

Technical data
H 13i TCD 4.1 L4 H26701

Valid from Serial No.

0001

Jan 31, 2023

Machine dimensions

Total length.....	5960	mm
Centre distance.....	3149	mm
Total width with cab.....	2284	mm
Width loading, min.....	2284	mm
Working width.....	2140	mm
Maximum working width.....	2140	mm
Lateral overhang, left/right.....	71/71	mm
Total height with cab.....	3037	mm
Total height with ROPS.....	3077	mm
Height loading, min.....	2308	mm
Kerb clearance, left/right.....	510/510	mm
Ground clearance, centre.....	427	mm
Slope angle, front/rear.....	55/30	°
Turning radius, inside.....	3870	mm
Turning radius, outside.....	6120	mm
Centre of gravity.....	733	mm
Centroidal distance, from front axle, operating weight.....	1407	mm
Centroidal distance, from front axle, max. operating weight.....	1737	mm

Drum dimensions

Drums, quantity.....	1	
Drum type, front.....	Smooth	
Drum width, front.....	2140	mm
Drum diameter, front.....	1504	mm
Drum thickness, front.....	30	mm

Tyre dimensions

Width over tyres, rear.....	2160	mm
Number of tyres, rear.....	2	
Tyre size, rear.....	AW 23.1-26 12 PR	
Tyre diameter, rear.....	1560	mm
Tyre width.....	600	mm
Tyre pressure.....	1,7	bar
Weight per tyre.....	760	kg
Ballast per tyre, water/MGCL2.....	450/100	kg

Weights

Empty weight without cab, without ROPS.....	12210	kg
Empty weight, type plate.....	12650	kg
Empty weight with cab.....	12650	kg
Empty weight without cab, with ROPS.....	12390	kg

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Cab weight.....	440	kg
ROPS weight.....	180	kg
Operating weight, type plate.....	12860	kg
Operating weight with cab.....	12860	kg
Operating weight with ROPS.....	12600	kg
Axle load, front/rear.....	7115/5745	kg
Permis. total weight (StVZO).....	12990	kg
Permis. axle load (StVZO), front/rear.....	7160 / 5830	kg
Max. operating weight.....	15870	kg
Wheel load per tyre, rear.....	2872,5	kg
Static linear load, front.....	33,2	kg/cm
Static surface load, front.....	0,22	kg/cm ²
Linear load with vibr., front, I/II.....	151,9/112,3	kg/cm
Mass of vibrating parts, front.....	3770	kg
Mass of spring-mounted parts, front.....	3345	kg
Spring-mounted: Vibrating mass, front.....	0,9	
Compaction force, front, I/II.....	319/236	kN
Compaction force, rear, I/II.....	56/56	kN
French classification, value/class.....	46,1/VM3	

Diesel engine

Manufacturer.....	DEUTZ	
Model.....	TCD 4.1 L4	
Number for type approval.....	e1*2016/1628*2016/1628EV5/D*	
Code.....	C5V1115A	
Power ISO 14396, kW/PS/rpm.....	115,0/156,4/2300	
Power SAE J1349, kW/HP/rpm.....	115,0/154,1/2300	
Cylinders, quantity.....	4	
Cooling, type.....	Coolant emulsion	
Displacement.....	4038	cm ³
Bore/stroke.....	101/126	mm/mm
Max. drive torque at speed.....	609/1600	Nm/rpm
Injection system, type.....	Common rail	
Speed adjustment, actuation.....	EMR4	
Drive, valve control.....	Gear wheels	
Exhaust emission standard.....	EU Stage V / EPA Tier 4	
Exhaust emissions category, EU.....	EU Stage V	
Exhaust emissions category, USA.....	EPA Tier 4	
Exhaust gas after-treatment.....	DOC-DPF-SCR	
Exhaust gas, carbon dioxide CO ₂	753,12	g/kWh
Exhaust gas, carbon monoxide CO.....	0,0329 (NRTC)	g/kWh

