

# FAG OFFSETPRESS 104



FAG SA · 7, rue de Genève · CH-1001 Lausanne · ☎ 021/20 12 71 · Telex 24 193



# F.A.G. OFFSETPRESS 104

**Flatbed offset power proofpress  
with trolley-mounted,  
interchangeable inking units  
Printing size 72x104 cm**

The F.A.G. OFFSETPRESS 104 is conceived as a means of efficiently producing proofs which correspond in every way to the results obtained in the final run. This is a technically advanced machine built to the quality standards that have already allowed Swiss mechanical engineering to achieve a worldwide reputation.

The following guidelines were adopted by F.A.G. designers when planning the 104 OFFSETPRESS:

- The best way of obtaining reliable proofs is by using the same paper and the corresponding ink as for the production run.
- It must be possible, on the proofpress, to simulate the conditions (ink density and dot or press gain) which will apply in production printing.
- Colour changing must be fast and easy.
- Paper and ink consumption, as well as setting up times, must be significantly less than when using production presses for proofing purposes.
- A new machine must immediately impress the user with its operational reliability, safety and convenience.

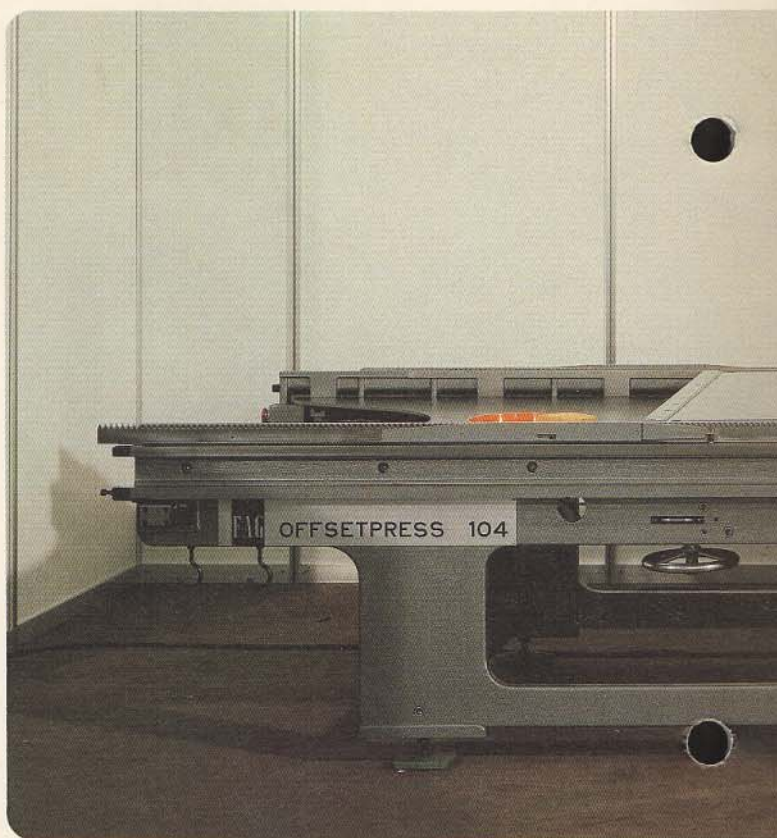
The outstanding reception given to the F.A.G. OFFSETPRESS 104 in European and overseas markets is the proof that these design criteria were right:

The F.A.G. power proofpress enables the conditions of production printing to be precisely simulated. Inking and dot gain values are precisely checked during proof production by means of colour control strips and densitometers.

