

**FT FLUIDOTEHNIC**

# HYDRAULIC DEVICES AND SYSTEMS

CATALOG OF DEVICES



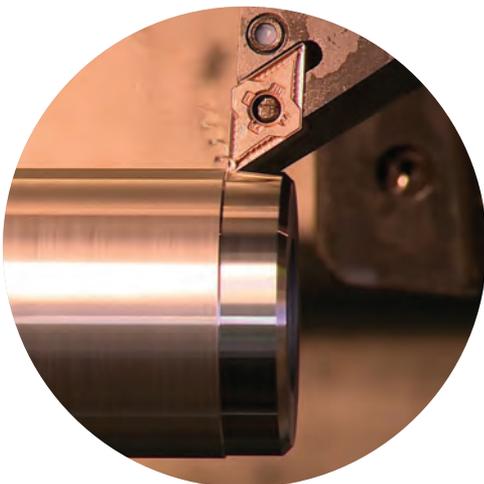


- FLUIDOTEHNIC's production program is based on its own development. Thanks to that, all the products are the result of the engineering staff work, as well as the quality and skilled workers in manufacturing and installation. Each serial product during the conquest passes through the phase of prototype development, functional tests and check in real operating conditions. Following step is removal of all possible defects and then, based on that, test series is produced. This is how we achieve high quality of manufactured devices. In case of the individual production, after the functional testing, we deliver the product to the customer.
- Since its foundation FLUIDOTEHNIC Ltd. has been continuously investing both in the expansion of commercial building and the purchase of modern equipment for the production, control and techno-economic support. It is located in the industrial zone of Vrnjacka Banja, on a lot size ~ 2ha. It consists several buildings, connected into a functional whole area of 4000 m2. The whole complex is adjusted to the environment- we are taking good care of health, work safety and environmental protection.





- Market research, device development, technical assistance and personnel training free of charge for all our customers is the main task of this service. Many years of experience in the development tasks of hydraulics, pneumatics and lubrication techniques, as well as the latest computer technology guarantee that our customers will get the optimum technical solution. During the development, every device passes precisely defined procedure, starting from making the design concept, followed by manufacturing and testing prototypes and going into production.
- It consists of several facilities and departments: foundry of non-ferrous metals, mechanical drive, locksmith department, installation and technical control. All operations from the casting to the final machining are performed with the universal and software machines. Control and assembly is 100%. When the assembly is finished, each device is being tested on the test stand and on the basis of the results it gets the appropriate certificates and guarantees. On each call of the user, service teams come in as soon as possible, with spare parts and the necessary tools, regardless of whether the equipment is in warranty or out of warranty period.

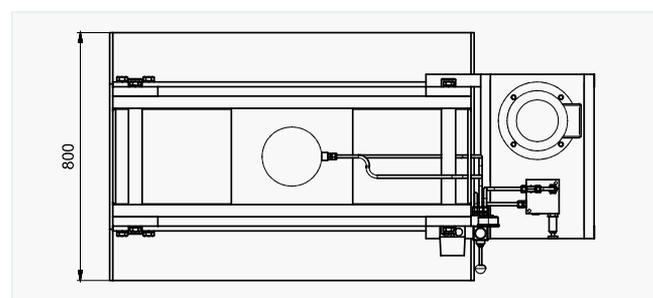
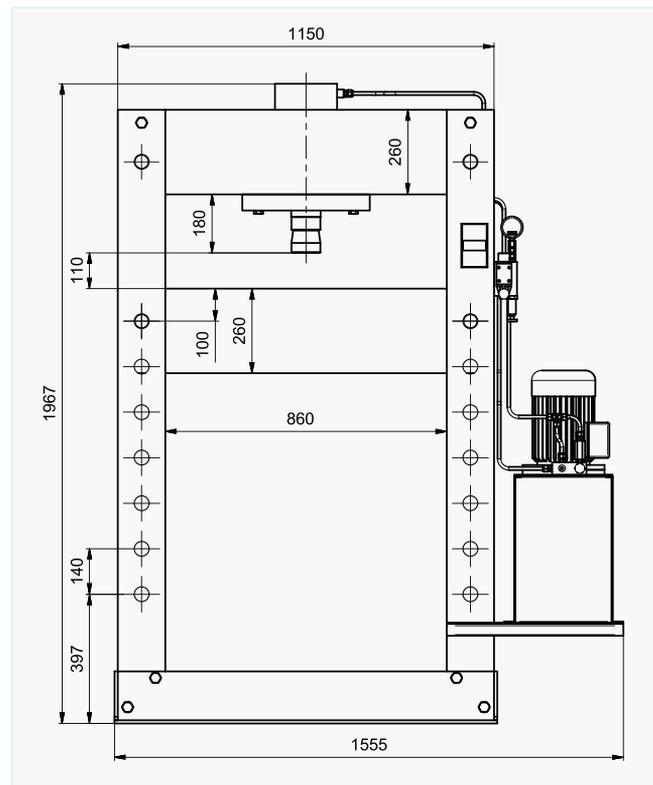
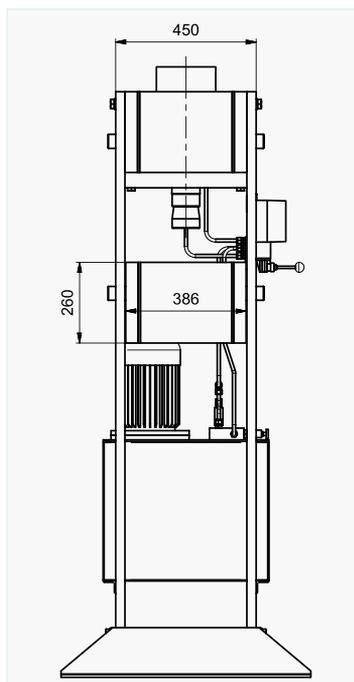


