket swing +/-45°



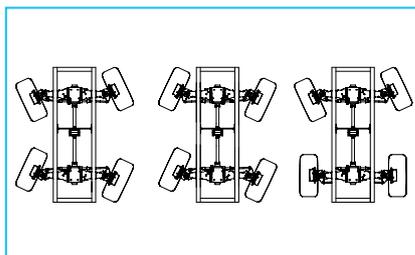
Basket with automatic parallelism conforms to EN280 standard



Robust boom



Boom, basket and stabilizer manual controls, pressure indicator

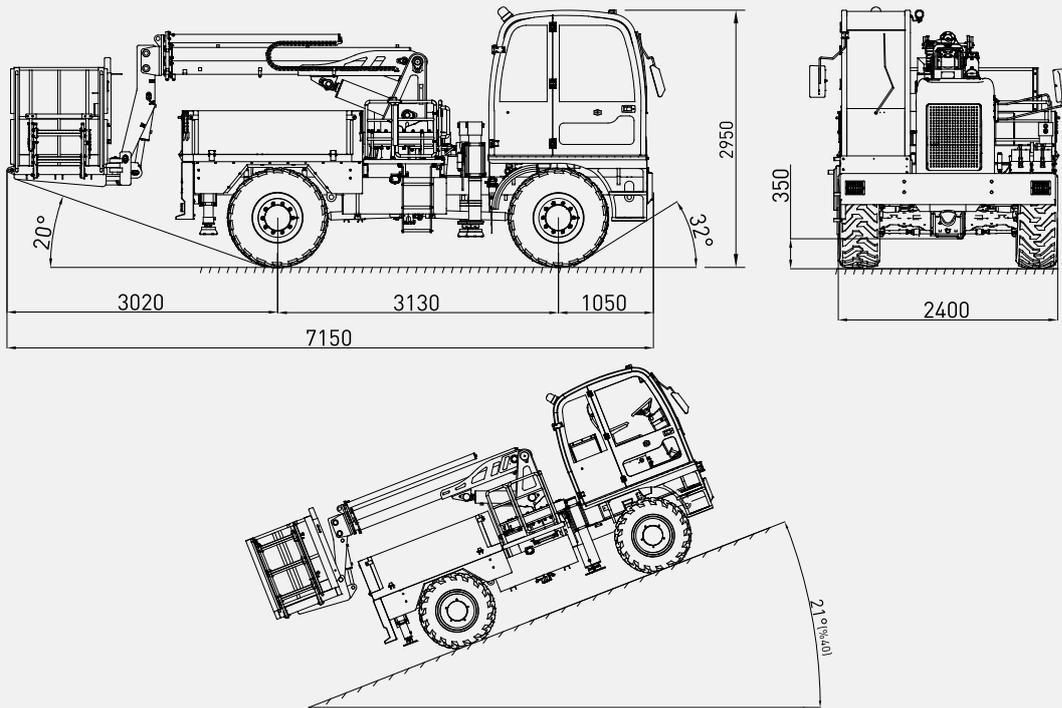


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

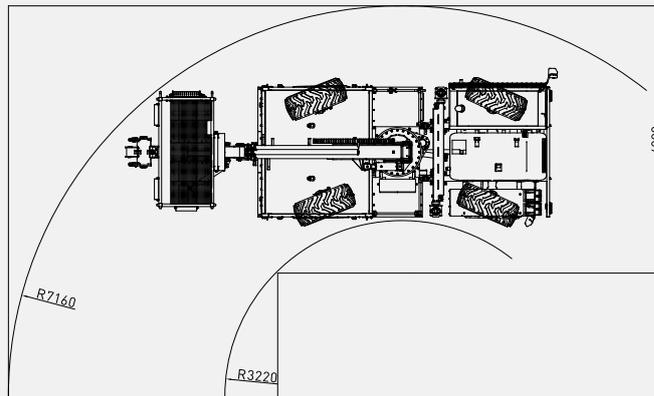


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

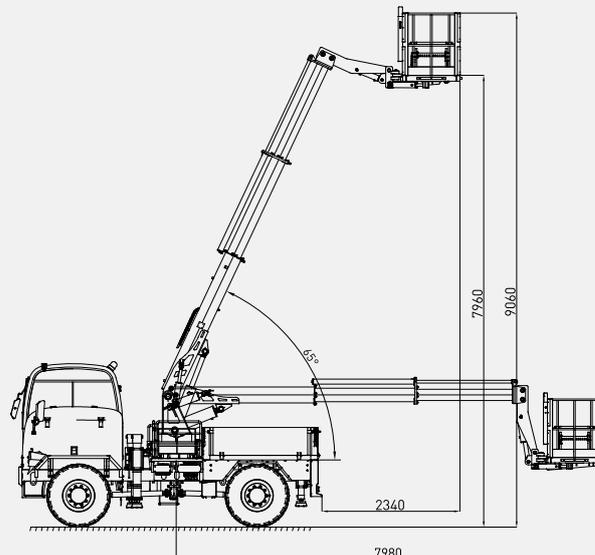
DIMENSIONS & PERFORMANCE



TURNING RADIUS



LIFTING HEIGHT



SP1500

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emissions: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, extendible |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 75 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 105 l |
| Return Oil Filter: | 25 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| 1 x 1500 Lumen Led on operator cabin | |
| 2 x 1500 Lumen Led at rear bumper | |
| 1 x 1500 Lumen Led on boom | |
| Turn signals and taillights | |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none">• Closed 1-person cabin• ROPS and level 2 FOPS certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt• Cabin heater• Levers and indicators for all driving controls• In-cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors | |
| DIMENSIONS & WEIGHT | |
| Weight: | 9900 kg (Approximately) |
| Length: | 7150 mm |
| Width: | 2400 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 3220 mm |
| Outer Turning Radius: | 7160 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none">• Warning plates and decals• Tool box• 2x4 kg portable fire extinguisher• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery Isolator switch | |
| BOOM & BASKET | |
| Basket Dimension: | 2000 x 1000 mm |
| Max. Lifting Capacity: | 800 kg |
| Max. Lifting Height (Basket Base): | 7.96 m |
| Basket Swing: | +/- 45° |
| Max. Boom Angle: | 65° |
| Basket Tilt: | +/- 5° |
| Parallelism: | Automatic |
| Electro-hydraulic driven control unit | |

SAFETY

- Conforms to EN280 mobile elevating work platforms standard
- Manual emergency boom movement control
- Front stabilisers must be used to allow basket movements
- 2 pcs emergency stop buttons; one on basket one on the machine
- 2 pcs mechanical inclinometer for rolling and pitching angle indication
- 2 pcs electronic inclinometer sensor for rolling and pitching angles
- +/- 4° rolling angle limitation
- +/- 5° pitching angle limitation
- Weight moment control system for basket
- Platform access ladder
- Rubber chocks on basket for bump protection

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Spare wheel
- Cable remote control

