

Job Report

Wheeled Excavator

A 912 Compact and A 918 Compact

Litronic®

Litronic®

The Wheeled Excavator
A 912 Compact Litronic and
A 918 Compact Litronic
in operation at the
Geiger + Schüle Bau GmbH



LIEBHERR



Situation

Many projects in the whole of Baden-Württemberg and places beyond state boundaries are a mark of expertise, performance and reliability. This notwithstanding, the Geiger + Schüle Bau construction company was able to win the tender for the three million euro project.

Geiger + Schüle Bau GmbH & Co KG was formed in 1990 by the merger of two long-established construction companies: Franz Geiger (since 1923) and Andreas Schüle (since 1904). As a result of this fusion, an office building and a plant

workshop were constructed on new premises in Ulm-Donautal that meet all requirements in terms of a modern and efficient construction firm. The company currently has a workforce of approximately 180 and has specialised itself in road works and civil engineering, rail construction, building restoration, and it also makes sound barriers. For all areas of deployment, the firm employs numerous machines from the Liebherr construction machine portfolio. It therefore seemed only natural to draw on Liebherr machines for the large project in Munich as well.

Task

Over four night shifts, 12 tree borders were to be erected. To do this, the temporary tarmac on the future tree sites had to be broken up. The tarmac, along with the integrated frost protection layer, then had to be removed, loaded and taken away. All of the sapling arrangements had to be made and facilities for implementation of the concrete tree protection plates had to be prepared and completed. Working at night

while traffic was still flowing meant that the machines had to fulfil a number of conditions. The machines had to be mobile, agile and powerful and, at the same time, exhibit environmentally-friendly properties with low noise emissions. Moreover, a great deal of value was placed on the machines featuring plenty of safety equipment.

Solution

Liebherr-Hydraulikbagger GmbH embraced the customer's needs and was able to offer two machines that indeed fulfil all requirements. The solution that was presented is the A 912 Compact Litronic with 4-wheel steering and the powerful, flexible A 918 Compact Litronic.

The A 912 Compact Litronic is fitted with a Deutz diesel engine that returns 80 kW / 109 HP (ISO 9249). This complies with emission standard stage III B and is equipped with an oxidation catalyst. The two-piece boom with swivel joint allows the machine to perform all necessary tasks even in close quarters. Furthermore, the A 912 Compact features the LIKUFIX quick coupling system, which enables fast and safe exchange of mechanical and hydraulic implements from the cab. In this way, long manual conversion measures and safe and environmentally aware work are promoted to an even greater degree. To remove the tarmac layer, a hydraulic hammer was employed, which was able to perform the work effortlessly. The 4-wheel steering makes the machine the ideal operating partner, above all, on city construction sites with few turning opportunities. The greater agility and flexibility means that the machine can be relocated quickly and conveniently without hindering flowing traffic.

The mobile A 918 Compact Litronic excavator is fitted with a Liebherr diesel engine that returns 115 kW/156 HP (ISO 9249) and complies with emission standard stage IV with the newly developed Liebherr-SCR technology. The innovative SCR system from Liebherr, consisting of SCR catalytic converter system and other components, such as injector and AdBlue® supply, facilitates a 91 percent reduction of nitrogen oxide (NOX). Keeping within the emissions specifications allows the environment to be protected, which is becoming more and more important mainly in urban areas. Thanks to the intelligent machine management with Liebherr Power Efficiency (LPE), the interplay of the drive components is optimised in terms

of efficiency. This makes it possible to operate the machine in areas with the lowest specific fuel consumption. Despite all tasks being performed in ECO mode - at low speed - the whole machine power can be drawn upon at all times and does not even impinge on the fuel consumption of 6 litres / hour.

The standard automatic digging brake ensures that manual actuation of the brake pedal is no longer required, which results in relaxed operation of the machine. When the accelerator pedal is in a neutral position and the machine is stationary, the working brake engages automatically. Furthermore, the automatic digging brake can be linked with the automatic swing axle lock.

The new Liebherr tyre without intermediate ring improves the stability thanks to the higher air pressure and greater footprint. It also impresses with its self-cleaning property, which offers many benefits for urban construction sites.

The joystick steering system allows the driver to steer the wheeled excavator proportionally using the mini joystick. In this way, working and driving movements can be performed at the same time without having to change controls. More efficient operation for even higher productivity.

Even the topic of safety is no way neglected on either of the compact machines. The short rear swing radius of 1.68 m on the A 912 Compact and 1.85 m on the A 918 Compact is indispensable on tight construction sites with flowing traffic. The machine operator is able to concentrate on his work in full and does not have to keep a constant eye on the traffic. The camera for rear area monitoring, which is included as standard, makes up the view to the rear. With the standard side view camera, the complete working area can be monitored on the colour display in the cab.





Technical Data – A 912 Compact Litronic

Operating weight	approx. 13 tons
Engine type	Deutz TCD3.6L4
Engine output	80 kW (109 HP) at 1,800 RPM
Emission control	Oxidation catalyst
Emissions stage	IIIB
Tail radius	1,675 mm

Equipment

Two-piece boom	2.35 m
Stick	2.05 m
Quick coupler	SW33 with LIKUFIX
Max. reach	8.55 m
Stabilization	Divided blade rear

Technical Data – A 918 Compact Litronic

Operating weight	approx. 18 tons
Engine type	Liebherr D924
Engine output	115 kW (156 HP) at 1,800 RPM
Emission control	Liebherr-SCR technology
Emission stage	IV
Tail radius	1,850 mm

Equipment

Two-piece boom	3.40 m
Stick	2.45 m
Quick coupler	SW48 with LIKUFIX
Max. reach	8.90 m
Stabilization	Stabilizer blade rear

Liebherr-Hydraulikbagger GmbH

Liebherrstraße 12, D-88457 Kirchdorf/Iller
 ☎ +49 7354 80-0, Fax +49 7354 80-7294
 www.liebherr.com, E-Mail: info.lhb@liebherr.com
 www.facebook.com/LiebherrConstruction