

TML GROUP

Technical Datasheet

UNIDACHS

5



Operating weight: approx. 20.000–22.000 kg,
Diesel drive with 115 kW, alternatively electric drive with 110 kW
Telescopic stroke : 3.500 mm

» Technical specifications

535

Crawler undercarriage		Tyre mounted undercarriage		Diesel drive	
Crawler chain	D4D	Tyres	10.00 – 20 Twin tyres	Diesel engine (EU/USA)	DEUTZ AG, Stage V, 4 cylinders, Diesel engine with diesel oxidation catalyst and particulate filter AdBlue Tank capacity:10 liters
Base plates	Triple grouser, HD, 600 mm	Gradability	17 %	Diesel engine (non EU/USA)	DEUTZ AG, USA Tier 3, EU Stage IIIA, 4 cylinders, Diesel engine with diesel oxidation catalyst
Gradability	41 %	Outriggers	4 pcs. (proportional) With outrigger relief	CO ₂ -neutral operation	Possible with paraffinic diesel fuel according to EN 15940
Draw bar pull	105 kN	Drive system	4-wheel drive, front axle rigid, rear axle steering with hand pump for emergency brake release	Rated power	115 kW (EU/USA) 124 kW (non EU/USA)
Ground pressure	7.0 t/m ² (600 mm base plates)	Brakes	Hydraulic brake system	Engine capacity	4.100 cm ³ (EU/USA) 4.700 cm ³ (Non EU/USA)
Drive system	Stepless hydrostatic traction drive, independent drive for each track side	Steering	Hydraulic circuit for steering axle	Torque	610 Nm at 1.600 min ⁻¹
Brakes	Spring set, hydraulically released wet multi disc brake	Ground pressure	12.0 t/m ² on tyres 8.7 t/m ² on outriggers	Cooling	Fluid
Parking brake	Wet multi-disc brake, wear-free, automatic activation when joystick is in neutral position	Travel speed	19 km/h	Air Filter	2-stage, with electrical contamination indicator
Travel speed	0 – 2.6 km/h	Hydraulic system		Fuel tank capacity	260 Liter
		Type	Load-Sensing	Electro drive 3-Phase (alternative)	
		Operating pressure	330 Bar	Rated power	90 kW at 50 Hz 90 kW at 60 Hz
		Hydraulic oil tank capacity	250 Liter	Voltage	380 V, 400 V oder 500 V
		Safety system	Pipe break protection on the lifting cylinders	Frequency	50 Hz or 60 Hz
		Pump type	Variable displacement pump		
		Filtering	Hydraulic return filter and tank breather filter		
		Control block	Additional working circuits for attachments optionally available		

» Technical specifications

Upper structure		Lighting		Operator's cabin	
Hydrostatic slew drive with axial piston motor and planetary gear.		Upper structure front	2 x LED headlights	Cabin	Closed cabin, FOPS - Falling Object Protective Structure, robust safety front guard with fine-wire mesh in front of the wind screen against heat radiation heat
Rotation	360°, continuous, endless	Upper structure rear	Optional		
Rotation speed	0 – 5.7 min ⁻¹	Cradle	1 x LED headlight		
Slewing brake	Spring set, hydraulically released wet multi disc brake	Surrounding warning light	1 x Yellow	Heating and air conditioning	Air conditioning and heating installed
Cradle & Telescopic boom		Electrical system		Driver's seat	Mechanically spring suspended, fully adjustable comfort seat. Joysticks are mounted on armrest, lap belt, pilot safety lever on driver's seat.
Telescopic boom with integrated rotating unit. Fully enclosed design to protect the hoses and the tool cylinder against radiation heat and falling objects.		System voltage	24 V		
Max. range	10,200 mm	Battery	2 Pcs.		
Telescopic stroke	3,500 mm	Paint		Glazing	Heat-resistant safety glass
Rotation	360°, continuous endless	Undercarriage	Black, RAL 9005	Monitoring	Display: Indication of current machine data, automatic monitoring of operating status
Boom rotation speed	0 – 14 min ⁻¹	Upper structure & Telescopic boom	Yellow, RAL 1007		
Boom rotation torque	27 kNm	Radio remote control		Surround noise level LWA	103 db (A)
Pull and push force	130 / 152 kN	Operation via 2 joysticks. Illuminated colour display. Waist belt carrying system.		Inside cab noise level LpA	75 db (A)
Tool ripping force	71 kN	Weight	4.5 kg		
Boom guide rollers	18 pcs.				



