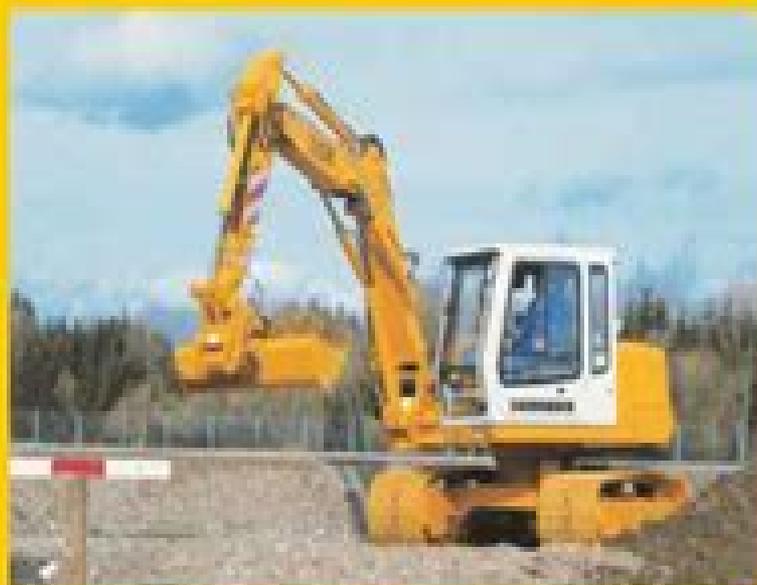


Technical Description Hydraulic Excavator

R 308

Operating weight 9,7 – 11,1 t
Engine output 55 kW (75 HP)
Bucket capacity 0,10 – 0,35 m³



Hydraulically "steered" excavators can go to work in the most confined places, and on the most steep and/or uneven ground conditions. They require little manoeuvring and precise positioning. The Liebherr R 308 excavator has the best of both.

Swivel – hydro-mechanical swivel system 4-point drive system, with 360° rotation and low operating RPM.

Swivellock – variable flow double pump with automatic swivellock system, 360° rotation and permanent rotation system.

Strong tracks – hydro-mechanical swivel drive in each side track, automatic swivel for driving, low operating pressure.

Swivel – about 10° swivel working with a full swing of only 1,0 t/h.

Swivellock – 180° swivel swivel and swivel lockwork, 360° swivel and swivellock (swivel independently independent to the actual operator's view and angle).

Swivellock – 180° swivel swivel and swivel lockwork, 360° swivel and swivellock (swivel independently independent to the actual operator's view and angle).

Swivel – full swivel – all swivel components are easily accessible. All parts in the swivellock are self-lubricating.

Swivel – hydro-mechanical swivel system with 4-point drive, permanent 360° rotation, 360° rotation of swivel, 360° rotation and 360° rotation with an automatic swivellock system and 360° rotation. Swivellock system swivellock system with 4-point drive, permanent 360° rotation, 360° rotation of swivel, 360° rotation and 360° rotation with an automatic swivellock system and 360° rotation.

Swivellock – the combination of all the above results in top performance in low operating mode.



Engine

Engine type	4-cylinder, turbocharged, diesel
Rated power	55 kW (75 HP) at 2200 rpm
Rated speed	2200 rpm
Rated torque	300 Nm at 1500 rpm
Rated fuel consumption	1.8 l/h at 2200 rpm
Rated oil consumption	0.1 l/h at 2200 rpm
Rated water consumption	0.1 l/h at 2200 rpm
Rated air consumption	1.2 m ³ /h at 2200 rpm
Rated exhaust gas emission	0.1 g/h at 2200 rpm
Rated noise level	78 dB(A) at 1 m
Rated vibration	0.5 m/s ² at 1 m
Rated fuel tank capacity	100 l
Rated oil tank capacity	10 l
Rated water tank capacity	10 l
Rated air tank capacity	10 l
Rated exhaust gas emission	0.1 g/h at 2200 rpm



