Welding Tractor

SR 714



LIEBHERR

Basic machine



Engine

John Deere PowerTech 6068H, Emission Diesel engine regulations according to 2004/26/EG stage IIIA and EPA/CARB Tier 3

Rating (ISO 9249) 86 kW / 117 HP Rating(SAE J1349) 86 kW / 115 HP Rated speed 2,100 rpm Displacement 6.8 I / 414 cu. In.

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

charged, air-to-air intercooler

Injection system Common Rail system with direct injection,

electronic engine management

Engine lubrication Pressurised lube system, engine lubrication guaranteed for inclinations up to 45 degrees

Operating voltage 24 V 80 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

Combi radiator, comprising radiators for water, Cooling system

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 8.9 km/h / 5.5 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. 8.9 km/h /

5.5 mph)

Drawbar pull 161 kN at 1.0 km/h / 0.6 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



Refill canacities

Fuel tank	227 I
Cooling system	23 I
Engine oil with filters	24 I
Transmission oil tank	65 I
Hydraulic oil tank	70 I
Final drives, each	13 I



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 42 Track rollers / carrier rollers 7/1 Sprocket segments 5 Track shoes standard 762 mm

610 mm or 711 mm



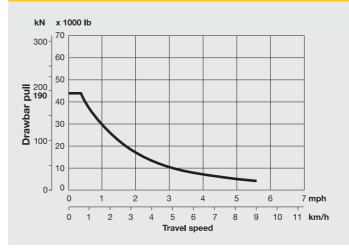
Track shoes option

Implement Hydraulics

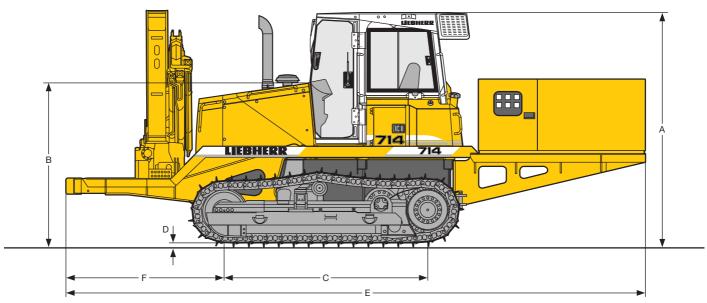
	Crane	Compressor	Generator
Hydraulic system	"Open center"	"Open center"	"closed center"
Pump type	gear pump	gear pump	piston pump
Pump flow max.	95 I/min	55 I/min	360 l/min
Pressure limitation	315 bar	230 bar	280 Bar
Control valve	4 segments	1 segment	N.A.
Filter system	return oil filter 10µ	return oil filter 10µ	pressure filter 10µ



Drawbar pull SR 714



Dimensions and Equipment



Dimensions		SR 714-LGP
A Height over cab / canopy	mm	3,050 / 3,050
B Hight over engine hood	mm	2,088
C Length of track on ground	mm	2,600
D Grouser height	mm	56
E Overall length	mm	7,450
F Length of platform from idler centre	mm	2,100
Ground clearance	mm	437
Track gauge	mm	1,981
Width over tracks / overall width 610 mm track pads 711 mm track pads 762 mm track pads	mm	2,692 2,692 2,743
Operating weight	kg lb	17,900¹ – 20,230² 39,463¹ – 44,600²
Ground pressure k	g/cm² PSI	0.45 ¹ - 0.51 ² 6.40 ¹ - 7.25 ²

¹ Minimum configuration including platforms, crane, generator, equipment housing, 762 mm track pads.

² Standard configuration including platforms, crane, generator, air compressor, 2 x air receiver, 4 x welding sources, cable harness, equipment housing, 762 mm track pads.

Generator	(standard)
Design	Hydraulically pow

Design	Hydraulically powered electric generator (IP45 in protection skid
Model	Stamford UCI 274E
Rating	125 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
Rating Air receiver	model 370 LVD 1,300 l/min @ 15 bar 300 l; max. 15 bar

Crane (standard)

Design	Front mounted, fully hydra crane with 400° slewing a service lead supports and welding tent	ngle. Complete with
Model	HIAB 099XLS (9 tm, 2 ext	ensions, 7.8 meter)
Capacity	87 kNm (8.9 tm)	
Max. reach	7,8 mtr	
Controls	Single joystick for all crane movements	
Load parameters	Crane reach	Load capacity
	2.2 m	3,700 kg
	3.8 m	2,180 kg
	5.4 m	1,520 kg
	7.3 m	1,120 kg

Welding Equipment (standard)

Design	4x electrically powered welding sources; mounted in anti-vibration frame
	mounted in anti-vibration frame
Model	4x Lincoln DC400 (K130920)
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

Basic machine

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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	•



Undercarriage	
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 80 A	•
Back-up alarm	•
Batteries, heavy duty cold start, 2 units	•
Battery main switch, mechanical	•
Horn	•
On-board system 24 V	•
Starter motor 7.5 kW	•
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	+



Canopy (Standard)

Armrests 3D adjustable	
Operator's seat, mechanical suspended,	
tiltable	
Operator's seat, 6-way adjustable	
ROPS	
Additional lights, roof mounted front/rear	
Warm water heating	



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 metre (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 099XLS	
(87 kNm, 2 extensions, 7.8 meter)	•
Lockable toolbox on left fender	•
125 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 DC400 welding sources	
including cable and remote control	+
Gas cylinder rack (for 6 cylinders)	+
GOST certificate	+
HIAB Crane XS111B3 DUO-special	
(93 kNm; 3 extensions; 10,1 meter)	+
HIAB Crane XS111B2 DUO-special	
(97 kNm; 2 extension; 8.0 meter)	+
Quincy 370 compressor	
(1300 l/min @ 15 bar)	+
Quincy 390 compressor	
(1800 l/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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