

TMI GROUP

Technical Datasheet

UNIDACHS

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Operating weight: approx. 3,200 kg
Diesel drive with 26 kW / 18.5 kW,
alternatively electric drive with 22 kW

»» Technical specifications

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Crawler Undercarriage

Crawler chain	B00
Base plates	200 mm
Gradability	50 %
Draw bar pull	15 kN
Ground pressure	5.1 t/m ² (200 mm base plates) max. 2.8 t each outrigger
Outriggers	4 pcs. (proportional) with outrigger relief
Drive system	Stepless hydrostatic traction drive, independent drive for each track side
Brakes	Spring set, hydraulically released wet multi-disc brake
Parking brake	Wet multi-disc brake, wear-free, automatic activation when joystick is in neutral position
Travel speed	0 – 3.2 km/h

Electro Drive 3-Phase (alternative)

Rated power	22 kW with 50 Hz / 1,470 min ⁻¹
Voltage	400 V, 460 V, 690 V
Frequency	50 Hz or 60 Hz

Diesel Drive

Diesel engine (EU/USA)	Kubota, model: V1505, 4 cylinders, EU V / USA Tier 4 emissions standard, power 18.5 kW, Diesel engine without exhaust aftertreatment, without DEF injection
Diesel engine (non EU/ USA)	Kubota, model: V1505, 4 cylinder, EU IIIA / USA Tier 3 emissions standard, power 26.2 kW, Diesel engine without exhaust aftertreatment, without DEF injection
CO ₂ - neutral operation	Possible with paraffinic diesel fuel according to EN 15940
Rated power	26 kW / 18.5 kW
Engine capacity	1,498 cm ³
Torque	90 Nm at 2,000 min ⁻¹
Cooling	Fluid
Air Filter	2-stage, with electrical contamination indicator
Fuel tank capacity	60 liters

Hydraulic System

Axial piston variable displacement pump with demand-oriented flow rate and load-controlled pressure control. Fully variable, temperature-controlled cooling capacity control. Cooling system with periodic reverse direction of rotation for cleaning.

Operating pressure	200 bar
Hydraulic oil tank capacity	85 liters
Max. Pump pressure	240 bar
Max. Delivery volume	130 l/min (26 kW), 100 l/min (18.5 kW)
Pump type	Axial piston variable displacement pump
Filtering	Hydraulic tank return filter

Upper Structure

Hydrostatic slew drive with axial piston motor and planetary gear	
Rotation	360°, continuous endless
Rotation speed	0 – 3.5 min ⁻¹
Slewing brake	Spring set, hydraulically released wet multi-disc brake

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» Technical specifications

Cantilever Boom

Cantilever boom with integrated rotating unit. Fully enclosed design to protect the hoses and the tool cylinder against radiation heat and falling objects.

Max. Range (with a hammer) 4,500 mm

Rotation 360°, continuous endless

Boom rotation speed 0–5 min⁻¹

Boom rotation torque 3 kNm

Lighting

Upper structure 2 x LED headlights

Surrounding warning light 1 x yellow

Paint

Main colour Yellow, RAL 1007

Contrasting colour Black, RAL 9005

Radio Remote Control (inclusive)

Operation via 2 joysticks. Illuminated colour display. Waist belt carrying system

Weight 4.5 kg

Electrical System

System voltage 24 V

Battery 2 pcs.



Funkfernsteuerung



RELIABLE



PRODUCTIVE

UNIDACHS - The best answer to extreme conditions

Crawler Undercarriage	1 Series Heavy Metal	1 Series Hard Rock
Chain sealed lifetime lubricated	●	●
Base plates 200 mm	●	●
Rubber pads for base plates	○	○
2nd driving stage for two driving speeds	○	○

Upper Structure	1 Series Heavy Metal	1 Series Hard Rock
Rotation 360°, continuous endless	●	●
Central lubrication system for upper structure and cradle	○	○
Arctic Pack (hydraulic oil, engine and fuel preheating, battery trickle charge (starter battery, 230V / 115V))	○	○
Storage compartment	●	●
Charger for remote control battery	●	●
Main isolator switch for electrical system	●	●
Service doors lockable	●	●

Drive Unit Options	1 Series Heavy Metal	1 Series Hard Rock
(EU/USA) Kubota, model: V1505, 4 cylinder, EU V / USA Tier 4 emissions standard, power 18.5 kW	○	○
(non EU/USA) Kubota, model: V1505, 4 cylinder exhaust stage EU IIIA / USA Tier 3, power 26.2 kW	○	○
Elektro drive rated power 22kW	○	○

Cantilever Boom	1 Series Heavy Metal	1 Series Hard Rock
Additional hydraulic circuit	●	●
Rotation 360°, continuous endless	●	●

Key: ● Standard ○ Option



UNIDACHS 110 – Torpedo car debricking



UNIDACHS 110 – Blast furnace runner break out

UNIDACHS Series 1

Radio Remote Control (inklusive)	1 Series Heavy Metal	1 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	●	●

Lighting	1 Series Heavy Metal	1 Series Hard Rock
2x LED work lights upper structure, front	●	●
1x LED rotating beacon yellow	●	●
“Blue Spot” safety light	○	○
Lighting package: 2x LED work lights	○	○

Attachment Tools	1 Series Heavy Metal	1 Series Hard Rock
Mechanical quick coupler	●	●
Rotary drum cutter	○	○
Hydraulic shear / -gripper	○	○
Buckets	○	○
Hydraulic hammer	○	○
Concrete spray nozzles	○	○
Bow setting device	○	○

Accessories & Extras	1 Series Heavy Metal	1 Series Hard Rock
Tool kit	●	●
Emergency first aid kit	●	●
Storage compartments	●	●
Remote control charger	●	●
Flame retardant hydraulic fluid	○	○
Camera system	○	○

Software	1 Series Heavy Metal	1 Series Hard Rock
TML Connect	○	○

Key: ● Standard ○ Option

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» Kinematics and dimensions

