

PRODUCT CATALOGUE 2020



ENGLISH
VERSION 1.1





Dreams came true

Jorma Lillbacka, who grew up in the spacious nature of Ostrobothnia, has never gone with the flow. Already from childhood, Jorma has determinedly carried out his own dreams and built everything from powerful industrial machines to airplanes. Lillbacka's entrepreneurial spirit has made innovation, quality and service more than just words: they are a way of life.

Lillbacka Group is strongly Finnish company whose main pillar of operations is the high quality of products. For over 50 years Lillbacka has proven to be successful, creative and diverse.

AT LILLBACKA, DREAMS CAN INDEED BECOME REALITY.

PRODUCT CATEGORIES

SERVICE

Crimping machines for mobile and on-site service business.



9

WORKSHOP

Crimping machines designed for small and medium size workshop use.



19

PRODUCTION

Crimping machines for large workshops and OEM level production.



27

HEAVY DUTY

When standard crimping machines are not big enough! Legendary King Crimpers!



37

SIDE FEED

Crimping machines designed for complex bended automotive hoses.



43

NUT & CABLE

NC-machines are designed for coupling manufacturing but can be used for multiple applications.

CC-machines are optimal for cable and pipe crimping.



51

CUTTING

World class hose cutting machines for low and high volumes.



61

SKIVING

Skiving machine for internal and external skiving.



71

EXPANSION


Expansion machines for large scale tube expansion.



75

MODELS


Different machine layout and speed models.



79

OPTIONS

Value adding options to improve productivity, cost efficiency, quality and safety.



85

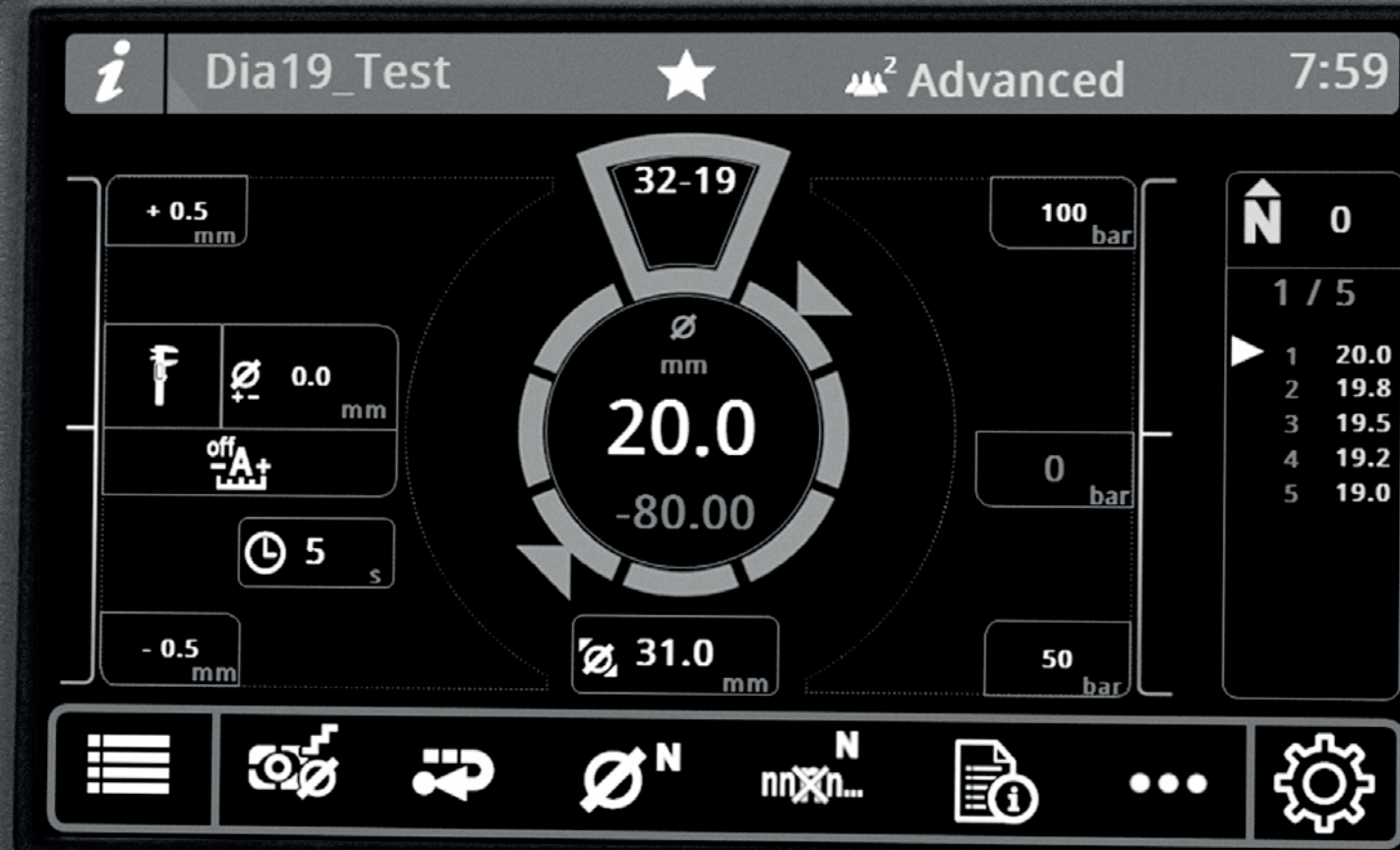
DIE SETS

Standard die set tables and special dies for customer specific needs.



103

INTELLIGENT CRIMPING CONTROL



FINN-POWER



CONTROLS

CRIMPING | CONTROL | COMPARISON



SCC

OPTIONS

SCC step crimping
 SCC report
 Interface pack ETH (Communication TCP/IP & UDP)
 A3 signal (cable not included)

SCC IS AVAILABLE FOR THESE MACHINES

P20 & P32CS + Z-model
 P20, P32, P51 & P60
 FP20, FP120, FP140 & FP145
 CC22, CC26 + Z-models

More models may be added,
 please check the latest availability

ICC

OPTIONS

Pressure crimping ICC1
 Step crimping ICC2
 Quality control ICC3
 Graphical quality control ICC4
 Interface pack ETH (Communication TCP/IP & UDP)
 Bar Code Reader BCR

ICC IS AVAILABLE FOR THESE MACHINES

FP-series
 SP-series
 NC-series
 CC-series
 KC-series
 EF-series

CONNECTIVITY

Ethernet (TCP/IP, UDP/IP & FTP)
 USB
 CAN bus
 A3 signal



ICC

INTELLIGENT CRIMPING CONTROL

The only control in the world specifically designed for crimping machines. This ensures the best accuracy and repeatability in the market. New innovative automatic correction function removes the need for machine calibration.

ICC is very robust and high resistant for physical impact and vibration. IP66 compatibility guarantees operations in high humidity and extreme temperatures.

7" resistant touch screen and icon based graphical user interface enables fast and easy usage.

ICC comes with more advanced Recipe and Job Queue management. Favourites and color coded recipes make usage easy.

ICC enables individual user management with different level user rights.

ICC control is Industry 4.0 compatible.

CONNECTIVITY
Ethernet (TCP/IP, UDP/IP & FTP)
USB
CAN bus
A3 signal

OPTIONS
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR

ICC IS AVAILABLE FOR THESE MACHINES
FP-series
SP-series
NC-series
CC-series
KC-series
EF-series





SCC

SMART AND FAST CRIMPING CONTROL

SCC IS EASY-TO-USE BASIC CONTROL WITH 3,5" SCREEN, INCLUDING SOME OF THE INTELLIGENT ICC-CONTROL FEATURES.

- Simple, easy and fast
- Economical
- Intelligent functions
- Accurate
- Enables also P-machine connectivity to internet (reporting, recipe & job feeding etc)
- Robust with push buttons (can be operated with gloves on)
- Quick pop-up menu browsing with control-wheel
- Correction value and crimping delay
- Counter (ascending/descending)
- Recipe memory for often used crimping programs
- Job queue
- ERP-connection possibility, ability to send recipes and jobs (work queues) into SCC-control from outside sources (FTP, TCP/IP)
- Communication- and interface-options (ETH, USB, FTP)
- Machine online status can be remotely monitored (UDP)
Enables e.g robot connectivity
- Data recording, control values (CSV)
- Watchman-connectivity
- Step crimping -option

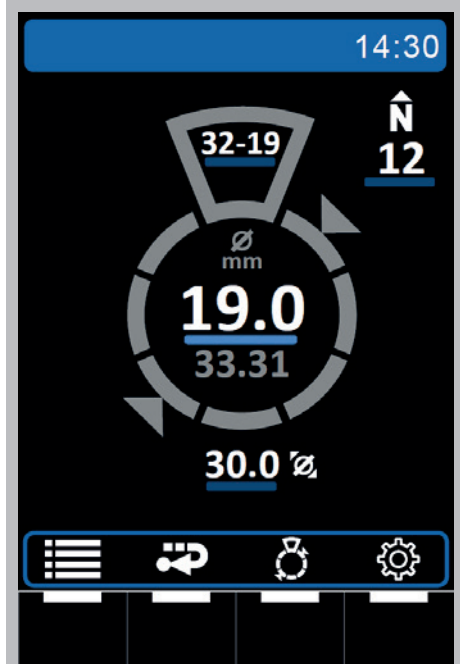
OPTIONS

SCC step crimping
 SCC report
 Interface pack ETH (Communication TCP/IP & UDP)
 A3 signal (cable not included)

SCC IS AVAILABLE FOR THESE MACHINES

P20 & P32CS + Z-model
 P20, P32, P51 & P60
 FP20, FP120, FP140 & FP145
 CC22, CC26 + Z-models

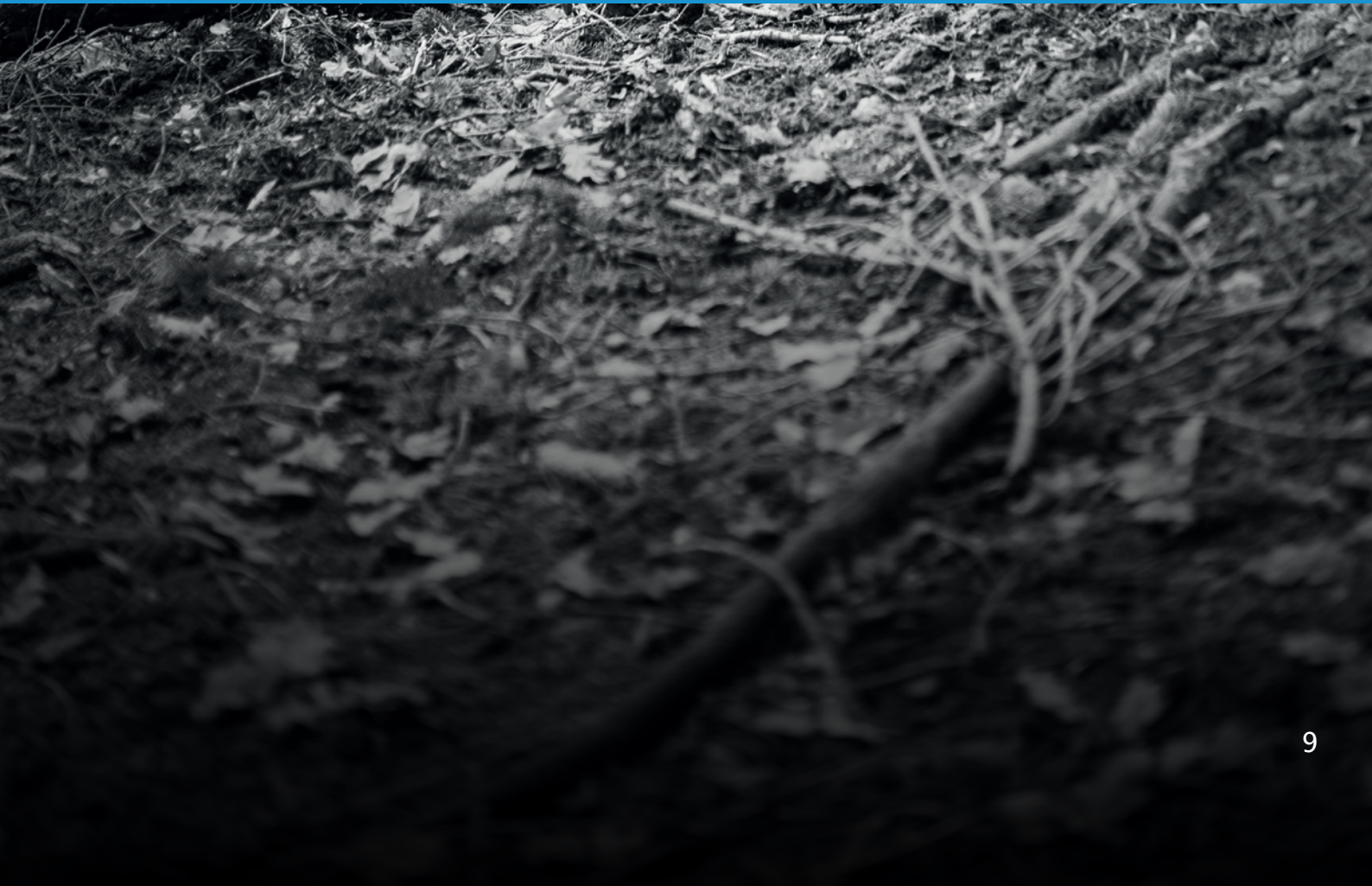
More models may be added, please check the latest availability



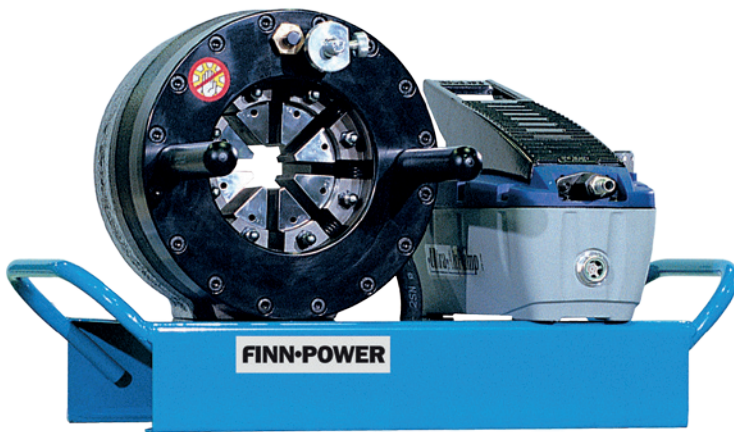
Smart and simple user interface



SERVICE



SERVICE COMPARISON



TECHNICAL DATA	P16HP	P16AP	P20AP	P20HP
Max crimping dia (mm) ¹⁾	45	45	61	61
Max crimping dia (inch) ¹⁾	1.77	1.77	2.40	2.40
Max crimping force (kN)	955	955	1370	1370
Max crimping force (tonnage)	95	95	137	137
Cycle time 10 mm (s) 1-phase ²⁾			10.3	
Cycle time 10 mm (s) 3-phase ²⁾			3.6	
Hose size ID (inch)	1" (4SH)	1" (4SH)	1½ (2SN) / 1¼ (4SP)	1½ (2SN) / 1¼ (4SP)
Die set series	16	16	20	20
Max opening (mm) ³⁾	+20	+20	+25	+25
Max opening without dies (mm)	59	59	109	109
Master die D/L (mm)	39/64	39/64	84/80	84/80
Master die D/L (inch)	1.54/2.52	1.54/2.52	3.31/3.15	3.31/3.15
Motor Power	Hand pump	Air pressure	Air pressure	Hand pump
DIMENSIONS (LxWxH)				
(mm)	331x401x271	331x346x271	583x477x345	487x441x389
(inch)	13.1x15.8x10.7	13.1x13.6x10.7	22.9x18.8x13.6	19.2x17.4x15.4
WEIGHT (KG/LBS)				
	26/57	28/62	59/130	66/146
TECHNICAL DATA	P20CS	P32CS	P20X	P32X
Max crimping dia (mm) ¹⁾	61	87	61	87
Max crimping dia (inch) ¹⁾	2.40	3.42	2.40	3.42
Max. crimping force (kN)	1370	2000	1370	2000
Max. crimping force (tonnage)	137	200	137	200
Cycle time 10 mm (s) ²⁾	13.9	21.1	7.0/13.9	8.7/21.1
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)	2" (4SH) / 1 ½"(6SH)	1½ (2SN) / 1¼ (4SP)	2 (4SH)
Die set series	20	32	20	32
Max. opening (mm) ³⁾	+25	+33	+25	+33
Max. opening without dies (mm)	109	132	109	132
Master die D/L (mm)	84/80	99/80	84/80	99/80
Master die D/L (inch)	3.31/3.15	3.90/3.15	3.31/3.15	3.90/3.15
Motor Power (kW) ³⁾	1.6/2.2	1.6/2.2	2.2/3.0	2.2/3.0 1.5/2.0
Motor Power (HP) ³⁾	2.1/3.0	2.1/3.0	1.5/2.0	1.5/2.0
Oil tank volume	5 l	5 l	7 l	7 l
DIMENSIONS (LxWxH)				
(mm)	583x533x387	626x543x421	525x515x564	632x521x567
(inch)	22.9x21.0x15.2	24.7x21.4x16.6	20.7x20.3x22.3	24.9x20.6x22.4
WEIGHT (KG/LBS)				
	68/183	125/257	100/243	155/331

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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

Manual

MODELS

Z-model



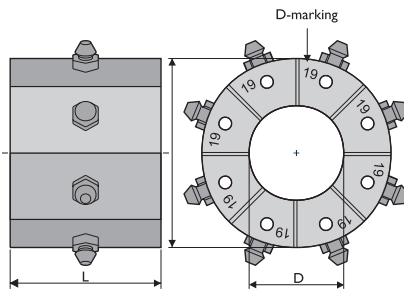
P16HP

PORTABILITY FOR SERVICE

Finn-Power P16HP is hand pump operated hydraulic crimping machine for repair workshops and field use. Easy to use, light and compact in size, allowing to be carried to any location. This hand-operated portable machine works even in places where electricity or compressed air are not available.

Available also with air pressure (AP-model) and separate head/power pack configuration (Z-model).

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	45
Max crimping dia (inch) ¹⁾	1.77
Max crimping force (kN)	955
Max crimping force (tonnage)	95
Hose size ID (inch)	1" (4SH)
Die set series	16
Max opening (mm) ²⁾	+20
Max opening without dies (mm)	59
Master die D/L (mm)	39/64
Master die D/L (inch)	1.54/2.52
Motor Power	Hand pump
DIMENSIONS (LxWxH)	
(mm)	331x401x271
(inch)	13.1x15.8x10.7
WEIGHT (KG/LBS)	
	26/57



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) 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.

DIE SET 16-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18212/10	10	55	10.0-12.0
18212/12	12	55	12.0-14.0
18212/14	14	55	14.0-16.0
18212/16	16	55	16.0-19.0
18212/19	19	55	19.0-23.0
18212/23	23	55	23.0-27.0
18212/27	27	65	27.0-31.0
18212/31	31	65	31.0-38.0

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

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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P16AP

PORTABILITY FOR SERVICE

Finn-Power P16AP is air pump operated hydraulic crimping machine for repair workshops and field use. Easy to use, light and compact in size, allowing to be carried to any location.

Available also with hand pump (HP-model) and separate head/power pack configuration (Z-model).



TECHNICAL DATA

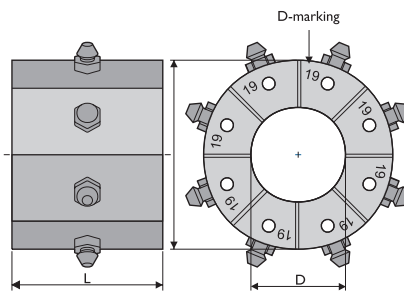
Max crimping dia (mm) ¹⁾	45
Max crimping dia (inch) ¹⁾	1.77
Max crimping force (kN)	955
Max crimping force (tonnage)	95
Hose size ID (inch)	1" (4SH)
Die set series	16
Max opening (mm) ²⁾	+20
Max opening without dies (mm)	59
Master die D/L (mm)	39/64
Master die D/L (inch)	1.54/2.52
Motor Power	Air pressure

DIMENSIONS (LxWxH)

(mm)	331x346x271
(inch)	13.1x13.6x15.4

WEIGHT (KG/LBS)

28/62



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) 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.

DIE SET 16-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18212/10	10	55	10.0-12.0
18212/12	12	55	12.0-14.0
18212/14	14	55	14.0-16.0
18212/16	16	55	16.0-19.0
18212/19	19	55	19.0-23.0
18212/23	23	55	23.0-27.0
18212/27	27	65	27.0-31.0
18212/31	31	65	31.0-38.0

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



P20HP

POWER FOR SERVICE CRIMPING

Finn-Power P20HP is hand pump operated hydraulic crimping machine for repair workshops and service van use. This hand-operated crimping machine works in places where electricity or compressed air are not available.

Available also with air pressure (AP-model).

CONTROL

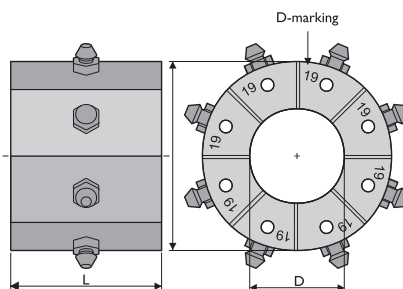
Manual

OPTIONS

QuickChange-tool
Mechanical back stop device



TECHNICAL DATA	
Max. crimping dia (mm) ¹⁾	61
Max. crimping dia (inch) ¹⁾	2.40
Max. crimping force (kN)	1370
Max. crimping force (tonnage)	137
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max. opening (mm) ²⁾	+25
Max. opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power	Hand pump
DIMENSIONS (LxWxH)	
(mm)	487x441x389
(inch)	19.2x17.4x15.4
WEIGHT (KG/LBS)	
	66/146



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) 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.

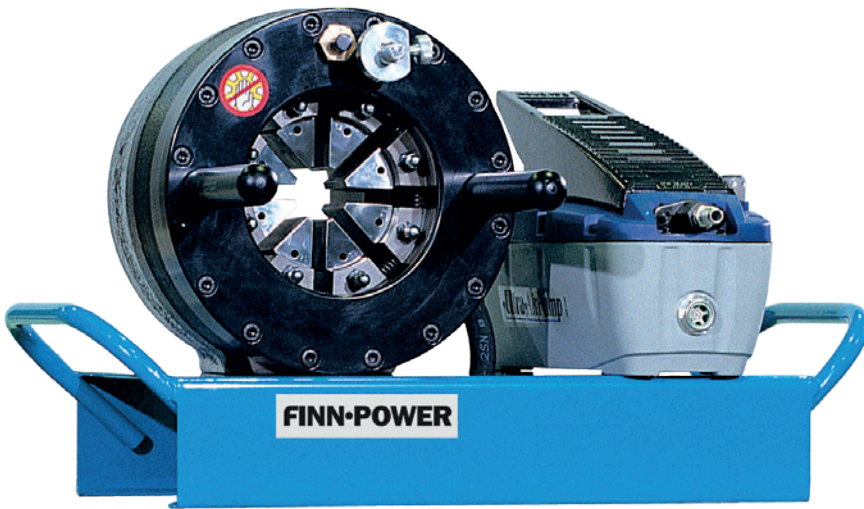
DIE SET 20-SERIES

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.

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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P20AP

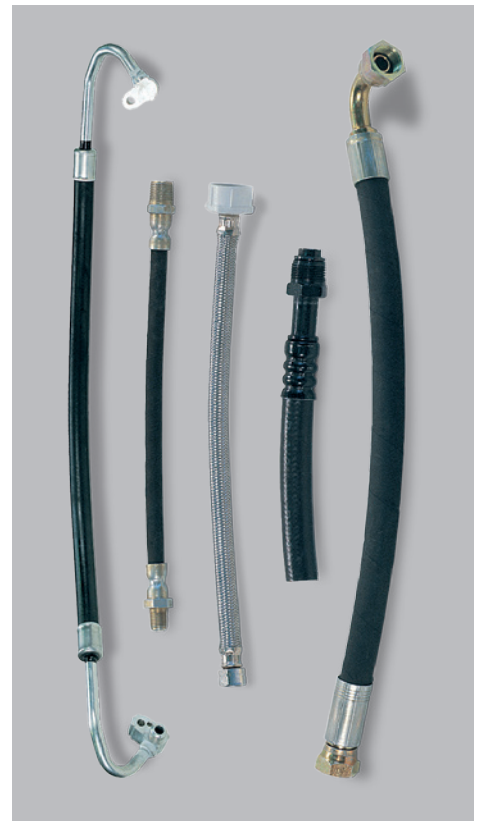
THE POWER IN SERVICE CRIMPING

Finn-Power P20AP is a compact air pressure operated model for repair and maintenance needs. Ideal for workshops or field service use.

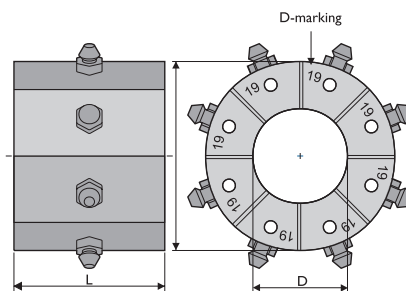
Easy crimping diameter adjustment and light indication for fast and reliable crimping results.

Please also see product cards for other power pack configurations.

CONTROL	
Manual	
OPTIONS	
QuickChange-tool	
Mechanical back stop device	



TECHNICAL DATA	
Max. crimping dia (mm) ¹⁾	61
Max. crimping dia (inch) ¹⁾	2.40
Max. crimping force (kN)	1370
Max. crimping force (tonnage)	137
Cycle time 10 mm (s) 1-phase ²⁾	10.3
Cycle time 10 mm (s) 3-phase ²⁾	3.6
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max. opening (mm) ³⁾	+25
Max. opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power	Air pressure
DIMENSIONS (LxWxH)	
(mm)	583x477x345
(inch)	22.9x18.8x13.6
WEIGHT (KG/LBS)	
	59/130



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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.

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.

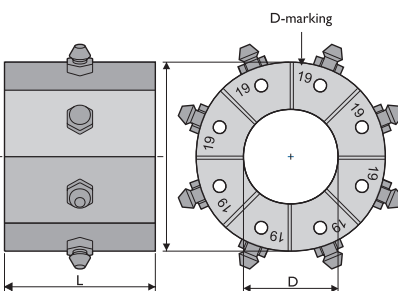


P20CS

CS-models have been designed for service van use. Also available as Zmodel with separate hydraulic unit for better weight balancing and space usage in service van. CS machines are battery powered with 12V or 24V crimping head on left as standard. Right versions available as option.



TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.40
Max. crimping force (kN)	1370
Max. crimping force (tonnage)	137
Cycle time 10 mm (s) ²⁾	13.9
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max. opening (mm) ³⁾	+25
Max. opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power (kW) ³⁾	1.6/2.2
Motor Power (HP) ³⁾	2.1/3.0
Oil tank volume	5 l
DIMENSIONS (LxWxH)	
(mm)	583x533x387
(inch)	22.9x21.0x15.2
WEIGHT (KG/LBS)	
	68/183



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 12V / 24V. Overload controlled

CONTROL
MS
MODELS
Standard CS left Standard CS right Z-model
OPTIONS
QuickChange-tool Mechanical back stop device

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.

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD



P32CS

CS-models have been designed for service van use. Also available as Z-model with separate hydraulic unit for better weight balancing and space usage in service van. CS machines are battery powered with 12V or 24V crimping head on left as standard. Right versions available as option.