RELIABLE



PRODUCTIVE

UNIDACHS - The best answer to extreme conditions

Crawler undercarriage	5 Series Heavy Metal	5 Series Hard Rock
Chain sealed with lifetime lubrication	●	●
Base plates, Triple grouser, 600 mm	●	●
Base plates, Triple grouser, 800 mm	○	○
Rubber vulcanized tracks	○	○
Rubber pads for base plates	○	○
2nd driving stage for two driving speeds	○	○
Towing circuit	○	○
Front clearing blade	○	○

Tyre undercarriage (P version)	5 Series Heavy Metal	5 Series Hard Rock
Undercarriage with tyre running gear and 4-point outriggers. Twin tyres 10.00 – 20.00	●	●
Front clearing blade (2-point outriggers instead of 4-point support)	○	○

Upper structure	5 Series Heavy Metal	5 Series Hard Rock
Rotation 360°, continuous endless	●	●
Central lubrication system for upper structure and cradle	○	○
Arctic Pack (hydraulic oil, engine and fuel preheating)	○	○
Rear and side bumper	○	○
Fire extinguishing system	○	○
Hand-held fire extinguisher (6 kg) in protective box, attached to the upper structure	○	○
Refuelling pump	○	○
Connection for external starting aid	○	○
Additional emergency stop switch	○	○
Main isolator switch for electrical system	●	●
Service doors lockable	●	●
Crane lifting points	●	●
Engine compartment lighting	○	○

Key: ● Standard ○ Option



Unidachs 535 - Electric furnace outbreak



Unidachs 535 - Tundish cleaning

UNIDACHS Series 5

Operator's cabin	5 Series Heavy Metal	5 Series Hard Rock
Lockable, spacious, sound-insulated driver's cab manufactured in accordance with the latest ergonomic requirements	●	●
Large high-resolution control unit with colour display, versatile setting, control and monitoring options	●	●
Air conditioning	●	●
Comfort seat with lap belt	●	●
Safety glass windows	●	●
FOPS Safety guard, front screen	●	●
Heat protection wire mesh screen	●	○
Storage compartments	●	●
FOPS Safety guard, roof	○	○
Hand-held fire extinguisher (cabin)	●	●
First aid kit	●	●
Tool kit	●	●
Auxiliary heating system	○	○
Dust protection system	○	○
Bullet proof front screen	○	○
Bullet proof roof window	○	○
Tiltable driver's cab (30° tiltable)	○	○
Camera system 270° Bird View (consisting of 3 cameras)	○	○
Camera system (1x rear camera / 1x right hand side camera)	○	○
Additional radio remote control	○	○

Drive unit options	5 Series Heavy Metal	5 Series Hard Rock
Diesel engine, 115 kW, 4 cylinders, EU Stage V / USA Tier4final	●	●
Diesel engine 115 kW (non EU/USA)	●	●
Electric drive, 90kW with 25m cable	○	○

Radio remote Control	5 Series Heavy Metal	5 Series Hard Rock
Remote control via radio transmission	●	●
Remote control via cable	●	●
2 Joysticks	●	●
Illuminated colour display	●	●
Operating mode selector switch	●	●
Single-hand drive mode	●	●
Tool control	●	●
Radio frequency 16 channels 433/434 MHz	●	●
Radio frequency 16 channels 535 MHz	○	○
Radio frequency 16 channels 461 MHz	○	○
Emergency stop button on transmitter unit	●	●
Hip belt carrying system	●	●

Accessoires	5 Series Heavy Metal	5 Series Hard Rock
Emergency first aid kit	●	●
Storage compartments	●	●
Tool kit	●	●

Key: ● Standard ○ Option



UNIDACHS 535



UNIDACHS 535P

UNIDACHS Series 5

Cradle & Telescopic Boom	5 Series Heavy Metal	5 Series Hard Rock
Telescopic stroke 3,500 mm	●	●
Rotation 360°, continuous, endless	●	●
Dirt deflector between main boom and inner boom	○	●
Covers for boom guide rollers	○	○
Additional hose tray for hydraulic or pneumatic tools	○	○
Bumper plates main Boom	○	●
Central lubrication system cradle	○	○
Overload warning system	○	○