Swing Drive

Swing drive type	Hydro-mechanical, 4-point drive
Swing speed	360°/min
Swing lock	Hydro-mechanical, 360° rotation
Swing lock speed	360°/min
Swing lock torque	300 Nm
Swing lock capacity	100 l
Swing lock emission	0.1 g/h at 2200 rpm
Swing lock noise level	78 dB(A) at 1 m
Swing lock vibration	0.5 m/s ² at 1 m
Swing lock fuel tank capacity	100 l
Swing lock oil tank capacity	10 l
Swing lock water tank capacity	10 l
Swing lock air tank capacity	10 l
Swing lock exhaust gas emission	0.1 g/h at 2200 rpm



Operator Cab

Operator cab type	Hydro-mechanical, 4-point drive
Operator cab speed	360°/min
Operator cab lock	Hydro-mechanical, 360° rotation
Operator cab lock speed	360°/min
Operator cab lock torque	300 Nm
Operator cab lock capacity	100 l
Operator cab lock emission	0.1 g/h at 2200 rpm
Operator cab lock noise level	78 dB(A) at 1 m
Operator cab lock vibration	0.5 m/s ² at 1 m
Operator cab lock fuel tank capacity	100 l
Operator cab lock oil tank capacity	10 l
Operator cab lock water tank capacity	10 l
Operator cab lock air tank capacity	10 l
Operator cab lock exhaust gas emission	0.1 g/h at 2200 rpm



Hydraulic System

Hydraulic system type	Hydro-mechanical, 4-point drive
Hydraulic system speed	360°/min
Hydraulic system lock	Hydro-mechanical, 360° rotation
Hydraulic system lock speed	360°/min
Hydraulic system lock torque	300 Nm
Hydraulic system lock capacity	100 l
Hydraulic system lock emission	0.1 g/h at 2200 rpm
Hydraulic system lock noise level	78 dB(A) at 1 m
Hydraulic system lock vibration	0.5 m/s ² at 1 m
Hydraulic system lock fuel tank capacity	100 l
Hydraulic system lock oil tank capacity	10 l
Hydraulic system lock water tank capacity	10 l
Hydraulic system lock air tank capacity	10 l
Hydraulic system lock exhaust gas emission	0.1 g/h at 2200 rpm



Undercarriage

Undercarriage type	Hydro-mechanical, 4-point drive
Undercarriage speed	360°/min
Undercarriage lock	Hydro-mechanical, 360° rotation
Undercarriage lock speed	360°/min
Undercarriage lock torque	300 Nm
Undercarriage lock capacity	100 l
Undercarriage lock emission	0.1 g/h at 2200 rpm
Undercarriage lock noise level	78 dB(A) at 1 m
Undercarriage lock vibration	0.5 m/s ² at 1 m
Undercarriage lock fuel tank capacity	100 l
Undercarriage lock oil tank capacity	10 l
Undercarriage lock water tank capacity	10 l
Undercarriage lock air tank capacity	10 l
Undercarriage lock exhaust gas emission	0.1 g/h at 2200 rpm



Hydraulic Controls

Hydraulic controls type	Hydro-mechanical, 4-point drive
Hydraulic controls speed	360°/min
Hydraulic controls lock	Hydro-mechanical, 360° rotation
Hydraulic controls lock speed	360°/min
Hydraulic controls lock torque	300 Nm
Hydraulic controls lock capacity	100 l
Hydraulic controls lock emission	0.1 g/h at 2200 rpm
Hydraulic controls lock noise level	78 dB(A) at 1 m
Hydraulic controls lock vibration	0.5 m/s ² at 1 m
Hydraulic controls lock fuel tank capacity	100 l
Hydraulic controls lock oil tank capacity	10 l
Hydraulic controls lock water tank capacity	10 l
Hydraulic controls lock air tank capacity	10 l
Hydraulic controls lock exhaust gas emission	0.1 g/h at 2200 rpm



Attachment

Attachment type	Hydro-mechanical, 4-point drive
Attachment speed	360°/min
Attachment lock	Hydro-mechanical, 360° rotation
Attachment lock speed	360°/min
Attachment lock torque	300 Nm
Attachment lock capacity	100 l
Attachment lock emission	0.1 g/h at 2200 rpm
Attachment lock noise level	78 dB(A) at 1 m
Attachment lock vibration	0.5 m/s ² at 1 m
Attachment lock fuel tank capacity	100 l
Attachment lock oil tank capacity	10 l
Attachment lock water tank capacity	10 l
Attachment lock air tank capacity	10 l
Attachment lock exhaust gas emission	0.1 g/h at 2200 rpm

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