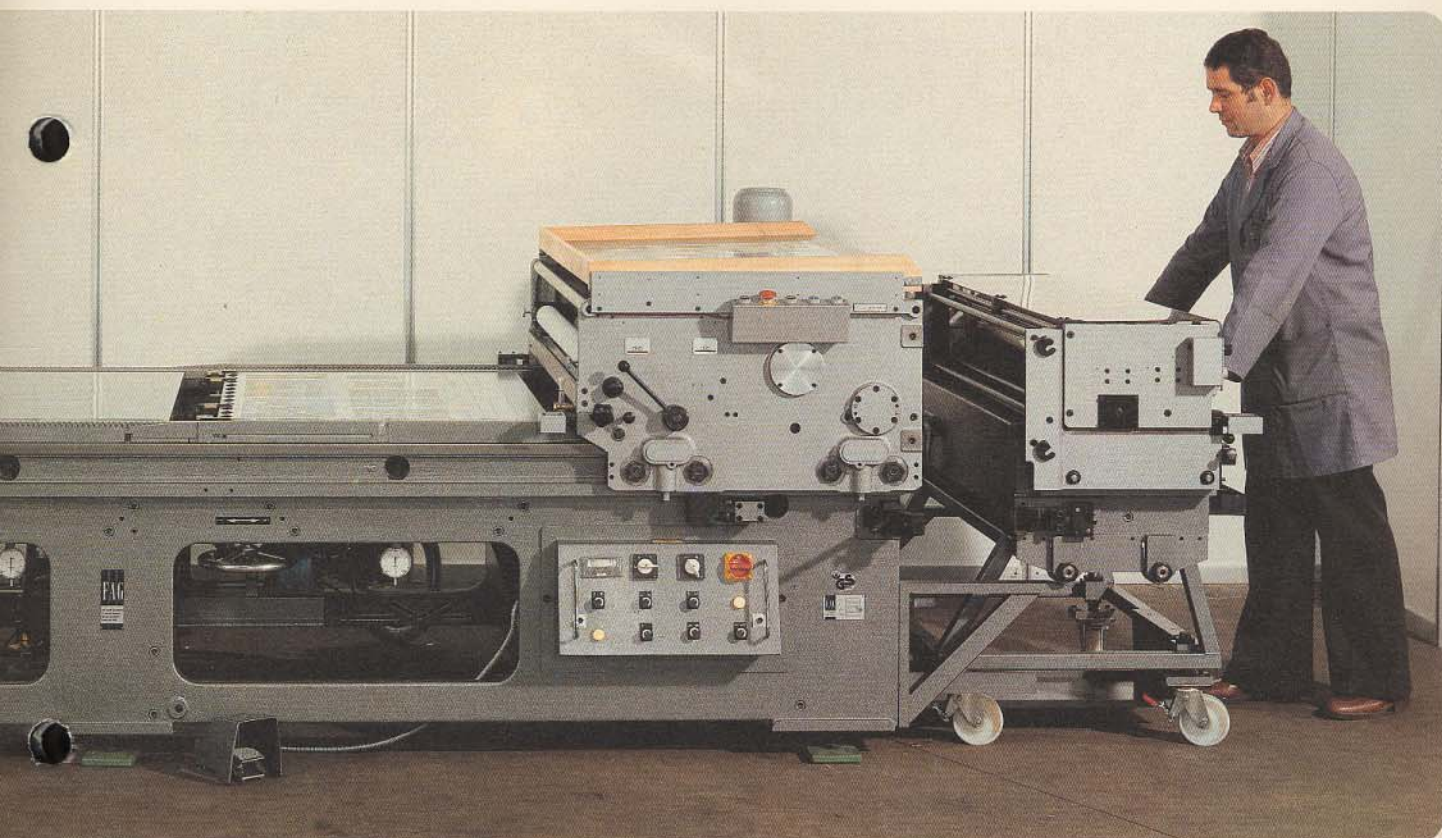
The patented, fully interchangeable inking units on the F.A.G. OFFSETPRESS 104 are mounted on trolleys. This enables colour changing to be completed in record time, and the entire inking unit to be rolled right away from the machine for washing.

The succeeding colour is printed immediately, with no loss of time.

Safety against accidents had high priority during design of the F.A.G. proofpress. Effective safety devices are provided at all points of potential danger, and this safety-first conception has earned for the machine the official approval of the German Printing and Paper Trades Association, Wiesbaden.







## Inking units

Each of the trolley-mounted inking units forms an independent device. When changing colours the inking unit is separated from the proofpress, rolled away, and connected to a separate power supply unit which is remote from the machine itself. No washing-up need take place in the proofpress. While the operator continues with a clean inking unit for the new colour, an assistant supervises the washing operation, and can even run in the ink of the new colour so that the unit will be ready again for instant use.

Rolling the inking units to and from the press is fast and simple. Connection to the machine is by means of an accurate fast-fit positioning and locking system.

The inking system consists of a stationary and a travelling unit. Two speeds are available, normal speed for printing and high speed for ink-distribution and washing. The rollers are lifted and lowered electro-mechanically, and all rollers stay cleared at the end of each working shift.

## Machine base

The massive cast-iron base is supported on six anti-vibration levelling pads, giving simple installation and protection against any disturbing shock-waves from neighbouring plant.

## Beds

The plate bed is made in cast aluminium and is provided with an integral cooling coil, making it a self-contained cooling system. The cooling temperature is electronically controlled, reacting automatically to the ambient temperature. An even, constant temperature is maintained over the entire offset plate.

The plate is gripped firmly yet without bending in the clamping device, which allows adjustment for any plate size. The machine can be equipped with any register system.

The chromium-plated, rustproof printing bed is provided with 12 mushroom grippers, 2 front lay marks and 1 side lay mark for precise paper registering. The gripper can be either pedal-switch operated or with electro-magnetic action, as required.

Both printing beds can be set vertically to an accuracy of  $\pm 0.01$  mm, with reading by means of dial comparators.

## Carriage

The carriage carries the printing cylinder, the travelling section of the inking unit, the complete damping system and the paper table.