MP2X3

SCISSOR LIFT



3200 x 2000 mm platform dimensions,
1500 kg lifting capacity with 3.56 m



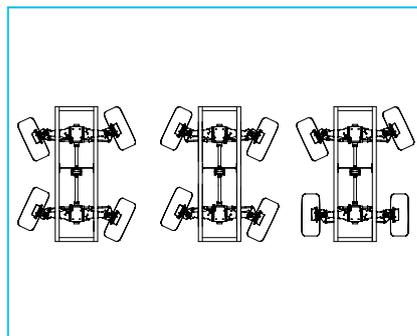
Platform and legs controllable from 2 panels



Cable or wireless remote control for all lift and
platform functions (optional)



Rear view camera and LCD screen in operator cabin

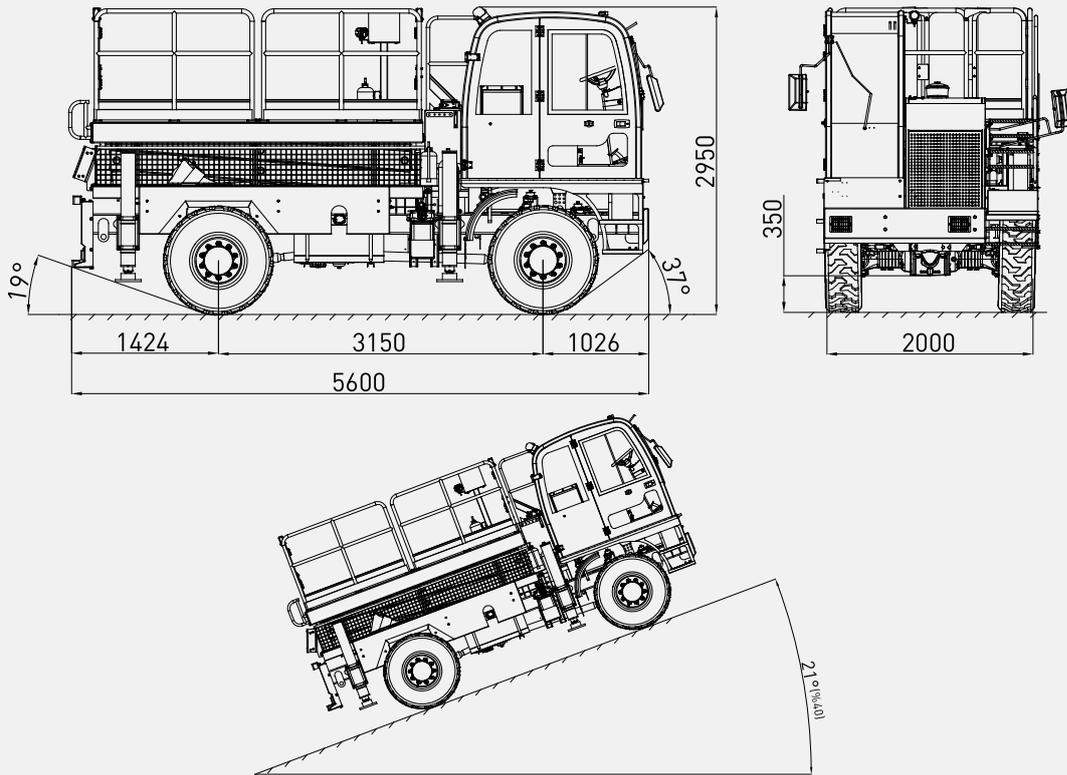


3 steering modes; Four-wheel steering,
Front-wheel steering and Crab steering

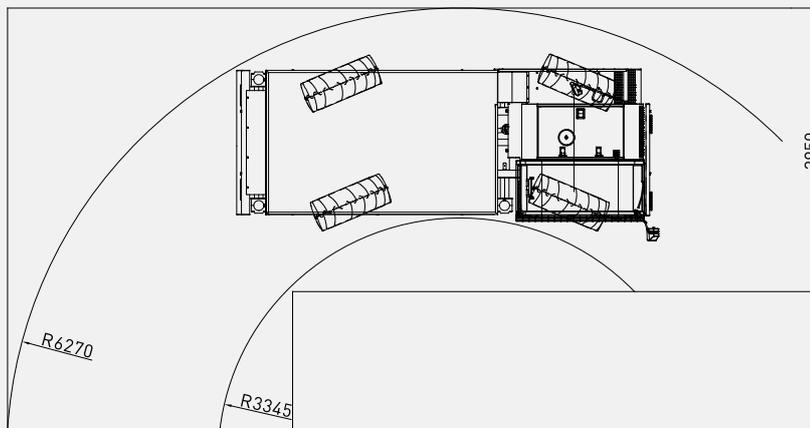


ROPS and FOPS level 2 certified closed operator cabin
with 180° pivoting operator's seat

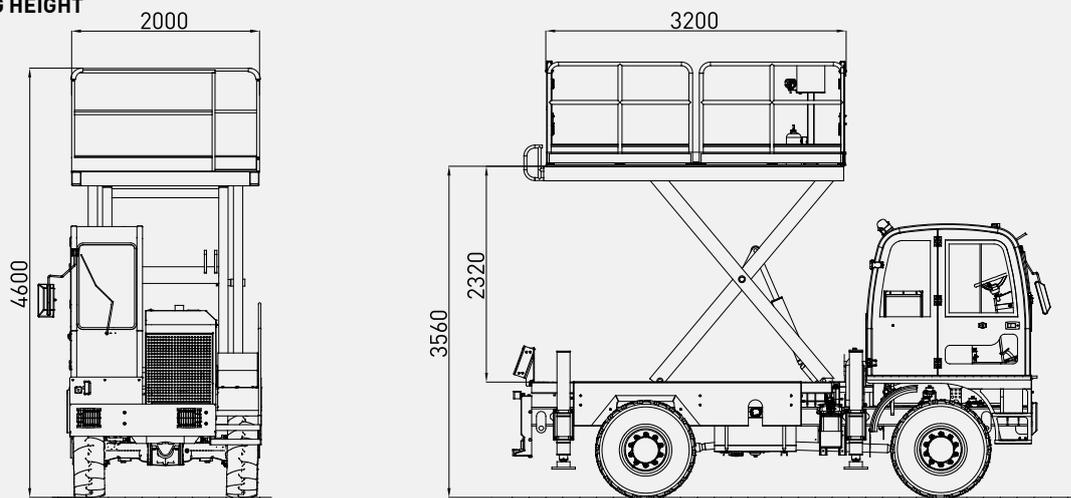
DIMENSIONS & PERFORMANCE



TURNING RADIUS



LIFTING HEIGHT



MP2X3

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emissions: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD55 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 12.5-20 / 10-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR Fail safe |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| Front Stabilisers: | 2 pcs, fixed |
| Rear Stabilisers: | 2 pcs, fixed |
| HYDRAULIC SYSTEM | |
| Pump Type: | Gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 55 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 130 l |
| Return Oil Filter: | 25 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| 1 x 1500 Lumen Led on operator cabin | |
| 2 x 1500 Lumen Led at rear bumper | |
| Turn signals and taillights | |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none">• Closed 1-person cabin• ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)• Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt• Cabin heater• Levers and indicators for all driving controls• In-cabin radio output and location (12V)• Cabin lighting• Heated wing mirrors | |
| DIMENSIONS & WEIGHT | |
| Weight: | 7500 kg (Approximately) |
| Length: | 5600 mm |
| Width: | 2000 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 3345 mm |
| Outer Turning Radius: | 6270 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none">• Warning plates and decals• 2x4 kg portable fire extinguisher• 2 pcs Wheel chocks• Front and rear towbar• Back-up alarm and light• Battery Isolator switch | |
| LIFTING PLATFORM | |
| Lifting Platform Dimension: | 3200 x 2000 mm |
| Max. Lifting Capacity: | 1500 kg |
| Max. Lifting Height: | 3.56 m |
| <ul style="list-style-type: none">• Platform and legs controllable from 2 panels• Tool box on platform• Standard compliant kickplate around the platform• Manual emergency lowering system when platform is open | |