## HYDRAULIC PRESS HP - 60



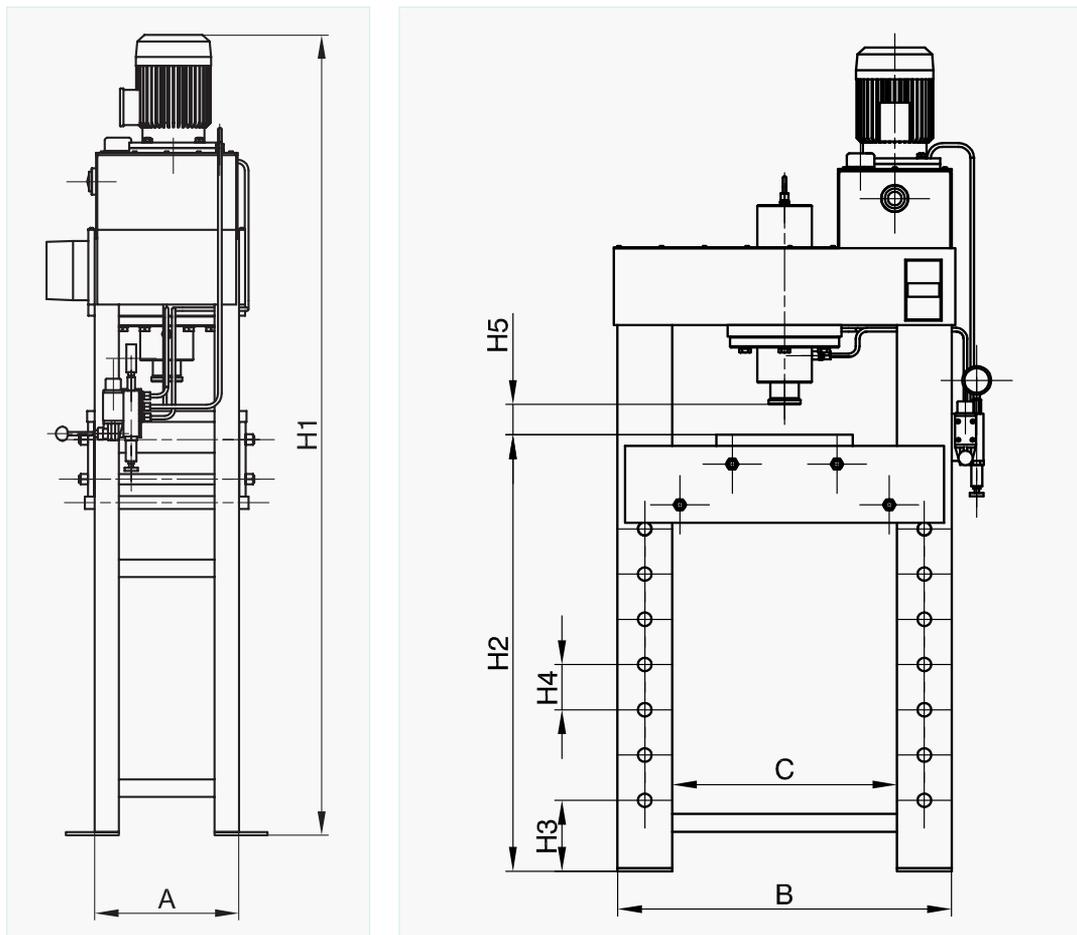
Ordering code	15 - 0200
Crimping force	60.000 daN
Piston stroke	180 mm
Min. height of working space	110 mm
Max. height of working space	940 mm
Electric motor	1,5kW; 3x400V; 50Hz
Pul-out piston speed without load	5,7 mm/sec
Pul-out piston speed with load	1 mm/sec
Pressure at rapid stroke	50 bar
Crimping pressure	Max. 300 bar
Max. pressure	350 bar
Fluid - mineral oil	Hidrol HD-46
Temperature range	-20 to +50°C
Mass	780 kg

Hydraulic presses are applied for assembling and disassembling of various machine parts with tight fit (bushes, bearings, guides . . .), in production plants and service workshops. It's also suitable for deep-rolling of sheet metal and shaft straightening. It's possible processing by deformation of pieces with different dimensions due to changing the position of the working surface by the height and a great piston stroke. Press is a two-stage with the quick approaching stroke and slow-speed crimping stroke. Hand operating distributing valve is used for precisely lowering and return of the piston. Pressing force is adjusted by pressure relief valve (max 300 bar). The presses of various dimensions and pressing forces are available on customer request..