CONTROL

MS

MODELS

Standard CS left
Standard CS right
Z-model

OPTIONS

QuickChange-tool
Mechanical back stop device

TECHNICAL DATA

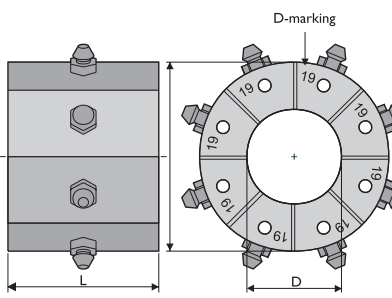
Max crimping dia (mm) ¹⁾	87
Max crimping dia (inch) ¹⁾	3.42
Max. crimping force (kN)	2000
Max. crimping force (tonnage)	200
Cycle time 10 mm ²⁾	21.1
Hose size ID (inch)	2" (4SH) / 1 1/2" (6SH)
Die set series	32
Max. opening (mm) ³⁾	+33
Max. opening without dies (mm)	132
Master die D/L (mm)	99/80
Master die D/L (inch)	3.90/3.15
Motor Power (kW) ³⁾	1.6/2.2
Motor Power (HP) ³⁾	2.1/3.0
Oil tank volume	5 l

DIMENSIONS (LxWxH)

(mm)	626x543x421
(inch)	24.7x21.4x16.6

WEIGHT (KG/LBS)

125/257



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 12V / 24V. Overload controlled

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



P20X

ELECTRIC CRIMPER FOR SERVICE

Entry level crimping machine for occasional service use and small workshops. For more demanding crimping needs please see P20NMS.

TECHNICAL DATA

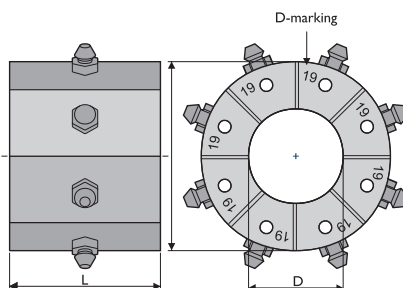
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.40
Max crimping force (kN)	1370
Max crimping force (tonnage)	137
Cycle time 10 mm (s) ^{2) 3)}	7.0/13.9
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max opening (mm) ⁴⁾	+25
Max opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power (kW/HP) ³⁾	2.2/3.0 1.5/2.0
Oil tank volume	7 l

DIMENSIONS (LxWxH)

(mm)	525x515x564
(inch)	20.7x20.3x22.3

WEIGHT (KG/LBS)

100/243



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 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

MS

OPTIONS

- Mechanical back stop device
- Tool base with QuickChange-tool
- Tool rack with QuickChange-tool



Tool base and Tool rack with QuickChange-tool as an option.

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.

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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P32X

ELECTRIC CRIMPER FOR SERVICE

Entry level crimping machine for occasional service use and small workshops. For more demanding crimping needs please see P32NMS.

TECHNICAL DATA

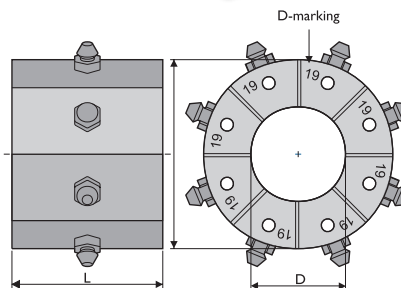
Max crimping dia (mm) ¹⁾	87
Max crimping dia (inch) ¹⁾	3.42
Max crimping force (kN)	2000
Max crimping force (tonnage)	200
Cycle time 10 mm (s) ^{2) 3)}	8.7/21.1
Hose size ID (inch)	2 (4SH)
Die set series	32
Max opening (mm) ⁴⁾	+33
Max opening without dies (mm)	132
Master die D/L (mm)	99/80
Master die D/L (inch)	3.90/3.15
Motor Power (kW/HP) ³⁾	2.2/3.0 1.5/2.0
Oil tank volume	7 l

DIMENSIONS (LxWxH)

(mm)	632x521x567
(inch)	24.9x20.6x22.4

WEIGHT (KG/LBS)

155/331



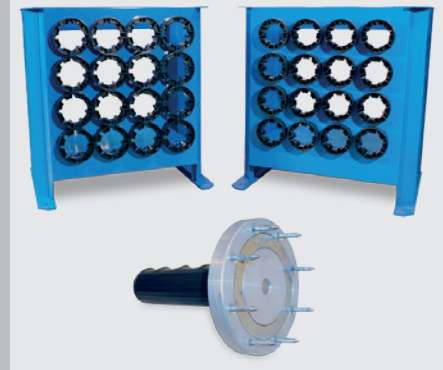
- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 4) Maximum opening is the total die travel. Add this value to the minimum crimping diameter of the die set used. The result is the maximum opening of the machine with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

CONTROL

MS

OPTIONS

- Mechanical back stop device
- Tool base with QuickChange-tool
- Tool rack with QuickChange-tool

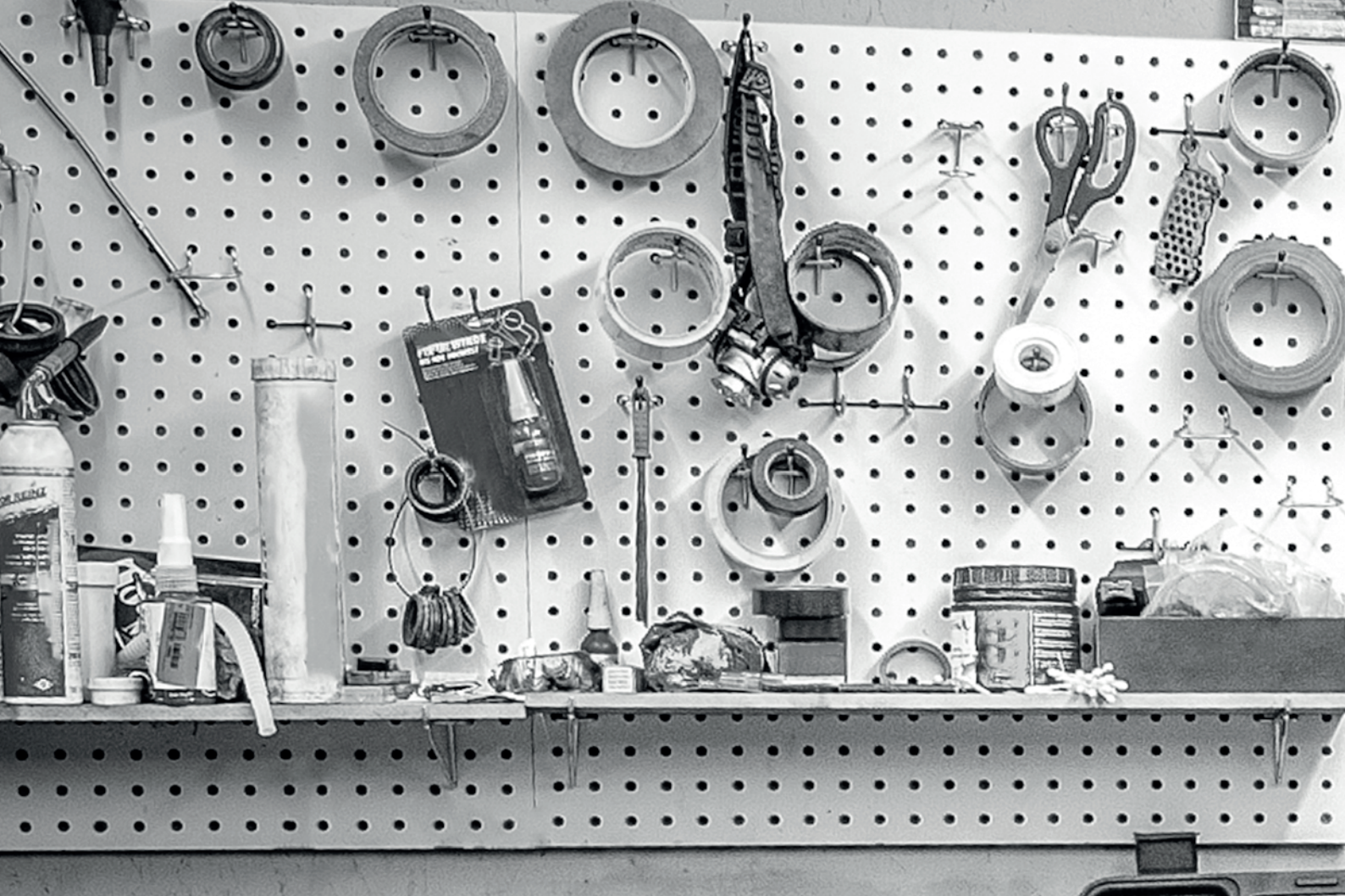


Tool base and Tool rack with QuickChange-tool as an option.

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



WORKSHOP



WORKSHOP COMPARISON



TECHNICAL DATA	20MS	P20NMS	32MS	P32NMS	P51	P60
Max crimping dia (mm) ¹⁾	61	61	10-87	87	124	124
Max crimping dia (inch) ¹⁾	2.40	2.40	0.39-3.42	3.42	4.88	4.88
Max crimping force (kN)	1370	1370	2000	2000	2800	2600
Max crimping force (tonnage)	137	137	200	200	280	260
Cycle time 10 mm (s) ²⁾³⁾	3.6/10.3	3.6/10.3	4.0/16.1	4.0/16.1	6.1	5.8
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)	1½ (2SN) / 1¼ (4SP)	2 (4SH)	2 (4SH)	2 ½ (2SN) / 4"	2 ½ (2SN) / 4"
Die set series	20	20	32	32	32/140	32/140
Max opening (mm) ⁴⁾	+25	+25	+33	+33	+46	+64
Max opening without dies (mm)	109	109	132	132	186	204
Master die D/L (mm)	84/80	84/80	99/80	99/80	140/120	140/120
Master die D/L (inch)	3.31/3.15	3.31/3.15	3.90/3.15	3.90/3.15	5.52-4.73	5.52-4.73
Motor Power (kW/HP) ³⁾	3.0/4.0 1.5/2.0	3.0/4.0 1.5/2.0	4.0/5.5 1.5/2.0	4.0/5.5 1.5/2.0	4 / 5.5	4 / 5.5
Oil tank volume	32 l	27 l	32 l	27 l	50 l	50 l
DIMENSIONS (LxWxH)						
(mm)	800x630x626	650x510x620	800x630x637	675x520x620	706x473x758	706x473x758
(inch)	31.5x24.8x24.7	25.6x20.1x24.4	31.5x24.8x25.1	26.6x20.4x24.4	27.8x18.7x29.9	27.8x18.7x29.9
WEIGHT (KG/LBS)						
157/346	157/346	145/309	205/452	190/419	260/573	265/584

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle
- 3) 3-phase
- 4) 1-phase/3-phase
- 5) 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.

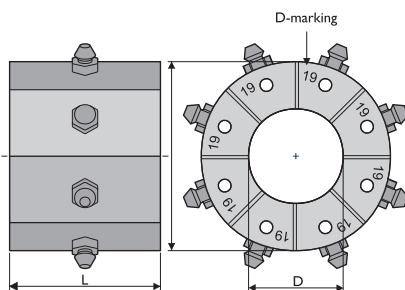


P20NMS

DESIGNED FOR THE TOUGHEST ENVIRONMENTS

Finn-Power P20NMS is strong, fast and reliable crimping machine for any service crimping need. This model turns hydraulics off to conserve energy, and to reduce workplace noise levels whenever the machine is idle.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.40
Max crimping force (kN)	1370
Max crimping force (tonnage)	137
Cycle time 10 mm (s) ²⁾³⁾	3.6/10.3
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max opening (mm) ⁴⁾	+25
Max opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power (kW/HP) ³⁾	3.0/4.0 1.5/2.0
Oil tank volume	27 l
DIMENSIONS (LxWxH)	
(mm)	650x510x620
(inch)	25.6x20.1x24.4
WEIGHT (KG/LBS)	
	145/309



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 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

MS

OPTIONS

- Foot pedal (factory installation only)
- Mechanical back stop device
- Tool base with QuickChange-tool
- Tool rack with QuickChange-tool



Foot pedal as an option (factory installation only).



Tool base and Tool rack with QuickChange-tool as an option.

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.

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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P32NMS

DESIGNED FOR THE TOUGHEST ENVIRONMENTS

Finn-Power P32NMS is strong, fast and reliable crimping machine for any service crimping need. This model turns hydraulics off to conserve energy, and to reduce workplace noise levels whenever the machine is idle.

TECHNICAL DATA

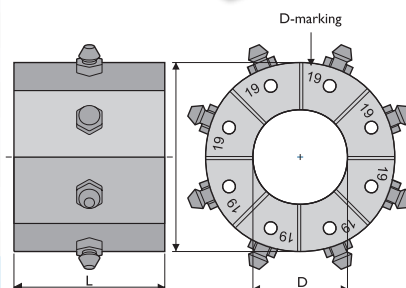
Max crimping dia (mm) ¹⁾	87
Max crimping dia (inch) ¹⁾	3.42
Max crimping force (kN)	2000
Max crimping force (tonnage)	200
Cycle time 10 mm (s) ^{2) 3)}	4.0/16.1
Hose size ID (inch)	2 (4SH)
Die set series	32
Max opening (mm) ⁴⁾	+33
Max opening without dies (mm)	132
Master die D/L (mm)	99/80
Master die D/L (inch)	3.90/3.15
Motor Power (kW/HP) ³⁾	4.0/5.5 1.5/2.0
Oil tank volume	27 l

DIMENSIONS (LxWxH)

(mm)	675x520x620
(inch)	26.6x20.4x24.4

WEIGHT (KG/LBS)

190/419



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 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

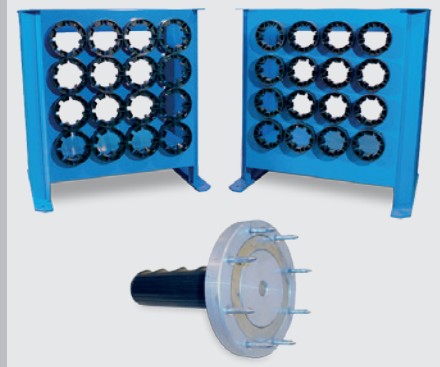
MS

OPTIONS

Foot pedal (factory installation only)
Mechanical back stop device
Tool base with QuickChange-tool
Tool rack with QuickChange-tool



Foot pedal as an option (factory installation only).



Tool base and Tool rack with QuickChange-tool as an option.

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



20MS

Finn-Power 20MS offers sophisticated design for modern workshops. Placement of operation buttons enables ergonomic working conditions for both front and back feeding.

Despite of modern design no compromises made in technical capabilities. With 137 ton crimping force machine is ideal for mid-size hydraulic hoses.

Available also with graphical UC control.

CONTROL

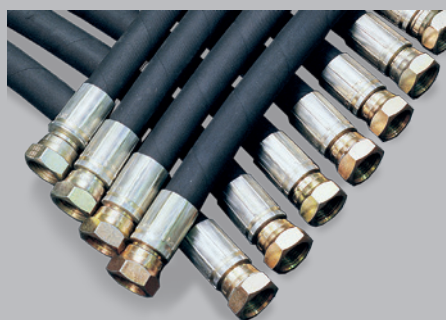
- MS
- UC

STANDARD FEATURES

- Electric backstop device (UC)
- Counter (UC)

OPTIONS

- QuickChange-tool
- Foot pedal
- Mechanical back stop device
- Tool base
- Tool rack



Tool base and Tool rack with QuickChange-tool as an option.

TECHNICAL DATA

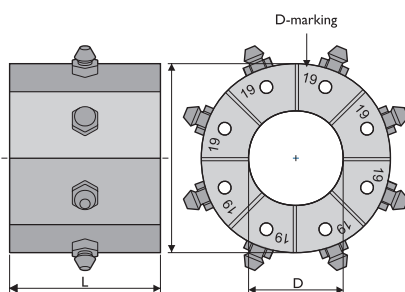
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.40
Max crimping force (kN)	1370
Max crimping force (tonnage)	137
Cycle time 10 mm (s) ²⁾³⁾	3.6/10.3
Hose size ID (inch)	1½ (2SN) / 1¼ (4SP)
Die set series	20
Max opening (mm) ⁴⁾	+25
Max opening without dies (mm)	109
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power (kW/HP) ³⁾	3.0/4.0 1.5/2.0
Oil tank volume	32 l

DIMENSIONS (LxWxH)

(mm)	800x630x626
(inch)	31.5x24.8x24.7

WEIGHT (KG/LBS)

157/346



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 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.

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.

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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32MS

Finn-Power 32MS offers sophisticated design for modern workshops. Placement of operation buttons enables ergonomic working conditions for both front and back feeding.

Despite of modern design no compromises made in technical capabilities. With 200 ton crimping force machine is ideal for most common hydraulic hoses.

Available also with graphical UC control.



TECHNICAL DATA

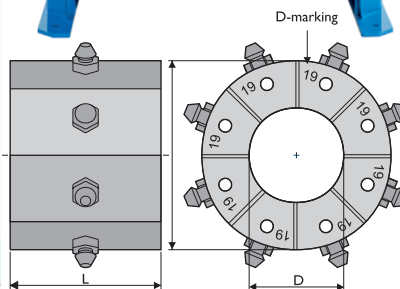
Crimping range (mm) ¹⁾	10-87
Crimping range (inch) ¹⁾	0.39-3.42
Max. crimping force (kN)	2000
Max. crimping force (tonnage)	200
Cycle time 10 mm (s) ^{2) 3)}	4.0/16.1
Hose size ID (inch)	2 (4SH)
Die set series	32
Max. opening (mm) ⁴⁾	+33
Max. opening without dies (mm)	132
Master die D/L (mm)	99/80
Master die D/L (inch)	3.90/3.15
Motor Power (kW/HP) ³⁾	4.0/5.5 1.5/2.0
Oil tank volume	32 l

DIMENSIONS (LxWxH)

(mm)	800x630x637
(inch)	31.5x24.8x25.1

WEIGHT (KG/LBS)

205/452



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 3-phase/1-phase
- 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

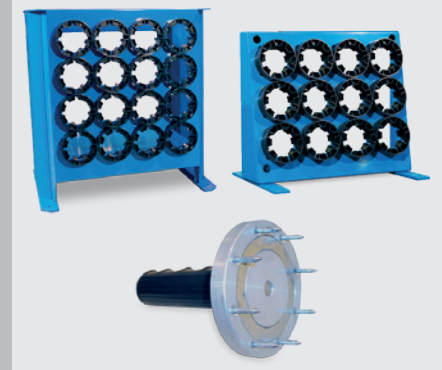
MS
UC

STANDARD FEATURES

Electric backstop device (UC)
Counter (UC)

OPTIONS

QuickChange-tool
Foot pedal
Mechanical back stop device
Tool base
Tool rack



Tool base and Tool rack with QuickChange-tool as an option.

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

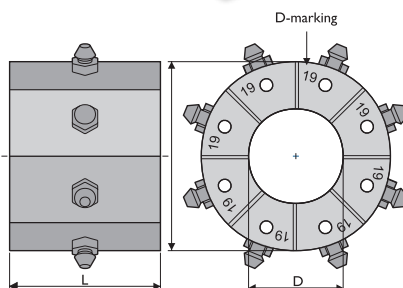


P51

POWERFUL TABLE TOP CRIMPER

Multi-purpose table top crimping machine for hydraulic and industrial hoses. Easy part positioning with fixed center point crimping head.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	124
Max crimping dia (inch) ¹⁾	4.88
Max crimping force (kN)	2800
Max crimping force (tonnage)	280
Cycle time 10 mm ²⁾	6.1
Hose size ID (inch)	2 ½ (2SN) / 4"
Die set series	32/140
Max opening (mm) ³⁾	+46
Max opening without dies (mm)	186
Master die D/L (mm)	140/120
Master die D/L (inch)	5.52-4.73
Motor Power (kW/HP)	4 / 5.5
Oil tank volume	50 l
DIMENSIONS (LxWxH)	
(mm)	706x473x758
(inch)	27.8x18.7x29.9
WEIGHT (KG/LBS)	
	260/573



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 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
MS
UC
STANDARD FEATURES
Adapter dies
Mechanical back stop device (MS)
Electric backstop (UC)
OPTIONS
Foot pedal
Mirror
Mechanical back stop device (UC)
Electric backstop (MS)
Tool Base
Die rack
QuickChange-tool
OPTIONS (UC)
Pressure crimping UC1
Step crimping UC2
Quality control UC3
A3 signal (cable not included)

DIE SET 140-SERIES			
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84	84	110	84.0-92.0
18860/92	92	110	92.0-100.0
18860/100	100	110	100.0-108.0
18860/108	108	110	108.0-116.0
18860/116	116	110	116.0-124.0

DIE SET 32-SERIES			
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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P60

LARGE OPENING

Upgraded version of P51 with bigger opening to crimp also the larger diameter camlock etc. fittings. Ideal machine for small to mid range industrial hoses.

TECHNICAL DATA

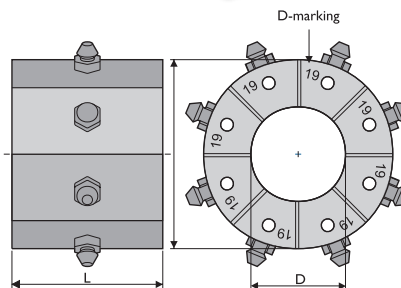
Max crimping dia (mm) ¹⁾	124
Max crimping dia (inch) ¹⁾	4.88
Max crimping force (kN)	2600
Max crimping force (tonnage)	260
Cycle time 10 mm ²⁾	5.8
Hose size ID (inch)	2 ½ (2SN) / 4"
Die set series	32/140
Max opening (mm) ³⁾	+64
Max opening without dies (mm)	204
Master die D/L (mm)	140/120
Master die D/L (inch)	5.52-4.73
Motor Power (kW/HP)	4 / 5.5
Oil tank volume	50 l

DIMENSIONS (LxWxH)

(mm)	706x473x758
(inch)	27.8x18.7x29.9

WEIGHT (KG/LBS)

265/584



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 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

MS
UC

STANDARD FEATURES

Adapter dies
Mechanical back stop device (MS)
Electric backstop (UC)

OPTIONS

Foot pedal
Mirror
Mechanical back stop device (UC)
Electric backstop (MS)
Tool Base
Die rack
QuickChange-tool

OPTIONS (UC)

Pressure crimping UC1
Step crimping UC2
Quality control UC3
A3 signal (cable not included)

DIE SET 140-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84	84	110	84.0-92.0
18860/92	92	110	92.0-100.0
18860/100	100	110	100.0-108.0
18860/108	108	110	108.0-116.0
18860/116	116	110	116.0-124.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



PRODUCTION



PRODUCTION COMPARISON



TECHNICAL DATA	FP20	FP120	FP140	FP145	FP160	FP165	FP170	FP175
Max crimping dia (mm) ¹⁾	61	87	124	124	202	202	320	320
Max crimping dia (inch) ¹⁾	2.67	3.42	4.88	4.88	7.95	7.95	12.60	12.60
Max. crimping force (kN)	1500	2800	3200	3500	3500	5000	6600	8300
Max. crimping force (tonnage)	150	280	320	350	350	500	660	830
Cycle time 10 mm (s) ²⁾	1.9 (S-model: 1.4)	1.8 (S-model: 1.6)	2.3	2.5	2.3 (S-model: 1.8)	3.6 (S-model: 2.7)	3.1	3.2
Hose size ID (inch)	1 1/2 (4SH)	2 (4SH)	2 1/2 (4SH) / 4	2 1/2 (4SH) 2 (6SH) / 4	6	6	10	10
Die set series ³⁾	20	32	32/140	32/140/145	32/160	32/160	32/160/170	32/160/170
Max. opening (mm) ⁴⁾	+68	+68	+82	+82	+125	+125	+155	+155
Max. opening without dies (mm)	152	167	222	222	345	345	475	475
Master die D/L (mm)	84/97	99/97	140/97	140/116	220/116	220/116	320/220	320/220
Master die D/L (inch)	3.90/3.82	3.90/3.82	5.52/4.82	5.52/4.57	8.66/4.57	8.66/4.57	12.60/8.66	12.60/8.66
Motor Power (kW/HP)	3.0/4.0	6.5/8.8	6.5/8.8	6.5/8.8	6.5/8.8	6.5/8.8	7.5/10	11/15
Oil tank volume	135 l	135 l	135 l	135 l	135 l	135 l	250 l	250 l
DIMENSIONS (LxWxH)								
Machine (mm)	1112x713x1475	881X664X1561	881x664x1561	881x683x1561	940x860x1784	1060x860x1825	1200x936x2220	1200x936x2220
Hydraulic Unit (mm)		782X751X1063	782x751x1063	782x751x1063	713x705x1060	713x705x1060	1195x705x1411	1195x705x1411
Machine (inch)	43.7x28.0x58.1	34.7X26.1X61.5	34.7x26.1x61.5	34.7x26.9x61.5	37x33.9x70.2	41.7x33.9x71.9	47.3x36.9x81.9	47.3x36.9x81.9
Hydraulic Unit (inch)		30.8X29.6X41.9	30.8x29.6x41.9	30.8x29.6x41.9	28x27.8x41.7	28x27.8x41.7	47.0x27.8x44.9	47.0x27.8x44.9
WEIGHT (KG/LBS)								
Machine		875/1925	905/1991	1053/2317	2020/4444	2480/5412	4400/9669	4455/9801
Hydraulic Unit		220/484	220/484	220/484	182/407	182/407	265/671	305/671
Compact setup	654/1439	1060/2332						

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.



FP20

SPEED, PRECISION AND QUALITY

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

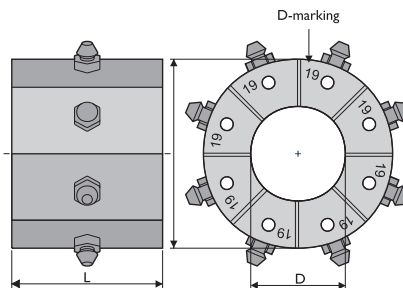
FP20 is the powerful little brother of our famous FP120. It's ideal for high volume production up to 1 1/2" 4-wire hydraulic hoses. It supplied with built-in die storage and Quick Change-tool as standard.

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

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.67
Max. crimping force (kN)	1500
Max. crimping force (tonnage)	150
Cycle time 10 mm (s) ²⁾	1.9 (S-model: 1.4)
Hose size ID (inch)	1 1/2 (4SH)
Die set series ³⁾	20
Max. opening (mm) ⁴⁾	+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)	
(mm)	1112x713x1475
(inch)	43.7x28.0x58.1
WEIGHT (KG/LBS)	
	654/1439



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 (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror

OPTIONS

Foot pedal
Mechanical back stop device
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Oil cooler **
Combi unit (crimping and hydraulic unit combined)
Pinning support mandrel

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

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0

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



Electric backstop device as a standard feature.



Bar code reader as an option.

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.

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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FP120

NEW FINN-POWER FP120, THE LEGEND IS REBORN

New FP120 is compact and easy to use, designed to handle the highest production volumes.

Unbeaten in terms of speed, precision, durability and quality. Depending on available space, or the space need behind the machine, the hydraulic and crimping unit can be separated or combined.



TECHNICAL DATA

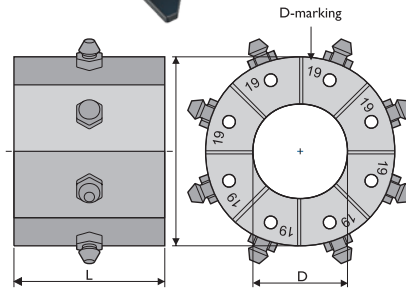
Max crimping dia (mm) ¹⁾	87
Max crimping dia (inch) ¹⁾	3.42
Max. crimping force (kN)	2800
Max. crimping force (tonnage)	280
Cycle time 10 mm (s) ²⁾	1.8 (S-model: 1.6)
Hose size ID (inch)	2 (4SH)
Die set series ³⁾	32
Max. opening (mm) ⁴⁾	+68
Max. opening without dies (mm)	167
Master die D/L (mm)	99/97
Master die D/L (inch)	3.90/3.82
Motor Power (kW/HP)	6.5/8.8
Oil tank volume	135 l

DIMENSIONS (LxWxH)

Machine (mm)	881X664X1561
Hydraulic Unit (mm)	782X751X1063
Machine (inch)	34.7X26.1X61.5
Hydraulic Unit (inch)	30.8X29.6X41.9

WEIGHT (KG/LBS)

Machine	875/1925
Hydraulic Unit	220/484
Compact setup	1060/2332



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) Hydraulic hose / industrial hose
- 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
ICC (12" touchscreen) or
SCC (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror
Die racks

OPTIONS

Foot pedal
Front table
Quality die rack
Fitting storage
Mechanical back stop device
Auto greasing G3
Oil cooler **
Combi unit (crimping and hydraulic unit combined)
Pinning support mandrel
Horizontal Back layout HB
Horizontal Side layout HS
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0
Camera (requires 12" display)
Safety Scanner
** Will have impact on motor size, hydraulic unit dimensions and weight.

