



SERVICE LINE, CUTTING AND
SKIVING MACHINES

THE BEST FIT TO SOLVE SERVICE NEED

 **Lillbacka** | **FINN•POWER**



HIGH QUALITY CRIMPING WITH OVER 40 YEARS OF EXPERIENCE

Each year Lillbacka Powerco Oy manufactures thousands of different types of crimping machines, as well as hose cutting and nut crimping machines. Approximately 95% of Powerco's production is exported through an international distributor network to more than 60 countries from the company factory in Finland. Finn-Power is known everywhere for its quality and long-lasting crimping machines, which are produced by Lillbacka Powerco with more than 40 years of manufacturing experience. We offer reliable, durable and accurate crimping machines to meet the requirements of different industries.

Finn-Power products offer the highest and most dependable quality thanks to the many years of experience in product design, engineering, development and manufacturing. Each machine is carefully tested and there's minimal need for calibration. The driving force behind the success of Finn-Power products lies in the many skilled professionals with customer service oriented attitude. Finn-Power machines represent high-quality Finnish engineering work at its best.

We make the quality for you!

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 40 years Lillbacka has proven to be successful, creative and diverse. At Lillbacka, dreams can indeed become reality.





FINN-POWER SERVICE LINE

Finn-Power service line machines are simple and straightforward in construction, easy to operate and highly reliable. Finn-Power service line includes a range of hand-operated and air pressure powered machines to battery-powered solutions that provide the most suitable solution for service needs. These machines are also easy to carry anywhere thanks to their light weight and compact size.





P16HP, P16HPZ, P16AP, P16APZ

FAST AND RELIABLE FOR FIELD SERVICE REPAIRS

Finn-Power P16 series crimping machines are compact, strong and reliable for any service crimping need. Their compact design allows efficient working and easy transport between any locations. P16 machines are easy to use and they produce high quality crimping day after day.

CONTROL

M MANUAL CONTROL

AVAILABLE MODELS

Z SEPARATED CRIMPING
HEAD AND BODY

HP HAND PUMP FOR EASY
FIELD SERVICE

AP AIR PRESSURE FOR EASY
FIELD SERVICE

DIE SET P16

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



P16HP - PORTABLE

FEATURES

Manually operated hydraulic crimping machine for repair workshops. Easy to use, lightweight and compact in size.



P16HPZ - FLEXIBLE

Machine is connected to pump with a flexible hydraulic hose that enables crimping in tight and difficult spaces.



P16AP - COMPACT

Suitable for workshops where compressed air is available. This lightweight machine can easily be carried by hand in need of relocation.



P16APZ - FLEXIBLE

Machine is connected to pump with a flexible hydraulic hose that enables crimping in tight and difficult spaces.

DIE SETS

P16

P16

P16

P16

CRIMPING RANGE (MM) ⁽¹⁾

10 - 45

10 - 45

10 - 45

10 - 45

CRIMPING RANGE (INCH) ⁽¹⁾

0.39 - 1.77

0.39 - 1.77

0.39 - 1.77

0.39 - 1.77

MAX OPENING (MM)

+20

+20

+20

+20

MAX CRIMPING FORCE (KN)

955

955

955

955

MAX CRIMPING FORCE (TON.)

95

95

95

95

NUMBER OF CRIMPS/HOUR ⁽²⁾

—

—

—

—

PUMP

HAND PUMP

HAND PUMP

AIR PUMP

AIR PUMP

PUMP

HAND PUMP

HAND PUMP

AIR PUMP

AIR PUMP

WEIGHT (KG)

26

28

28

26

WEIGHT (LBS)

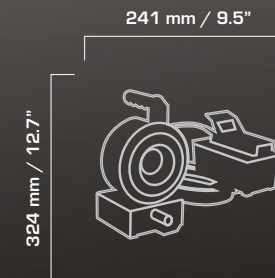
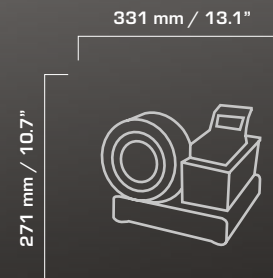
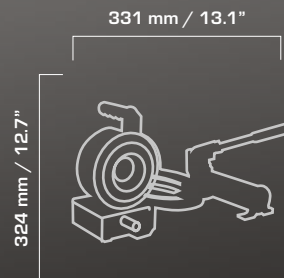
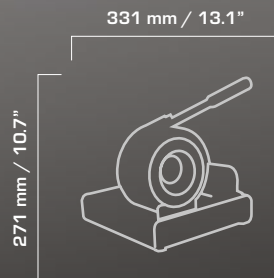
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62

62

57

MEASUREMENTS



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



P20HP, P20HPL, P20AR, P20APL

PORTABLE AND EASY WITH VERSATILE FEATURES

Medium-sized and efficient Finn-Power P20 machines are ideal for repair workshops and for various service production needs. P20 series introduces the ease of measuring the crimping operation by a light indication. Compact design enables easy transport to any location.

