Welding Tractor

SR 704

Engine output: Operating weight:

71 kW/95 HP 12,000 – 14,500 kg

26,456 - 31,967 lb



LIEBHERR

Basic machine



Engine

John Deere PowerTech 4045H, Emission Diesel engine regulations according to 2004/26/EG stage IIIA and EPA/CARB Tier 3

Rating (ISO 9249) 71 kW / 95 HP Rating(SAE J1349) 71 kW / 94 HP Rated speed 2,100 rpm Displacement 4.5 I / 278 cu. In.

4-cylinder in-line engine, water cooled, turbo-Design

charged, air-to-air intercooler

Injection system Common Rail system with direct injection,

electronic engine management

Pressurised lube system, engine lubrication **Engine lubrication**

guaranteed for inclinations up to 45 degrees

Operating voltage 12 V 65 A Alternator Starter 7.5 kW **Batteries** 2 x 117 Ah / 12V

Air cleaner Dual stage dry type with safety element, pre-

cleaner, service gauge in the cab

Cooling system Combi radiator, comprising radiators for water,

hydraulic fluid, and charge air



Travel drive, control

Infinitely variable hydrostatic travel drive, inde-Transmission system pendent drive for each track

- Infinitely variable from 0 to 8 km/h / 5 mph Travel speed

- Setting of travel speed ranges on the travel

iovstick

- Reverse speed can be set at 80, 100, 115, or 130% of forward speed (max. 8.0 km/h /

5.0 mph)

Electronic control Electronic engine speed control and automatic adjustment of travel speed and drawbar pull to

match changing load conditions

Hydrostatic Steering

Service brake Hydrostatic (dynamic braking), wear free

Automatic park brake Wet multiple-disc brake, wear free, automati-

cally applied

Cooling system Transmission oil cooler integrated in combi

radiator

Filter system Micro cartridge filter

Final drive Triple reduction final drives, spur gears

Control Single joystick for all travel and steering func-

tions: decelerator pedal

Adjustments Operator can individually adjust travel drive

parameters via the monitor, e.g. joystick response, decelerator pedal response, etc.

Decelerator pedal allows reduction of ground Decelerator pedal

speed with or without reduction of engine

rpm's



Refill canacities

178 I
161
14
43 I
32,2
6,61



Operator's cab / canopy

Resiliently mounted cab with positive pressure Cab ventilation. Integrated ROPS Rollover Protective Structure (ISO 3471) and FOPS Falling Objects Protective Structure (ISO 3449) Resiliently mounted canopy. Integrated ROPS Canopy Rollover Protective Structure (ISO 3471) Fully adjustable air-suspended comfort seat; Operator's seat (cab) automatically adjusts to operator's weight Operator's seat (canopy) Fully adjustable mechanical suspension comfort seat Combined analogue / LC display. Automatic Monitoring monitoring, display, and warning of deviating operating parameters



Undercarriage LGP

Mount Via separate pivot shafts and an fixed equaliser Chains Lubricated, single grouser shoes; track chain tensioning via steel spring and grease tensioner Track links 40

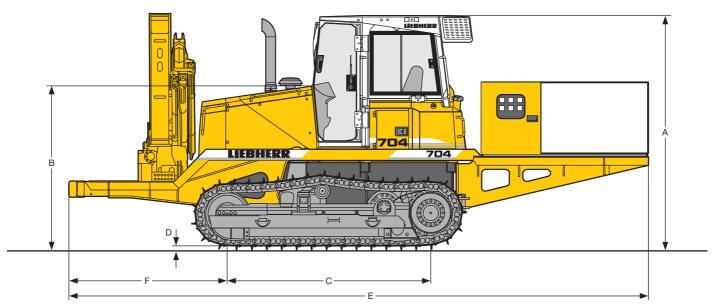
Track rollers / carrier rollers 6/1 Sprocket segments 5

610 mm Track shoes standard

Implement Hydraulics

Crane	Compressor
"Open center"	"Open center"
Gear pump	Gear pump
30 I/min	55 I/min
315 bar	230 bar
4 segments	1 segment
Return oil filter	Return oil filter
10µ	10μ
	"Open center" Gear pump 30 I/min 315 bar 4 segments Return oil filter

Dimensions and Equipment



Dimensions		SR 704-LGP
		0.740
A Height over cab / canopy	mm	2,743
B Height over engine hood	mm	1,950
C Length of track on ground	mm	2,154
D Grouser height	mm	50
E Overall length	mm	6,360
F Length of platform from idler centre	mm	1,850
Ground clearance	mm	
Track gauge	mm	1,752
Width over tracks / overall width 610 mm track pads	mm	2,692
Operating weight	kg Ib	12,000 ¹ -14,500 ² 26,456 ¹ - 31,967 ²
Ground pressure kg	g/cm² PSI	0.451 - 0.512 6.401 - 7.252

¹ Minimum configuration including platforms, crane, generator, 610 mm track pads.

² Standard configuration including platforms, crane, generator, air compressor, 2 x air receiver, 4 x welding sources, cable harness, equipment housing, 610 mm track pads.

