

# Technical description

## COMPLETE RANGE

LK Press tools is a complete range including machines and jaws for all connection types and dimensions sold by LK. The tools can also in several cases be used with other connection makes.

## FUNCTION

Jaws exist in individual series', adapted to different connection types. Their task is to press together the respective connections to a certain specific profile. The nose of the jaw is therefore uniquely shaped. In each series there is a jaw per connection dimension. The jaw is mounted in a press machine that creates the required pressure.

The press machine is powered by an electric motor that, together with a hydraulic pump, pushes out a piston. There are even entirely electro-mechanical press machines on the market. In the end of the piston there are two swivel castors that press apart a conical gap in the scissor-shaped jaw. The nose of the jaw closes down under high pressure around the connection to a leakproof seal. Controlled by an overpressure valve, the machine returns to its initial position after crimping is complete.

## PROPERTIES

Since all LK's press machines are hydraulic, the axial force from the piston can be checked carefully, and adapted to the work that the jaw will perform. For all compatible machines on the market, the requirement is that pressure force is min. 32 and max. 40 kN. A diagram of interchangeable machines/jaws is given in the *Compatibility* table below.

LK's press machines are CE marked and have IP54 protection class. Battery-powered machines are delivered with powerful and environmentally-friendly Li-ion batteries. The capacity of these is sufficient, depending on the type and dimension of the connection, for over 50% more compressions than a battery of Ni-MH type. The machines have built-in electronics that with the LED in the cover indicate low battery level (and also when it is time for a service). The machines are also equipped with HPC (Hydraulic Pressure Check) that checks that the machine's oil pressure is correct.

For press machines of model series Connect, you can get more detailed information in an illuminated LED display about service status, battery capacity, error codes, etc.



## CONNECT

Press machines of the new series Connect are all equipped with Bluetooth connectivity. The tool can be easily connected to the smartphone, tablet or computer.

You can read the identity of the tool and status, as well as make some simple settings through the app "I-Press" from Klauke, which can be downloaded for free via App Store or Android Play. For connection to a computer, a USB adapter is used (available as an accessory). The software "In-Press" for computer can be downloaded via [www.klauke.com](http://www.klauke.com).

The software for a computer has expanded features and settings compared to the app for the mobile and tablet.

## GUARANTEE

On machines and jaws, there is a 2-year guarantee against defects that were present when the product was delivered.

## SERVICE AND MAINTENANCE

We recommend all users to read carefully through the manual that is delivered with each machine. For the press tool to work well in a tough working environment, it is important that maintenance and service are carried out regularly. Press machines should be put in for service once a year.

## COMPATIBILITY

The interchangeability of different makes of press machines/jaws is shown below. Similarly, jaws should be checked yearly, ideally in a service centre.

Press jaws Machines		Klauke/LK	Klauke/LK	Klauke/LK	Novopress	Viega	Ridgid	REMS
		UAP2-3/Acke/Connect UAP4/Max/Connect UNP2/Nettan HPU2/Manuel	MAP1-2/Minipress V2	MAP2L19/Minipress V2-19kN/Connect	EFP/AFP 201-202 ECO/ACO 201-203	PT3-EH PT3-AH	RP 330	Power-Press ACC Akku-Press Akku-Press ACC
Klauke/LK	KSP4/LK/IBP >B<Press/V 12-54 mm	Yes			Yes	Yes	Yes	Yes
Klauke/LK	Press chain 42-54 mm KSP4/LK/IBP/>B<Press/V ***	Yes						
Klauke/LK	KSP11/LK PressPex/TH 16-63 mm	Yes			Yes	Yes	Yes	Yes
Klauke/LK	LK PressPex Press chain 75 mm***	Yes						
Klauke	KSP3/M 12-35 mm	Yes			Yes	Yes	Yes	Yes
Klauke	Press chain 42-54 mm KSP3/M ***	Yes						
Klauke/LK	Minijaws KSP4/LK >B<Press/V 12-28 mm **		Yes					
Klauke/LK	Minijaws KSP11/LK PressPex/TH 16-32 mm		Yes					
Klauke	Minijaws KSP3/M 12-28 mm **		Yes					
Klauke/LK	Minijaws V2-19kN KSP4/LK >B<Press/V 12-35 mm			Yes				
Klauke/LK	Minijaws V2-19kN KSP11/ LK PressPex/TH 16-40 mm			Yes				
Klauke	Minijaws V2-19kN KSP3/M 12-35 mm			Yes				
Novopress	IBP				Yes	Yes	Yes	Yes
Viega	"SOM", 12-54 mm "PT2", 12-54 mm	Yes			Yes	Yes	Yes	Yes
REMS	"V", 12-54 mm*	Yes			Yes	Yes	Yes	Yes
REMS	"TH", 16-63 mm	Yes						

\* 42 and 54 mm should be avoided.

\*\* Max dim. 28 mm copper, 22 mm steel

\*\*\* NOTE: Adapter jaw is required.

## BATTERY CHARGING

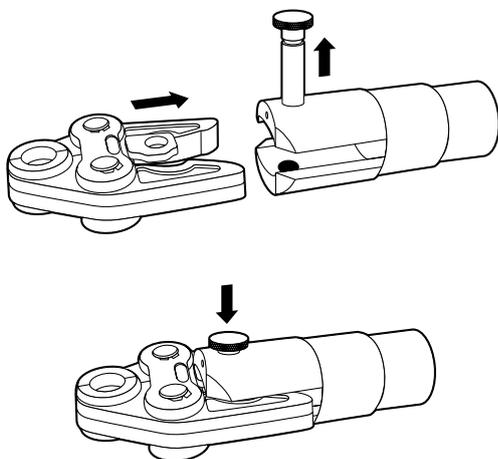
Batteries must be handled correctly to retain their capacity. A battery of NiCd or NiMH type works best if it is always completely discharged before new recharging, and if charging continues until it is complete. Our chargers indicate status by LEDs. A battery of Li-ion type is not negatively affected by short charging cycles. A battery is also a consumable with a limited number of possible discharges.

## SERVICE CENTRE

Service and repair of LK's press tools is carried out by LK Service center in Gävle. LK Service center is authorized by the manufacturer and with specialized expertise in press machines.

LK Service center maintains a database of history for supported machines. By signing serial number and date of purchase, this will be registered and you will receive an invitation to the annual service.

**Tip!** When changing jaw:



**Note!** It is very important that the locking bolt is **fully** pushed in after the jaw has been mounted in the machine attachment.

## MARKING AND TRACEABILITY

Each machine is individually marked with its own machine number, where a letter code also indicates the manufacturing date (example: 123456AB78). The same letter code also applies to batteries. Furthermore, LK can use the machine number as a search term in our administrative system to track when and to whom a particular machine was delivered.

The jaws are marked with, for example KW40/08, which indicates the calendar week and the year when they were manufactured.

## DISCARDED PRESS TOOLS

Waste management of discarded tools must be done with care. The machines contain hydraulic oil that is dangerous for groundwater. They must therefore be transferred to an approved waste management facility that will first drain out the oil for separate destruction.