SAFETY

- Conforms to EN280 mobile elevating work platforms standard
- Emergency platform lowering system
- Scissors cannot be moved without support legs touching the ground.
- Platform climbing steps
- 2 stop buttons placed on the machine (on the panel, on the platform)
- 2 pcs mechanical inclinometer at chassis
- +/- 4° rolling angle limitation
- Sensor system that disables collecting support legs until the platform is completely lowered.
- Door open warning system

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- +/- 500 mm side shift function
- Platform size and lifting capacity on demand
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Spare wheel
- Cable or wireless remote control

VK10

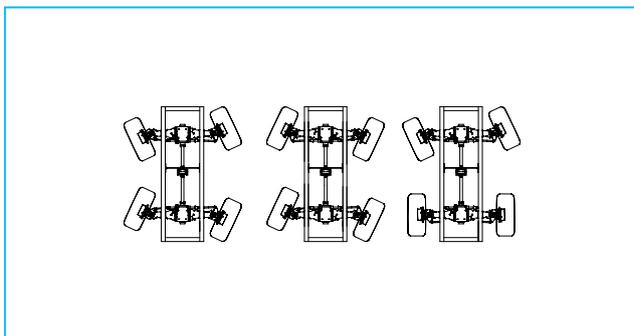
CRANE TRUCK



820 kg lifting capacity at 7.1 m



Rear view camera and LCD screen in operator cabin

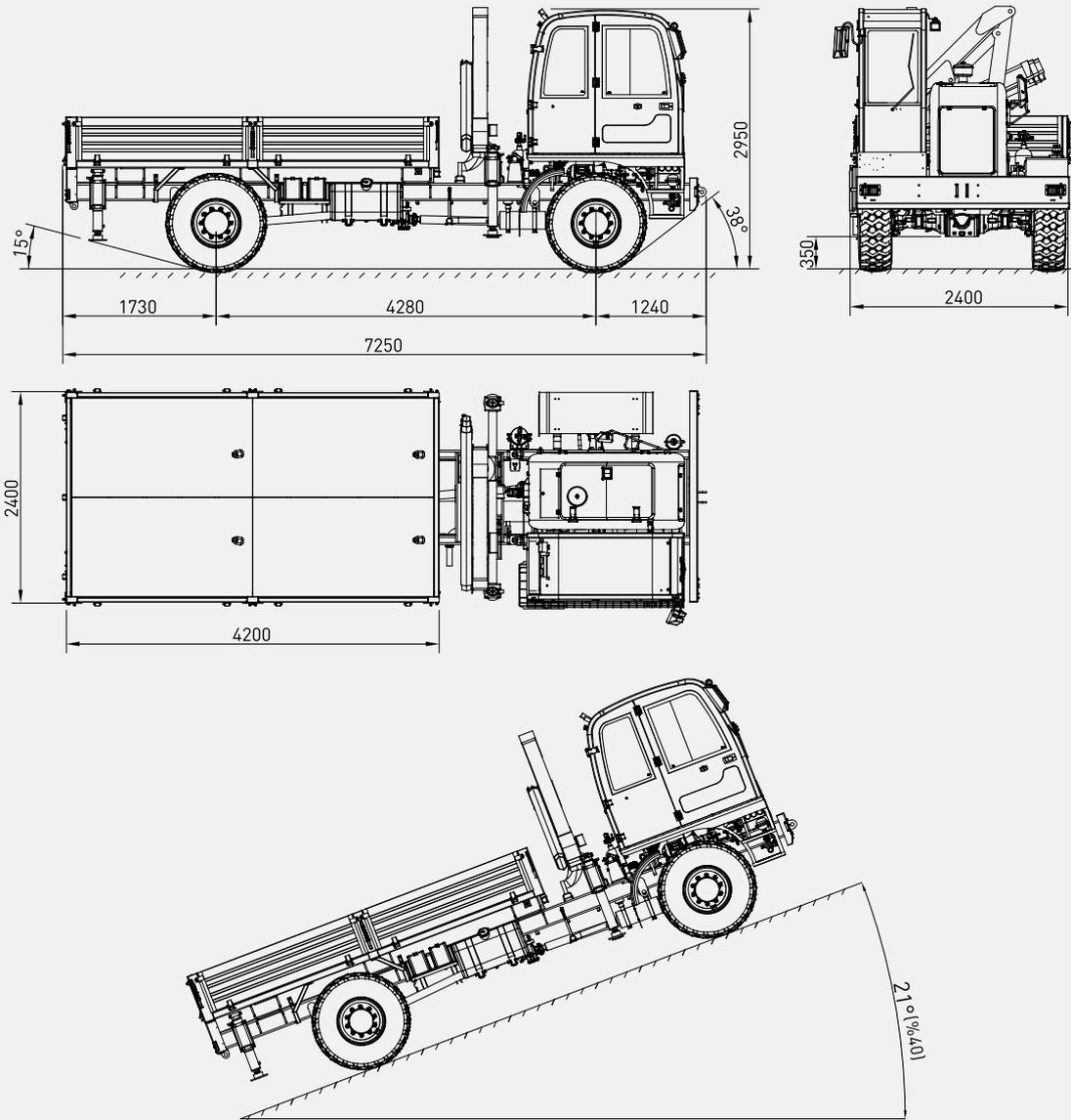


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

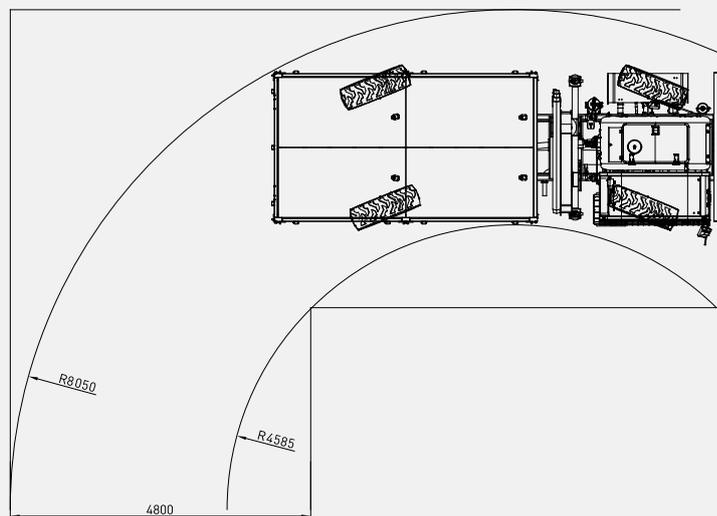


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|--|--------------------------------------|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | JCB Dieselmax 444 TCA-85 | Battery: | 12 V - 150 Ah |
| Max. Power: | 85 kW at 2200 rpm | Protection: | IP65 |
| Max. Torque: | 440 Nm at 1300 rpm | Lights: | 2 x 1500 Lumen Led at front bumper |
| Engine Emissions: | EU Stage 3A / US EPA Tier 3 | | 1 x 1500 Lumen Led on operator cabin |
| Diesel Tank: | 120 l | | 2 x 1500 Lumen Led at rear bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Beacon Lamp: | Amber color |
| Make / Model: | JCB PS760 | TITAN CLOSED OPERATOR CABIN | |
| | Powershift | <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors | |
| | Automatic and Manual 4-speed forward | | |
| | Manual 3-speed reverse | | |
| | Four-wheel drive | | |
| AXLES & TYRES | | DIMENSIONS & WEIGHT | |
| Make / Model: | JCB SD70 | Weight: | 6500 kg (Approximately) |
| Type: | Planetary | Length: | 7250 mm |
| Front Axle: | +/- 8° Oscillating and steerable | Width: | 2400 mm |
| Rear Axle: | Rigid and steerable | Height: | 2950 mm |
| Tyres: | 16.00 / 70-20 | Inner Turning Radius: | 4585 mm |
| PERFORMANCE | | Outer Turning Radius: | 8050 mm |
| Max. Gradient: | 40% | MISCELLANEOUS | |
| Max. Speed: | 24.5 km/h | <ul style="list-style-type: none"> • Warning plates and decals • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery Isolator switch | |
| STEERING | | CRANE | |
| | Four-wheel steering | Max. Reach: | 7.1 m |
| | Crab steering | <ul style="list-style-type: none"> • 820 kg capacity at 7.1 meters • System with rack • Weight control system | |
| | Front-wheel steering | | |
| BRAKING SYSTEM | | PICK-UP BOX | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | Dimensions: | 2400 x 4200 x 500 mm |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | Capacity: | 10000 kg |
| CHASSIS | | <ul style="list-style-type: none"> • Right, left and back covers can be opened and closed | |
| Type: | Rigid, high strength steel | | |
| Front Stabilisers: | 2 pcs, extendible | | |
| Rear Stabilisers: | 2 pcs, extendible | | |
| HYDRAULIC SYSTEM | | | |
| Pump Type: | Fixed displacement piston and gear pump | | |
| Max. Pressure: | 350 bar | | |
| Flow Rate: | 65 l/min at 2200 rpm | | |
| Hydraulic Oil Tank: | 105 l | | |
| Return Oil Filter: | 25 µm | | |
| | Oil level, filtration and temperature indicators | | |

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Remote control for crane movements
- Alternative crane options
- Spare wheel

