



ABSOLUTE QUALITY  
MADE IN FINLAND



# FP20

SPEED, PRECISION AND QUALITY

FP20 is the first step towards high scale production with automatic quality control and other advanced options.

FP20 is the powerful little brother of our famous FP120. It's ideal for high volume production up to 1 1/2" 4-wire hydraulic hoses. It supplied with built-in die storage (14 slots) and Quick Change-tool as standard.

FP20 is available with separate hydraulic unit or as a compact model.

## TECHNICAL DATA

Max crimping dia (mm/inch) <sup>1)</sup>	61/2.4
Max crimping dia with master dies (mm/inch)	94/3.7
Max. crimping force (kN)	1500
Max. crimping force (tonnage)	150
Cycle time 10 mm (s) <sup>2)</sup>	1.9 (S-model: 1.4)
Hydraulic hose size (inch)	1 1/2 *
Industrial hose size (inch)	2.4 *
Die set series <sup>3)</sup>	20
Max. opening (mm) <sup>4)</sup>	+68
Max. opening without dies (mm)	152
Master die D/L (mm)	84/97
Master die D/L (inch)	3.90/3.82
Motor Power (kW/HP)	3.0/4.0
Oil tank volume	135 l

## DIMENSIONS (LxWxH)

Machine (mm)	640x700x1372
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	25.2x27.6x54.0
Hydraulic Unit (inch)	28.1x27.8x41.7

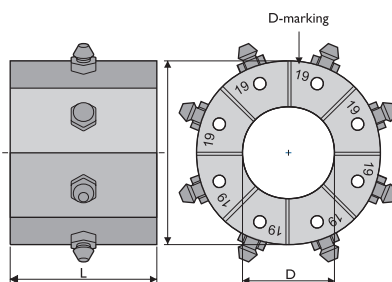
## WEIGHT (KG/LBS)

Machine	504/1109
Hydraulic Unit	150/330
Compact setup	710/1562

\* ACCORDING TO THE FITTING.



Die sets can be installed into the master dies with a QuickChange-tool one set at a time.



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) See table for die set data.
- 4) Maximum opening is the total die travel. Add this value to the minimum crimping diameter of the die set used. The result is the maximum opening of the machine with die set in place.

## CONTROL

ICC (7" touchscreen) or  
SCC (5" touchscreen)

## STANDARD FEATURES

QuickChange-tool (part no 691043)  
Electric backstop device (part no 705183)  
Mirror (part no 404136)  
Pressure crimping (ICC only)  
Step crimping

## OPTIONS (SCC & ICC)

Foot pedal (part no 691563)  
Mechanical back stop device (part no 704920)  
Interface pack ETH (communication TCP/IP & UDP)  
Oil cooler J3 \*\*  
Combi unit (crimping and hydraulic unit combined)  
Pinning support mandrel  
Camera with 7" display

\*\* Will have impact on motor size, hydraulic unit dimensions and weight.

## OPTIONS (ICC ONLY)

Smart die rack SDR (8 slot)  
Quality control ICC3  
Graphical quality control ICC4  
Auto greasing G3  
Bar Code Reader BCR  
Speed adjustment \*\*  
Oil Condition Monitoring OCM  
Industry 4.0  
A3 signal

\*\* Will have impact on motor size, hydraulic unit dimensions and weight.



Electric backstop device as a standard feature.



FP20ICC and FP20SCC are supplied with built-in die storage (14 slots)

## DIE SET 20-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18013/10	10	55	10.0-12.0
18013/12	12	55	12.0-14.0
18013/14	14	55	14.0-16.0
18013/16	16	55	16.0-19.0
18013/19	19	55	19.0-23.0
18013/23	23	55	23.0-27.0
18013/27	27	70	27.0-31.0
18013/31	31	70	31.0-36.0
18013/36	36	75	36.0-41.0
18013/41	41	75	41.0-47.0
18013/47	47	85	47.0-54.0
18013/54	54	85	54.0-61.0

In addition to the standard die sets, a wide range of special die sets is available on request.