Generator	(standard)	
n .	D: 1 1: 1	

Design	Direct driven electric generator (IP45) in protection skid
Model	Stamford UCI 224E
Rating	85 kVA
Voltage	230/400 V – 50 Hz
Switch box	Integrated switch box with Ampere, Hertz, and Volt gauges and service hour indicator; insulation monitoring device
Plug sockets	4 x shuko 230 V 6 x CEE 400 V
Controls	On/off switch inside the cabin. Generator frequency electronically regulated

Compressor (standard)

Design	hydraulically powered heavy duty air compressor, skid mounted
Model	Quincy QR-25 basic two-stage compressor model 370 LVD
Rating	1,300 l/min @ 15 bar
Air receiver	300 l; max. 15 bar
Controls	On/off switch in cabin

Crane (standard)

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Design	crane with 400° slev	hydraulically powered ving angle. Complete with ts and hook for lifting of
Model	HIAB XS077 (7 tm, 2	2 extensions, 7.3 meter)
Capacity	69 kNm (7.0 tm)	
Max. reach	7,3 mtr	
Controls	Single joystick for a	Il crane movements
Load parameters	Crane reach	Load capacity
	2.1 m	3,200 kg
	3.5 m	1,940 kg
	5.1 m	1,320 kg
	6.9 m	960 kg

Welding Equipment (standard)

Design	4x electrically powered welding sources;
	mounted in anti-vibration frame
Model	4x Lincoln V350-PRO or 2x DC400
Controls	Remote control on welding spot; service lead
	exceeds max, reach of crane by 2 meters

Other configurations regarding Compressor and Welding Equipment are possible. For further information please send your project requirements to:

info@maats.com

Equipment



Basic machine

Air filter, dry-type, dual stage	•
Battery compartment, lockable	•
Engine doors, hinged, lockable	•
Ether start aid	•
Fan guard	•
Fuel water separator	•
Lugs for crane lifting	•
Rear view mirrors, platform mounted	•
Toolkit	•
Tow switch	•
Towing hitch rear	•
Towing lug front	•
Engine air pre-cleaner	+



Travel drive

Electronic transmission control	•
Function monitoring, automatic	•
Hydrostatic travel drive	•
Inching-brake pedal	•
Load limit control, electronic	•
Multiple speed settings	•
Oil cooler	•
Parking brake, automatic	•
Reverse travel speed programmable	•
Safety lever	•
Single joystick control	•
Triple-reduction final drives	•
Multiple speed settings Oil cooler Parking brake, automatic Reverse travel speed programmable Safety lever Single joystick control	•



Undertuiringe	
LGP undercarriage	•
Master link, two-piece	•
Pivot shafts, separate	•
Sprocket segments, bolted	•
Track frame, closed	•
Tracks oil lubricated	•
Full length track guard	+
Rubber inlay pads for crossing streets	+



Electrical system

_	
Alternator 65 A	•
Back-up alarm	•
Batteries, heavy duty cold start, 2 units	•
Battery main switch, mechanical	•
Horn	•
On-board system 12 V	•
Starter motor	•
Working lights, front	•
Working light, rear	•
Beacon	+



Operator's cab

Air conditioning	•
AM/FM Radio	+
Armrests 3D adjustable	•
Back rest extension	•
Dome light	•
Knee cushion pads	•
Lumbar support, adjustable	•
Operator's seat, air suspended, tiltable	•
Operator's seat, 6-way adjustable	•
Pressurised cab with air filter	•
Rear view mirror, inside cab	•
ROPS/FOPS	•
Safety glass, tinted	•
Sliding widow left	•
Sliding window, right	•
Socket 12 V	•
Storage tray	•
Warm water heating	•
Windshield washer system	•
Windshield wipers front, rear,	
and doors with intermittent function	•
Additional lights, roof mounted front/rear	+



Control and warning lights

	Display charging voltage (digital)	•
	Display engine coolant temperature	
	(analogue)	•
	Display engine oil pressure (analogue)	•
	Display fuel level (analogue)	•
	Display servo-pressure implement	
	hydraulics (digital)	•
	Display travel speed range (digital)	•
	Hour meter (digital)	•
	Indicator light air filter restriction	•
	Indicator light battery charging	•
	Indicator light decelerator mode	•
	Indicator light fuel water separator	•
	Indicator light implement hydraulics	
	oil filter	•
	Indicator light implement hydraulics	
	oil temperature	•
	Indicator light joystick neutral position	•
	Indicator light parking brake	•
	Indicator light seat belt	•
	Indicator light transmission oil filter	•
	Indicator light transmission oil temperature	•



Attachments

HIAB Crane 077XLS	
(69 kNm, 2 extensions, 7.3 meter)	•
Lockable toolbox on left fender	+
85 KvA Generator	•
Cold kit –40°C	+
Enclosure for compressor, generator,	
and welding equipment	+
Fixation on left fender to hold additional	
cables needed for automatic welding	+
4x Lincoln V350-PRO welding sources	
including cable and remote control	+
Gas cylinder rack (for 6 cylinders)	+
GOST certificate	+
Quincy 370 compressor	
(1300 I/min @ 15 bar)	+

• = Standard, + = Option

Subject to change.

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr to retain warranty.

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