DK16

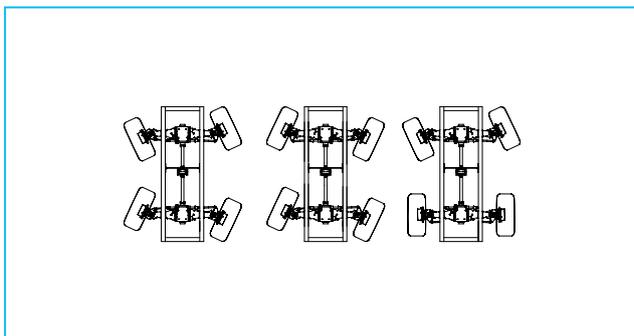
DUMPER TRUCK



Heavy duty reinforced structure with 12.000 kg load capacity



Rear view camera and LCD screen in operator cabin

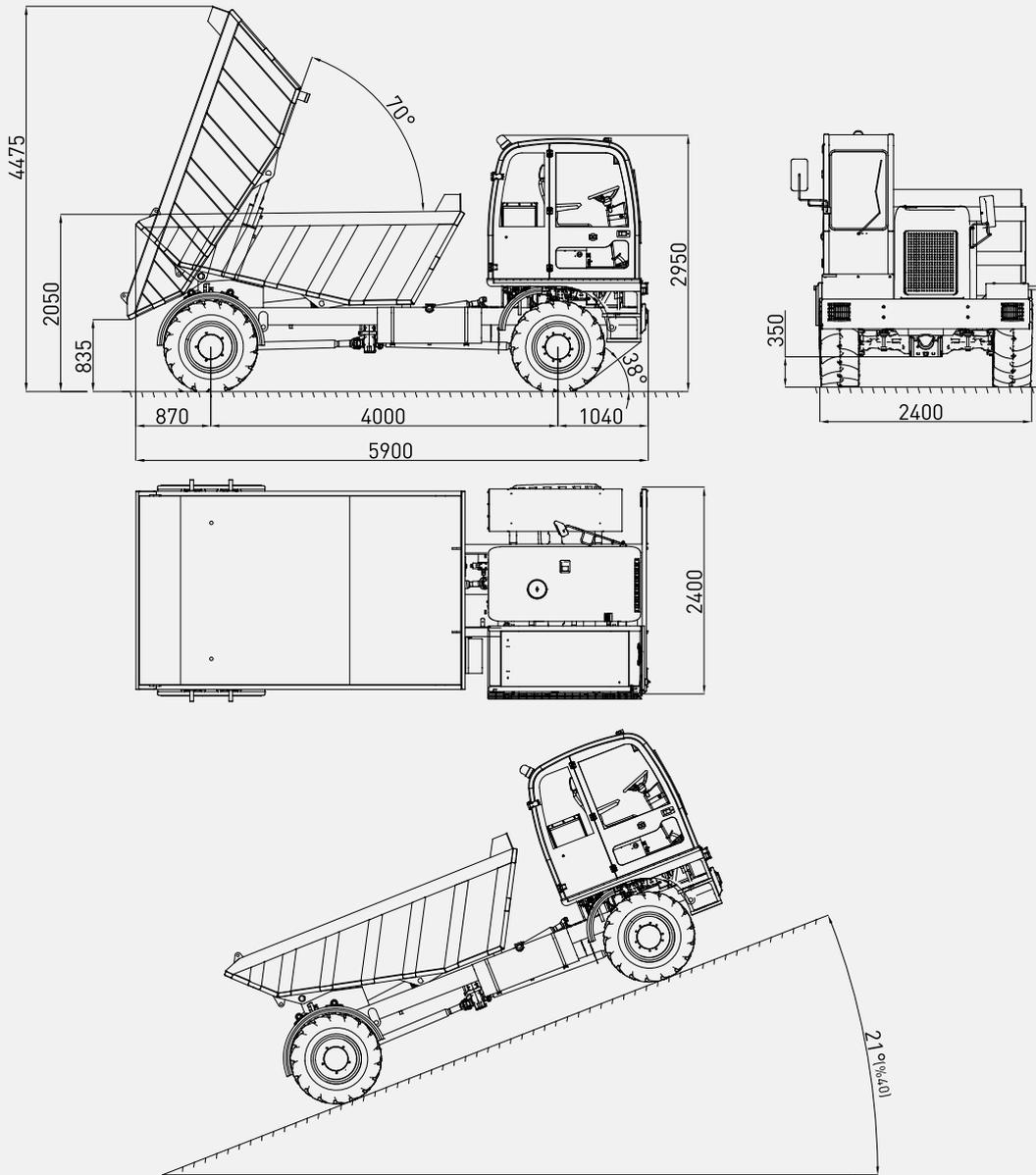


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

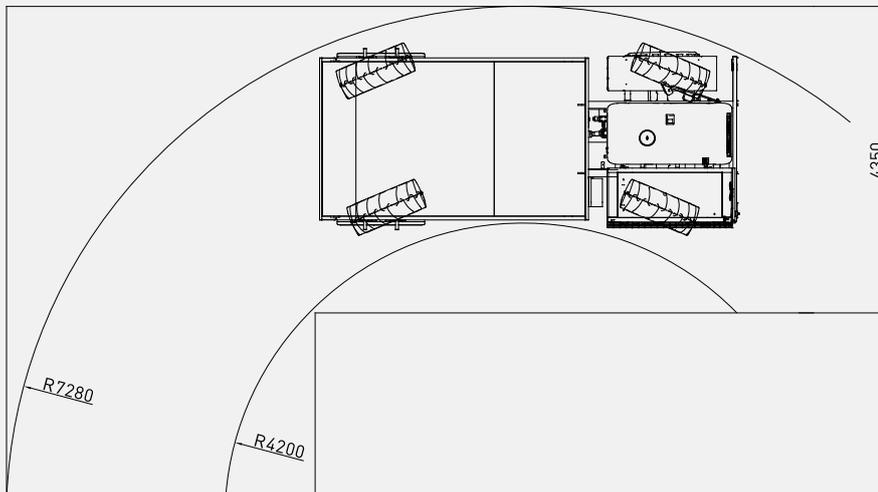


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | |
|--|---|
| DIESEL ENGINE | |
| Make / Model: | JCB Dieselmax 444 TCA-85 |
| Max. Power: | 85 kW at 2200 rpm |
| Max. Torque: | 440 Nm at 1300 rpm |
| Engine Emissions: | EU Stage 3A / US EPA Tier 3 |
| Diesel Tank: | 140 l |
| With Catalytic Converter and Silencer | |
| TRANSMISSION | |
| Make / Model: | JCB PS760 |
| Powershift | |
| Automatic and Manual 4-speed forward | |
| Manual 3-speed reverse | |
| Four-wheel drive | |
| AXLES & TYRES | |
| Make / Model: | JCB SD70 |
| Type: | Planetary |
| Front Axle: | +/- 8° Oscillating and steerable |
| Rear Axle: | Rigid and steerable |
| Tyres: | 16.00 / 70-20 |
| PERFORMANCE | |
| Max. Gradient: | 40% |
| Max. Speed: | 24.5 km/h |
| STEERING | |
| Four-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 released SAHR |
| Fail safe | |
| Retarder: | 4 level |
| CHASSIS | |
| Type: | Rigid, high strength steel |
| HYDRAULIC SYSTEM | |
| Pump Type: | Gear pump |
| Max. Pressure: | 210 bar |
| Flow Rate: | 60 l/min at 2200 rpm |
| Hydraulic Oil Tank: | 105 l |
| Return Oil Filter: | 25 µm |
| Oil level, filtration and temperature indicators | |
| ELECTRIC SYSTEM | |
| Battery: | 12 V - 150 Ah |
| Protection: | IP65 |
| Lights: | 2 x 1500 Lumen Led at front bumper |