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

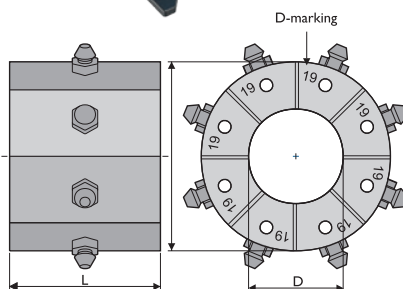


FP140

POWERFUL BUT VERSATILE

Big brother of the famous FP120 with more force, bigger opening and larger dies. The 140-series die system with adaptor dies makes an excellent choice for large, medium and even small size fittings. Great machine also for medium range industrial hoses.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	124
Max crimping dia (inch) ¹⁾	4.88
Max. crimping force (kN)	3200
Max. crimping force (tonnage)	320
Cycle time 10 mm (s) ²⁾	2.3
Hose size ID (inch)	2 ½ (4SH) / 4 ³⁾
Die set series	32 ⁴⁾ /140
Max. opening (mm) ⁵⁾	+82
Max. opening without dies (mm)	222
Master die D/L (mm)	140/97
Master die D/L (inch)	5.52/4.82
Motor Power (kW/HP)	6.5/8.8
Oil tank volume	135 l
DIMENSIONS (LxWxH)	
Machine (mm)	881x664x1561
Hydraulic Unit (mm)	782x751x1063
Machine (inch)	34.7x26.1x61.5
Hydraulic Unit (inch)	30.8x29.6x41.9
WEIGHT (KG/LBS)	
Machine	905/1991
Hydraulic Unit	220/484



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) Hydraulic hose / industrial hose
- 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
ICC (12" touchscreen) or
SCC (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror
Die racks

OPTIONS

Foot pedal
Front table
Quality die rack
Fitting storage
Mechanical back stop device
Auto greasing G3
Oil cooler **
Combi unit (crimping and hydraulic unit combined)
Pinning support mandrel
Horizontal Back layout HB
Horizontal Side layout HS
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0
Camera (requires 12" display)
Safety Scanner
** Will have impact on motor size, hydraulic unit dimensions and weight.

DIE SET 140-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84	84	110	84.0-92.0
18860/92	92	110	92.0-100.0
18860/100	100	110	100.0-108.0
18860/108	108	110	108.0-116.0
18860/116	116	110	116.0-124.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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FP145

Big brother of the famous FP120 with more force, bigger opening and larger dies.

The 140-series die system with adaptor dies makes an excellent choice for large, medium and even small size fittings.

FP145 is an ideal machine for 2" 6-wire hoses and also for medium range industrial hoses.

TECHNICAL DATA

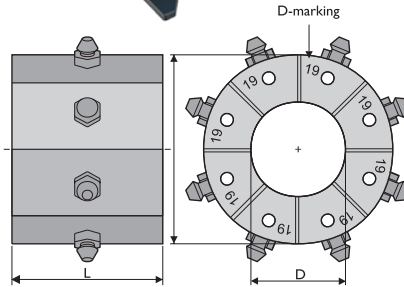
Max crimping dia (mm) ¹⁾	124
Max crimping dia (inch) ¹⁾	4.88
Max. crimping force (kN)	3500
Max. crimping force (tonnage)	350
Cycle time 10 mm (s) ²⁾	2.5
Hose size ID (inch)	2 ½ (4SH) 2 (6SH) / 4 ³⁾
Die set series	32/140/145
Max. opening (mm) ⁴⁾	+82
Max. opening without dies (mm)	222
Master die D/L (mm)	140/116
Master die D/L (inch)	5.52/4.57
Motor Power (kW/HP)	6.5/8.8
Oil tank volume	135 l

DIMENSIONS (LxWxH)

Machine (mm)	881x683x1561
Hydraulic Unit (mm)	782x751x1063
Machine (inch)	34.7x26.9x61.5
Hydraulic Unit (inch)	30.8x29.6x41.9

WEIGHT (KG/LBS)

Machine	1053/2317
Hydraulic Unit	220/484



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) Hydraulic hose / industrial hose
- 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
ICC (12" touchscreen) or
SCC (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror
Die racks

OPTIONS

Foot pedal
Front table
Quality die rack
Fitting storage
Mechanical back stop device
Auto greasing G3
Oil cooler **
Combi unit (crimping and hydraulic unit combined)
Pinning support mandrel
Horizontal Back layout HB
Horizontal Side layout HS
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0
Camera (requires 12" display)
Safety Scanner
** Will have impact on motor size, hydraulic unit dimensions and weight.

DIE SET 140-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84	84	110	84.0-92.0
18860/92	92	110	92.0-100.0
18860/100	100	110	100.0-108.0
18860/108	108	110	108.0-116.0
18860/116	116	110	116.0-124.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

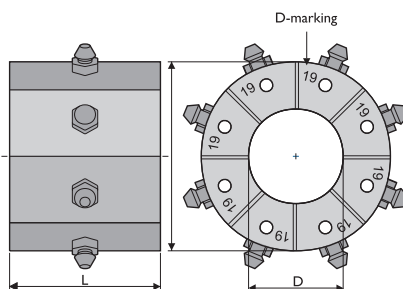


FP160

POWERFUL BUT VERSATILE

FP160 is a versatile crimping machine in our production category. It is optimal for hoses with bigger flanges and fittings supplied with in-built die set storage.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	202
Max crimping dia (inch) ¹⁾	7.95
Max. crimping force (kN)	3500
Max. crimping force (tonnage)	350
Cycle time 10 mm (s) ²⁾	2.3 (S-model: 1.8)
Hose size ID (inch)	6
Die set series	32/160
Max. opening (mm) ³⁾	+125
Max. opening without dies (mm)	345
Master die D/L (mm)	220/116
Master die D/L (inch)	8.66/4.57
Motor Power (kW/HP)	6.5/8.8
Oil tank volume	135 l
DIMENSIONS (LxWxH)	
Machine (mm)	940x860x1784
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	37x33.9x70.2
Hydraulic Unit (inch)	28x27.8x41.7
WEIGHT (KG/LBS)	
Machine	2020/4444
Hydraulic Unit	182/407



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) Hydraulic hose / industrial hose
- 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.

* Picture includes additional options.

CONTROL

ICC (7" touchscreen) or
ICC (12" touchscreen) or
SCC (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror
Adapter dies for 32-series dies
Foot pedal

OPTIONS

Mechanical back stop device
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Oil cooler **
Pinning support mandrel
Horizontal Back layout HB
Horizontal Side layout HS
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0
Camera (requires 12" display)
Safety Scanner
** Will have impact on motor size, hydraulic unit dimensions and weight.

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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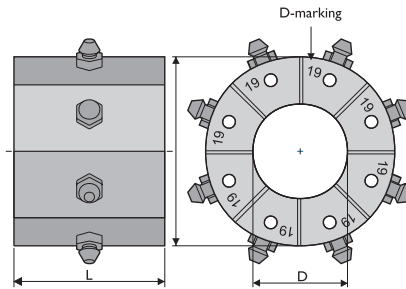
FP165

POWERFUL PARTNER

FP165 is more powerful version of FP160. You can manage all hydraulic hoses and ideal also for medium range industrial hoses with flanges and large fittings.

TECHNICAL DATA

Max crimping dia (mm) ¹⁾	202
Max crimping dia (inch) ¹⁾	7.95
Max. crimping force (kN)	5000
Max. crimping force (tonnage)	500
Cycle time 10 mm (s) ²⁾	3.6 (S-model: 2.7)
Hose size ID (inch)	6
Die set series	32/160
Max. opening (mm) ⁵⁾	+125
Max. opening without dies (mm)	345
Master die D/L (mm)	220/116
Master die D/L (inch)	8.66/4.57
Motor Power (kW/HP)	6.5/8.8
Oil tank volume	135 l
DIMENSIONS (LxWxH)	
Machine (mm)	1060x860x1825
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	41.7x33.9x71.9
Hydraulic Unit (inch)	28x27.8x41.7
WEIGHT (KG/LBS)	
Machine	2480/5412
Hydraulic Unit	182/407



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) Hydraulic hose / industrial hose
- 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.

* Picture includes additional options.

CONTROL

ICC (7" touchscreen) or
ICC (12" touchscreen) or
SCC (3,5" display + control wheel)

STANDARD FEATURES

QuickChange-tool
Electric backstop device
Mirror
Adapter dies for 32-series dies
Foot pedal

OPTIONS

Mechanical back stop device
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Oil cooler **
Pinning support mandrel
Horizontal Back layout HB
Horizontal Side layout HS

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

OPTIONS (ICC)

Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Bar Code Reader BCR
Speed adjustment **
Oil Condition Monitoring OCM
Industry 4.0
Camera (requires 12" display)
Safety Scanner

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

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



CONTROL
ICC (7" touchscreen)
STANDARD FEATURES
Electric backstop device Foot pedal Adapter dies for FP160-series
OPTIONS
QuickChange-tool Mechanical back stop device Remote control unit Pressure crimping ICC1 Step crimping ICC2 Quality control ICC3 Graphical quality control ICC4 Interface pack ETH (Communication TCP/IP & UDP) Bar Code Reader BCR Speed adjustment ** Auto greasing G3 Oil cooler Oil Condition Monitor OCM Industry 4.0 Pinning support mandrel ICC 12" display Camera (requires 12" display) Safety scanner Horizontal Back layout HB Horizontal Side layout HS Safety Scanner ** Will have impact on motor size, hydraulic unit dimensions and weight.

FP170

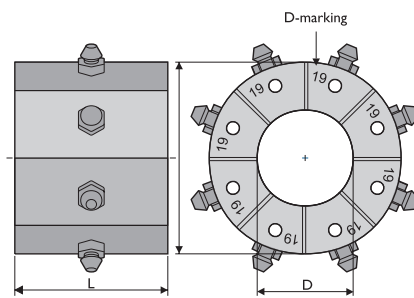
STRONG WITH WIDE OPENING

FP170 machine is primarily designed for crimping large fittings and applications requiring large opening. FP170 is widely used in tube and pipe industry as well as electric insulators and several automotive applications. FP170 with extra long master dies provides long forming with single stroke.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	320
Max crimping dia (inch) ¹⁾	12.60
Max. crimping force (kN)	6600
Max. crimping force (tonnage)	660
Cycle time 10 mm (s) ²⁾	3.1
Hose size ID (inch)	10
Die set series	32 ³⁾ / 160 ³⁾ / 170
Max. opening (mm) ⁴⁾	+155
Max. opening without dies (mm)	475
Master die D/L (mm)	320/220
Master die D/L (inch)	12.60/8.66
Motor Power (kW/HP)	7.5/10
Oil tank volume	250 l
DIMENSIONS (LxWxH)	
Machine (mm)	1200x936x2220
Hydraulic Unit (mm)	1195x705x1411
Machine (inch)	47.3x36.9x81.9
Hydraulic Unit (inch)	47.0x27.8x44.9
WEIGHT (KG/LBS)	
Machine	4400/9669
Hydraulic Unit	265/671



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 10 mm cycle.
- 3) With adapter dies
- 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.

DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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FP175

STRONG WITH WIDE OPENING

FP175 is the flagship of the FP-series with 830 tons force and 12" crimping diameter. It is suitable for wide range of applications requiring large capacity in force and diameter. FP175 with extra long master dies provides long forming with single stroke especially in tube and pipe applications.

TECHNICAL DATA

Max crimping dia (mm) ¹⁾	320
Max crimping dia (inch) ¹⁾	12.60
Max. crimping force (kN)	8300
Max. crimping force (tonnage)	830
Cycle time 10 mm (s) ²⁾	3.2
Hose size ID (inch)	10
Die set series	32 ³⁾ / 160 ³⁾ / 170
Max. opening (mm) ⁴⁾	+155
Max. opening without dies (mm)	475
Master die D/L (mm)	320/220
Master die D/L (inch)	12.60/8.66
Motor Power (kW/HP)	11/15
Oil tank volume	250 l

DIMENSIONS (LxWxH)

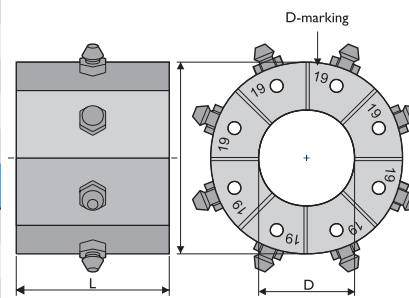
Machine (mm)	1200x936x2220
Hydraulic Unit (mm)	1195x705x1411
Machine (inch)	47.3x36.9x81.9
Hydraulic Unit (inch)	47.0x27.8x44.9

WEIGHT (KG/LBS)

Machine	4455/9801
Hydraulic Unit	305/671



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 10 mm cycle.
- 3) With adapter dies
- 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)

STANDARD FEATURES

Electric backstop device
Foot pedal
Adapter dies for FP160-series

OPTIONS

QuickChange-tool
Mechanical back stop device
Remote control unit
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR
Speed adjustment **
Auto greasing G3
Oil cooler
Oil Condition Monitor OCM
Industry 4.0
Pinning support mandrel
ICC 12" display
Camera (requires 12" display)
Safety scanner
Horizontal Back layout HB
Horizontal Side layout HS
Safety Scanner

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

DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

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



HEAVY DUTY



HEAVY DUTY COMPARISON



TECHNICAL DATA	KC800	KC1200	KC2000
Max crimping dia (mm) ¹⁾	200-650	200-650	200-650
Max crimping dia (inch) ¹⁾	7.87-25.60	7.87-25.60	7.87-25.60
Max. crimping force (kN)	8 000	12 000	20 000
Max. crimping force (tonnage)	800	1200	2 000
Cycle time 10 mm (s) ²⁾	3.2	5.2	7.7
Hose size ID (inch)	16	16	16
Die set series ³⁾	160/170	160/170	160/170
Max. opening (mm) ⁴⁾	+180	+180	+180
Max. opening without dies (mm)	820	820	820
Master die D/L (mm)	640/300	640/300	640/300
Master die D/L (inch)	25.20/11.8	25.20/11.8	25.20/11.8
Motor Power (kW/HP)	11/15	11/15	11/15
Oil tank volume	250 l	250 l	250 l
DIMENSIONS (LxWxH)			
Machine (mm)	2825x1345x2040	3015x1345x2291	3380x1345x2361
Hydraulic Unit (mm)	1195x705x1411	1195x705x1411	1195x705x1411
Machine (inch)	111.2x53.0x80.3	118.7x53.0x90.2	113.0x52.9x92.9
Hydraulic Unit (inch)	47.0x27.8x44.9	47.0x27.8x44.9	47.0x27.8x44.9
WEIGHT (KG/LBS)			
Machine	9 680/22046	12 000/27 116	15 500/32628
Hydraulic Unit	305/772	305/772	305/772
Compact setup			

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.



KING CRIMPER 800

THE KING OF CRIMPERS

The King Crimper's extremely large opening and enormous crimping force coupled with the world's most advanced crimping control means there are literally no limitations to what it can crimp. The King Crimper's robust frame design ensures consistent repeatability. The ICC Control on a swing arm and remote control device allows the operator to crimp hard to crimp objects and while keeping them safe and in control of the process. The primary markets for 'the King' are oil & gas and transportation for crimping pipes, tubes and fittings.

CONTROL

ICC (12" touchscreen)

STANDARD FEATURES

- Foot pedal
- Adapter dies (for 170-series die sets)
- Auto greasing G3
- Remote control unit
- Pressure crimping ICC1
- Step crimping ICC2
- Quality control ICC3
- Graphical quality control ICC4
- Interface pack ETH (Communication TCP/IP & UDP)
- Camera
- Bar Code Reader BCR

OPTIONS

- Oil Condition Monitor OCM
- Safety scanner
- Adapter dies (for 160-series die sets)
- Oil cooler



Camera as a standard feature.

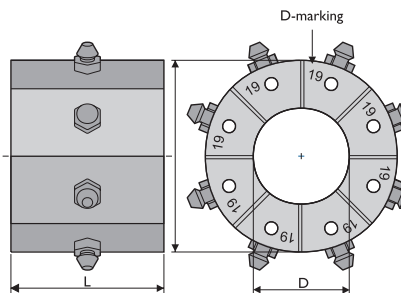


TECHNICAL DATA

Crimping range (mm) ¹⁾	200-650
Crimping range (inch) ¹⁾	7.87-25.60
Max. crimping force (kN)	8 000
Max. crimping force (tonnage)	800
Cycle time 10 mm (s) ²⁾	3.2
Hose size ID (inch)	16
Die set series ³⁾	160 ⁴⁾ / 170
Max. opening (mm) ⁴⁾	+180
Max. opening without dies (mm)	820
Master die D/L (mm)	640/300
Master die D/L (inch)	25.20/11.8
Motor Power (kW/HP)	11/15
Oil tank volume	250 l



Remote control unit as a standard feature.



- 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.

DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

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

DIMENSIONS (LxWxH)

Machine (mm)	2825x1345x2040
Hydraulic Unit (mm)	1195x705x1411
Machine (inch)	111.2x53.0x80.3
Hydraulic Unit (inch)	47.0x27.8x44.9

WEIGHT (KG/LBS)

Machine	9 680/22046
Hydraulic Unit	305/772

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD



KING CRIMPER 1200

THE KING OF CRIMPERS

The King Crimper's extremely large opening and enormous crimping force coupled with the world's most advanced crimping control means there are literally no limitations to what it can crimp. The King Crimper's robust frame design ensures consistent repeatability. The ICC Control on a swing arm and remote control device allows the operator to crimp hard to crimp objects and while keeping them safe and in control of the process. The primary markets for 'the King' are oil & gas and transportation for crimping pipes, tubes and fittings.

TECHNICAL DATA

Crimping range (mm) ¹⁾	200-650
Crimping range (inch) ¹⁾	7.87-25.60
Max. crimping force (kN)	12 000
Max. crimping force (tonnage)	1200
Cycle time 10 mm (s) ²⁾	5.2
Hose size ID (inch)	16
Die set series ³⁾	160 ⁵⁾ / 170
Max. opening (mm) ⁵⁾	+180
Max. opening without dies (mm)	820
Master die D/L (mm)	640/300
Master die D/L (inch)	25.20/11.8
Motor Power (kW/HP)	11/15
Oil tank volume	250 l

DIMENSIONS (LxWxH)

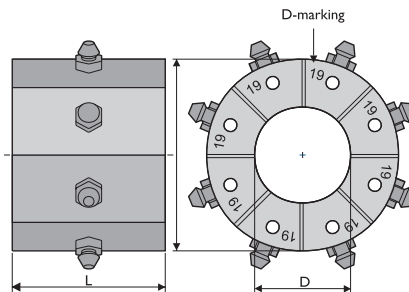
Machine (mm)	3015x1345x2291
Hydraulic Unit (mm)	1195x705x1411
Machine (inch)	118.7x53.0x90.2
Hydraulic Unit (inch)	47.0x27.8x44.9

WEIGHT (KG/LBS)

Machine	12 000/27 116
Hydraulic Unit	305/772



Remote control unit as a standard feature.



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm 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.
- 5) With adapter dies.

CONTROL

ICC (12" touchscreen)

STANDARD FEATURES

- Foot pedal
- Adapter dies (for 170-series die sets)
- Auto greasing G3
- Remote control unit
- Pressure crimping ICC1
- Step crimping ICC2
- Quality control ICC3
- Graphical quality control ICC4
- Interface pack ETH (Communication TCP/IP & UDP)
- Camera
- Bar Code Reader BCR

OPTIONS

- Oil Condition Monitor OCM
- Safety scanner
- Adapter dies (for 160-series die sets)
- Oil cooler



Camera as a standard feature.



DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

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



KING CRIMPER 2000

THE KING OF CRIMPERS

The King Crimper's extremely large opening and enormous crimping force coupled with the world's most advanced crimping control means there are literally no limitations to what it can crimp. The King Crimper's robust frame design ensures consistent repeatability. The ICC Control on a swing arm and remote control device allows the operator to crimp hard to crimp objects and while keeping them safe and in control of the process. The primary markets for 'the King' are oil & gas and transportation for crimping pipes, tubes and fittings.

CONTROL

ICC (12" touchscreen)

STANDARD FEATURES

- Foot pedal
- Adapter dies (for 170-series die sets)
- Auto greasing G3
- Remote control unit
- Pressure crimping ICC1
- Step crimping ICC2
- Quality control ICC3
- Graphical quality control ICC4
- Interface pack ETH (Communication TCP/IP & UDP)
- Camera
- Bar Code Reader BCR

OPTIONS

- Oil Condition Monitor OCM
- Safety scanner
- Adapter dies (for 160-series die sets)
- Oil cooler



Camera as a standard feature.



TECHNICAL DATA

Crimping range (mm) ¹⁾	200-650
Crimping range (inch) ¹⁾	7.87-25.60
Max. crimping force (kN)	20 000
Max. crimping force (tonnage)	2 000
Cycle time 10 mm (s) ²⁾	7.7
Hose size ID (inch)	16
Die set series ³⁾	160 ⁵⁾ / 170
Max. opening (mm) ⁴⁾	+180
Max. opening without dies (mm)	820
Master die D/L (mm)	640/300
Master die D/L (inch)	25.20/11.8
Motor Power (kW/HP)	11/15
Oil tank volume	250 l

DIMENSIONS (LxWxH)

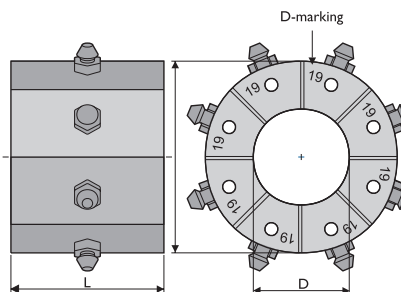
Machine (mm)	3380x1345x2361
Hydraulic Unit (mm)	1195x705x1411
Machine (inch)	113.0x52.9x92.9
Hydraulic Unit (inch)	47.0x27.8x44.9

WEIGHT (KG/LBS)

Machine	15 500/32628
Hydraulic Unit	305/772



Remote control unit as a standard feature.



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm 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.
- 5) With adapter dies.

DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

DIE SET 160-SERIES

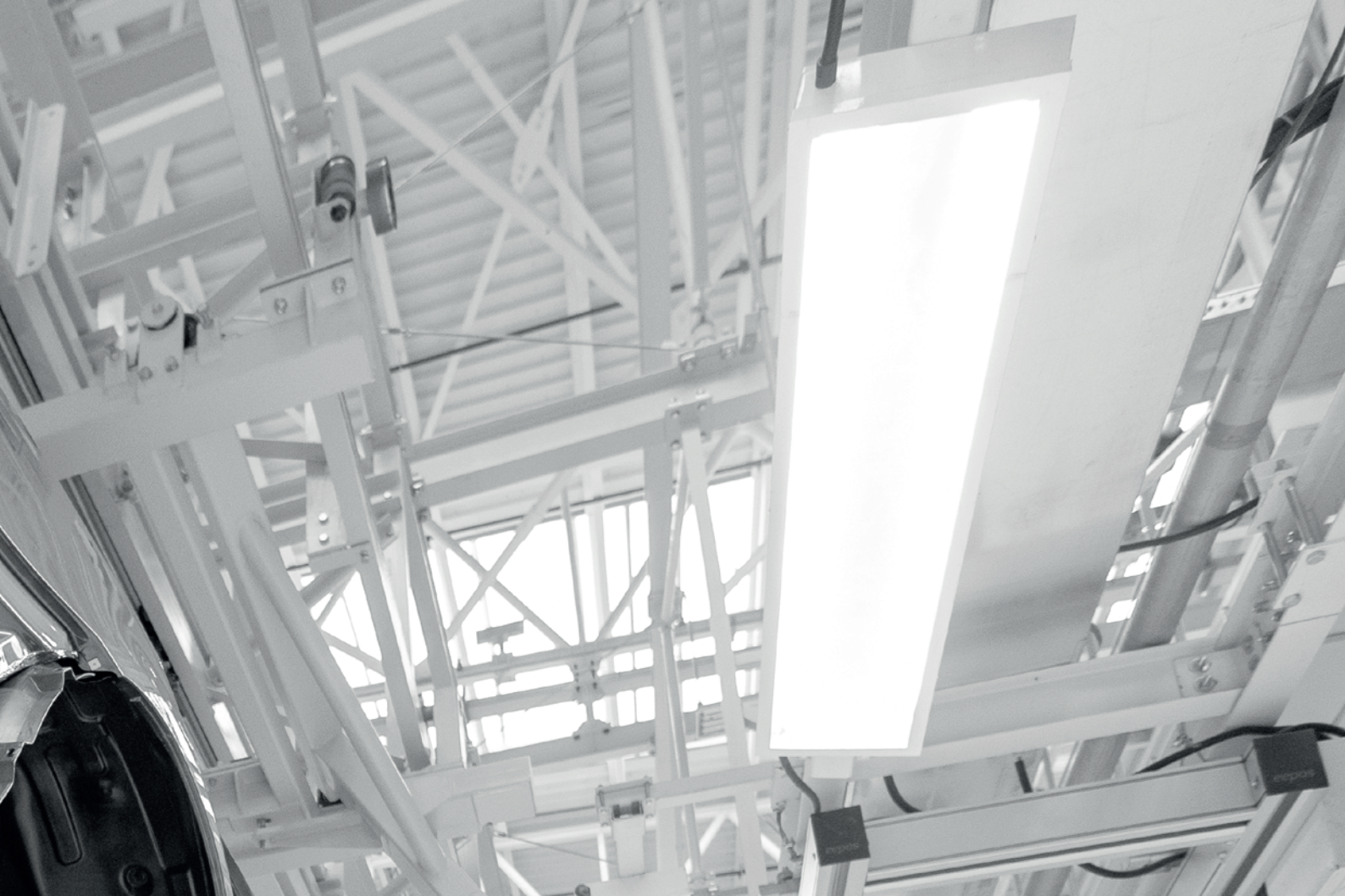
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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SIDE FEED



SIDE FEED COMPARISON



TECHNICAL DATA	SP100	SP350	SP1200	SP2000	SP5000
Crimping range (mm) ¹⁾	10-46	10-54	10-54	10-54	10-210
Crimping range (inch) ¹⁾	0.39-1.81	0.39-2.12	0.39-2.12	0.39-2.12	0.39-8.26
Max. crimping force (kN)	100	350	1200	2000	5000
Max. crimping force (tonnage)	10	35	120	200	500
Cycle time 10 mm (s) ²⁾	1.9 (S-model: 0.9)	1.1 (S-model: 0.7)	2.1 (S-model: 1.3)	2.4	3.7
Hose size ID (inch)	1 1/4	1 1/4	1 1/4	1 1/4	6
Die set series ³⁾	SP100	CC22	CC22	20	32/160
Max. opening (mm) ⁴⁾	+11/+62	+25/+48	+25/+63	+25/+63	+46/+215
Master die D/L (mm)	70/40	84/78	84/78	84/78	220/190
Master die D/L (inch)	2.75/1.58	3.31/3.07	3.31/3.07	1.81/3.0	8.66/7.48
Motor Power (kW/HP)	3.0/4.0	3.0/4.0	4.0/5.5	5.5/7.5	7.5/10.0
Oil tank volume	50 l	50 l	50 l	135 l	250 l
DIMENSIONS (LxWxH)					
Machine (mm)	814x782x1670	970x1020x1871	970x1020x2030	1062x970x2004	1510x950x2250
Hydraulic Unit (mm)				713x705x1060	713x705x1060
Machine (inch)	32.0x30.8x65.7	38.2x40.2x73.7	38.2x40.2x80.0	59.4x37.4x88.6	59.4x37.4x88.6
Hydraulic Unit (inch)				28.0x27.8x41.7	28.0x27.8x41.7
WEIGHT (KG/LBS)					
Machine	383/844	710/2050	1256/2976	1940/3936	3930/8650
Hydraulic Unit				182/402	280/485

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.