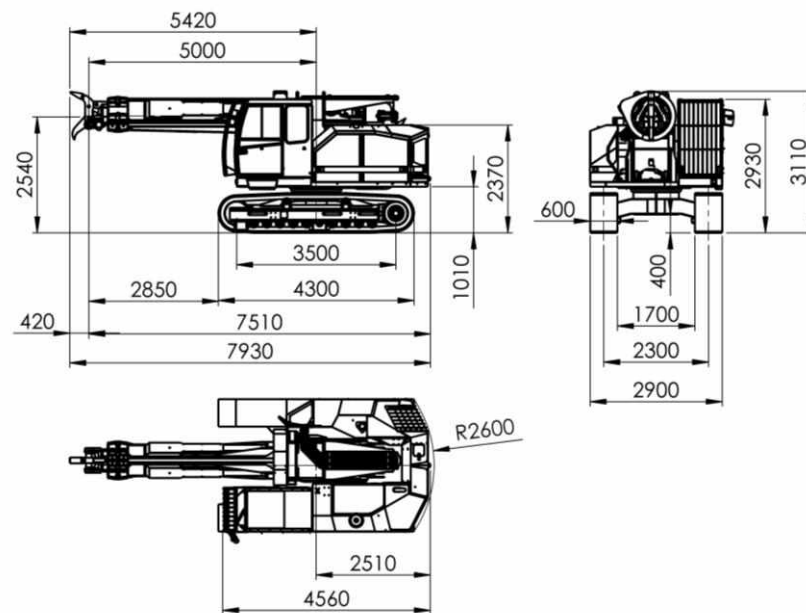
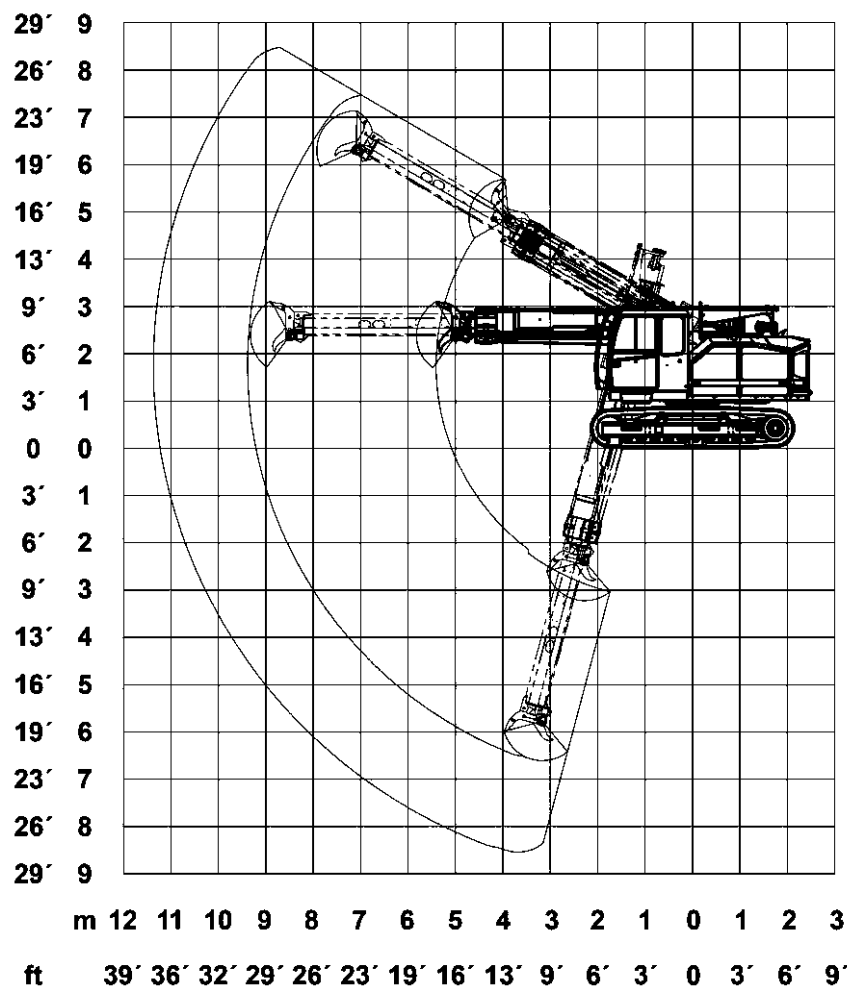
Lighting	5 Series Heavy Metal	5 Series Hard Rock
Lighting package: 2x LED work lights upper structure front, 1x LED work light cradle, 1x LED rotating beacon yellow	●	●
Extended lighting package: 2x LED worklights cabin roof, , 1x LED worklight cradle	○	○
Lighting package: 2x LED worklights upper structure front, 2x LED worklights upper structure rear, 2x LED worklights cab roof, 3x LED worklights cradle, 1x LED rotating beacon yellow	○	●
Additional LED lighting	○	○
Blue spot light in the rear area	○	○
Safety perimeter ground marking Red light projection	○	○

Attachment tools	5 Series Heavy Metal	5 Series Hard Rock
Boom extension integrated	○	○
Boom extension bolted	○	○
Single ripper hook	○	○
Double ripper hook	○	○
Hydraulic hammer	○	○
Pneumatic hammer	○	○
Rotary drum cutter	○	○
Demolition shears	○	○
Hydraulic grab	○	○
Various sized buckets	○	○
Ditching bucket	○	○
Ripper bucket	○	○
Back hoe bucket	○	○
Drilling attachment	○	○
Mechanical quick coupler	○	○
Concrete spray nozzles	○	○
Bow setting device	○	○
Single-point lifting bail	○	○
Porous plug pusher	○	○
Tap hole drill	○	○
EBT-Drill	○	○

Key: ● Standard ○ Option

» Kinematics and dimensions

535



535P