| 1 x 1500 Lumen Led on operator cabin | |
| 1 x 1500 Lumen Led at rear bumper | |
| Turn signals and taillights | |
| Beacon Lamp: | Amber color |
| TITAN CLOSED OPERATOR CABIN | |
| <ul style="list-style-type: none"> • Closed 1-person cabin • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt • Cabin heater • Levers and indicators for all driving controls • In-cabin radio output and location (12V) • Cabin lighting • Heated wing mirrors | |
| DIMENSIONS & WEIGHT | |
| Weight: | 6500 kg (Approximately) |
| Length: | 5900 mm |
| Width: | 2400 mm |
| Height: | 2950 mm |
| Inner Turning Radius: | 4200 mm |
| Outer Turning Radius: | 7280 mm |
| MISCELLANEOUS | |
| <ul style="list-style-type: none"> • Warning plates and decals • 2x4 kg portable fire extinguisher • 2 pcs Wheel chocks • Front and rear towbar • Back-up alarm and light • Battery Isolator switch | |
| LOADING CAPACITY | |
| Stuck Capacity: | 5.3 m ³ |
| SAE Heaped Capacity: | 7.1 m ³ |
| Max. Load Capacity: | 12000 kg |
| DUMP BODY | |
| Reinforced structure | |
| Hydraulic tilting by 2 cylinders | |
| Dump Angle: | 70° |

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 2nd seat in the cabin
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Additional side view camera
- Rear view camera and LCD monitor in operator cabin
- Spare wheel

PT16

PERSONNEL CARRIER



ROPS and FOPS level 2 certified closed personnel cabin



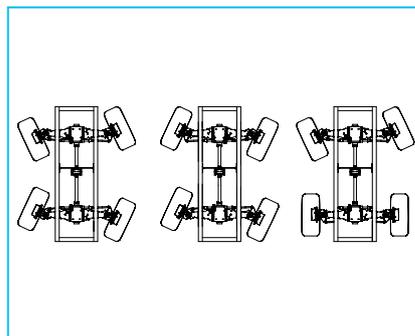
Intercom between personnel and operator cabin, Personnel door open indicator in the operator cabin



Air conditioner (Heating and Cooling) in the cabin (optional)