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Exhaust gas, hydrocarbon HC.....	0,0287 (NRTC)	g/kWh
Exhaust gas, nitric oxide NOx.....	0,3713 (NRTC)	g/kWh
Exhaust gas, particulate.....	0,0071 (NRTC)	g/kWh
Exhaust gas, number of particles.....	2,7846 E ¹¹ (NRTC)	#/kWh
Catalytic converter.....	Yes	
Catalytic converter, type.....	Oxidation catalyst	
Catalytic converter, type.....	SCR catalytic converter	
SCR reducing agent.....	AdBlue / DEF	
Diesel particulate filter.....	Yes	
Diesel particulate filter, type.....	Passive regeneration	
On-board voltage.....	12	V
Alternator, power.....	14/150	V/A
Starting motor, power.....	12/4000	V/W
Battery, power.....	12/156	V/Ah
Fuel consumption, 100% eng. output.....	32,1	l/h
Operating hours per tank, 100% full load.....	8	h
Fuel consumption, high load.....	27,3	l/h
Operating hours per tank, high workload.....	9	h
Fuel consumption, medium load.....	16,1	l/h
Operating hours per tank, average workload.....	16	h
Fuel consumption, low load.....	4,8	l/h
Operating hours per tank, low workload.....	53	h
Engine oil consumption, average.....	0,03	l/h

Machine management

HAMMTRONIC..... Yes

Vibration control

Frequency setting, function..... Electrical

Frequency control, function..... HAMMTRONIC

Vibration system

Type of vibration, front..... Circular vibrator

Vibration

Vibration frequency, front, I/II..... 30/36 Hz

Amplitude, front, I/II..... 1,93/0,89 mm

Centrifugal force, front, I/II..... 249/166 kN

Travel drive

Hydrostatic travel drive, front/rear..... Drive engine/axle

Regulation, infinitely variable..... HAMMTRONIC

Speed, infinitely variable..... 0 - 12,0 km/h

Gradeability, with/without vibration..... 52/57 %

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Static transverse incline.....	56	°
Permissible longitudinal incline, diesel engine.....	30	°
Permissible transverse incline, diesel engine.....	30	°
Max. perm. ambient temp. at full load.....		°C

Steering

Steering, type.....	Articulated steering	
Steering, actuation.....	Hydrostatic, steering wheel	
Steering lock +/-.....	32	°
Swing angle +/-.....	10	°

Cooling fan drive

Drive.....	Hydrostatic
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Tank capacity/filling capacity

Engine oil filling capacity (oil change).....	11,5	l
Engine oil grade.....	CJ-4, SAE 10W30	
AdBlue/SCR reducing agent tank, capacity.....	32	l
Engine coolant.....	21,0	l
Engine coolant, type.....	Coolant emulsion	
Coolant water/protective agent.....	50/50	%
Fuel tank, capacity.....	290	l
Fuel tank, material.....	Plastic	
Hydr. tank., capacity (oil change).....	64	l
Hydraulic oil grade.....	HLP-VG46	
Hydraulic oil reservoir, material.....	Sheet steel	
Vibrator oil, HAMM no.....	01238051	
Vibrator, left/right.....	1,6/1,6	l
Drum gear, front.....	1,7	l
Gearbox oil, HAMM no.....	2571293	
Axle differential.....	16,8	l
Gearbox oil grade.....	API GL-5 SAE 85W90	
Air-conditioning system.....	1,6	kg
Coolant grade.....	R134a	

Brake system

Service brake, effect.....	Hydrostatic
Service brake, actuation.....	Drive lever
Parking brake, effect.....	Spring-loaded/mechanical
Parking brake, actuation.....	Electr. and auto.
Emergency brake, effect.....	Hydr./mech.
Emergency brake, actuation.....	Emergency stop

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Operating data

Surface output*, 1 pass/2 km/h.....	3200	m ² /h
Surface output*, 1 pass/5 km/h.....	8000	m ² /h
Surface output*, 1 pass/8 km/h.....	12800	m ² /h
Surface output*, 3 passes/5 km/h.....	2700	m ² /h
Cubic metre output*, 1 pass/2 km/h 20 cm.....	640	m ³ /h
Cubic metre output*, 1 pass/2 km/h 30 cm.....	960	m ³ /h
Cubic metre output*, 1 pass/2 km/h 40 cm.....	1280	m ³ /h
Cubic metre output*, 1 pass/2 km/h 50 cm.....	1600	m ³ /h
Cubic metre output*, 1 pass/2 km/h 60 cm.....	1920	m ³ /h
* = work.factor=0.83/work.width=90%.....		

