

A yellow TML UNIDACHS 8 telescopic crane is shown in a full-body view. It is a crawler-mounted machine with a long, multi-section boom that is extended upwards and to the right. The crane has a red hook at the end of the boom. It is positioned on a paved surface in front of a large industrial building with a grey metal facade. The building has the 'TML GROUP' logo in large, 3D letters. To the right, another building with white walls and blue accents is visible. The sky is clear and blue. The crane's body is yellow, and the tracks are black. The boom has 'TML' and 'UNIDACHS' written on it. The hook is red. The overall scene is a professional product shot for a technical datasheet.

TML GROUP

Technical Datasheet

UNIDACHS

8

Operating weight: approx. 39.000 – 42.000 kg,
Diesel drive with 180 kW, alternatively electric drive with 132 kW
Telescopic stroke: 5.000 mm

» Technical specifications

850

Crawler undercarriage	
Crawler chain	B6
Base plates	Triple grouser, HD, 800 mm
Gradability	30,5 %
Draw bar pull	164 kN
Ground pressure	6.7 t/m ² (800 mm base plates)
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 – 2.8 km/h, (4.7 km/h optional)

Hydraulic system	
Type	Load - Sensing
Operating pressure	270 Bar
Hydraulic oil tank capacity	390 Liter
Safety system	Pipe break protection on the lifting cylinders
Pump type	Variable displacement pump
Filtering	Hydraulic return filter and tank breather filter
Control block	Additional working circuits for attachments optionally available

Diesel drive	
Diesel engine (EU/USA)	DEUTZ AG, Stage V, 6 cylinders, Diesel engine with diesel oxidation catalyst and particulate filter
Diesel engine (non EU/ USA)	DEUTZ AG, USA Tier 3, EU Stage IIIA, 6 cylinders, Diesel engine with diesel oxidation catalyst
CO ₂ -neutral operation	Possible with paraffinic diesel fuel according to EN 15940
Rated power	180 kW (EU/USA) 160kW (non EU/USA)
Engine capacity	6,100 cm ³
Torque	1000 Nm at 1.450 min ⁻¹
Cooling	Fluid
Air Filter	2-stage, with electrical contamination indicator
Fuel tank capacity	360 Liter

Electro drive 3-Phase (alternative)	
Rated power	132 kW at 50 Hz
Voltage	380 V, 400 V, 500 V
Frequency	50 Hz or 60 Hz

» Technical specifications

850

Upper structure

Hydrostatic slew drive with axial piston motor and planetary gear.

Rotation 360°, continuous, endless

Rotation speed 0 – 6 min⁻¹

Slewing brake Spring set, hydraulically released wet multi disc brake

Cradle & Telescopic boom

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

Max. range 15.000 mm

Telescopic stroke 5,000 mm

Rotation 360°, continuous endless

Boom rotation speed 0 – 13 min⁻¹

Boom rotation torque 31.3 kNm

Pull and push force 165 / 172 kN

Tool ripping force 136,7 kN

Boom guide rollers 20 pcs.

Lighting

Upper structure front 2 x LED headlights

Upper structure rear Optional

Cradle 1 x LED headlight

Surrounding warning light 1 x Yellow

Electrical system

System voltage 24 V

Battery 2 Pcs.

Paint

Undercarriage Black, RAL 9005

Upper structure & Telescopic boom Yellow, RAL 1007

Radio remote control

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

Weight 4.5 kg

Operator's cabin

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

Heating and air conditioning Air conditioning and heating installed

Driver's seat Mechanically spring suspended, fully adjustable comfort seat. Joysticks are mounted on armrest, lap belt, pilot safety lever on driver's seat.

Glazing Heat-resistant safety glass

Monitoring Display: Indication of current machine data, automatic monitoring of operating status

Surround noise level LWA 103 db (A)

Inside cab noise level LpA 75 db (A)



RELIABLE



PRODUCTIVE

UNIDACHS - The best answer to extreme conditions

Crawler undercarriage	8 Series Heavy Metal	8 Series Hard Rock	Upper structure	8 Series Heavy Metal	8 Series Hard Rock
Chain sealed with lifetime lubrication	●	●	Rotation 360°, continuous endless	●	●
Base plates, Triple grouser, HD, 800 mm	○	○	Central lubrication system for upper structure and cradle	○	○
Rubber vulcanized tracks	○	○	Arctic Pack (hydraulic oil, engine and fuel preheating)	○	○
Rubber pads for base plates	○	○	Rear and side bumper	○	○
2nd driving stage for two driving speeds	○	○	Fire extinguishing system	○	○
Towing circuit	○	○	Hand-held fire extinguisher (6 kg) in protective box, attached to the upper structure	○	○
Front clearing blade	○	○	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 850



UNIDACHS 850

UNIDACHS Series 8

Operator's cabin	8 Series Heavy Metal	8 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	8 Series Heavy Metal	8 Series Hard Rock
Diesel engine, 180 kW, 6 cylinders, EU Stage V / USA Tier4final	●	●
Diesel engine 160 kW USA Tier 3, EU Stage IIIA (non EU/USA)	●	●
Electric drive, 132 kW with 25m cable	○	○
Radio remote Control	8 Series Heavy Metal	8 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	8 Series Heavy Metal	8 Series Hard Rock
Emergency first aid kit	●	●
Storage compartments	●	●
Tool kit	●	●

Key: ● Standard ○ Option



KOMFORTABEL



PRÄZISE

UNIDACHS Series 8

Cradle & Telescopic Boom	8 Series Heavy Metal	8 Series Hard Rock
Telescopic stroke 5,000 mm	●	●
Rotation 360°, continuous, endless	●	●
Headpiece telescopic boom in flange design	○	○
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	8 Series Heavy Metal	8 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	8 Series Heavy Metal	8 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	○	○

Legende: ● Standard ○ Option

>> Kinematics and dimensions

850