SP100



Finn-Power SP-series crimping machines with open C-frame structure are optimal for crimping any odd shape, bent or otherwise complex hose assemblies.

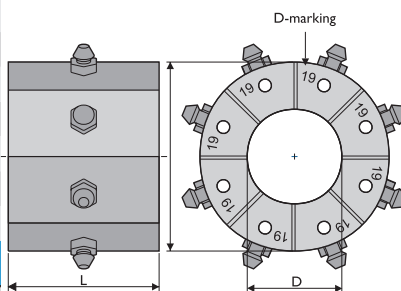
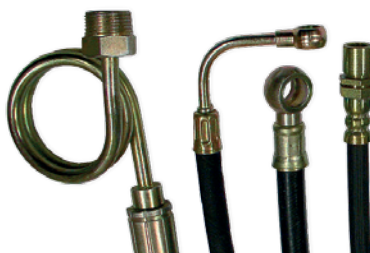
SP100 with 10 ton force is specially designed for small automotive hoses.

SP100 also available in following configurations:

- Z-model with separate crimping head and hydraulic unit
- S-model with enhanced cycle time
- D-model with double head configuration

See details from specific product cards.

TECHNICAL DATA	
Crimping range (mm) ¹⁾	10-46
Crimping range (inch) ¹⁾	0.39-1.81
Max. crimping force (kN)	100
Max. crimping force (tonnage)	10
Cycle time 10 mm (s) ²⁾	1.9 (S-model: 0.9)
Hose size ID (inch)	1 1/4
Die set series ³⁾	SP100
Max. opening (mm) ⁴⁾	+11/+62
Master die D/L (mm)	70/40
Master die D/L (inch)	2.75/1.58
Motor Power (kW/HP)	3.0/4.0
Oil tank volume	50 l
DIMENSIONS (LxWxH)	
Machine (mm)	814x782x1670
Machine (inch)	32.0x30.8x65.7
WEIGHT (KG/LBS)	
383/844	



- 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)

STANDARD FEATURES

QuickChange-tool
Foot pedal (Standard and S-model)

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Auto greasing G3
ICC 12" display

DIE SET SP100-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
701817/10	10	40	10.0-12.0
701817/12	12	40	12.0-14.0
701817/14	14	40	14.0-16.0
701817/16	16	40	16.0-19.0
701817/19	19	40	19.0-23.0
701817/23	23	40	23.0-27.0
701817/27	27	40	27.0-31.0
701817/31	31	40	31.0-36.0
701817/36	36	40	36.0-41.0
701817/41	41	40	41.0-47.0
701817/47	47	40	47.0-54.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

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SP350



Finn-Power SP-series crimping machines with open C-frame structure are optimal for crimping any odd shape, bent or otherwise complex hose assemblies.

SP350 with 35 ton force is designed for demanding automotive hoses and other bent components requiring side feeding. SP350 has adjustable crimp head angle for easier part orientation and visibility. SP350 comes with moveable swing arm for ICC control.

SP350 also available in following configurations:

- Z-model with separate crimping head and hydraulic unit
- S-model with enhanced cycle time
- D-model with double head configuration

See details from specific product cards.

TECHNICAL DATA

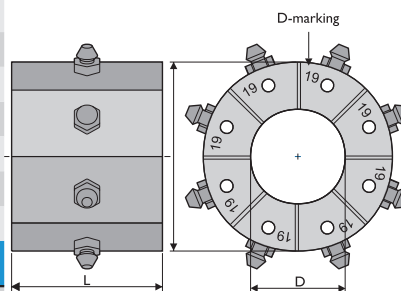
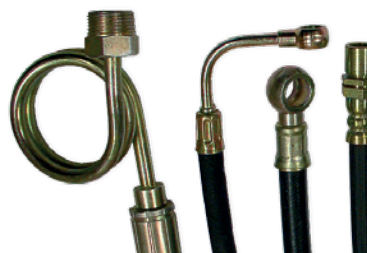
Crimping range (mm) ¹⁾	10-54
Crimping range (inch) ¹⁾	0.39-2.12
Max. crimping force (kN)	350
Max. crimping force (tonnage)	35
Cycle time 10 mm (s) ²⁾	1.1 (S-model: 0.7)
Hose size ID (inch)	1 1/4
Die set series ³⁾	CC22
Max. opening (mm) ⁴⁾	+25/+48
Master die D/L (mm)	84/78
Master die D/L (inch)	3.31/3.07
Motor Power (kW/HP)	3.0/4.0
Oil tank volume	50 l

DIMENSIONS (LxWxH)

Machine (mm)	970x1020x1871
Machine (inch)	38.2x40.2x73.7

WEIGHT (KG/LBS)

710/2050



- 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)

STANDARD FEATURES

QuickChange-tool
Foot pedal (Standard and S-model)

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Auto greasing G3
ICC 12" display

DIE SET CC22-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18315/10	10	50	10.0-12.0
18315/12	12	50	12.0-14.0
18315/14	14	50	14.0-16.0
18315/16	16	50	16.0-19.0
18315/19	19	50	19.0-23.0
18315/23	23	50	23.0-27.0
18315/27	27	50	27.0-31.0
18315/31	31	50	31.0-36.0
18315/36	36	50	36.0-41.0
18315/41	41	50	41.0-47.0
18315/47	47	50	47.0-54.0

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



SP1200

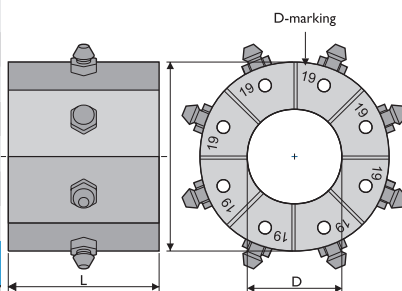
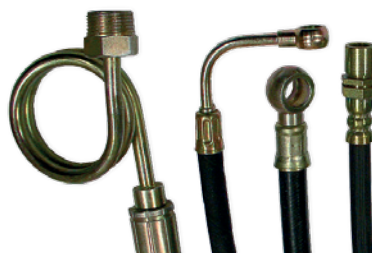
Finn-Power SP-series crimping machines with open C-frame structure are optimal for crimping any odd shape, bent or otherwise complex hose assemblies.

SP1200 with 120 ton force is ideal for various automotive hoses and small diameter industrial hoses with flanges.

- SP1200 also available in following configurations:
- Z-model with separate crimping head and hydraulic unit
 - S-model with enhanced cycle time
 - D-model with double head configuration

See details from specific product cards.

TECHNICAL DATA	
Crimping range (mm) ¹⁾	10-54
Crimping range (inch) ¹⁾	0.39-2.12
Max. crimping force (kN)	1200
Max. crimping force (tonnage)	120
Cycle time 10 mm (s) ²⁾	2.1 (S-model: 1.3)
Hose size ID (inch)	1 1/4
Die set series ³⁾	CC22
Max. opening (mm) ⁴⁾	+25/+63
Master die D/L (mm)	84/78
Master die D/L (inch)	3.31/3.07
Motor Power (kW/HP)	4.0/5.5
Oil tank volume	50 l
DIMENSIONS (LxWxH)	
Machine (mm)	970x1020x2030
Machine (inch)	38.2x40.2x80.0
WEIGHT (KG/LBS)	
	1256/2976



- 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)

STANDARD FEATURES

QuickChange-tool
Foot pedal (Standard and S-model)

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Auto greasing G3
ICC 12" display

DIE SET CC22-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18315/10	10	50	10.0-12.0
18315/12	12	50	12.0-14.0
18315/14	14	50	14.0-16.0
18315/16	16	50	16.0-19.0
18315/19	19	50	19.0-23.0
18315/23	23	50	23.0-27.0
18315/27	27	50	27.0-31.0
18315/31	31	50	31.0-36.0
18315/36	36	50	36.0-41.0
18315/41	41	50	41.0-47.0
18315/47	47	50	47.0-54.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD



SP2000

Finn-Power SP-series crimping machines with open C-frame structure are optimal for crimping any odd shape, bent or otherwise complex hose assemblies.

SP2000 with 200 ton force is designed for heavier bent hose assemblies and small tubular components with large flanges.

SP2000 also available in following configurations:

- S-model with enhanced cycle time
- D-model with double head configuration

See details from specific product cards.

TECHNICAL DATA

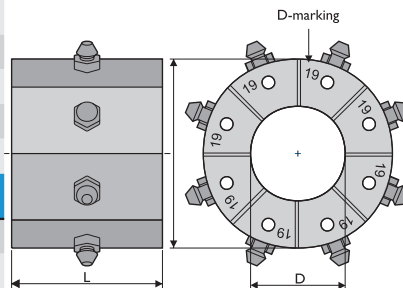
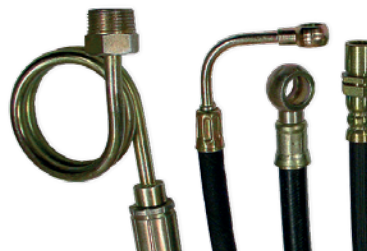
Crimping range (mm) ¹⁾	10-54
Crimping range (inch) ¹⁾	0.39-2.12
Max. crimping force (kN)	2000
Max. crimping force (tonnage)	200
Cycle time 10 mm (s) ²⁾	2.4
Hose size ID (inch)	1 1/4
Die set series ³⁾	20
Max. opening (mm) ⁴⁾	+25/+63
Master die D/L (mm)	84/78
Master die D/L (inch)	1.81/3.0
Motor Power (kW/HP)	5.5/7.5
Oil tank volume	135 l

DIMENSIONS (LxWxH)

Machine (mm)	1062x970x2004
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	59.4x37.4x88.6
Hydraulic Unit (inch)	28.0x27.8x41.7

WEIGHT (KG/LBS)

Machine	1940/3936
Hydraulic Unit	182/402



- 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)

STANDARD FEATURES

QuickChange-tool
Foot pedal (Standard and S-model)

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Auto greasing G3
ICC 12" display

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.



SP5000

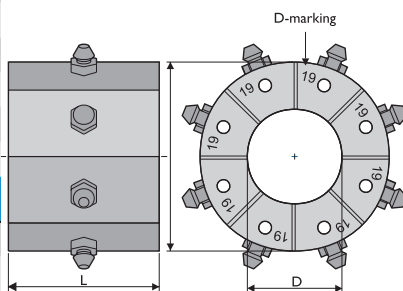
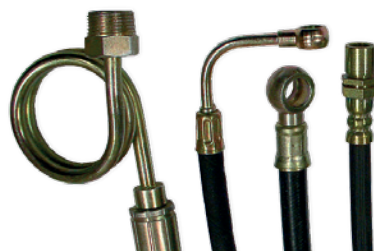
Finn-Power SP-series crimping machines with open C-frame structure are optimal for crimping any odd shape, bent or otherwise complex hose assemblies.

SP5000 with 500 ton force is a heavy duty side feed machine for demanding industrial hoses or pipes with large flanges.

SP5000 is ideal also for various pipeline field installations in e.g. offshore, oil & gas, water & wastewater industries.

See details from specific product cards.

TECHNICAL DATA	
Crimping range (mm) ¹⁾	10-210
Crimping range (inch) ¹⁾	0.39-8.26
Max. crimping force (kN)	5000
Max. crimping force (tonnage)	500
Cycle time 10 mm (s) ²⁾	3.7
Hose size ID (inch)	6
Die set series ³⁾	32/160
Max. opening (mm) ⁴⁾	+46/+215
Master die D/L (mm)	220/190
Master die D/L (inch)	8.66/7.48
Motor Power (kW/HP)	7.5/10.0
Oil tank volume	250
DIMENSIONS (LxWxH)	
Machine (mm)	1510x950x2250
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	59.4x37.4x88.6
Hydraulic Unit (inch)	28.0x27.8x41.7
WEIGHT (KG/LBS)	
Machine	3930/8650
Hydraulic Unit	280/485



- 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)
STANDARD FEATURES
QuickChange-tool
Foot pedal (Standard and S-model)
OPTIONS
Auto greasing G3
Remote control (R1, R2)
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
ICC 12" display

DIE SET 32-SERIES			
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

DIE SET 160-SERIES			
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

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

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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NUT & CABLE (NC)

NC COMPARISON



Standard model



Z-model

TECHNICAL DATA	NC20	NC30	NC40	NC60
Crimping range (mm) ¹⁾	12-49	12-63	12-105	12-160
Crimping range (inch) ¹⁾	0.47-1.93	0.47-2.48	0.47-4.13	0.47-6.30
Max. crimping force (kN)	500	660	930	1300
Max. crimping force (tonnage)	50	66	93	130
Cycle time 10 mm (s) ²⁾	1.5	1.4 (S-model: 0.6)	1.9	2.8
Hose size ID (inch)	1 1/4	2	2	3
Die set series	NC20	NC30	NC20/30/40	NC20/30/40/60
Max. opening (mm) ³⁾	+18	+26	+26	+29
Max. opening without dies (mm)	117	125	166	166
Master die D/L (mm)	99/22	99/35	140/37	220/57
Master die D/L (inch)	3.90/0.87	3.90/1.38	3.90/1.46	8.66/2.24
Motor Power (kW/HP)	3.0/4.0	4.0/5.5	4.0/5.5	4.0/5.5
Oil tank volume	32 l	50 l	50 l	50 l
Z-model availability	YES	YES	YES	
DIMENSIONS (LxWxH)				
Standard (mm)	835x885x997	835x885x997	835x885x997	835x1015x997
Standard (inch)	32.9x34.8x39.3	32.9x34.8x39.3	32.9x34.8x39.3	32.9x39.9x39.3
Z-model head (mm)	321x340x395	406x359x395	406x372x395	
Z-model hydraulic unit (mm)	597x436,5x651	597x436.5x651	653x473x711	
Z-model head (inch)	12.6x13.4x17.2	15.9x14.1x15.6	15.9x14.6x15.6	
Z-model hydraulic unit (inch)	25.6x17.2x23.5	25.6x17.2x23.5	25.7x18.6x27.9	
WEIGHT (KG/LBS)				
Standard	287/485	288/529	288/529	536/948
Z-model head	113/249	129/284	129/284	
Z-model hydraulic unit	103/227	101/222	96/211	

1) With standard dies. Crimping range can be increased with special dies.

2) Theoretical with 10mm cycle.

3) 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.



NC20

Finn-Power NC-machines have proven to be the most reliable and widely used nut crimping machines in the industry. NC-machines provide fast and accurate crimping for fitting manufacturing.

NC20 can be used also for other applications with short crimping length eg. connectors, small hoses, rings, tubes and sensors.

Adjustable back stop enables quick set up for different products. A special centering pin, selected according to ferrule size, can be used during the crimping.

Also available as Z-model with separate crimping head and hydraulic unit.

TECHNICAL DATA		DIMENSIONS (LxWxH)	
Crimping range (mm) ¹⁾	12-49	Standard (mm)	835x885x997
Crimping range (inch) ¹⁾	0.47-1.93	Standard (inch)	32.9x34.8x39.3
Max. crimping force (kN)	500	Z-model head (mm)	321x340x395
Max. crimping force (tonnage)	50	Z-model hydraulic unit (mm)	597x436,5x651
Cycle time 10 mm (s) ²⁾	1.5	Z-model head (inch)	12.6x13.4x17.2
Hose size ID (inch)	1 1/4	Z-model hydraulic unit (inch)	25.6x17.2x23.5
Die set series	NC20	WEIGHT (KG/LBS)	
Max. opening (mm) ³⁾	+18	Standard	287/485
Max. opening without dies (mm)	117	Z-model head	113/249
Master die D/L (mm)	99/22	Z-model hydraulic unit	103/227
Master die D/L (inch)	3.90/0.87		
Motor Power (kW/HP)	3.0/4.0		
Oil tank volume	32 l		
Z-model availability	YES		

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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

STANDARD FEATURES

Foot pedal (Standard)
Mechanical back stop device

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Oil cooler **
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Remote control unit
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



DIE SET NC20-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18546/12	12	3	12.0-16.0
18546/16	16	4	16.0-22.0
18546/22	22	4.5	22.0-27.0
18546/27	27	5	27.0-34.0
18546/34	34	5	34.0-41.0
18546/41	41	5	41.0-49.0

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

**FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD**

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NC30

Finn-Power NC-machines have proven to be the most reliable and widely used nut crimping machines in the industry. NC-machines provide fast and accurate crimping for fitting manufacturing.

NC30 is equipped with longer master dies and has bit more opening and force than NC20. NC30 can be used also for other applications with short crimping length eg. connectors, small hoses, rings, tubes and sensors.

Adjustable back stop enables quick set up for different products.

A special centering pin, selected according to ferrule size, can be used during the crimping.

Also available as Z-model with separate crimping head and hydraulic unit.

TECHNICAL DATA		DIMENSIONS (LxWxH)	
Crimping range (mm) ¹⁾	12-63	Standard (mm)	835x885x997
Crimping range (inch) ¹⁾	0.47-2.48	Standard (inch)	32.9x34.8x39.3
Max. crimping force (kN)	660	Z-model head (mm)	406x359x395
Max. crimping force (tonnage)	66	Z-model hydraulic unit (mm)	597x436.5x651
Cycle time 10 mm (s) ²⁾	1.4 (S-model: 0.6)	Z-model head (inch)	15.9x14.1x15.6
Hose size ID (inch)	2	Z-model hydraulic unit (inch)	25.6x17.2x23.5
Die set series	NC30	WEIGHT (KG/LBS)	
Max. opening (mm) ³⁾	+26	Standard	288/529
Max. opening without dies (mm)	125	Z-model head	129/284
Master die D/L (mm)	99/35	Z-model hydraulic unit	101/222
Master die D/L (inch)	3.90/1.38		
Motor Power (kW/HP)	4.0/5.5		
Oil tank volume	50 l		
Z-model availability	YES		

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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

STANDARD FEATURES

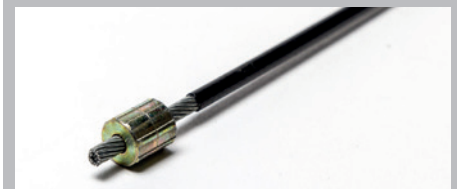
Foot pedal (Standard)
Mechanical back stop device

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Oil cooler **
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Remote control unit
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



DIE SET NC30-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
702044/12	12	3	12.0-14.0
702044/14	14	3	14.0-16.0
702044/16	16	4	16.0-19.0
702044/19	19	4	19.0-22.0
702044/22	22	4.5	22.0-26.0
702044/26	26	4.5	26.0-30.0
702044/30	30	5	30.0-34.0
702044/34	34	5	34.0-39.0
702044/39	39	5	39.0-45.0
702044/45	45	5	45.0-51.0
702044/51	51	5	51.0-57.0
702044/57	57	5	57.0-63.0

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

NC40



Finn-Power NC-machines have proven to be the most reliable and widely used nut crimping machines in the industry. NC-machines provide fast and accurate crimping for fitting manufacturing.

With 93 ton force and 140mm master dies NC40 is the second biggest NC-machine in the range. NC40 can be used also for other applications with short crimping length eg. connectors, small hoses, rings, tubes and sensors.

Adjustable back stop enables quick set up for different products. A special centering pin, selected according to ferrule size, can be used during the crimping.

Also available as Z-model with separate crimping head and hydraulic unit.

TECHNICAL DATA	
Crimping range (mm) ¹⁾	12-105
Crimping range (inch) ¹⁾	0.47-4.13
Max. crimping force (kN)	930
Max. crimping force (tonnage)	93
Cycle time 10 mm (s) ²⁾	1.9
Hose size ID (inch)	2
Die set series	NC20/30/40
Max. opening (mm) ³⁾	+26
Max. opening without dies (mm)	166
Master die D/L (mm)	140/37
Master die D/L (inch)	3.90/1.46
Motor Power (kW/HP)	4.0/5.5
Oil tank volume	50 l
Z-model availability	YES

DIMENSIONS (LxWxH)	
Standard (mm)	835x885x997
Standard (inch)	32.9x34.8x39.3
Z-model head (mm)	406x372x395
Z-model hydraulic unit (mm)	653x473x711
Z-model head (inch)	15.9x14.6x15.6
Z-model hydraulic unit (inch)	25.7x18.6x27.9
WEIGHT (KG/LBS)	
Standard	288/529
Z-model head	129/284
Z-model hydraulic unit	96/211

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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

STANDARD FEATURES

Foot pedal (Standard)
Mechanical back stop device

OPTIONS

Foot pedal (Z-model)
Auto greasing G3
Oil cooler **
** Will have impact on motor size, hydraulic unit dimensions and weight.

OPTIONS (ICC)

Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Remote control unit
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



DIE SET NC20-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18546/12	12	3	12.0-16.0
18546/16	16	4	16.0-22.0
18546/22	22	4.5	22.0-27.0
18546/27	27	5	27.0-34.0
18546/34	34	5	34.0-41.0
18546/41	41	5	41.0-49.0

DIE SET NC30-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
702044/12	12	3	12.0-14.0
702044/14	14	3	14.0-16.0
702044/16	16	4	16.0-19.0
702044/19	19	4	19.0-22.0
702044/22	22	4.5	22.0-26.0
702044/26	26	4.5	26.0-30.0
702044/30	30	5	30.0-34.0
702044/34	34	5	34.0-39.0
702044/39	39	5	39.0-45.0
702044/45	45	5	45.0-51.0
702044/51	51	5	51.0-57.0
702044/57	57	5	57.0-63.0

DIE SET NC40-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
703955/63	63	5	63.0-69.0
703955/69	69	5	69.2-73.0
703955/73	73	6	73.0-81.0
703955/81	81	7	81.0-93.0
703955/93	93	7	93.0-105.0

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

FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD

POWERCO.LILLBACKA.COM LILLBACKAUSA.COM

NC60



Finn-Power NC-machines have proven to be the most reliable and widely used nut crimping machines in the industry. NC-machines provide fast and accurate crimping for fitting manufacturing.

NC60 is the biggest and strongest machine in Nut Crimping series. Due to large 160 mm master dies NC60 is ideal also for larger ring crimping and other applications requiring bigger dimensions.

Adjustable back stop enables quick set up for different products.

A special centering pin, selected according to ferrule size, can be used during the crimping.

NC60 not available as Z-model due to crimping head weight.

TECHNICAL DATA

Crimping range (mm) ¹⁾	12-160
Crimping range (inch) ¹⁾	0.47-6.30
Max. crimping force (kN)	1300
Max. crimping force (tonnage)	130
Cycle time 10 mm (s) ²⁾	2.8
Hose size ID (inch)	3
Die set series	NC20/30/40/60
Max. opening (mm) ³⁾	+29
Max. opening without dies (mm)	166
Master die D/L (mm)	220/57
Master die D/L (inch)	8.66/2.24
Motor Power (kW/HP)	4.0/5.5
Oil tank volume	50 l

DIMENSIONS (LxWxH)

(mm)	835x1015x997
(inch)	32.9x39.9x39.3

WEIGHT (KG/LBS)

536/948

- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10mm cycle.
- 3) 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

STANDARD FEATURES

Foot pedal
Mechanical back stop device

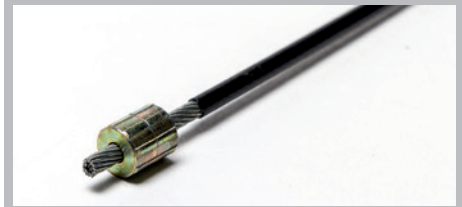
OPTIONS

Foot pedal
Mechanical back stop device
Auto greasing G3
Oil cooler **

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

OPTIONS (ICC)

Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Remote control unit
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



DIE SET NC20-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18546/12	12	3	12.0-16.0
18546/16	16	4	16.0-22.0
18546/22	22	4.5	22.0-27.0
18546/27	27	5	27.0-34.0
18546/34	34	5	34.0-41.0
18546/41	41	5	41.0-49.0

DIE SET NC30-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
702044/12	12	3	12.0-14.0
702044/14	14	3	14.0-16.0
702044/16	16	4	16.0-19.0
702044/19	19	4	19.0-22.0
702044/22	22	4.5	22.0-26.0
702044/26	26	4.5	26.0-30.0
702044/30	30	5	30.0-34.0
702044/34	34	5	34.0-39.0
702044/39	39	5	39.0-45.0
702044/45	45	5	45.0-51.0
702044/51	51	5	51.0-57.0
702044/57	57	5	57.0-63.0

DIE SET NC40-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
703955/63	63	5	63.0-69.0
703955/69	69	5	69.2-73.0
703955/73	73	6	73.0-81.0
703955/81	81	7	81.0-93.0
703955/93	93	7	93.0-105.0

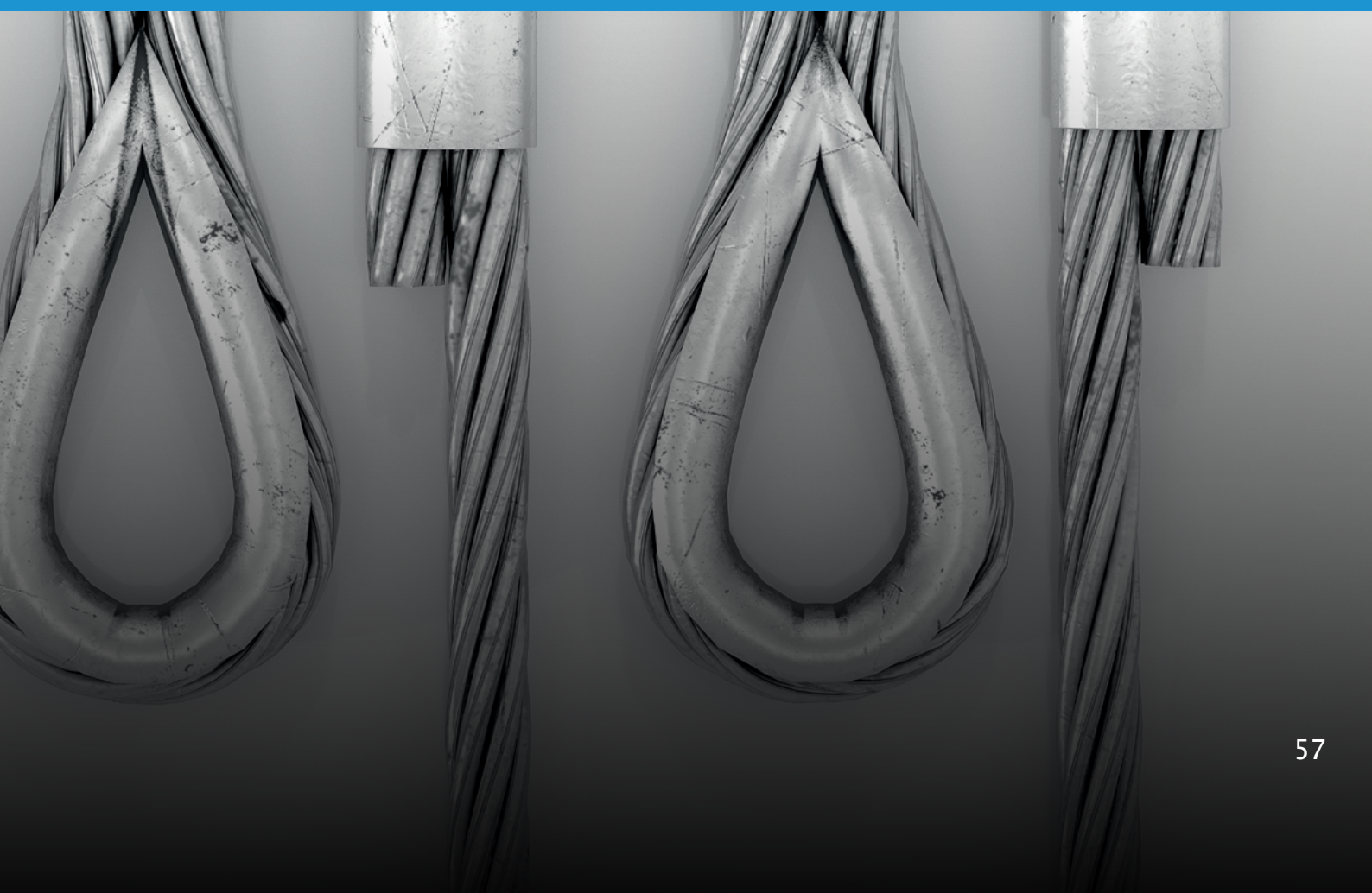
DIE SET NC60-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
715345/100	100	8	100.0-108.0
715345/108	108	8	108.0-116.0
715345/116	116	9	116.0-126.0
715345/126	126	9	126.0-136.0
715345/136	136	10	136.0-146.0
715345/146	146	10	146.0-156.0

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



NUT & CABLE (CC)



CC COMPARISON



TECHNICAL DATA	CC22	CC26
Max crimping dia (mm) ¹⁾	54	61
Max crimping dia (inch) ¹⁾	2.12	2.40
Max crimping force (kN)	680	1300
Max crimping force (tonnage)	68	130
Cycle time 10 mm (s) ²⁾	1.8	2.8
Hose size ID (inch)	1 ¼	1 ¼
Die set series	CC22	20
Max opening (mm) ³⁾	+25	+30
Max opening without dies (mm)	109	114
Master die D/L (mm)	84/52	84/80
Master die D/L (inch)	3.31/2.05	3.31/3.15
Motor Power (kW/HP)	3/4.0	4/5.5
Oil tank volume	35 l	35 l / 32 l (Z-model)
DIMENSIONS (LxWxH)		
Machine (mm)	597x475x722	647x588x745
Machine (inch)	23.6x18.8x28.4	23.6x23.1x29.3
Crimping head (mm) CC26Z		326x608x341
Hydraulic Unit (mm) CC26Z		597x436.5x653
Crimping head (inch) CC26Z		12.8x23.9x13.4
Hydraulic Unit (inch) CC26Z		23.5x17.2x25.7
WEIGHT (KG/LBS)		
	130/246	185/407



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 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.