Rear view camera and LCD screen in operator cabin

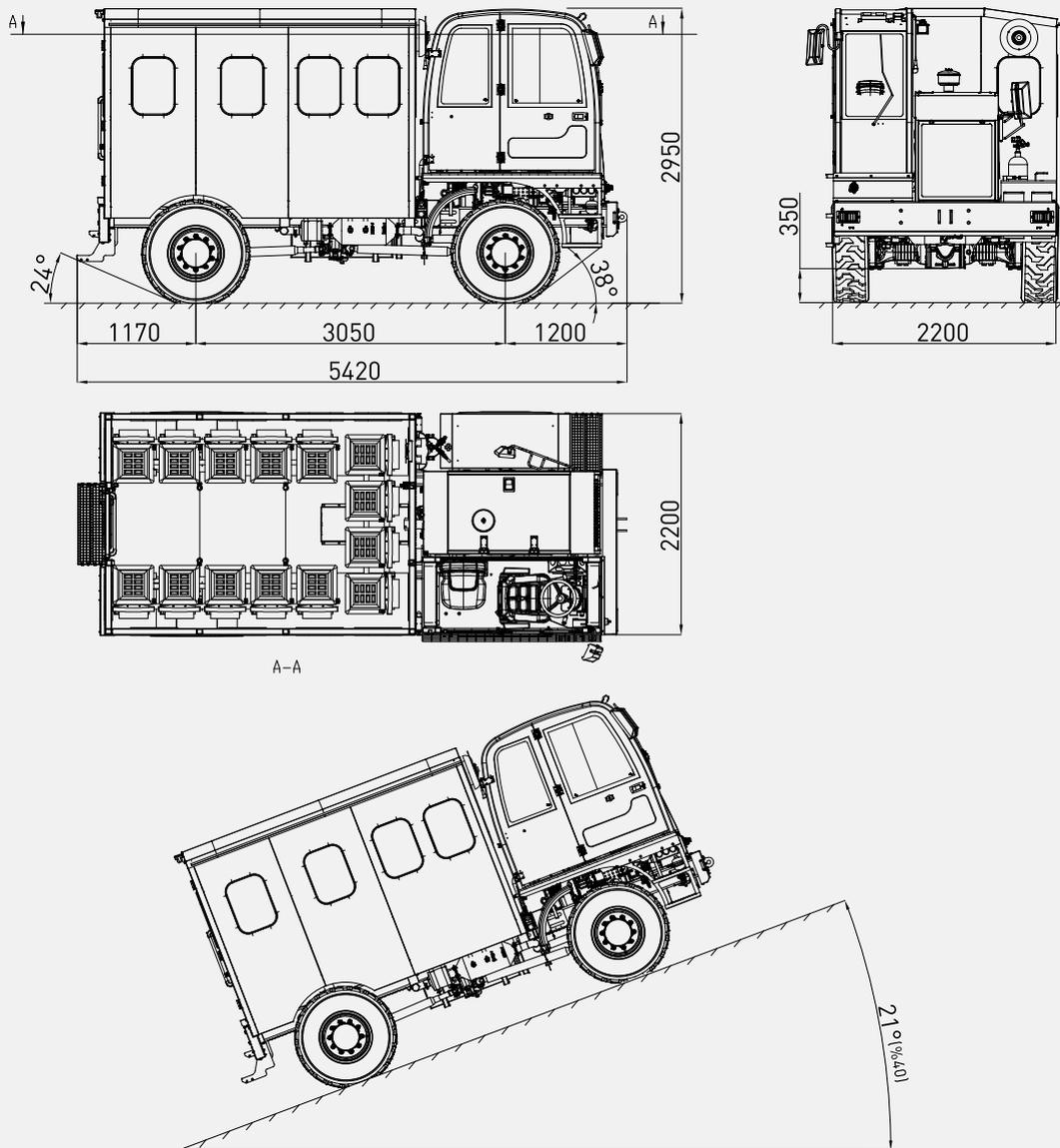


3 steering modes; Four-wheel steering, Front-wheel steering and Crab steering

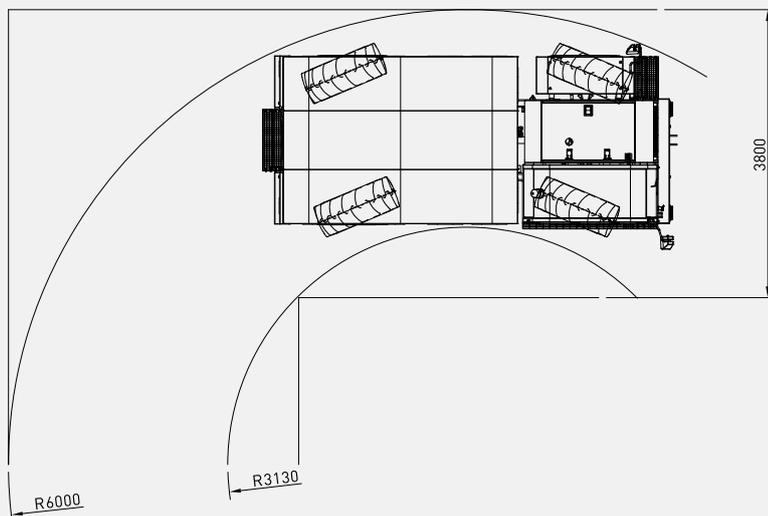


ROPS and FOPS level 2 certified closed operator cabin with 180° pivoting operator's seat

DIMENSIONS & PERFORMANCE



TURNING RADIUS



TECHNICAL SPECIFICATIONS

| | | | |
|------------------------------|---|---|--------------------------------------|
| DIESEL ENGINE | | ELECTRIC SYSTEM | |
| Make / Model: | JCB Dieselmax 444 TCA-85 | Battery: | 12 V - 150 Ah |
| Max. Power: | 85 kW at 2200 rpm | Protection: | IP65 |
| Max. Torque: | 440 Nm at 1300 rpm | Lights: | 2 x 1500 Lumen Led at front bumper |
| Engine Emissions: | EU Stage 3A / US EPA Tier 3 | | 1 x 1500 Lumen Led on operator cabin |
| Diesel Tank: | 80 l | | 2 x 1500 Lumen Led at rear bumper |
| | With Catalytic Converter and Silencer | | Turn signals and taillights |
| TRANSMISSION | | Beacon Lamp: | Amber color |
| Make / Model: | JCB PS760 | TITAN CLOSED OPERATOR CABIN | |
| | Powershift | <ul style="list-style-type: none"> • Closed 2-person cabin | |
| | Automatic and Manual 4-speed forward | <ul style="list-style-type: none"> • ROPS and FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) | |
| | Manual 3-speed reverse | <ul style="list-style-type: none"> • Mechanical suspension with manual tilt, weight, height adjustable, 180° pivotable ergonomic seat with seat belt | |
| | Four-wheel drive | <ul style="list-style-type: none"> • Cabin heater | |
| AXLES & TYRES | | <ul style="list-style-type: none"> • Levers and indicators for all driving controls | |
| Make / Model: | JCB SD55 | <ul style="list-style-type: none"> • In-cabin radio output and location (12V) | |
| Tip: | Planet | <ul style="list-style-type: none"> • Cabin lighting | |
| Front Axle: | +/- 8° Oscillating and steerable | <ul style="list-style-type: none"> • Heated wing mirrors | |
| Rear Axle: | Rigid and steerable | DIMENSIONS & WEIGHT | |
| Tyres: | 12.5-20 / 10-20 | Weight: | 7150 kg (Approximately) |
| PERFORMANCE | | Length: | 5420 mm |
| Max. Gradient: | 40% | Width: | 2200 mm |
| Max. Speed: | 24.5 km/h | Height: | 2950 mm |
| STEERING | | Inner Turning Radius: | 3130 mm |
| | Four-wheel steering | Outer Turning Radius: | 6000 mm |
| | Crab steering | MISCELLANEOUS | |
| | Front-wheel steering | <ul style="list-style-type: none"> • Warning plates and decals | |
| BRAKING SYSTEM | | <ul style="list-style-type: none"> • 2x2 kg portable fire extinguisher | |
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles | <ul style="list-style-type: none"> • 2 pcs Wheel chocks | |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR Fail safe | <ul style="list-style-type: none"> • Front and rear towbar | |
| CHASSIS | | <ul style="list-style-type: none"> • Back-up alarm and light | |
| Type: | Rigid, high strength steel | <ul style="list-style-type: none"> • Battery Isolator switch | |
| HYDRAULIC SYSTEM | | PERSONNEL CABIN | |
| Pump Type: | Fixed displacement | <ul style="list-style-type: none"> • Closed 14-person cabin | |
| Max. Pressure: | 200 bar | <ul style="list-style-type: none"> • ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008) | |
| Flow Rate: | 60 l/min at 2200 rpm | <ul style="list-style-type: none"> • Cabin heater | |
| Hydraulic Oil Tank: | 80 l | <ul style="list-style-type: none"> • 1 Outward opening door | |
| Return Oil Filter: | 25 µm | <ul style="list-style-type: none"> • Mica glass windows | |
| | Oil level, filtration and temperature indicators | <ul style="list-style-type: none"> • Ergonomic 2 point seat belt seats | |
| | | <ul style="list-style-type: none"> • Amber color beacon on the cabin | |
| | | <ul style="list-style-type: none"> • Cabin lighting | |
| | | <ul style="list-style-type: none"> • Intercom between personnel cabin and operator cabin | |
| | | <ul style="list-style-type: none"> • Personnel door open indicator in the operator's cabin | |