Drive is from a 2-speed (3-speed if required) braked motor, via a gearbox and helical rack-and-pinion pair, guaranteeing printing without chatter marks.

Either automatic, semi-automatic or manual mode can be selected for the printing cycle.

## Rubber blanket

The push-away paper table gives easy access for washing and changing the rubber blanket.

## Damping unit

A travelling damping system is provided on the FAG power proofpress. During printing, drive is by rolls over the ramps and by the damping rollers over the offset plate.

The cooled plate bed enables the ink-water ratio to be quickly established and reliably maintained.

## Safety devices

Safety devices are plentiful and effective: photocells in front of and behind the carriage, an instantly accessible Emergency Stop hitbutton, transparent guards over the inking and damping units, key-operated main power switch to prevent the unauthorized use of the machine.

Extra safety during blanket washing is provided by the push-away paper table, giving free access to the cylinder.

The safety-first conception of the machine meets the strict standards imposed by the German Printing and Paper Trades Association, Wiesbaden, who have awarded their Safety Mark to the FAG. OFFSETPRESS 104.





*Metal decorating*



*Offset proofing*

## Further design features

By the employment of light alloys for many components, and refined calculation techniques for optimum mass/stiffness ratios, it has been possible to keep the weight of the press relatively low. Floor loading problems are thus reduced, and the price of the machine is less influenced by the weight of material going into its construction.

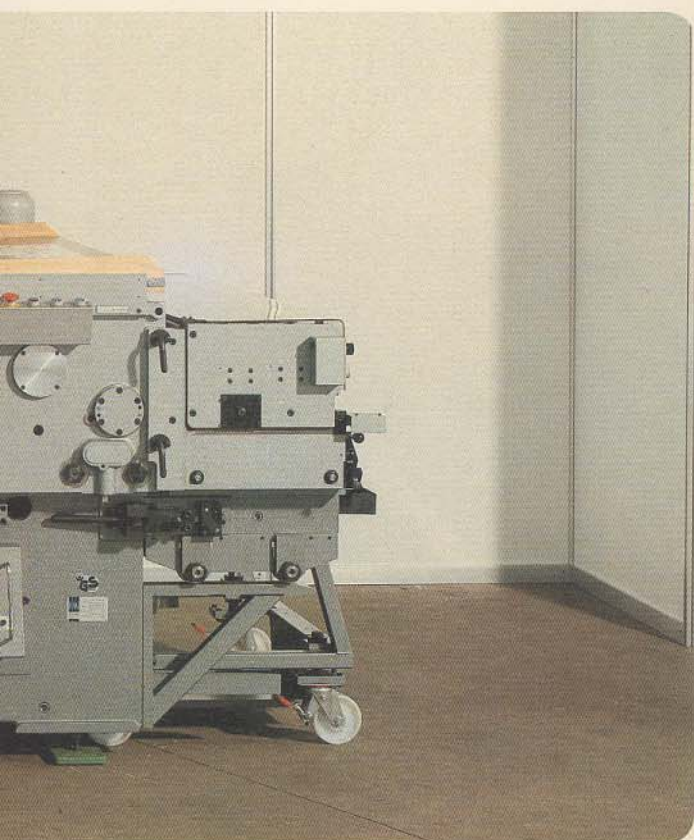
With an overall length of only 444 cm, the machine is compact and space-saving.

Self-lubricating bearings are used throughout, making the F.A.G. OFFSETPRESS 104 largely maintenance-free.

Proofpress users everywhere are happy with the outstanding convenience of the press. No awkward handlevers for the inking unit and cylinder need to be operated. Pushbutton control is provided for raising and lowering all inking rollers.

## Applications of the F.A.G. OFFSETPRESS 104

- Repro shops, and any printing works where proofs are needed which correspond exactly to the production output.
- For quick production of pre-proofs, e.g. of scanner colour separations. For even faster proof production, split inking units are available, giving the possibility of simultaneous printing in 2 colours. (Maximum format in this case: 52x72 cm.) Proof production times can be almost halved by this method.
- Colour set proofing for the C+H process (Toppan process using offset film for gravure printing).
- In cartographic institutes for map printing.
- Metal decorating. This is a special application area in which the F.A.G. OFFSETPRESS 104 performs particularly well.