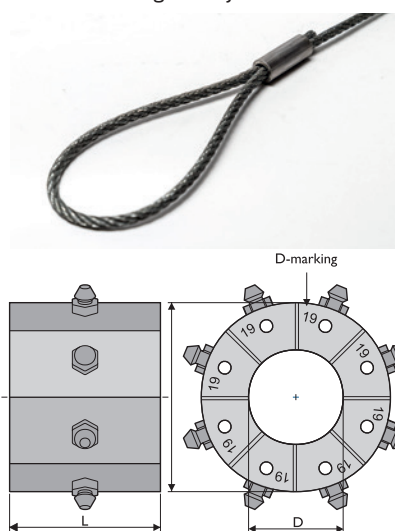
CC22

RELIABLE SOLUTION FOR AUTOMATED LINES

CC22 comes in both a table-top or ergonomic Z-configuration. The CC22 is built for high-volume Serial Production use. By design, the constant centerline crimping enables easy part-positioning.

The Z-configuration, with the crimping head and hydraulic unit all separate, makes the CC22 ideal for automatic line use. For automation it can be equipped with an optional Automatic Greasing Unit, enabling an interruption-free operation combined with long maintenance intervals and ensuring ultimate accuracy. It also has wiper seal, protecting dirt and debris from entering the cylinder.

TECHNICAL DATA	
Max crimping dia (mm) ¹⁾	54
Max crimping dia (inch) ¹⁾	2.12
Max crimping force (kN)	680
Max crimping force (tonnage)	68
Cycle time 10 mm (s) ²⁾	1.8
Hose size ID (inch)	1 ¼
Die set series	CC22
Max opening (mm) ³⁾	+25
Max opening without dies (mm)	109
Master die D/L (mm)	84/52
Master die D/L (inch)	3.31/2.05
Motor Power (kW/HP)	3/4.0
Oil tank volume	35 l
DIMENSIONS (LxWxH)	
Machine (mm)	597x475x722
Machine (inch)	23.6x18.8x28.4
WEIGHT (KG/LBS)	
	130/246



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 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
MODELS
Standard
Z-model
STANDARD FEATURES
Electric backstop device
OPTIONS
QuickChange-tool
Foot pedal
Mechanical back stop device
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Auto greasing G3
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



DIE SET CC22			
DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18015/10	10	50	10.0-12.0
18015/12	12	50	12.0-14.0
18015/14	14	50	14.0-16.0
18015/16	16	50	16.0-19.0
18015/19	19	50	19.0-23.0
18015/23	23	50	23.0-27.0
18015/27	27	50	27.0-31.0
18015/31	31	50	31.0-36.0
18015/36	36	50	36.0-41.0
18015/41	41	50	41.0-47.0
18015/47	47	50	47.0-54.0

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

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD

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CC26

RELIABLE SOLUTION FOR AUTOMATED LINES

CC26 comes in both a table-top or ergonomic Z-configuration. The CC26 is built for high-volume Serial Production use. By design, the constant centerline crimping enables easy part-positioning.

The Z-configuration, with the crimping head and hydraulic unit all separate, makes the CC26 ideal for automatic line use. For automation it can be equipped with an optional Automatic Greasing Unit, enabling an interruption-free operation combined with long maintenance intervals and ensuring ultimate accuracy. It also has wiper seal, protecting dirt and debris from entering the cylinder.

CONTROL

ICC

MODELS

Standard
Z-model

STANDARD FEATURES

Electric backstop device

OPTIONS

QuickChange-tool
Foot pedal
Mechanical back stop device
Pressure crimping ICC1
Step crimping ICC2
Quality control ICC3
Graphical quality control ICC4
Auto greasing G3
Interface pack ETH (Communication TCP/IP & UDP)
Bar Code Reader BCR



TECHNICAL DATA

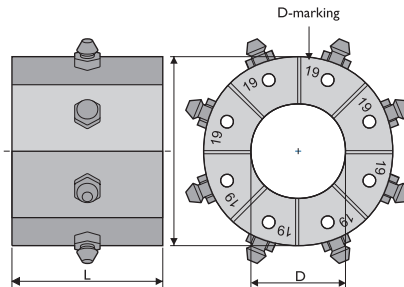
Max crimping dia (mm) ¹⁾	61
Max crimping dia (inch) ¹⁾	2.40
Max crimping force (kN)	1300
Max crimping force (tonnage)	130
Cycle time 10 mm (s) ²⁾	2.8
Hose size ID (inch)	1 ¼
Die set series	20
Max opening (mm) ³⁾	+30
Max opening without dies (mm)	114
Master die D/L (mm)	84/80
Master die D/L (inch)	3.31/3.15
Motor Power (kW/HP)	4/5.5
Oil tank volume	35 l /32 l (Z-model)

DIMENSIONS (LxWxH)

Machine (mm) CC26	647x588x745
Machine (inch) CC26	23.6x23.1x29.3
Crimping head (mm) CC26Z	326x608x341
Hydraulic Unit (mm) CC26Z	597x436.5x653
Crimping head (inch) CC26Z	12.8x23.9x13.4
Hydraulic Unit (inch) CC26Z	23.5x17.2x25.7

WEIGHT (KG/LBS)

185/407



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 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.

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.

The background of the page is a blurred, high-contrast image of vertical lines, likely representing a printing process or a series of columns. The lines are dark and run vertically, with some lighter areas in between, creating a sense of motion and depth. A solid blue horizontal band is positioned across the middle of the page, containing the word 'CUTTING' in white, bold, uppercase letters.

CUTTING

CM COMPARISON



TECHNICAL DATA	CM30	CM35	CM75	CM91
Max. hose size (inch) ¹⁾	2 / 1 1/4	2 / 1 1/4	2	3
Diameter (blade) external	300x3	300x3	520x4	650x4
Diameter (blade) internal	30	30	38	42
Max. hose OD	70	70	71	120
Exhaust outlet OD (mm)	60	60		
Motor Power (kW) ²⁾	3.0/2.2	3.0/2.2	7.5	11.0
Motor Power (HP) ²⁾	4.0/2.9	4.0/2.9	10.0	15.0
Velocity, 50Hz	2750	2750	2840	2900
Velocity, 60Hz	3370	3370	2840	3480
DIMENSIONS (LxWxH)				
mm	600x503x739	712x562x1127	990x714x1318	1400x702x1614
inch	23.6x19.8x29.1	28.0x22.1x44.4	39.0x28.2x51.9	55.1x27.6x63.5
WEIGHT				
kg/lbs	42/92.4	74/162.8	300/485	275/605

1) Hydraulic hose, 1-2 wire / 4 wire

2) 3-phase / 1-phase



CM30

CM30 is designed for workshop use. CM30 is manually operated and easy to use and it comes with a fume exhaust connection.

3-phase and 1-phase electric configurations available.
Please also see product cards for other CM30/35 configurations.

TECHNICAL DATA	
Max. hose size (inch) ¹⁾	2 / 1 1/4
Diameter (blade) external	300x3
Diameter (blade) internal	30
Max. hose OD	70
Exhaust outlet OD (mm)	60
Motor Power (kW) ²⁾	3.0/2.2
Motor Power (HP) ²⁾	4.0/2.9
Velocity, 50Hz	2750
Velocity, 60Hz	3370
DIMENSIONS (LxWxH)	
mm	600x503x739
inch	23.6x19.8x29.1
WEIGHT	
kg/lbs	42/92.4

- 1) Hydraulic hose, 1-2 wire / 4 wire
2) 3-phase / 1-phase

STANDARD FEATURES

Toothed blade

OPTIONS

Smooth blade

Motor brake (CM30B)

Pneumatic pusher (CM30P)



Toothed blade
as a standard feature.



Smooth blade
as an option.

**FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD**



CM30CS

CM30CS is designed for service van use. CM30CS is manually operated and easy to use and it comes with a fume exhaust connection.

12 or 24V operated versions available.

Please also see product cards for other CM30/35 configurations.

TECHNICAL DATA

Max. hose size (inch) ¹⁾	2 / 1 1/4
Diameter (blade) external	300x3
Diameter (blade) internal	30
Max. hose OD	70
Exhaust outlet OD (mm)	60
Motor Power (kW) ²⁾	2.2 / 1.5
Motor Power (HP) ²⁾	3.0 / 2.0
Velocity, 50Hz	2750
Velocity, 60Hz	3370

DIMENSIONS (LxWxH)

mm	600x503x739
inch	23.6x19.8x29.1

WEIGHT

kg/lbs	37/81,4
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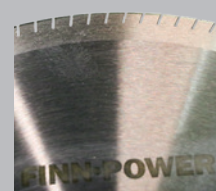
1) Hydraulic hose, 1-2 wire / 4 wire
2) 12V / 24V. Overload controlled.

STANDARD FEATURES

Toothed blade

OPTIONS

Smooth blade



Toothed blade
as a standard feature.



Smooth blade
as an option.



CM35

CM35 is designed for workshop use. CM35 capacity is same as in CM30 but it comes with manual foot pedal. CM35 is easy to use and it comes with a fume exhaust connection.

3-phase and 1-phase electric configurations available. Please also see product cards for other CM30/35 configurations.

TECHNICAL DATA	
Max. hose size (inch) ¹⁾	2 / 1 1/4
Diameter (blade) external	300x3
Diameter (blade) internal	30
Max. hose OD	70
Exhaust outlet OD (mm)	60
Motor Power (kW) ²⁾	3.0/2.2
Motor Power (HP) ²⁾	4.0/2.9
Velocity, 50Hz	2750
Velocity, 60Hz	3370
DIMENSIONS (LxWxH)	
mm	712x562x1127
inch	28.0x22.1x44.4
WEIGHT	
kg/lbs	74/162.8

- 1) Hydraulic hose, 1-2 wire / 4 wire
2) 3-phase / 1-phase

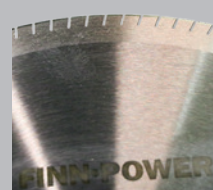
STANDARD FEATURES

Toothed blade

OPTIONS

Smooth blade

Motor brake (CM35B)



Toothed blade as a standard feature.



Smooth blade as an option.

**FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD**



CM75

Finn-Power CM75 hose-cutting machine has been designed to cut up to 2" diameter 6-spiral hoses. The hose is pushed against the blade by a pneumatic pusher.

Pusher movement speed can be quickly and easily adjusted to choose optimal cutting speed for every hose. The blade can be sharpened when necessary. The cutter has a built-in bin for collecting cutting waste.

SAFE- and QT-models also available.

TECHNICAL DATA

Max. hose size (inch)	2
Diameter (blade) external	520x4
Diameter (blade) internal	38
Max. hose OD	71
Motor Power (kW/HP)	7.5 / 10.0
Velocity, 50Hz	2840
Velocity, 60Hz	2840

DIMENSIONS (LxWxH)

mm	990x714x1318
inch	39.0x28.2x51.9

WEIGHT

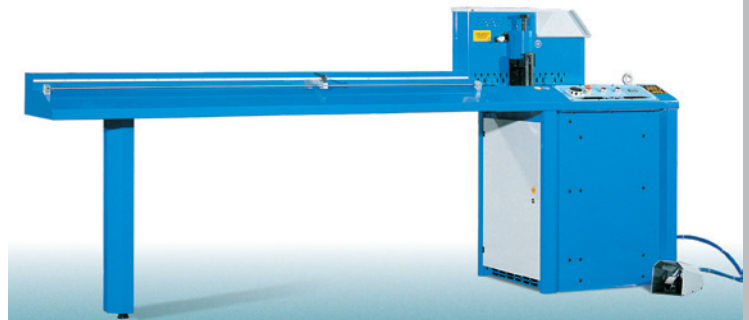
kg/lbs	300/485
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STANDARD FEATURES

Toothed blade
Adjustable pneumatic pusher speed
Adjustable hose support

OPTIONS

Measuring table (2 m segments)
Fume extractor
Smooth blade



Measuring table (left/right handed) as an option.



CM75 SAFE

Finn-Power CM75 SAFE has the same capacity as in CM75 with added safeguard and motor brake. Safeguard opens only after blade rotation has stopped.

Service free electrical brake stops the blade in only 3 seconds.

Pusher movement speed can be quickly and easily adjusted to choose optimal cutting speed for every hose. The blade can be sharpened when necessary. The cutter has a built-in bin for collecting cutting waste.

See also QT-model.

STANDARD FEATURES

- Toothed blade
- Adjustable pneumatic pusher speed
- Adjustable hose support
- Safeguard
- Motor brake

OPTIONS

- Measuring table (2 m segments)
- Fume extractor
- Smooth blade

TECHNICAL DATA

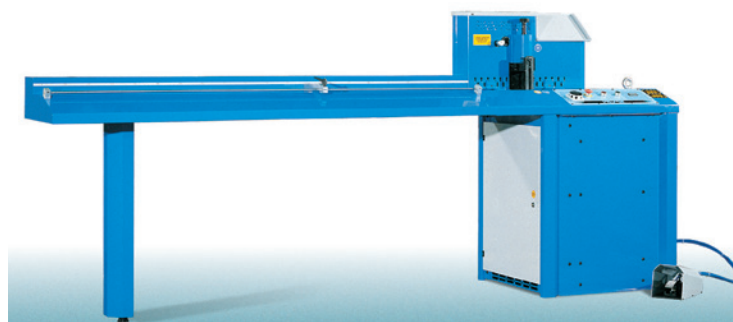
Max. hose size (inch)	2
Diameter (blade) external	520x4
Diameter (blade) internal	38
Max. hose OD	71
Motor Power (kW/HP)	7.5 / 10.0
Velocity, 50Hz	2840
Velocity, 60Hz	2840

DIMENSIONS (LxWxH)

mm	990x714x1318
inch	39.0x28.2x51.9

WEIGHT

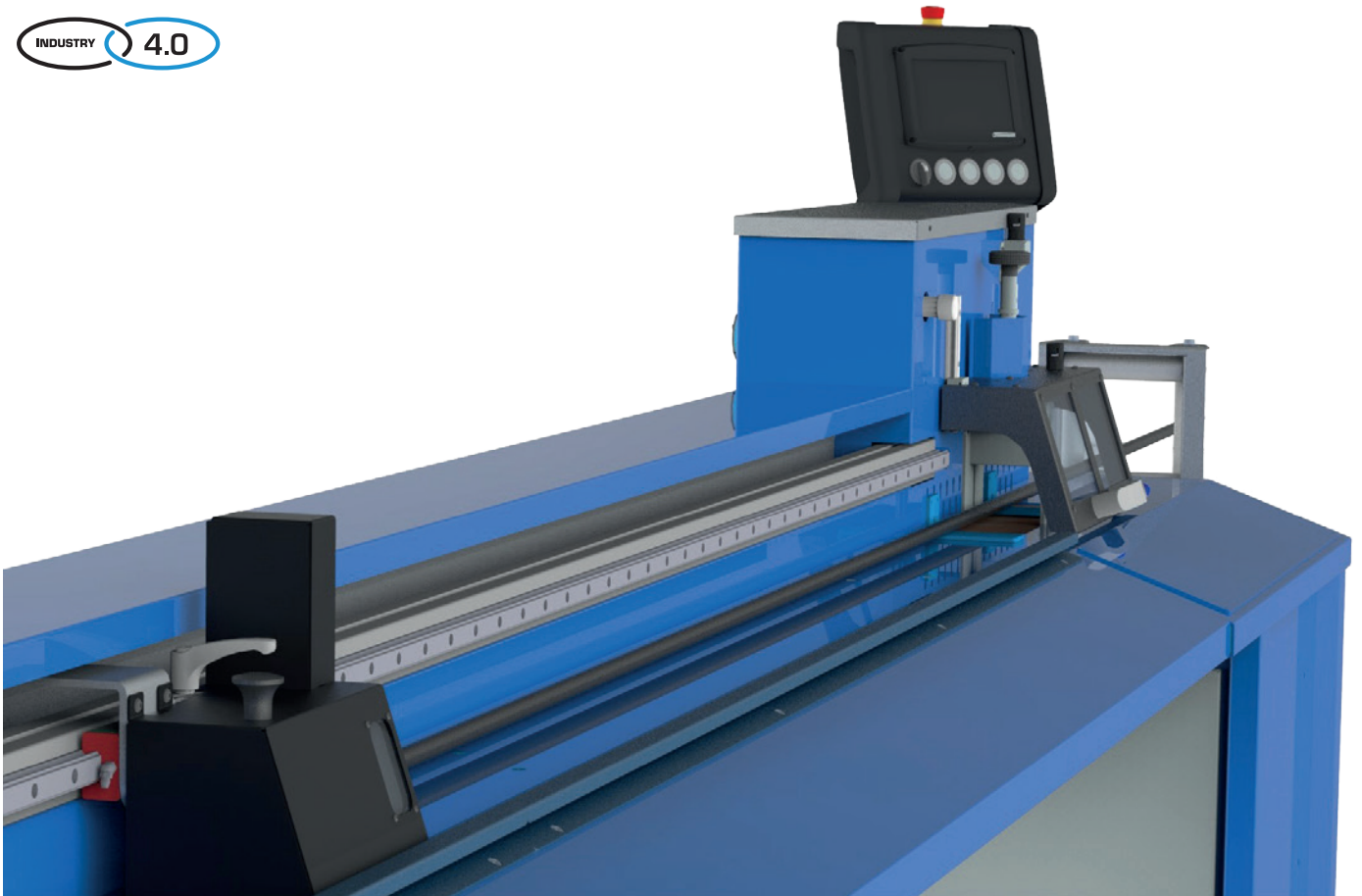
kg/lbs	300/485
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Measuring table (left/right handed) as an option.

**FURTHER INFO ON OPTIONS,
PLEASE REVERT TO SPECIFIC PRODUCT CARD**

POWERCO.LILLBACKA.COM LILLBACKAUSA.COM



SAFE-model.

CM75QT

The most common problem in hose production is incorrect cutting length. Finn-Power CM75QT has been designed to solve that problem. CM75QT eliminates human mistakes.

CM75QT quality table has been equipped with automatic servo motor based measuring device with extreme accuracy.

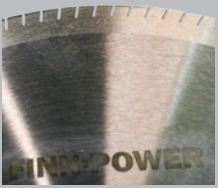
Fast measuring reduces the cutting cycle time dramatically and enables fast return of investment.

CM75QT is equipped with ICC-control which enables connectivity and job queues.


CM75QT also available as SAFE-model.

TECHNICAL DATA	
Max. hose size (inch)	2
Diameter (blade) external	520x4
Diameter (blade) internal	38
Max. hose OD	71
Motor Power (kW/HP)	7.5 / 10.0
Velocity, 50Hz	2840
Velocity, 60Hz	2840
DIMENSIONS (LxWxH)	
mm	990x714x1318
inch	39.0x28.2x51.9
WEIGHT	
kg/lbs	300/485

STANDARD FEATURES
ICC-control
Toothed blade
Adjustable pneumatic pusher speed
Adjustable hose support
Measuring table (6 metre)
OPTIONS
Measuring table (2 m segments)
Fume extractor
Smooth blade
Safeguard
Motor brake



Toothed blade as a standard feature.



Smooth blade as an option.



CM91

Finn-Power CM91 hose-cutting machine has been designed to cut up to 3" hoses. The hose is pushed against the blade by a pneumatic pusher.

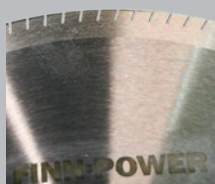
Electrical pusher movement adjusts pusher speed automatically providing optimal cutting speed for every hose and preventing blade overheating.

The blade can be sharpened when necessary. The cutter has a built-in bin for collecting cutting waste.


SAFE-model also available.

TECHNICAL DATA	
Max. hose size (inch)	3
Diameter (blade) external	650x4
Diameter (blade) internal	42
Max. hose OD	120
Motor Power (kW/HP)	11.0 / 15.0
Velocity, 50Hz	2900
Velocity, 60Hz	3480
DIMENSIONS (LxWxH)	
mm	1400x702x1614
inch	55.1x27.6x63.5
WEIGHT	
kg/lbs	275/605

STANDARD FEATURES
Toothed blade
Adjustable pneumatic pusher speed
Adjustable hose support
Mechanical safeguard
OPTIONS
Measuring table (1.5 m segments)
Fume extractor
Smooth blade



Toothed blade as a standard feature.



Smooth blade as an option.

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD



CM91 SAFE

Finn-Power CM91 SAFE has the same capacity as in CM91 with added electric safeguard and motor brake. Safeguard opens only after blade rotation has stopped.

Service free electrical brake stops the blade in only 3 seconds.

Electrical pusher movement adjusts pusher speed automatically providing optimal cutting speed for every hose and preventing blade overheating.

The blade can be sharpened when necessary.

The cutter has a built-in bin for collecting cutting waste.

TECHNICAL DATA

Max. hose size (inch)	3
Diameter (blade) external	650x4
Diameter (blade) internal	42
Max. hose OD	120
Motor Power (kW/HP)	11.0 / 15.0
Velocity, 50Hz	2900
Velocity, 60Hz	3480

DIMENSIONS (LxWxH)

mm	1400x702x1614
inch	55.1x27.6x63.5

WEIGHT

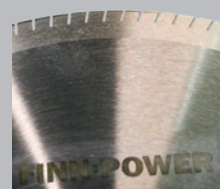
kg/lbs	275/605
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STANDARD FEATURES

- Toothed blade
- Adjustable pneumatic pusher speed
- Adjustable hose support
- Safeguard
- Motor brake

OPTIONS

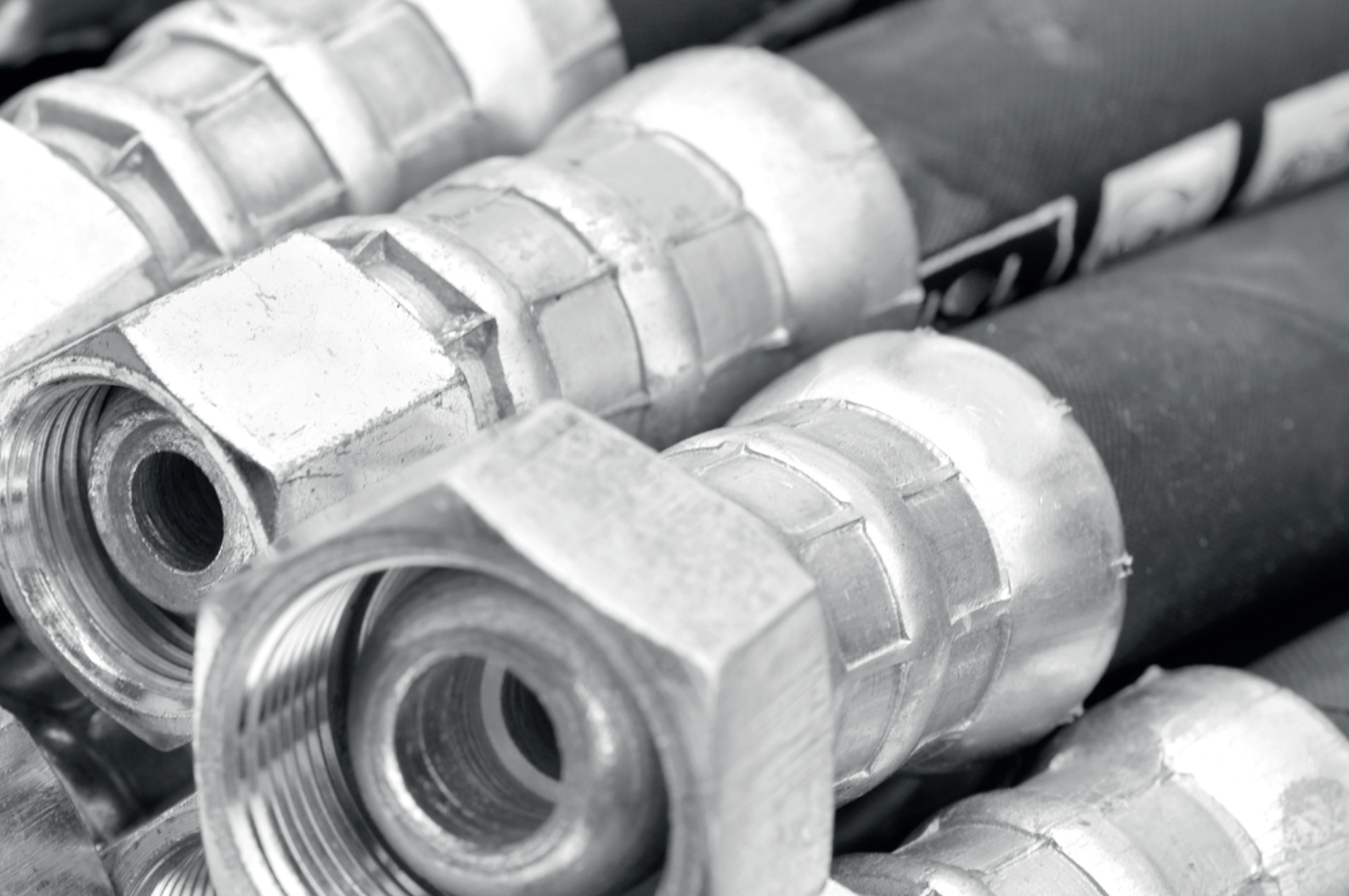
- Measuring table (1.5 m segments)
- Fume extractor
- Smooth blade



Toothed blade as a standard feature.



Smooth blade as an option.



SKIVING





FS50

Finn-Power FS50 is a skiving machine that prepares hydraulic hoses for high demanding crimping. The machine is ergonomically designed for efficiency and ease of use. FS50 has adjustable tooling which saves in tool costs and maximizes productivity.

FS50 can do internal and external skiving.