Sound level

Emissions sound pressure level L(PA), measured with cab, max.....	83	dB(A)
Emissions sound pressure level L(PA), measured without cab, max.....		dB(A)
Sound power level L(WA), representative measurement.....	105	dB(A)
Sound power level L(WA), guaranteed.....	105	dB(A)
Sound power level L(WA), limit value.....	109	dB(A)
Whole-body vibration.....	<=0,5	m/s ²
Hand-arm vibration.....	<=2,5	m/s ²

Diesel engine measuring and test data

Idling speed/rated speed/max. speed.....	900/2300/2415	rpm
Working temperature from-to.....	80 - 110	°C
Maximum temperature.....	110	°C

Traction hydraulics measuring and test data

Filling circuit pressure.....	25	bar
High-pressure limit.....	500	bar
Pressure cut-off.....	470	bar
Range of adjustment from-to.....	400 - 1200	mA
Leakage oil pressure, pump, max., warm/cold.....	0,5/1,5	bar
Leakage oil, engine, front, maximum.....	2,4+14,7	l/min
Leakage oil pressure, engine, front, max., warm/cold.....		bar
Leakage oil, engine, rear, maximum.....	2,4+6,5	l/min
Leakage oil pressure, engine, rear, max., warm/cold.....		bar
Operating temp. hydr.oil in the tank, max.....		°C
Operating temperature, pump, max.....		°C
Working temp., engine, front, max.....		°C
Working temp., engine, rear, max.....		°C

Vibration hydraulics measuring and test data

Filling circuit pressure.....	25	bar
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High-pressure limit.....	445	bar
Pressure cut-off.....	420	bar
Range of adjustment from-to.....	400 - 1200	mA
Work.press. lg.ampl. single from*-to.....		bar
Work.press. lg.ampl. doub. from*-to.....		bar
Work.press. sm.ampl. single from*-to.....		bar
Work.press. sm.ampl. doub. from*-to.....		bar
Leakage oil, engine, maximum.....	3,5+6,5	l/min
Leakage oil pressure, engine, max., warm/cold.....		bar
Operating temperature, pump, max.....		°C
Working temperature, engine, max.....		°C
Temperature vibr. bear. cover, max.....		°C
* = on elastic base.....		

Steering hydraulics measuring and test data

Steering unit pressure limit.....	175	bar
Shock valves pressure limit.....	240	bar
Steering working pressure*.....		bar
* = On dry asph.road in standby mode.....		

Cooling fan drive measuring and test data

Pressure limit.....	210	bar
Working pressure.....		bar

Brake measuring and test data

Service brake stopping distance.....		m
Parking brake blocks in 2nd gear.....	Yes	J/N
Emergency stop/stopping distance.....		m
Parking brake opening pressure, min.....		bar

Machine equipment

12 V sockets (double).....	
Two large exterior rear-view mirrors.....	
3-point articulation.....	
Storage compartment, lockable.....	
Dashboard with displays, indicator lights and function keys.....	
Easy Drive operating concept.....	
ECO mode.....	
Speed preselect.....	
Hose protection on the front vehicle.....	
Vibration-isolated driver's platform.....	
Automatic vibration system.....	

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Highlights

- Easy Drive operating concept.....
- Excellent view of the machine and site.....
- Electronic machine management HAMMTRONIC.....
- High compaction power thanks to the high linear load and big amplitude.....
- 3-point articulation for outstanding traction and off-road mobility.....