CONTROL

M MANUAL CONTROL

MS BEST SUITED FOR
SINGLE-PIECE PRODUCTION *

AVAILABLE MODELS

L EQUIPPED WITH ELECTRICAL
MEASURING DEVICE

HP HAND PUMP FOR EASY
FIELD SERVICE

AP AIR PRESSURE FOR EASY
FIELD SERVICE

OPTIONS

- QC-Tool
- Mechanical backstop device

* MS control available for P20HPL and P20APL.

DIE SET P20

Pno	Crimp. range	D	L
I8013/10	10.0 - 12.0	10	55
I8013/12	12.0 - 14.0	12	55
I8013/14	14.0 - 16.0	14	55
I8013/16	16.0 - 19.0	16	55
I8013/19	19.0 - 23.0	19	55
I8013/23	23.0 - 27.0	23	55
I8013/27	27.0 - 31.0	27	70
I8013/31	31.0 - 36.0	31	70
I8013/36	36.0 - 41.0	36	75
I8013/41	41.0 - 47.0	41	75
I8013/47	47.0 - 54.0	47	85
I8013/54	54.0 - 61.0	54	85



P20HP - COMPACT

Portable and manually operated crimping machine for workshops. Suitable for medium-sized hoses.



P20HPL - SIMPLE

Simple and easy to use in various crimping operations. Machine measures the crimping range and uses a light signal to indicate proper measurements for operation.



P20AP - PORTABLE

The most popular applications for these portable Finn-Power crimping machines are in repair workshops and in industrial maintenance units.



P20APL - ADVANCED

P20APL is an advanced version of P20 series and it is equipped with a compressed air appliance and a light signal to measure crimping quality.

FEATURES

DIE SETS

P20

P20

P20

P20

CRIMPING RANGE (MM) ⁽¹⁾

10 - 61

10 - 61

10 - 61

10 - 61

CRIMPING RANGE (INCH) ⁽¹⁾

0.39 - 2.40

0.39 - 2.40

0.39 - 2.40

0.39 - 2.40

MAX OPENING (MM)

+25

+25

+25

+25

MAX CRIMPING FORCE (KN)

1 370

1 370

1 370

1 370

MAX CRIMPING FORCE (TON.)

137

137

137

137

NUMBER OF CRIMPS/HOUR ⁽²⁾

—

—

—

—

PUMP

HAND PUMP

HAND PUMP

AIR PUMP

AIR PUMP

PUMP

HAND PUMP

HAND PUMP

AIR PUMP

AIR PUMP

WEIGHT (KG)

66

66

59

59

WEIGHT (LBS)

146

146

130

130

MEASUREMENTS

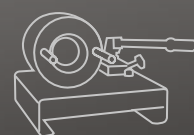
487mm / 19.2"

487mm / 19.2"

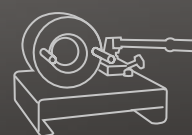
583mm / 22.9"

583mm / 22.9"

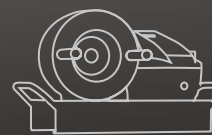
389 mm / 15.4"



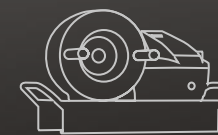
389 mm / 15.4"



345 mm / 13.6"



345 mm / 13.6"



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



P20CS, P32CS

FOR FIELD SERVICE AND EMERGENCY REPAIRS

The portability and usability in demanding devices in different industries make CS series machines suitable for field services and emergency repairs. These machines are simple and compact in construction, easy to operate, and can be easily carried to anywhere. P20CS and P32CS are equipped with 12V or 24V power cords and can be connected to battery power. The most popular applications for these Finn-Power crimping machines are in repair vehicles and in industrial maintenance units. These models are available for left- or right-hand operation.

CONTROL

MS

BEST SUITED FOR
SINGLE-PIECE PRODUCTION

AVAILABLE MODELS

CS

BATTERY-POWERED
MACHINE

Z

SEPARATED CRIMPING
HEAD AND BODY

OPTIONS

- QC-Tool
- Mechanical backstop device

DIE SET P20

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

DIE SET P32

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



P20CS - COMPACT

P32CS - STRONG

FEATURES

Compact size makes it easy to transport and carry anywhere. Suitable for field repairs and emergency needs.

Bigger opening allows crimping of larger sizes in service vehicles. Strength and portability make it the ideal machine for larger industrial equipment.

DIE SETS

P20

P32

CRIMPING RANGE (MM) ⁽¹⁾

10 - 61

10 - 87

CRIMPING RANGE (INCH) ⁽¹⁾

0.39 - 2.40

0.39 - 3.42

MAX OPENING (MM)

+25

+33

MAX CRIMPING FORCE (KN)

1 370

2 000

MAX CRIMPING FORCE (TON.)