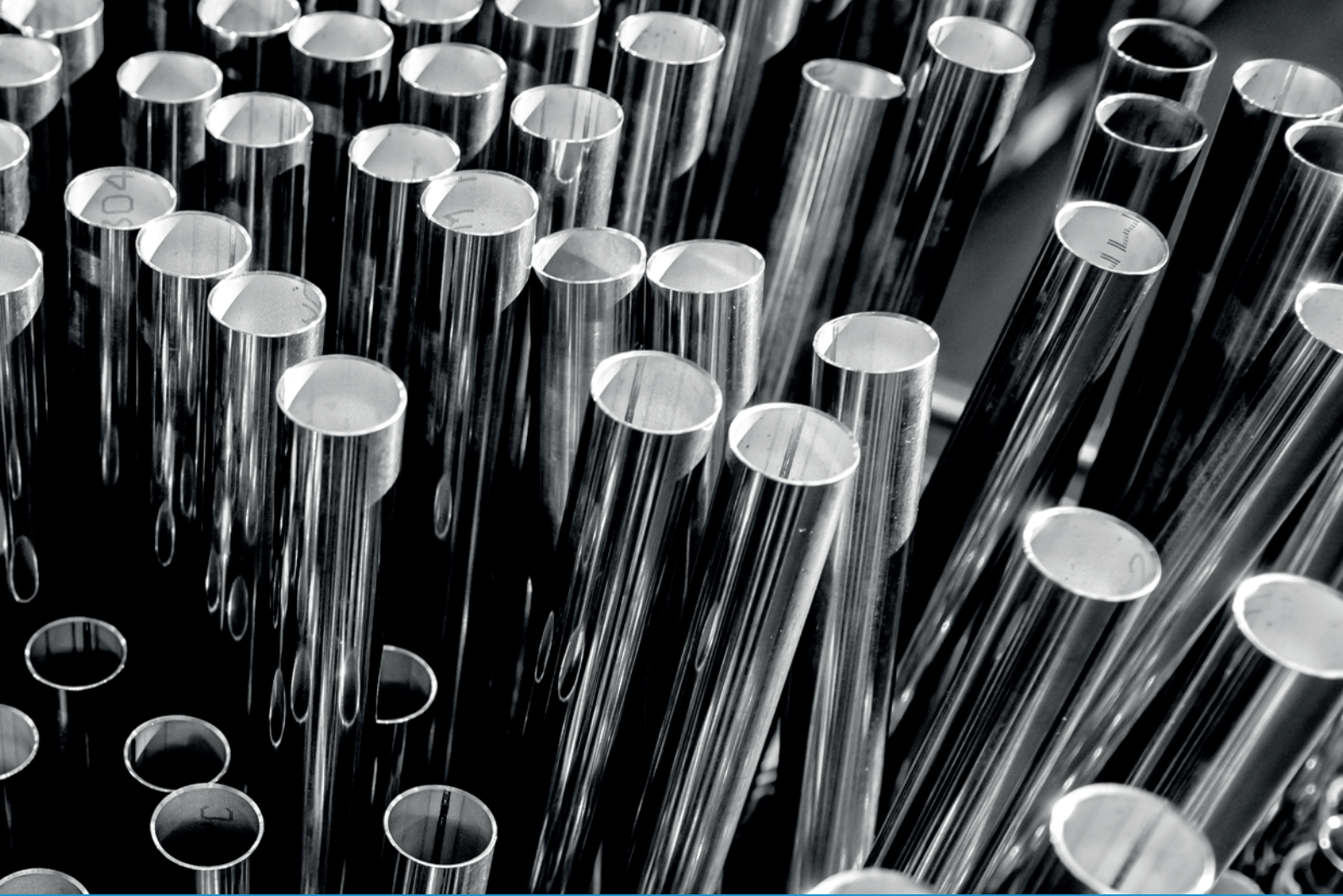
TECHNICAL DATA	
Hose capacity, external (inch)	3/16-2
Hose capacity, internal (inch)	1/2-2
Speed of tool rotation (r./min)	100
Expanding length (mm)	85
Motor Power (kW/HP)	0.75 ¹⁾ / 1.0
DIMENSIONS (LxWxH)	
mm	821x366x390
inch	32.3x14.4x15.4
WEIGHT	
kg/lbs	34/75

1) 3-phase



DESCRIPTION	Pro	Size (inches)	
INTERNAL TOOLS	715078	3/8	
	708937	1/2	
	707182	5/8	
	707167	3/4	
	707166	1	
	707179	1 1/4	
	707181	1 1/2	
	707184	2	
	EXTERNAL MANDRELS	711313	3/16
		711312	1/4
711311		5/16	
711310		3/8	
711321		1/2	
711320		5/8	
711319		3/4	
711318		1	
711314		1 1/4	
711315		1 1/2	
711317	2		
TOOL RACK WITHOUT TOOLS	707253		
TOOL RACK + MANDRELS	711331		





EXPANSION



EXPANSION COMPARISON



TECHNICAL DATA	EF200	EF300
Tube capacity, round (mm)	200	300
Tube capacity, square (mm)	120x200	300x300
Min. tube size (mm)	120	200
Expanding length (mm)	85	200
Max. wall thickness, basic steel (mm)	10	30
Max. expanding die movement (mm)	15	15
Expansion force (kN)	2100	22000
Cycle time 10 mm (s)	7.9	12.4
Motor Power (kW/HP)	6.5 ²⁾ / 8.8	15.0 ²⁾ / 20.1
DIMENSIONS (LxWxH)		
Machine (mm)	775x1169x1455	1198x1877x1803
Hydraulic Unit (mm)	713x705x1060	1197x957x1252
Machine (inch)	30.5x46.0x57.9	47.2x73.9x70.9
Hydraulic Unit (inch)	28.0x27.8x41.7	47.1x37.7x49.3
WEIGHT (KG/LBS)		
Machine	875/1925	3500/7700
Hydraulic Unit	182/400	350/770

1) Theoretical with 10mm cycle

2) 3-phase



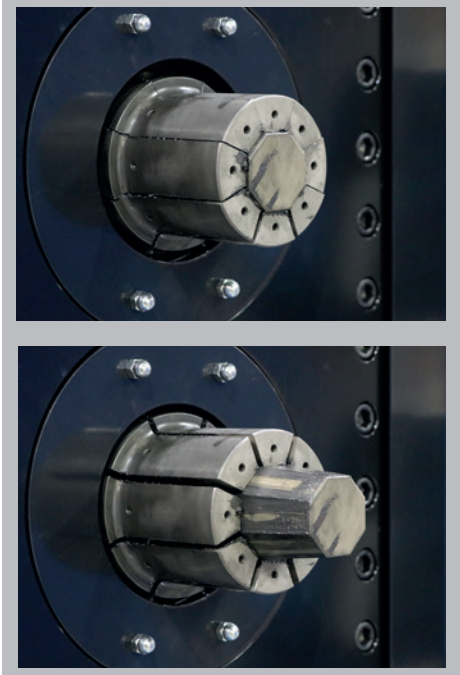
EF200

Finn-Power EF200 expansion machine is a perfect solution for expanding different sized and shaped tubes and pipes. Die sets for this machine are specifically designed for different applications based on customer needs.

TECHNICAL DATA	
Tube capacity, round (mm)	200
Tube capacity, square (mm)	120x200
Min. tube size (mm)	120
Expanding length (mm)	85
Max. wall thickness, basic steel (mm)	10
Max. expanding die movement (mm)	15
Expansion force (kN)	2100
Cycle time 10 mm (s)	7.9
Motor Power (kW/HP)	6.5 ²⁾ / 8.8
DIMENSIONS (LxWxH)	
Machine (mm)	775x1169x1455
Hydraulic Unit (mm)	713x705x1060
Machine (inch)	30.5x46.0x57.9
Hydraulic Unit (inch)	28.0x27.8x41.7
WEIGHT (KG/LBS)	
Machine	875/1925
Hydraulic Unit	182/400

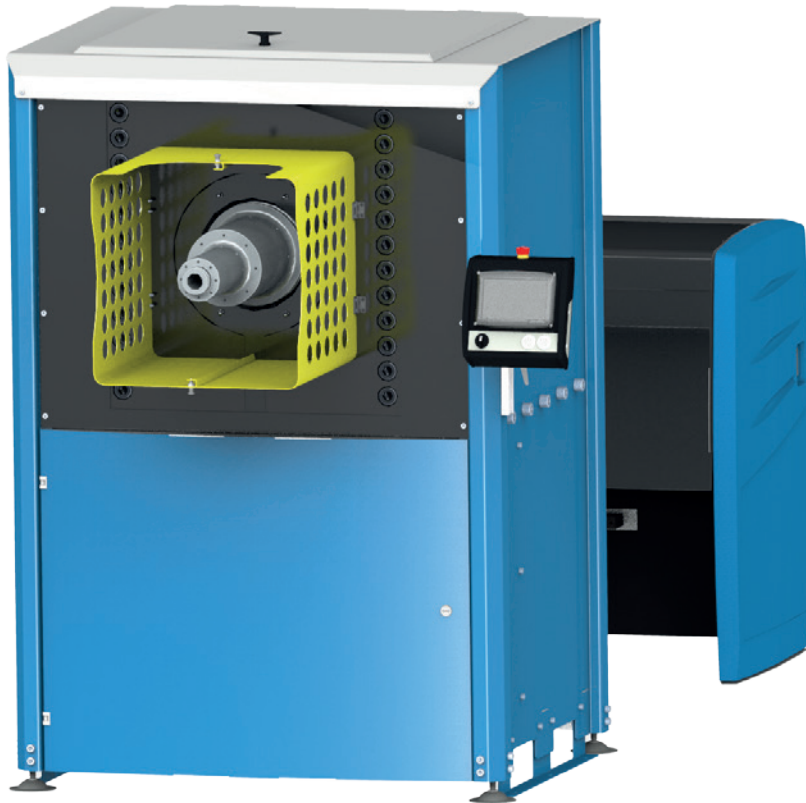
1) Theoretical with 10mm cycle
2) 3-phase

CONTROL	
ICC	
STANDARD FEATURES	
Auto greasing G3	
OPTIONS	
Foot pedal	
Pressure expansion ICC1	
Step expansion ICC2	
Quality control ICC3	
Graphical quality control ICC4	
Interface pack ETH (Communication TCP/IP & UDP)	
A3 signal (cable not included)	
Bar Code Reader BCR	
Oil cooler **	
Oil Condition Monitoring OCM	
Industry 4.0	
Safety Scanner	
** Will have impact on motor size, hydraulic unit dimensions and weight.	



FINN-POWER machines are easy to operate and maintain. You can choose from various options to increase the performance, quality control and integration into your existing production management systems.

FURTHER INFO ON OPTIONS, PLEASE REVERT TO SPECIFIC PRODUCT CARD



EF300

Finn-Power EF300 expansion machine is a perfect solution for expanding different sized and shaped tubes and pipes. Die sets for this machine are specifically designed for different applications based on customer needs.

TECHNICAL DATA

Tube capacity, round (mm)	300
Tube capacity, square (mm)	300x300
Min. tube size (mm)	200
Expanding length (mm)	200
Max. wall thickness, basic steel (mm)	30
Max. expanding die movement (mm)	15
Expansion force (kN)	22000
Cycle time 10 mm (s) ¹⁾	12.4
Motor Power (kW/HP)	15.0 ²⁾ /20.1

DIMENSIONS (LxWxH)

Machine (mm)	1198x1877x1803
Hydraulic Unit (mm)	1197x957x1252
Machine (inch)	47.2x73.9x70.9
Hydraulic Unit (inch)	47.1x37.7x49.3

WEIGHT (KG/LBS)

Machine	3500/7700
Hydraulic Unit	350/770

- 1) Theoretical with 10mm cycle
2) 3-phase

CONTROL

ICC

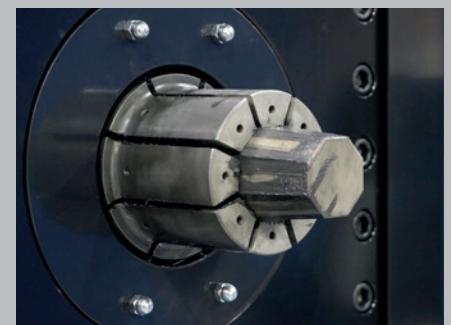
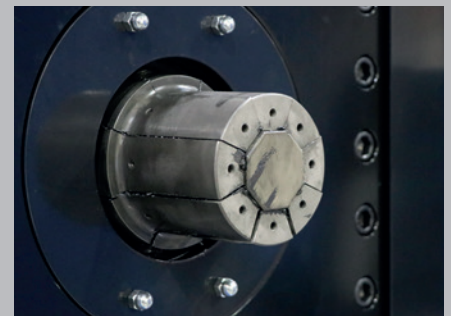
STANDARD FEATURES

Auto greasing G3

OPTIONS

Foot pedal
Pressure expansion ICC1
Step expansion ICC2
Quality control ICC3
Graphical quality control ICC4
Interface pack ETH (Communication TCP/IP & UDP)
A3 signal (cable not included)
Bar Code Reader BCR
Oil cooler **
Oil Condition Monitoring OCM
Industry 4.0
Safety Scanner

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



A detailed black and white photograph of a metal machine component, possibly a bracket or a part of a larger assembly. The component is made of a polished metal, likely aluminum or stainless steel, and features several circular holes and a hexagonal bolt. The lighting creates strong highlights and shadows, emphasizing the metallic texture and the precision of the manufacturing. The background is dark and out of focus, making the component the central focus of the image.

MACHINE MODELS



Z-MODEL

Zmodel is a configuration where crimping head and hydraulic unit are separated. Z-model provides freedom to place crimping head to optimal place based on different needs.

AUTOMATIC LINES AND ROBOTIC CELLS WITH NEED FOR

- Compact floor space requirement
- Flexible crimping head orientation
- Moving the crimping head

ERGONOMIC WORK CELL DESIGN AND SAFETY

- Optimizing table space and ergonomics
- Reducing work space noise level
- Hydraulic unit placement in separate room (e.g. pyrotechnic areas)

SERVICE VAN USE

- Optimizing weight balance by having hydraulic unit on the floor
- Maximizing table space



Z-MODEL AVAILABILITY

SERVICE	P16HP, P16AP, P20CS, P32CS
NUT & CABLE	CC22, CC26, NC20, NC30, NC40
SIDE FEED	SP100, SP350, SP1200



S-MODEL

S-models are designed for automated lines for faster crimping cycle time.

S-models require extra safety protection due to high closing speed defined by international regulations.

FP models are equipped with safety door and SP models with safety light curtain.

S-MODEL AVAILABILITY

SERIAL	FP20, FP120, FP140, FP145
SIDE FEED	SP100, SP350, SP1200





HB/HS-MODEL

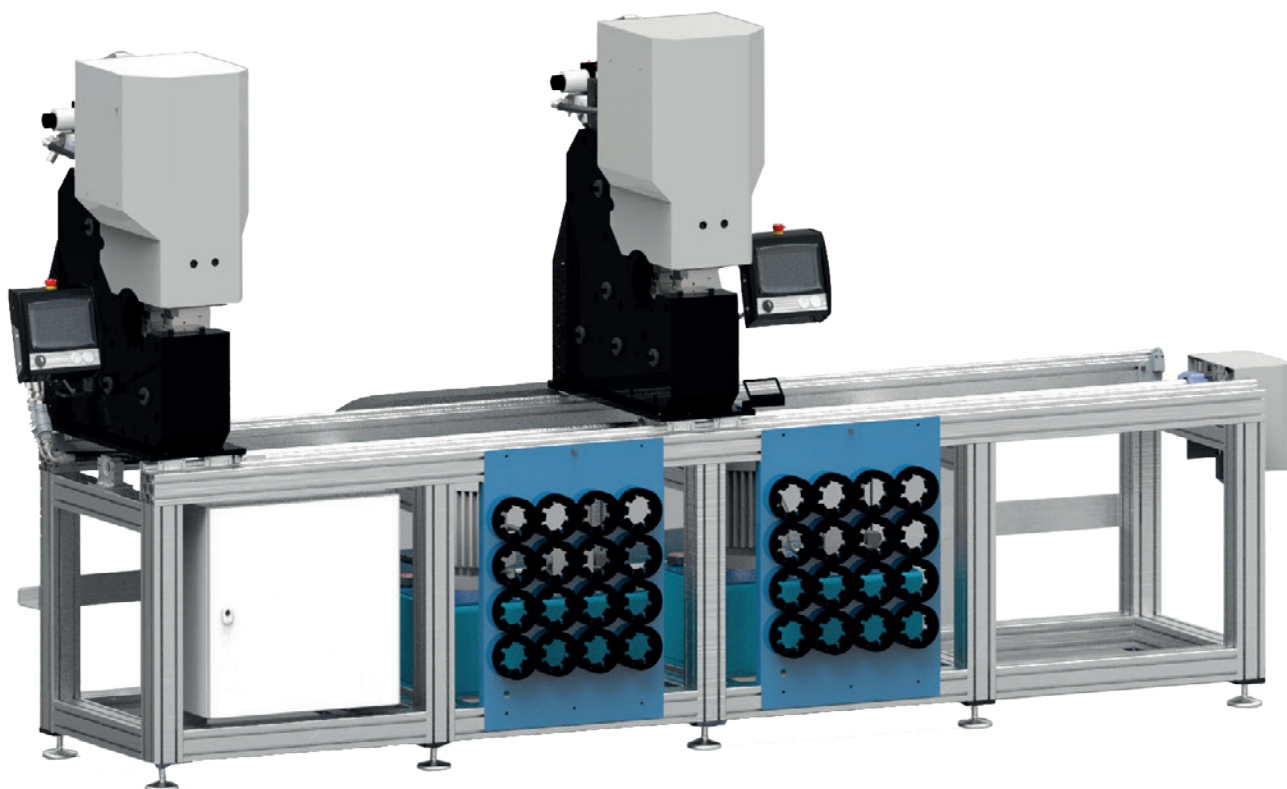
Horizontal Back (HB) and Horizontal Side (HS) -models offer different layout for standard machines. Different layouts provide optimal crimping head position for different applications.

HB-model is optimal for small but heavy products which can be fed below with hydraulic jack or from top with manipulator.

HS-model is ideal when crimping head position needs to be as low as possible. For example feeding long tubes and pipes via feeding rail.

HB/HS-MODEL AVAILABILITY

SERIAL	FP20, FP120, FP140, FP145, FP160, FP165, FP170, FP175
--------	---



D-MODEL

Finn-Power double head crimping machines allow crimping both ends of the product at the same time.

Basic configuration is one head stationary and second head moveable on rails.

Movement can be manual or electric and distance between heads as per customer request.

Each crimper is equipped with its' own ICC-control and machines can be operated individually or simultaneously with double hand operation.



DOUBLE HEAD MODELS AVAILABILITY

CRIMPING	SP350 & SP1200
	Other D-models as per request

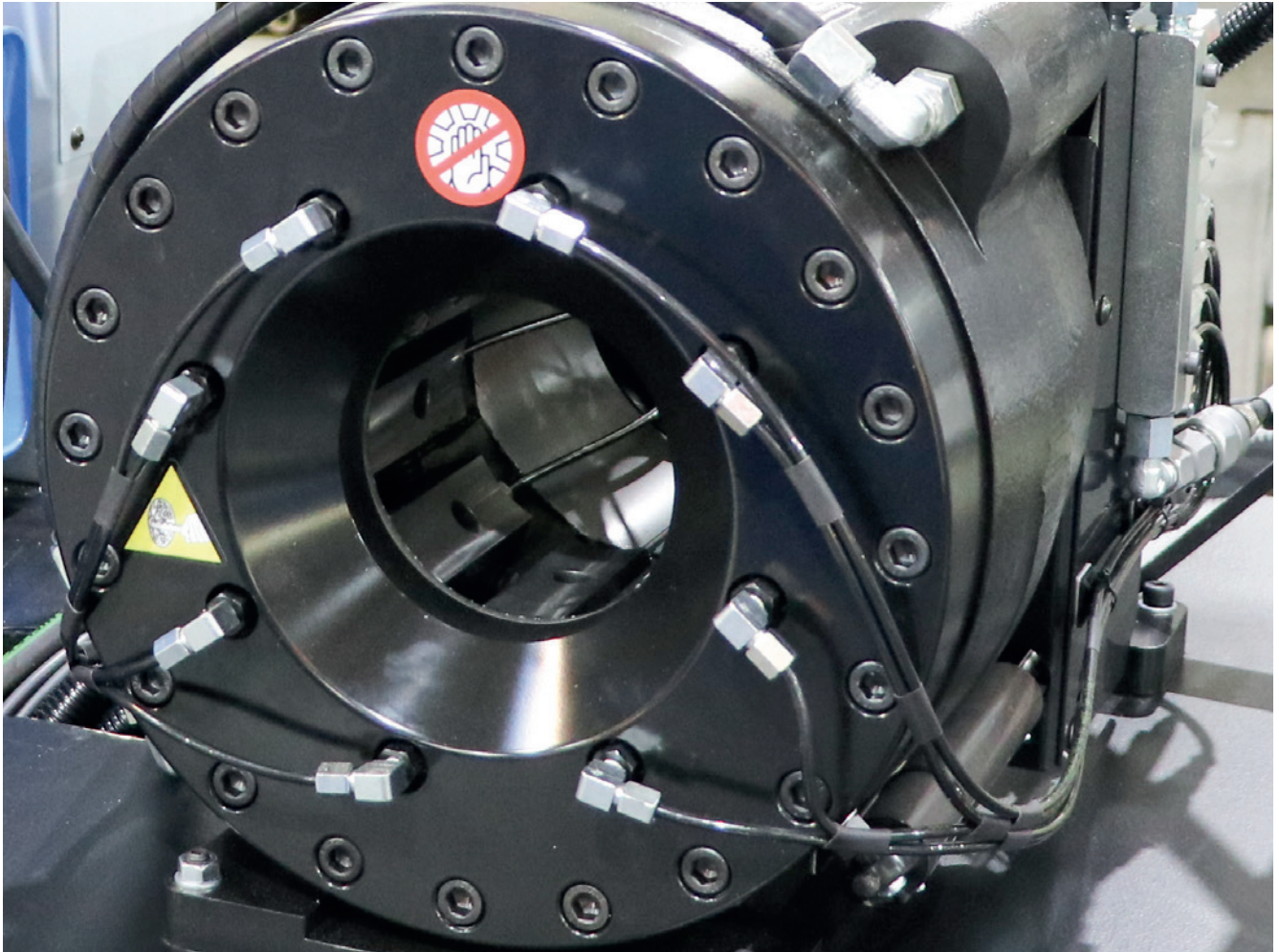
MINIMUM DISTANCE BETWEEN HEADS, CENTER TO CENTER (MM/INCH)

SP350D	138 / 5.43
SP1200D	328 / 12.91





MACHINE OPTIONS



AUTO GREASING

Greasing is a fundamental function for any mechanical structure with high forces, stress or load.

Because of greasing Finn-Power machines have the best accuracy, repeatability and lifetime in the world.

Automatic greasing saves time and ensures constant work flow without interruptions. Automatic greasing extends the service interval. For automated lines auto greasing is a must.

Greasing reduces friction and ensures that maximum capacity is always in use. Greasing interval is adjustable.

Requirements:

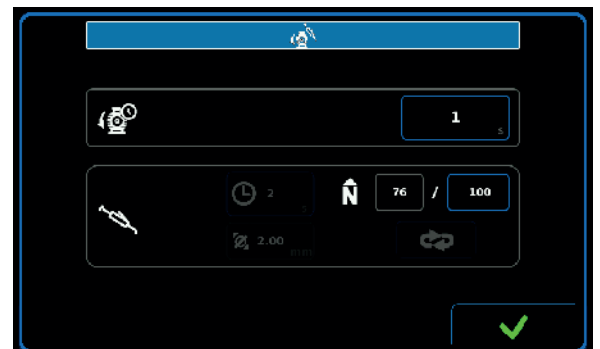
- Air pressure

Notes:

- Always use genuine Finn-Power grease
- Grease for food related industries also available



AVAILABILITY	
SERIAL	FP20, FP120, FP140, FP145
HEAVY DUTY	FP160, FP165, FP170, FP175, KC800, KC1200, KC2000
SIDE FEED	SP100, SP350, SP1200
NUT & CABLE	NC20, NC30, NC40, NC60, CC22, CC24, CC26



BACKSTOP

Backstops are used for easy positioning of the part and ensuring every single piece is crimped the same way. Backstop speeds up the crimping process.



ELECTRICAL BACKSTOP

Electrical backstop comes as a standard for all FP- and CC-series machines. Electrical backstop starts the crimping cycle by pressing a part against the backstop. Electrical backstop enables holding the part with both hands.



MECHANICAL BACKSTOP

Mechanical backstop helps positioning the part for crimping. With mechanical backstop you need to activate the crimping cycle by pressing the buttons or using the foot pedal.



BAR CODE READER

Bar Code Reader (BCR) is designed to speed-up ICC usage. BCR is connected to ICC with USB. As default BCR supports Code-39 full ASCII and Data Matrix formats. Other formats available on request. BCR reads the barcode index and activates wanted function.



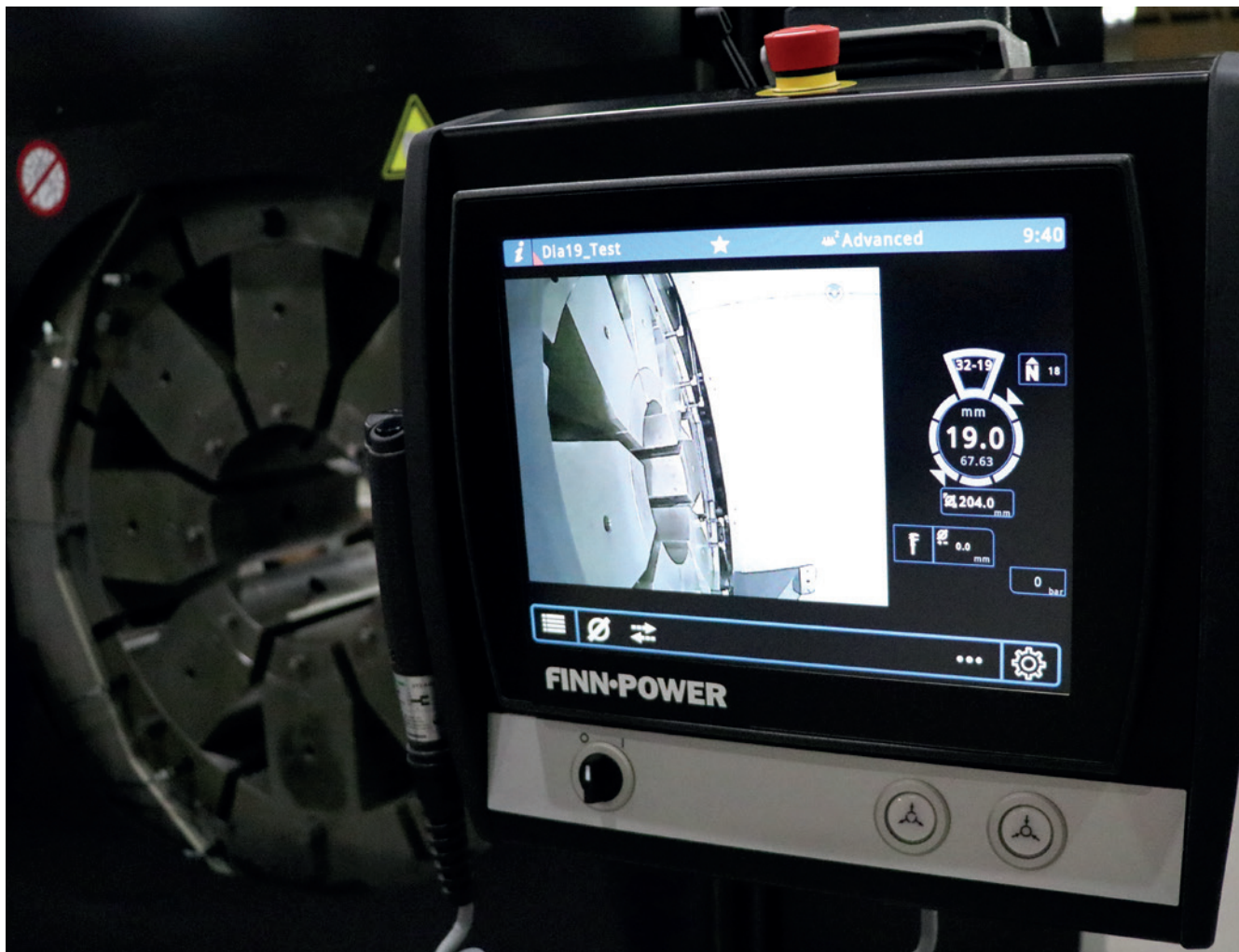
Data Matrix



Code-39 Full ASCII

Different ways to use barcode reader:

- User login
- Job queue (activates job from job queue)
- Automatic job (activates wanted recipe)
- Job ID (possibility to add unique job ID for each crimp)



CAMERA

Camera option provides better visibility to the backside of the machine. Camera helps positioning of the part but also provides extra safety.