OTHER

- Centralized greasing system

OPTIONS

- Automatic centralized lubrication system
- Air-conditioner (Heating and Cooling) in the cabin
- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- Caliper brake system
- 12 V emergency steering
- Diesel particulate filter - DPF
- EU Stage 5 diesel engine
- Rear view camera and LCD monitor in operator cabin
- Additional side view camera
- Spare wheel

Titan

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Titan

MUV5

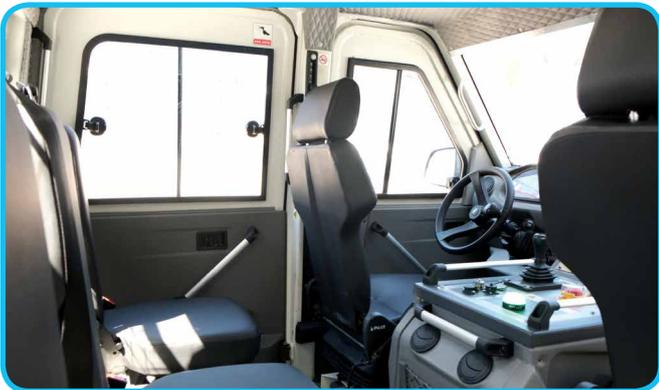


Multipurpose
Utility Vehicle

Titan

MUV5 MULTIPURPOSE UTILITY VEHICLE

ROPS & FOPS level 2 certified operator cabin, suitable for working in underground mines, 4x4 chassis mounted with powershift transmission.



ROPS & FOPS level 2 certified closed
1+4 person cabin



7" HMI display with CAN feature

MUV5



▶ 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: | 80 l |

With Catalytic Converter and Silencer

▶ TRANSMISSION

| | |
|---------------|--------------------------------------|
| Make / Model: | Dana Spicer T12000 |
| | Powershift |
| | Automatic and Manual 4-speed forward |
| | Manual 3-speed reverse |
| | Four-wheel drive |

▶ AXLES & TYRES

| | |
|---------------|----------------|
| Make / Model: | Dana Spicer |
| Type: | Planetary |
| Front: | 211 Drive Axle |
| Rear: | 111 Rigid Axle |
| Tyres: | 285 75 R16 |

▶ PERFORMANCE

| | |
|----------------|---------|
| Max. Gradient: | 40% |
| Max. Speed: | 40 km/h |

▶ STEERING

| | |
|--|----------------------|
| | +/- 45° |
| | Orbitrol type |
| | Front wheel steering |

▶ BRAKING SYSTEM

| | |
|-----------------------|---|
| Service Brake: | Hydraulically powered two-circuit oil immersed multidisc brakes in both axles |
| Safety/Parking Brake: | Spring applied hydraulic released SAHR |
| | Fail safe |

▶ CHASSIS

| | |
|-------|----------------------------|
| Type: | Rigid, high strength steel |
|-------|----------------------------|

▶ HYDRAULIC SYSTEM

| | |
|---------------------|--|
| Pump Type: | Fixed displacement |
| Max. Pressure: | 210 bar |
| Flow Rate: | 46 l/min at 2300 rpm |
| Hydraulic Oil Tank: | 40 l |
| Return Oil Filter: | 25 µm |
| | Oil level, filtration and temperature indicators |

▶ ELECTRIC SYSTEM

| | |
|-------------------|------------------------------------|
| Battery: | 2 x 12 V – 115 Ah |
| Protection: | IP65 |
| Lights: | 4 x 1500 Lumen Led |
| | 2 x 2000 Lumen Front low beam Led |
| | 2 x 2000 Lumen Front high beam Led |
| | 2 x Fog Led |
| | Led rear lamp |
| Box Type: | Stainless steel |
| Beacon Lamp: | Red-Blue-Amber color |
| Direction Lights: | Red-Green color |

Multipurpose Utility Vehicle

TITAN CLOSED OPERATOR CABIN

- Closed 1+4 person cabin
- ROPS & FOPS level 2 certified (EN ISO 3471:2008 / EN ISO 3449:2008)
- Seats with 3 point seat belts, low vibration and weight adjustment
- Depth and height adjustable steering wheel
- Mounted handles in accordance with 3-point rule
- Glove box
- Resisted laminated front glass and resisted tempered rear glass
- Electrically adjustable side mirrors with resistance and turning signal lamps
- Sliding side windows complying with occupational safety standards
- 3 wipers
- Lockable doors
- Outside air temperature indicator
- Air-conditioner (Heating and Cooling) in the cabin
- Open door warning sensors for 4-doors
- In-Cabin radio output (12V)
- Cabin lighting
- Rear view camera and monitoring on the HMI screen in the operator's cabin
- Dashboard 7" HMI display
- Instrument panel behind the steering wheel

CONTROL SYSTEM

| | |
|----------------|---------------------------------|
| CAN Bus System | |
| Gear Selector: | APC |
| Engine: | ECU |
| Control: | Main ECU |
| Warning: | 7" HMI display with CAN feature |

DATA THAT CAN BE VIEWED ON THE DISPLAY

- Hydraulic oil temperature and level information
- Brake hydraulic pressure information
- Fuel level
- Engine and radiator water temperature and level warning
- Transmission oil temperature and pressure
- Air filter indicator
- Fuel water mixture warning
- Door open warning
- Vehicle speed
- Engine RPM
- Working hour
- Gear indicator
- Outside temperature
- Engine error codes
- Engine and transmission information logging
- Differential lock indicators and warnings
- Vehicle slope indicators and warnings
- Speed limit warning
- Right and left signal information