## Technical specification

### Overall dimensions

Length	444 cm – 174 <sup>3</sup> / <sub>4</sub> "
Width	190 cm – 74 <sup>3</sup> / <sub>4</sub> "
Height	135 cm – 53"
Height to paper table	125 cm – 49"

### Weight

Machine with 1 inking unit	4100 kg approx. 9040 lb
Inking unit only	510 kg approx. 1125 lb

### Power consumption

With 1 inking unit fitted	3 kW, 20 A
Inking unit only	1 kW, 16 A
Machine + 2 inking units	4 kW

### Printing sizes

Printing format max.	72x104 cm 28 <sup>5</sup> / <sub>16</sub> "x41"
Paper size max.	80x106 cm 31 <sup>1</sup> / <sub>2</sub> "x41 <sup>3</sup> / <sub>4</sub> "
Plate size max.	82x108 cm 32 <sup>1</sup> / <sub>4</sub> "x42 <sup>1</sup> / <sub>2</sub> "

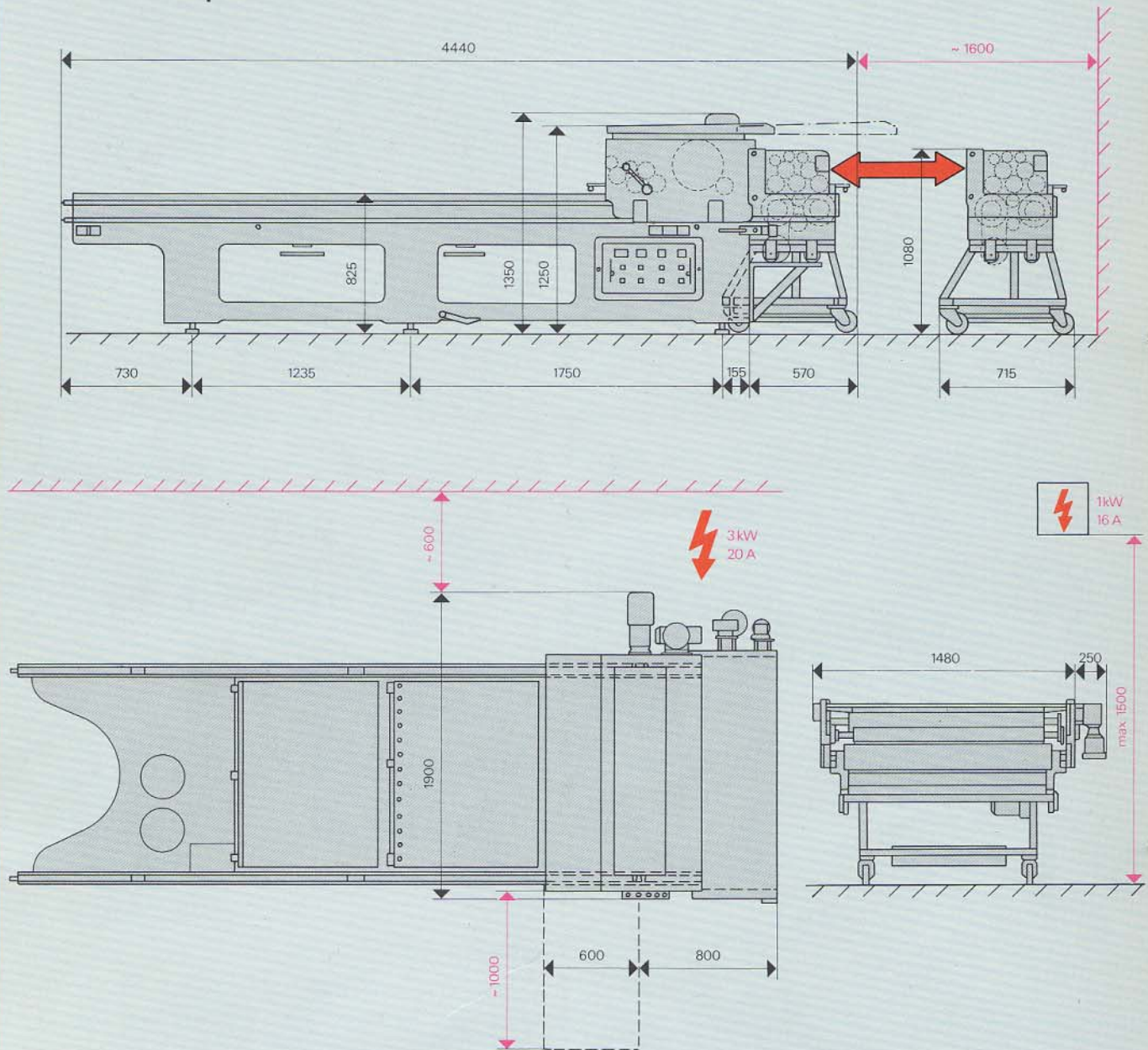
### Beds

Height adjustment max.	5 mm – <sup>3</sup> / <sub>16</sub> "
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# F.A.G. OFFSETPRESS 104.

## Technical specification



Optional equipment for special applications is specified in our detailed quotations.

Technical specifications and illustrations are subject to alterations without notice.

F.A.G. SA Lausanne - 7, rue de Genève - CH - 1001 Lausanne - Switzerland - Phone 021/20 12 71 - Telex 24 193

F.A.G. is a member of the BOBST group