Camera option available for FP160-FP175 and KC-series.

Camera option requires 12" ICC-control and C2 control arm.

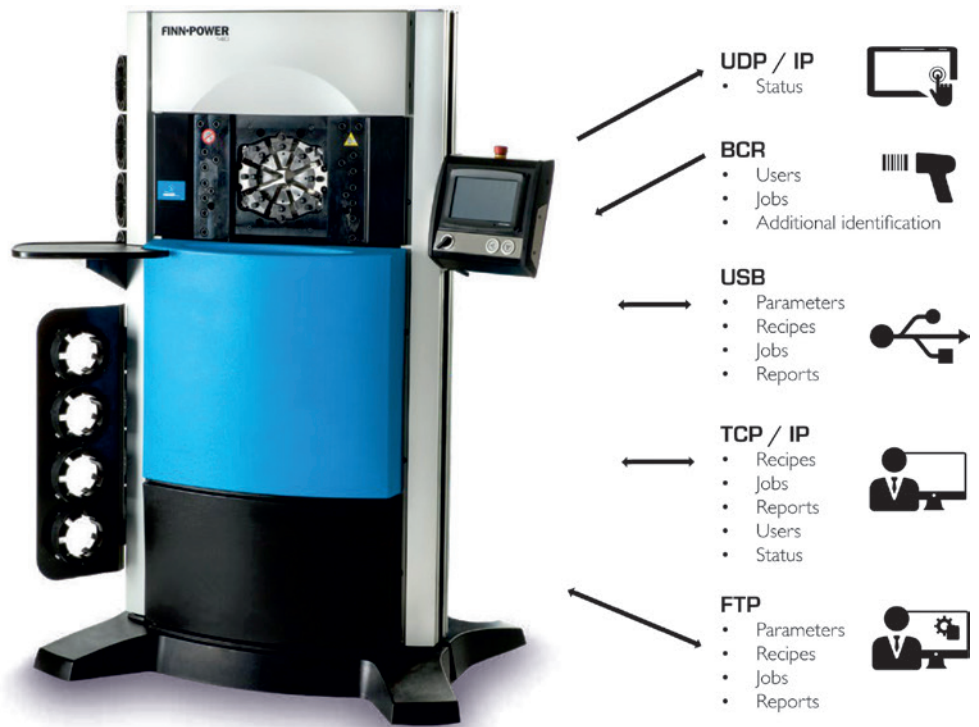


CONNECTIVITY

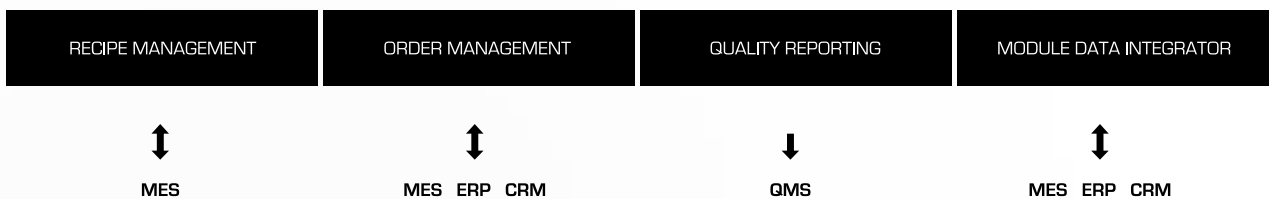
ICC connectivity package helps to connect and communicate with all other systems in your factory.

Electronic recipe management enables creating and maintaining recipes remotely. ICC provides online job queue management as well as tracking of work progress.

TCP/IP	UDP/IP	FTP	A3 SIGNAL
<ul style="list-style-type: none"> • Connection oriented protocol, checks and resends messages if needed. • Connections to ERP, MES, robotic systems, other external control or reporting systems. • Can be connected, for example, with Siemens, Beckhoff, Allen Bradley, Omron, Schneider Electric, and other brand PLCs. • ICC acts as TCP client and connects to PC/PLC server • Control recipes, work queue, manage work orders and user accounts, demonstrate and activate jobs for the machine, read machine status and quality control reports. 	<ul style="list-style-type: none"> • Connectionless protocol. Sends the information without checking whether or not anyone receives it. • The user can collect data from all machines at the factory and get charts of utilization rates, production volumes, efficiency, etc. Tracks and alerts can be made for long waiting times or pressure limits. 	<ul style="list-style-type: none"> • Client-server protocol that relies on two communications channels between client and server. • Using FTP, a client can upload, download, delete, rename, move and copy files on a server. • Copying files and managing recipes is easy. 	<ul style="list-style-type: none"> • Optional cable connection • Enables outside control to activate crimping cycle and receive info when crimping diameter have been reached • Automated lines • Enables sending ICC counter, greaser and ICC3/4 alarms to outside control and resetting them remotely.



INTEGRATIONS TO IT-SYSTEMS





FOOT PEDALS

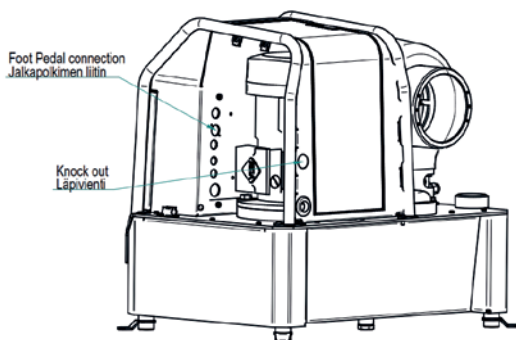
Standard foot pedal (**single pedal**) is available for all machines except P32NMS and P20NMS and service line machines.

Standard feature for FP160/165, FP170/175, KC800, KC1200, KC2000, SP100, SP350, SP1200, SP2000 and NC machines.

Electrical backstop and foot pedal share the same J2 connector. They cannot be used simultaneously. On ICC controlled machines AUX-mode is used for foot pedal and electrical backstop operation.

SINGLE FOOT PEDAL CAN BE INSTALLED AS AN OPTION FOR

- 120ICC / FP120ICC
- 140ICC / FP140ICC
- FP20ICC
- FP145ICC
- CC22 / 26
- 20MS / 32MS
- P51 / P60



The foot pedal enables holding the hose assembly with both hands. In P32NMS and P20NMS machines foot pedal is **double pedal**.

One pedal is for crimping and the other one for opening. When foot pedal is connected, dies will move as long as the foot pedal is pressed or till the set crimping diameter has been reached. Crimping can be interrupted by lifting the foot from the pedal. After reaching the crimping diameter dies are opened by using the other pedal.

In P32NMS and P20NMS machines double pedal is possible **only as factory installation**.

Foot pedal part numbers:
 676057 for 20MS and 32MS
 676906 for P20NMS and P32NMS
 691563 for all other machines





GREASE

Greasing is a fundamental function for any mechanical structure with high forces, stress or load.

Finn-Power Grease has been developed especially for crimping machines and it has very high resistance to extreme forces and temperatures.

Because of greasing Finn-Power machines have the best accuracy, repeatability and lifetime in the world.

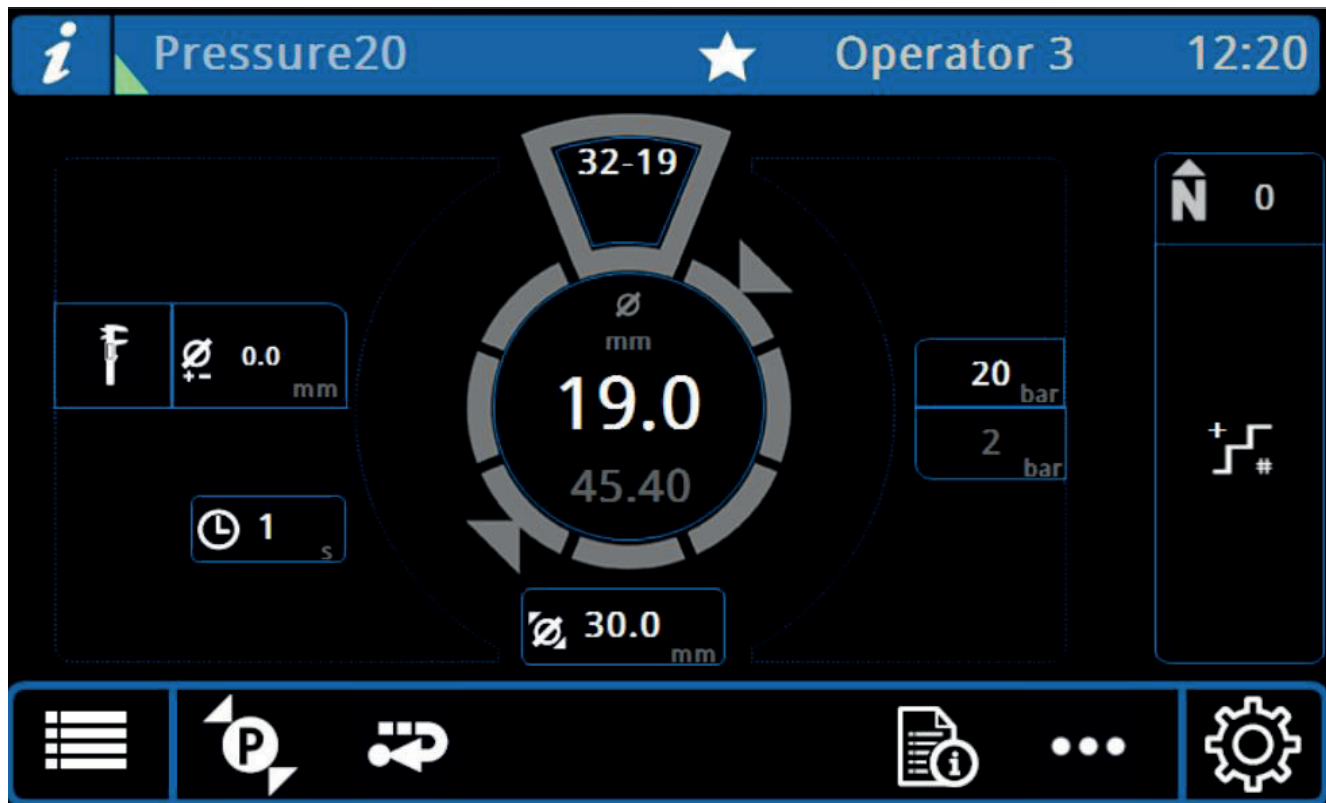
Greasing reduces friction and ensures that maximum capacity is always in use.

Notes:

- Always use genuine Finn-Power grease
- Grease for food related industries also available

Order numbers:

- 019302 400 g tube
- 019302/12 12 x 400 g tube in a box
- 019302/18kg 18 kg bucket



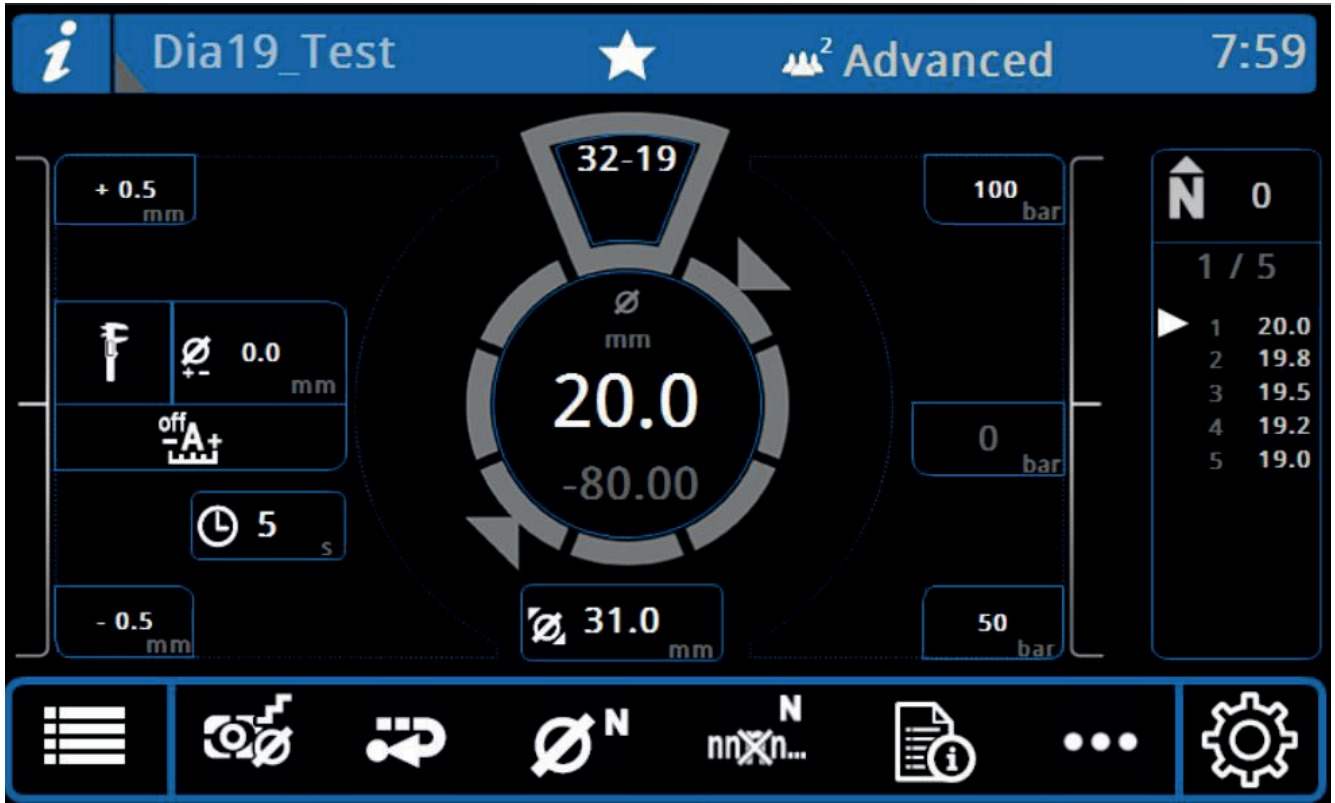
ICC1

PRESSURE CRIMPING

ICC1 pressure crimping option enables controlling the crimping based on pressure instead of dimension.

Pressure crimping is crucial option when crimping high sensitivity products such as fiber glass rods or light and thin ferrules. Components with variable dimensions such as wires, cables and casted parts are typically crimped with pressure crimping option to required tightness.





ICC2

STEP CRIMPING



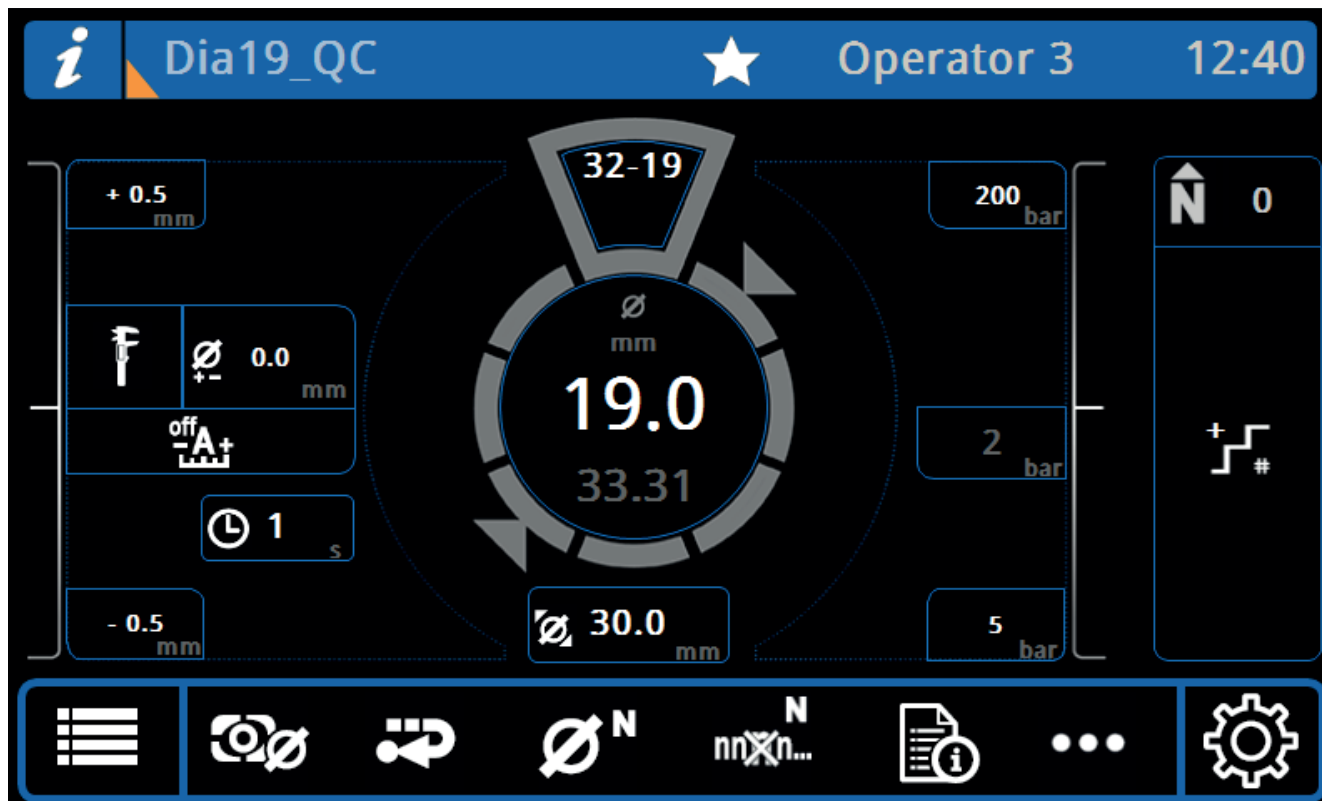
ICC2 step crimping option allows reaching the target with multiple steps.

It is widely used for complex automotive hoses ensuring every fitting in the assembly will be crimped. It also allows different parameters for each step.

Other suitable applications for step crimping are:

- Products with big dimensional reduction (start vs end dimension)
- Materials with tendency to collapse or to flow between die sets
- Products with high spring back
- Need for extra smooth crimping surface





ICC3

QUALITY CONTROL

ICC3 is automatic quality control method with alarm function. ICC3 measures the end diameter and end pressure which need to be within defined values.

ICC3 removes the need for the manual measurement of the product and records all the crimping parameters and data.

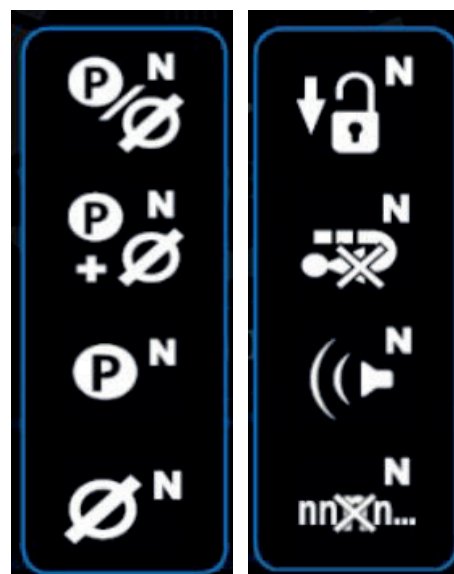
Different count modes:

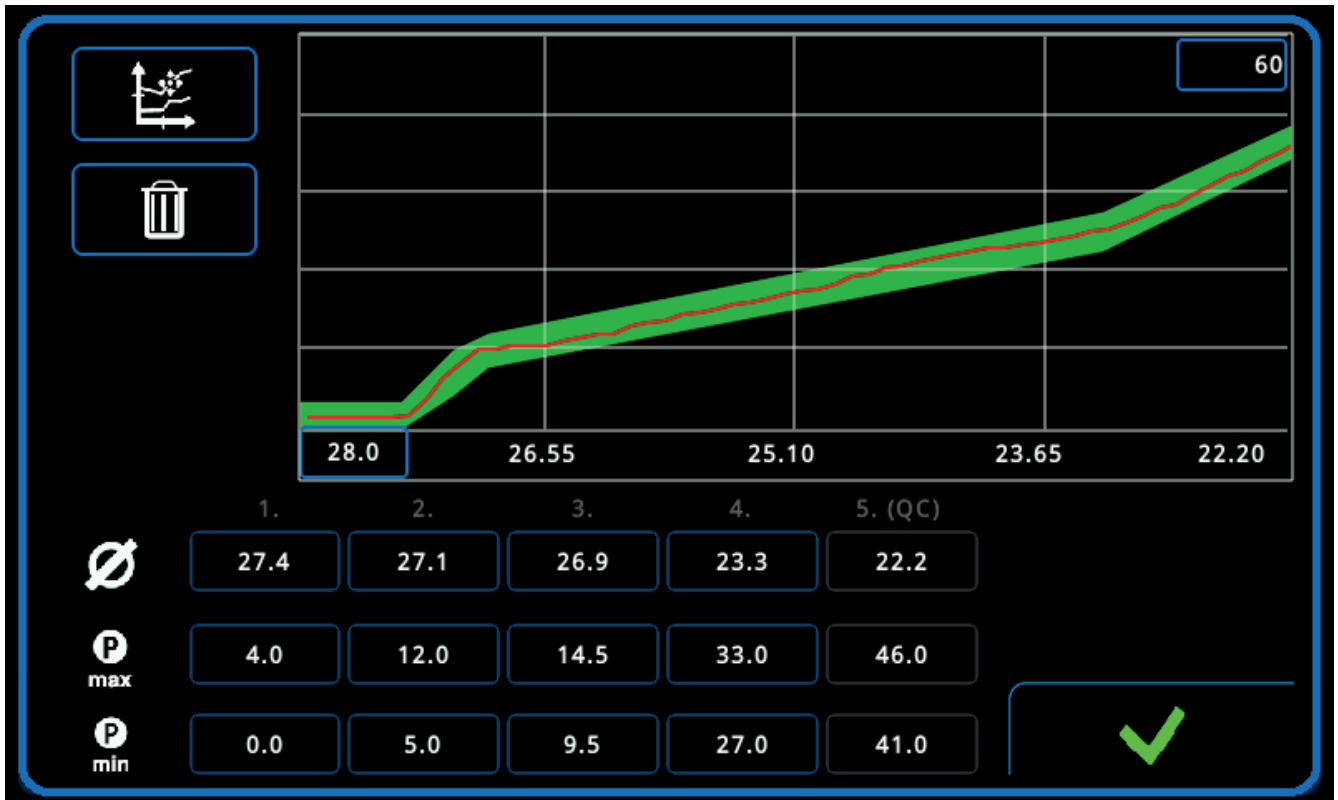
- Pressure or diameter
- Pressure and diameter
- Pressure only
- Diameter only

ICC3 increases the production efficiency and prevents faulty parts ending up to final customers.

Different alarm modes:

- Counter value not changed
- Sound
- Die set lock
- Machine lock (operator can not remove the part)





ICC4

GRAPHICAL QUALITY CONTROL

ICC4 is patented integrated online graphical quality control. ICC4 measures crimping from start to end and can detect problems during the whole crimping process. ICC4 stops the process at any point when problem occurs. ICC4 saves automatic quality reports with crimping parameters and crimping data.

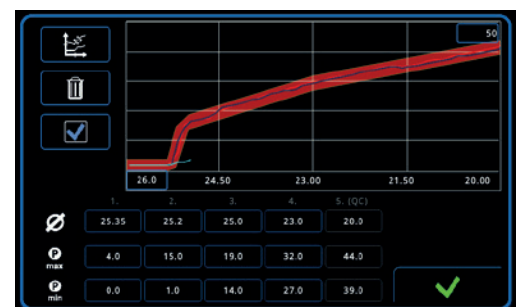
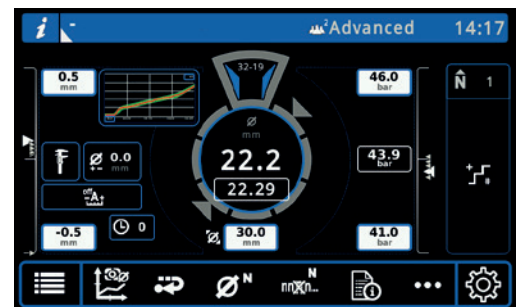
ICC4 increases the production efficiency and prevents faulty parts ending up to final customers. ICC4 also reduces the need for additional testing.

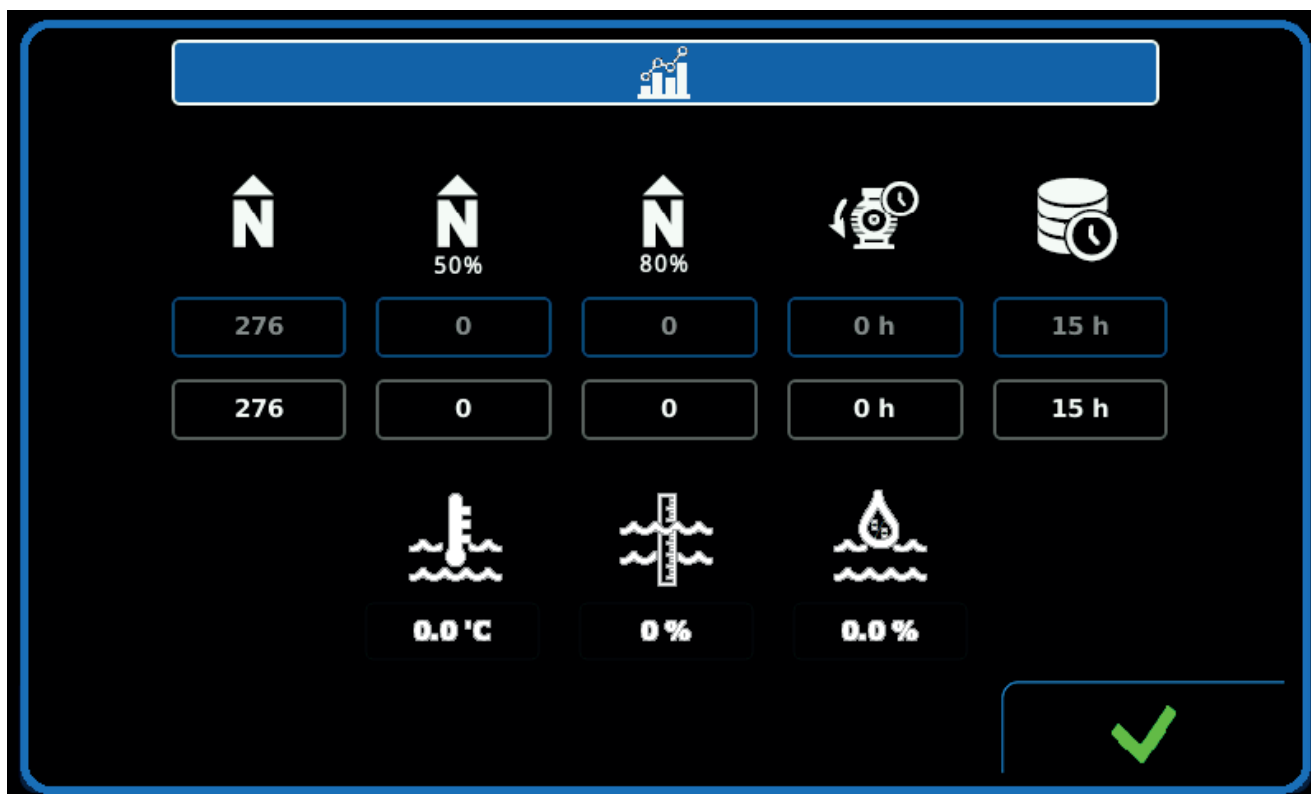
Different count modes:

- Pressure or diameter
- Pressure and diameter
- Pressure only
- Diameter only

Different alarm modes:

- Counter value not changed
- Sound
- Die set lock
- Machine lock (operator can not remove the part)





OIL COOLER

Finn-Power oil cooler has been designed for high temperature working environments and for high volume non-stop production. Oil cooler keeps the oil temperature optimal even in harsh conditions.