DIMENSIONS & WEIGHT

| | |
|-----------------------|-------------------------|
| Weight: | 4750 kg (Approximately) |
| Length: | 5390 mm |
| Width: | 2000 mm |
| Height: | 2130 mm |
| Inner Turning Radius: | 2975 mm |
| Outer Turning Radius: | 6500 mm |

PICK-UP BOX

| | |
|--|----------------------|
| Dimensions: | 1820 x 1650 x 400 mm |
| Max. Carrying Capacity: | 1000 kg |
| Pick up box rear door can be opened and closed | |

MISCELLANEOUS

- Warning plates and decals
- Tool box
- First-aid kit
- 1x2 kg portable fire extinguisher
- 1 pc. Wheel chock
- Front and rear towbar
- Back-up alarm and light
- Battery and starter isolator switch

OTHER

- Emergency release for parking brake

OPTIONS

- Manual activated fire extinguishing system
- Automatic and manual activated fire extinguishing system (Linear wired)
- 24 V emergency steering
- EU Stage 5 diesel engine
- Additional camera
- Spare wheel
- Welding machine
- Compressor
- High pressure washer
- Electric winch on front bumper

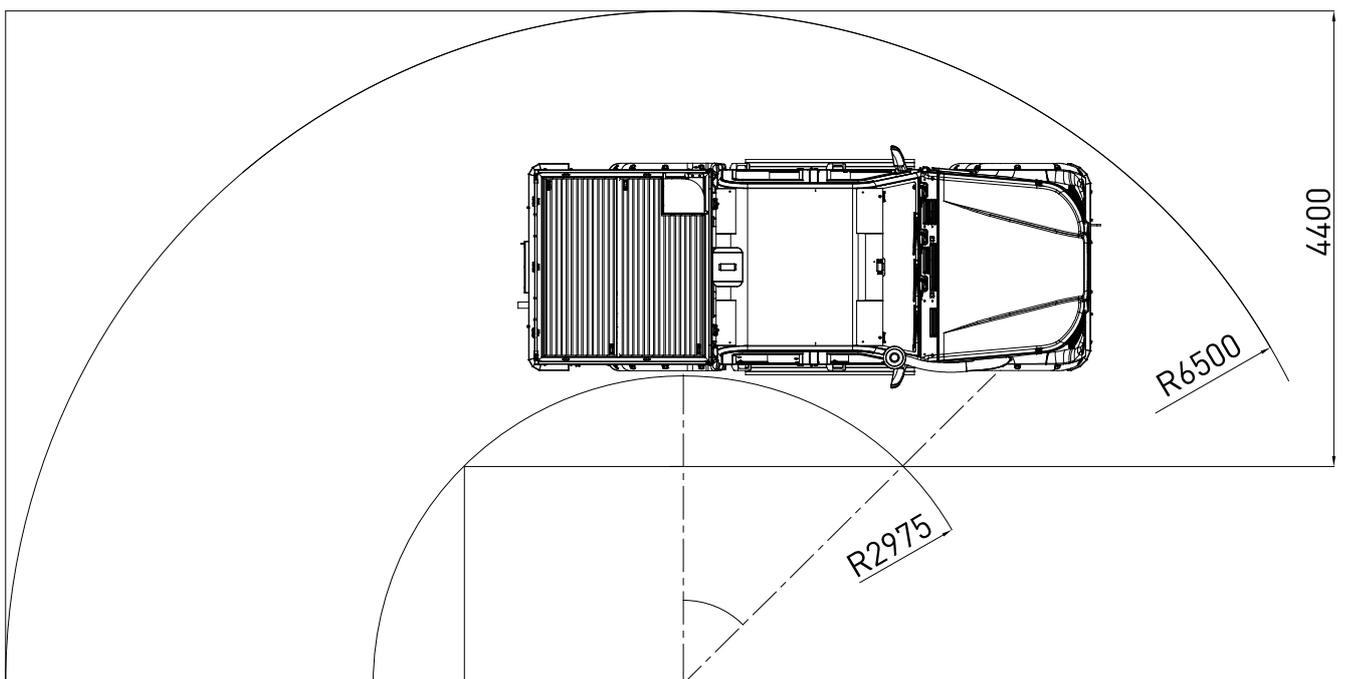
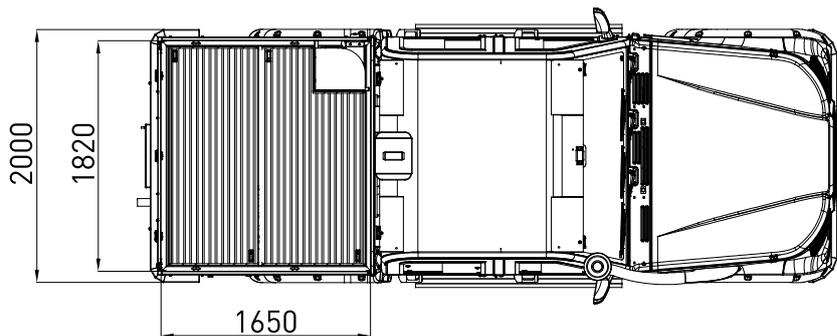
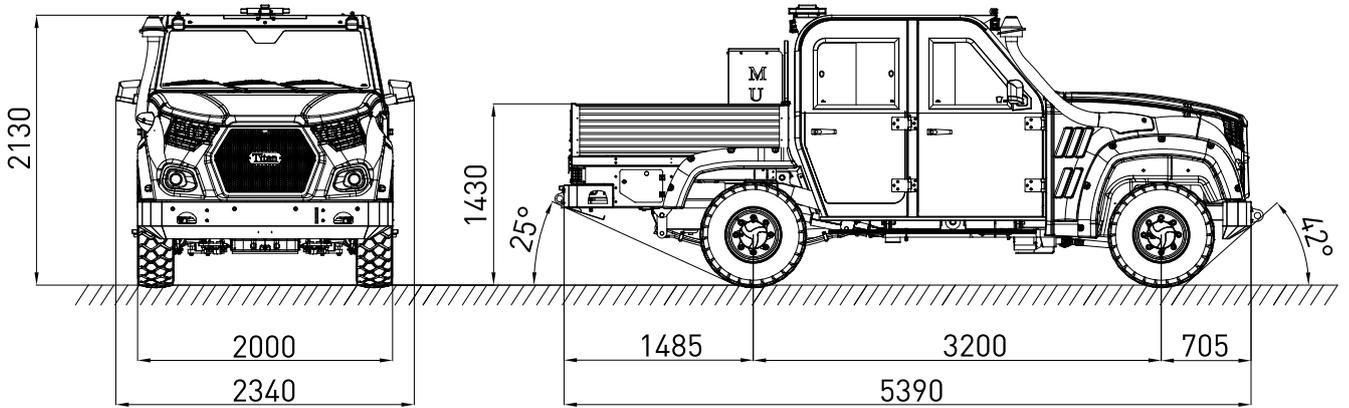
VARIANTS

- Scissor lift
- Personnel carrier for 1+10 person
- Lubrication and maintenance vehicle
- Explosive carrier
- Crane





Multipurpose Utility Vehicle



Titan

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MUV5_EN_102021