# HYDRAULIC PRESSES

Hydraulic press is applied in manufacturing plant and service workshops for assembling and disassembling of machine parts with tight fit, such as bearings and bushes. It is also suitable for metal sheet extraction and rod straightening. The working surface can be fixed at different levels depends of dimension of working piece. Hand operating distributing valve is used for precisely lifting and downing of the cylinder rod. Pressing force is adjusted by pressure relief valve (max 160 bar). The presses of various dimensions and pressing forces are available on customer request.



Ordering code	15 - 0100	15 - 0135	15 - 0150	15 - 0180
Pressing force	80 kN	125 kN	200 kN	320 kN
Piston stroke	260 mm		400 mm	
Pressing time	35 sec	55 sec	70 sec	120 sec
Rejecting time	14 sec	34 sec	40 sec	90 sec
Max. operating pressure	160 bar			
Displacement of the pump	2,2 dm <sup>3</sup> /min		4,0 dm <sup>3</sup> /min	
Electric motor	1,1 kW 380 V 50 Hz 1370 rpm			
Fluid - mineral oil	Hidrol HD-46			
Tank volume	10 dm <sup>3</sup>		20 dm <sup>3</sup>	
Mass	200 kg	210 kg	400 kg	420 kg

Code	15-0100	15-0135	15-0150	15-0180
A	325		360	
B	735		760	
C	510		520	
H1	1820		1980	
H2	965		1000	
H3	157		288	
H4	100		100	
H5	68		84	



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## EC DECLARATION OF CONFORMITY / DECLARATION ON INSTALLATION

DEKLARACIJA O USAGLAŠENOSTI / DEKLARACIJA O UGRADNJI

**We hereby declare that the following products**

Izjavljujemo da su sledeći uređaji

**Hydraulic cylinders** (Hidraulički cilindri)  
**Hand pumps** (Ručne pumpe)  
**Actuators** (Aktuatori)  
**Hydraulic presses** (Hidraulične prese)  
**Change-over valves** (Hidraulički razvodnici)  
**Electric driven change-over valve** (Elektromotorni razvodnici)  
**Pressure and flow valves** (Ventili pritiska i protoka)

**Are designed and produced in accordance with the safety requirements according to the following regulations:**

Projektovani i proizvedeni u skladu sa bezbednosnim zahtevima prema sledećim propisima:

**Machinery Directive EC/2006/42**  
(Mašinska direktiva EC/2006/42)

**Low voltage directive EC/2014/35**  
(Niskonaponska direktiva EC/2014/35)

**in accordance with the following standards:**  
i u skladu sa sledećim standardima:

**Safety of machinery - General principles for design**

- **Risk assessment and risk reduction EN ISO 12100:2010**  
Bezbednost mašina - Opšti principi za projektovanje  
- Ocena rizika i smanjenje rizika SRPS ISO 12100:2014

**Safety of machinery - Electrical equipment of machines - Part 1: EN 60204-1:2016**  
Bezbednost mašina - Električna oprema mašina - Deo 1: EN 60204-1:2016

**Declaration on installation in the sense of EC Machinery Directive (2006/42/EC) Annex II B**

Izjava o ugradnji u skladu sa EC Mašinskom direktivom (2006/42/EC) Anex II B

**Product of "FLUIDOTEHNIC" assemble into mechanical devices and equipment. Start-up is not admissible unless it has been verified that the whole equipment, meets the requirements defined in the EC machinery Directive (2006/42/EC)**

Proizvod "FLUIDOTEHNIC"-a se ugrađuje u drugu opremu i dodatne uređaje. Pokretanje nije dozvoljeno sve dok i relevantna oprema u koju se ugrađuju ne bude u skladu sa Mašinskom direktivom (2006/42/EC)

**The manufacturer undertakes to supply the relevant information of incomplete machine on request to responsible inspector by electronic way. Technical documents of the machine is prepared in accordance with Annex VII, part B Machinery Directive (2006/42/EC)**

Proizvođač se obavezuje da će elektronskim putem dostaviti odgovarajuće podatke o delimično završenoj mašini nadležnom inspektoru na njegov zahtev. Tehnička dokumentacija je izrađena u skladu sa Anexom 7, deo B Mašinske direktive.

Vrnjačka Banja, 01/02/2017 godine



Šjivić Miroslav, General Manager

The EC Declaration of Conformity is only valid in conjunction with confirmation that the device has been correctly applied, installed, inspected and maintained according to the operating instructions provided. The validity of the declaration will cease in case of any modification and/or supplement not previously approved by "FLUIDOTEHNIC".

Ova deklaracija o usaglašenosti važi samo u slučaju da je uređaj pravilno ugrađen, iskontrolisan i da se koristi i održava u skladu sa uputstvom za rukovanje i održavanje. Važenje izjave prestaje u slučaju bilo kakve modifikacije ili dodatka koji nisu prethodno odobreni od "FLUIDOTEHNIC"-a.



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