Available for all FP-, SP-, NC- and CC-series machines.

Note: Oli cooler has impact on hydraulic unit size.



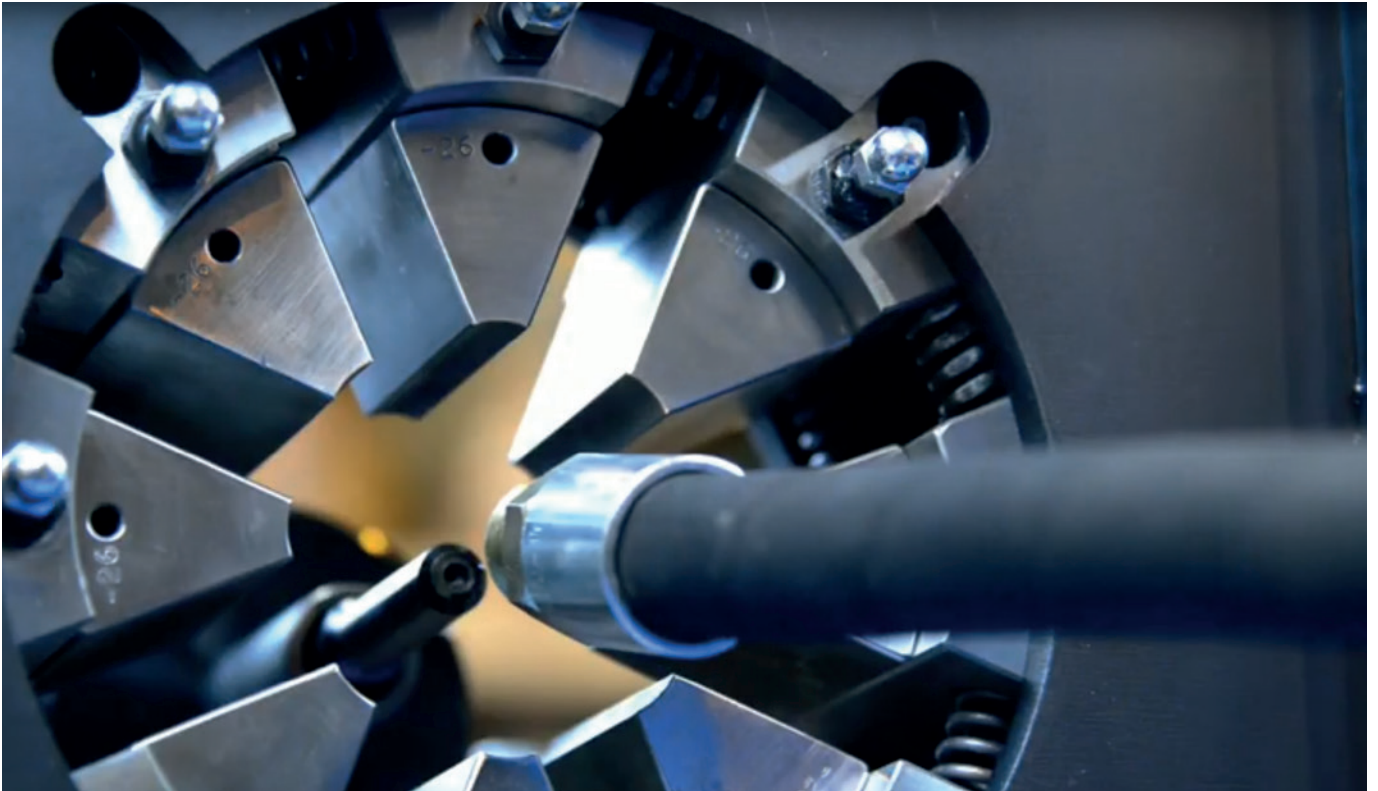
OIL CONDITION MONITOR

Finn-Power Oil Condition Monitor (OCM) is developed for monitoring oil condition.

OCM measures oil temperature, level and water %. It also measures the cleanliness of the oil and detects possible filter blocking.

Available for all machines with ICC-control.

Note: OCM is typical requirement for Industry 4.0.



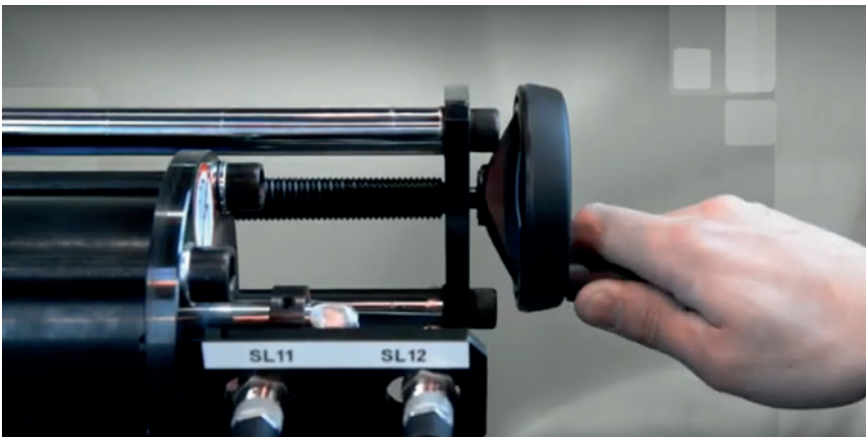
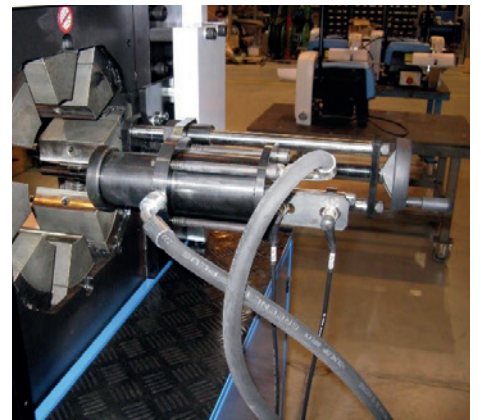
PINNING SUPPORT MANDREL

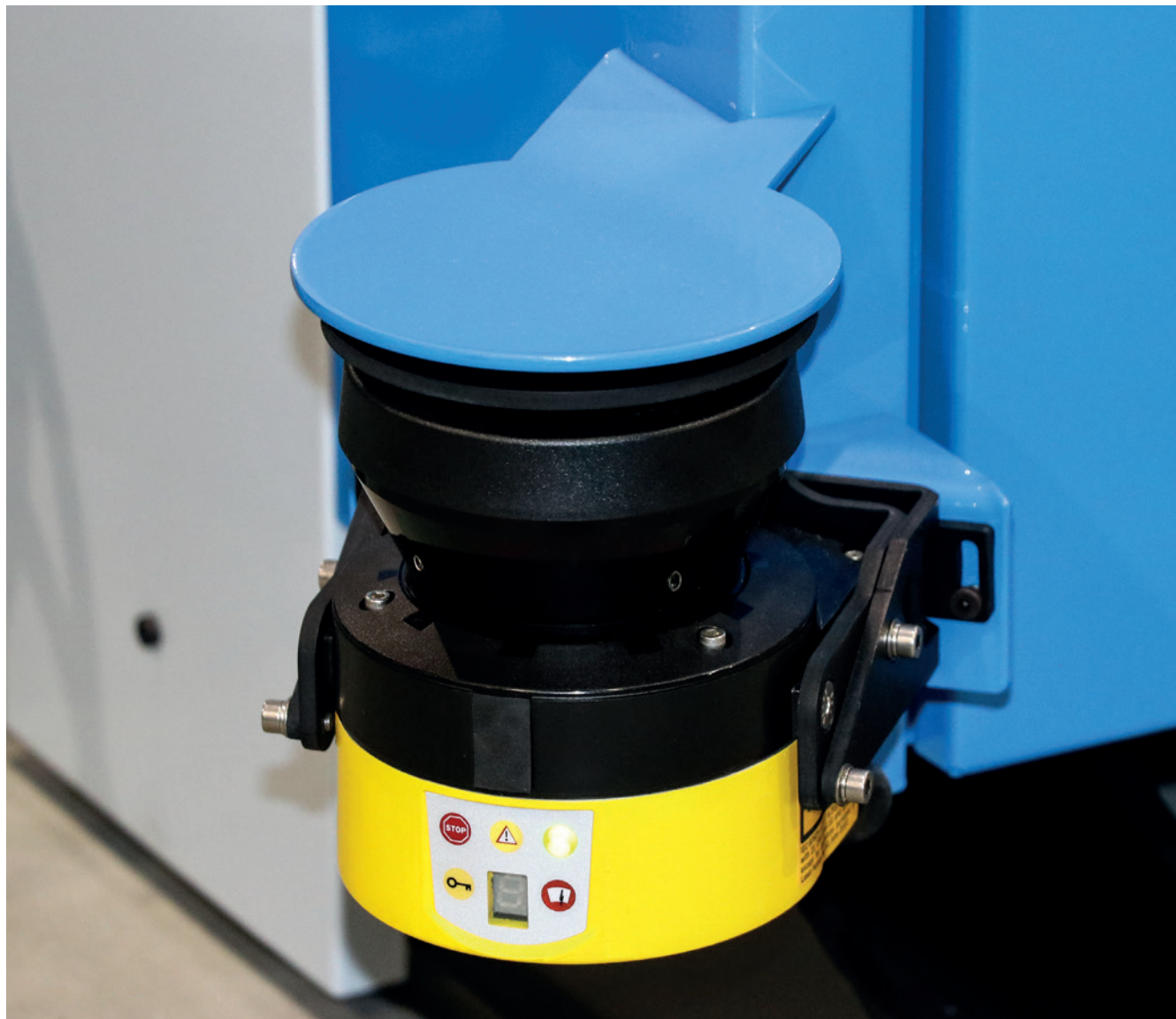
Pinning support mandrel is designed to support component inner shape and diameter.

The mandrel will be automatically pulled out after the crimping. It will also ensure correct positioning for the component. Stroke range can be adjusted by a sensor ring.

PINNING IS AVAILABLE FOR

FP20 / FP120 / FP140 / FP145 / FP160

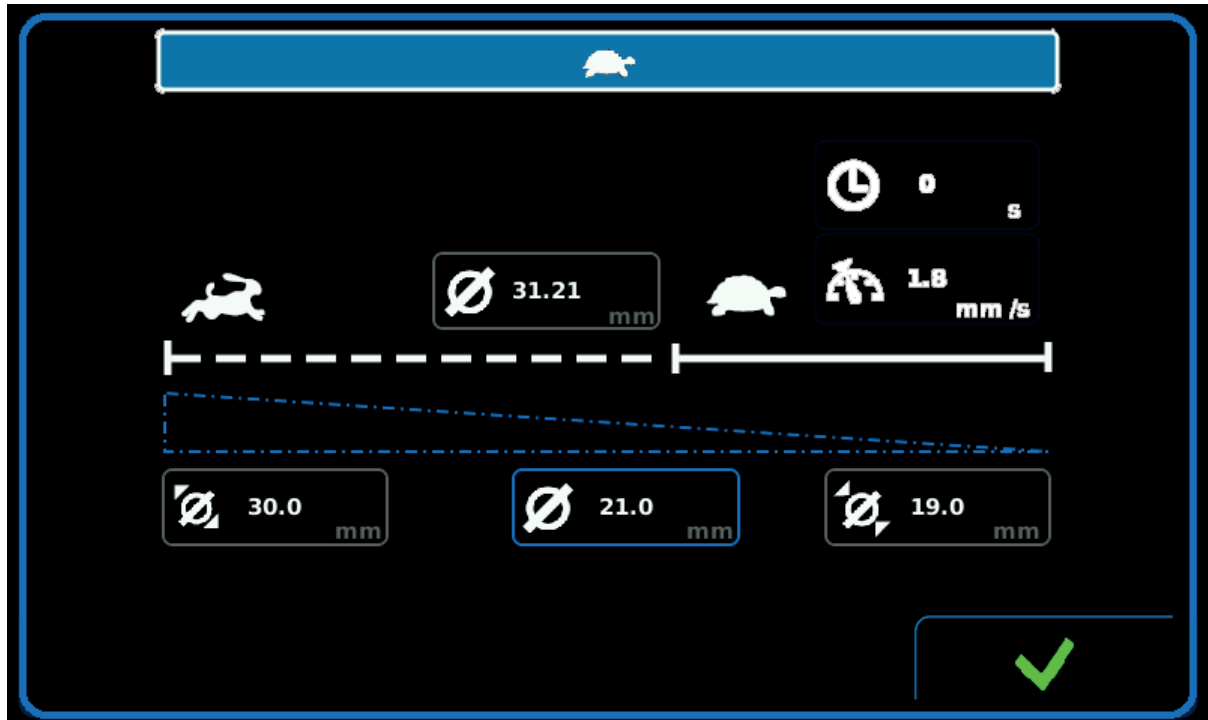




SAFETY SCANNER

Safety scanner is easy to integrate to any FP-series machine. Safety scanner increases the work place safety by protecting the crimping area with defined safety zone. Unwanted person entering to safety zone prevents crimping machines operations.

Safety scanner is ideal for larger FP- and KC-series machines with operator blind spots or automated crimping solutions with robotic arms or manipulator part feeding. Various operational modes available based on customer requirements.



SPEED ADJUSTMENT

The speed adjustment option is designed for sensitive materials or components requiring slower deformation speed than standard.

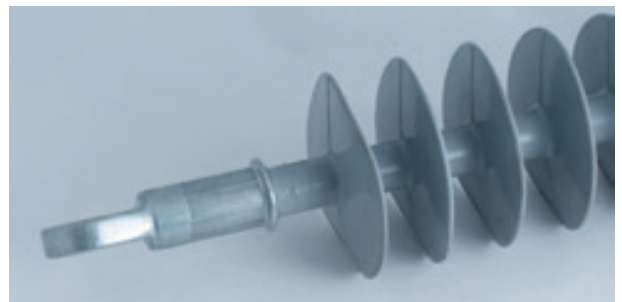
The crimping speed can be adjusted to give time for material to flow and deform in demanding fittings and other sensitive crimps and materials. The speed can be adjusted steplessly as slow as 0,1 mm/s, but machine can also be operated with normal speed.

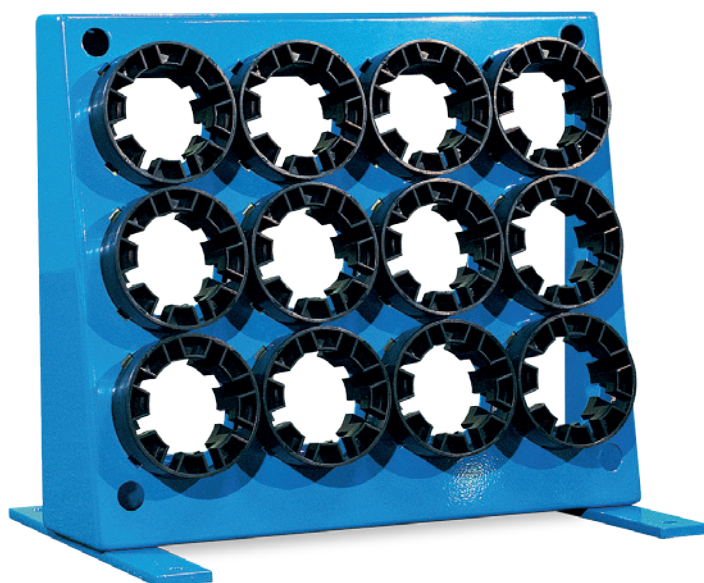
The speed adjustment option is available for all Finn-Power FP- and KC-series machines.

In addition to speed adjustment option there is a standard ICC feature which enables adjustment of time when changing from closing speed to crimping speed.

APPLICATIONS WHERE SLOWER CRIMPING SPEED IS NEEDED TO ENSURE PROPER MATERIAL DEFORMATION:

- Ultra-high pressure hoses
- Titanium fittings
- Electrical insulators
- Other sensitive materials



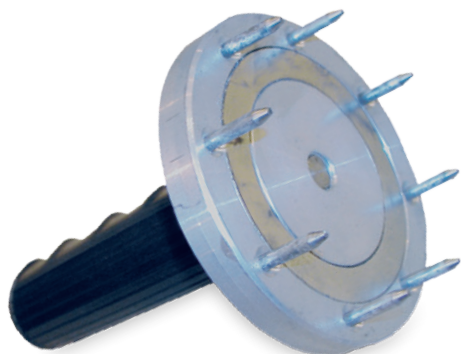


TOOL BASE & DIE SET RACK

Tool base and die set rack are designed for P-series machines for storing the tools. Tool base is a table capable of holding the machine and die set rack is a stand alone rack for tools only.

20-series tool base and die set rack can store 12 die sets and 32/51/60-series 16 die sets.

Tool base and die set rack comes always with Quick Change Tool.





SMART DIE RACK

Smart Die Rack is designed to remove human errors in die set change process.

Smart Die Rack locks all the die sets and allows user to pick up only the correct die set required by ICC control.

Correct die set and empty die set holder are indicated with light to ease up the process.

Combine Smart Die Rack with other advanced ICC quality options and your production is one step closer to become bullet proof.

Smart Die Rack is design for 32-series die sets only and it requires ICC control.

SMART DIE RACK (FOR 8 DIE SETS) AVAILABILITY

PRODUCTION	FP120, FP140, FP145
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SMART DIE RACK (FOR 16 DIE SETS) AVAILABILITY

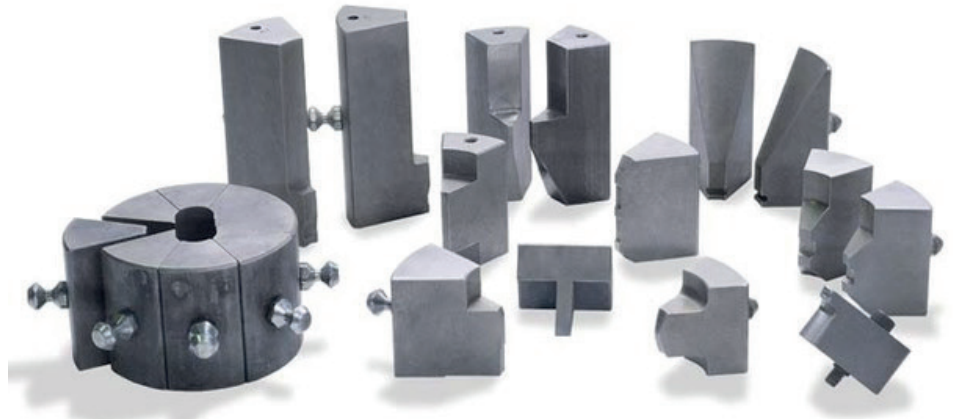
PRODUCTION	120, 140 145, FP120, FP140, FP145, FP160, FP165, FP 170, FP175
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DIE SETS



DIE SETS



DIE SET 16-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18212/10	10	55	10.0-12.0
18212/12	12	55	12.0-14.0
18212/14	14	55	14.0-16.0
18212/16	16	55	16.0-19.0
18212/19	19	55	19.0-23.0
18212/23	23	55	23.0-27.0
18212/27	27	65	27.0-31.0
18212/31	31	65	31.0-38.0

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

DIE SET NC20-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18546/12	12	3	12.0-16.0
18546/16	16	4	16.0-22.0
18546/22	22	4.5	22.0-27.0
18546/27	27	5	27.0-34.0
18546/34	34	5	34.0-41.0
18546/41	41	5	41.0-49.0

DIE SET CC22

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18015/10	10	50	10.0-12.0
18015/12	12	50	12.0-14.0
18015/14	14	50	14.0-16.0
18015/16	16	50	16.0-19.0
18015/19	19	50	19.0-23.0
18015/23	23	50	23.0-27.0
18015/27	27	50	27.0-31.0
18015/31	31	50	31.0-36.0
18015/36	36	50	36.0-41.0
18015/41	41	50	41.0-47.0
18015/47	47	50	47.0-54.0

DIE SET NC30-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
702044/12	12	3	12.0-14.0
702044/14	14	3	14.0-16.0
702044/16	16	4	16.0-19.0
702044/19	19	4	19.0-22.0
702044/22	22	4.5	22.0-26.0
702044/26	26	4.5	26.0-30.0
702044/30	30	5	30.0-34.0
702044/34	34	5	34.0-39.0
702044/39	39	5	39.0-45.0
702044/45	45	5	45.0-51.0
702044/51	51	5	51.0-57.0
702044/57	57	5	57.0-63.0

DIE SET 32-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/10	10	55	10.0-12.0
18506/12	12	55	12.0-14.0
18506/14	14	55	14.0-16.0
18506/16	16	55	16.0-19.0
18506/19	19	55	19.0-22.0
18506/22	22	70	22.0-26.0
18506/26	26	70	26.0-30.0
18506/30	30	70	30.0-34.0
18506/34	34	75	34.0-39.0
18506/39	39	75	39.0-45.0
18506/45	45	90	45.0-51.0
18506/51	51	90	51.0-57.0
18506/57	57	100	57.0-63.0
18506/63	63	110	63.0-69.0
18506/69	69	110	69.0-75.0
18506/74	74	110	74.0-80.0
18506/78	78	110	78.0-87.0

DIE SET 32-SERIES (for 145)

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18506/63/120	63	120	63.0-69.0
18506/69/120	69	120	69.0-75.0
18506/74/120	74	120	74.0-80.0
18506/78/120	78	120	78.0-87.0

DIE SET NC40-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
703955/63	63	5	63.0-69.0
703955/69	69	5	69.2-73.0
703955/73	73	6	73.0-81.0
703955/81	81	7	81.0-93.0
703955/93	93	7	93.0-105.0

DIE SET NC60-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
715345/100	100	8	100.0-108.0
715345/108	108	8	108.0-116.0
715345/116	116	9	116.0-126.0
715345/126	126	9	126.0-136.0
715345/136	136	10	136.0-146.0
715345/146	146	10	146.0-156.0

DIE SET SP100-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
701817/10	10	40	10.0-12.0
701817/12	12	40	12.0-14.0
701817/14	14	40	14.0-16.0
701817/16	16	40	16.0-19.0
701817/19	19	40	19.0-23.0
701817/23	23	40	23.0-27.0
701817/27	27	40	27.0-31.0
701817/31	31	40	31.0-36.0
701817/36	36	40	36.0-41.0
701817/41	41	40	41.0-47.0
701817/47	47	40	47.0-54.0

DIE SET 140-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84	84	110	84.0-92.0
18860/92	92	110	92.0-100.0
18860/100	100	110	100.0-108.0
18860/108	108	110	108.0-116.0
18860/116	116	110	116.0-124.0

DIE SET 145-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18860/84/120	84	120	84.0-92.0
18860/92/120	92	120	92.0-100.0
18860/100/120	100	120	100.0-108.0
18860/108/120	108	120	108.0-116.0
18860/116/120	116	120	116.0-124.0

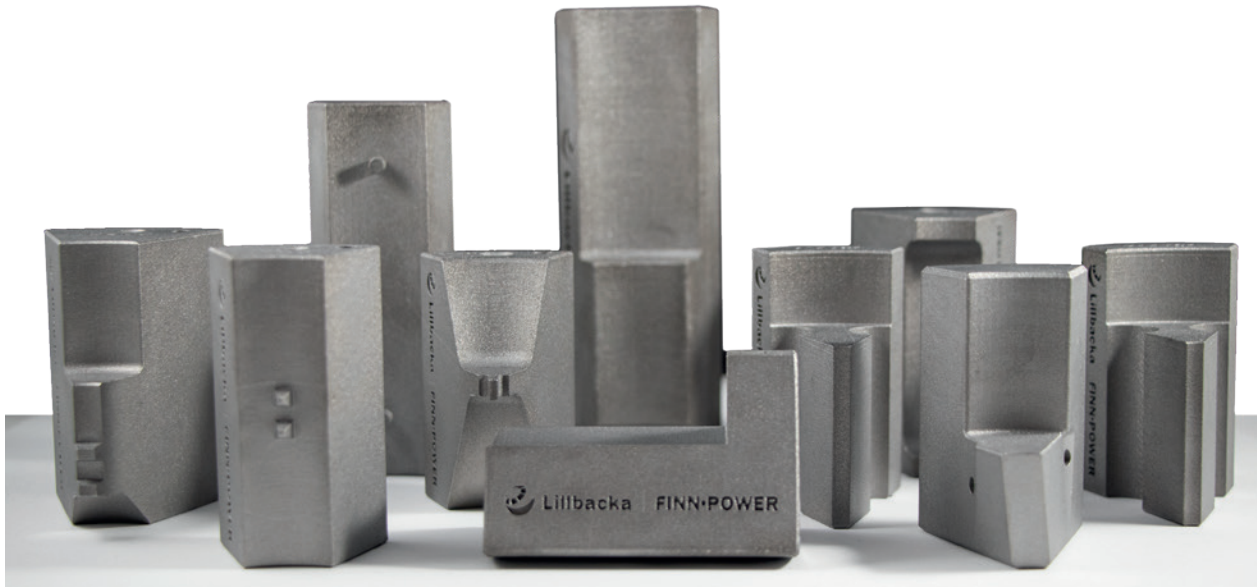
DIE SET 160-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
18852/84	84	116	84.0-92.0
18852/92	92	116	92.0-100.0
18852/100	100	116	100.0-108.0
18852/108	108	116	108.0-116.0
18852/116	116	116	116.0-126.0
18852/126	126	116	126.0-136.0
18852/136	136	116	136.0-146.0
18852/146	146	116	146.0-156.0
18852/156	156	116	156.0-166.0
18852/166	166	116	166.0-178.0
18852/178	178	116	178.0-190.0
18852/190	190	116	190.0-202.0

DIE SET 170-SERIES

DieSetNo	D (mm)	L (mm)	Crimp. range (mm)
405060/205	205	220	205.0-220.0
405060/220	220	220	220.0-235.0
405060/235	235	220	235.0-250.0
405060/250	250	220	250.0-270.0
405060/270	270	220	270.0-290.0
405060/290	290	220	290.0-320.0

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



SPECIAL DIES

GENERAL CRIMPING APPLICATIONS

As an addition to standard dies Lillbacka Finn-Power has special dies in stock for most common crimping applications. Including:

Different dimensions

- Small and big diameters
- Extra short and long die sets
- Customized shapes

Dies for applications

- Air Conditioning (AC)
- Hydraulic hose fittings
- Brake hoses
- Cable crimps
- Pipe crimps

SPECIAL CRIMPING APPLICATIONS

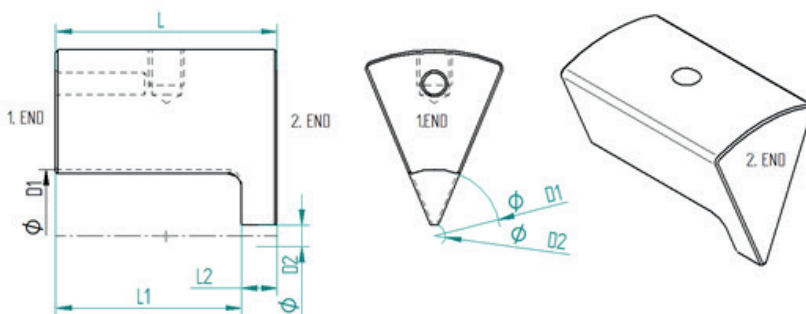
We also manufacture customer specific tooling to fit the individual needs of your application. Everything from modifying already working tool designs to creating totally new solutions for even the most demanding crimping challenges.

We provide customized dies machined and with industrial metal additive manufacturing (3D-printing).

We can manufacture dies

- Without geometrical manufacturing limits
- For the toughest use-cases
- With fast development, test and delivery cycles

ASK FOR OUR QUICK DELIVERY OPTION!





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