137

200

NUMBER OF CRIMPS/HOUR ⁽²⁾

250

150

MOTOR (KW) ⁽³⁾

1.6 / 2.2

1.6 / 2.2

MOTOR (HP) ⁽³⁾

2.1 / 3.0

2.1 / 3.0

WEIGHT (KG)

83

117

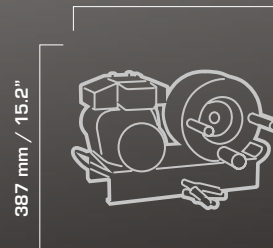
WEIGHT (LBS)

183

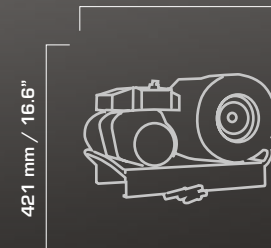
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MEASUREMENTS

583mm / 22.9"



626mm / 24.7"



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

2) Theoretical with 10 mm cycle.

3) 1-phase / 3-phase



COMPROMISE/
NOT AN
OPTION



FINN-POWER CUTTING MACHINES

Finn-Power offers a variety of cutting machines from service use to serial production. With Finn-Power cutting machines, cutting is fast and safe. These machines are efficient and they can provide optimal cutting speed for different hoses. Several cutting blade options provide solutions for the most challenging cutting operations. They can also be equipped with various accessories that are needed in the cutting processes.



CM30, CM35, CM30CS, CM30P

ERGONOMIC AND SAFE CUTTING FOR SERVICE USE

Finn-Power cutting machines offer efficient, safe and fast cutting for service use in workshops and service vans. They are easy and simple to use and equipped with fume exhaust connections, which offer pleasant working environment. CM series machines are electric cutting machines designed for cutting up to 2" braided hoses. A serrated blade is also included in the standard shipment. CM30 machines are also available as 12V and 24V (CS version).

AVAILABLE MODELS

CS

BATTERY-POWERED
MACHINE *

P

PNEUMATIC FOOT
PEDAL **

OPTIONS

- Smooth blade
- Brake
- Pneumatic foot pedal **

* Available for CM30 machines

** Only available for CM30 and CM35 machines



CM30 - FAST



CM35 - ERGONOMIC



CM30CS - SIMPLE



CM30P - HANDY

FEATURES

Electric cutting machine for cutting up to 2" braided hoses fast and safely. Designed for workshops. Equipped with a fume exhaust connection and a serrated blade.

CM35 is designed for two-handed operation with a mechanical foot pedal for effortless cutting.

Manually operated and designed for service use in workshops and service vans. Easy and simple to use and equipped with a fume exhaust connection.

Same features as in CM30. In addition, CM30P has a pneumatic foot pedal for two-handed operation.

HOSE CAPACITY, 1-2 WIRE

50,8

50,8

50,8

50,8

HOSE CAPACITY, 4 WIRE (MM)

31,75

31,75

31,75

31,75

HOSE CAPACITY, 1-2 WIRE

2

2

2

2

HOSE CAPACITY, 4 WIRE (INCH)

1 1/4

1 1/4

1 1/4

1 1/4

BLADE DIAMETER (MM)

300 x 3

300 x 3

300 x 3

300 x 3

SPEED OF BLADE, 50HZ (RPM)

2 750

2 750

2 750

2 750

SPEED OF BLADE, 60HZ (RPM)

3 370

3 370

3 370

3 370

AVAILABLE VOLTAGE (V)

—

—

12 / 24

—

MOTOR (KW) ⁽³⁾

2.2 / 3

2.2 / 3

2.2 ⁽⁴⁾ / 1.5 ⁽⁴⁾

2.2 / 3

MOTOR (HP) ⁽³⁾

3 / 4

4

3 ⁽⁴⁾ / 2 ⁽⁴⁾

3 / 2

WEIGHT (KG)

50

60

50 / 60

50 / 60

WEIGHT (LBS)

110

133

111 / 133

111 / 133

MEASUREMENTS

600 mm / 23.6"

739 mm / 29.1"



712 mm / 28"

1 127 mm / 44.4"



600 mm / 23.6"

739 mm / 29.1"



600 mm / 23.6"

739 mm / 29.1"



- 1) With standard dies. Crimping range can be increased with special dies.
- 2) Theoretical with 10 mm cycle.
- 3) 1-phase / 3-phase
- 4) 12V / 24V. Overload controlled



FINN-POWER SKIVING MACHINES

Finn-Power skiving machine FS50 is suitable for skiving external and internal hydraulic hoses.

VER
550



FS50

SKIVING MACHINES FOR QUALITY RESULTS

Finn-Power FS50 is a skiving machine that prepares hydraulic hoses for demanding crimping. The machine is ergonomically designed for efficiency and ease of use. It is equipped with a foot pedal and it is suitable for skiving external and internal hydraulic hoses from dimensions 3/16" to 2".



FS50 - EFFICIENT

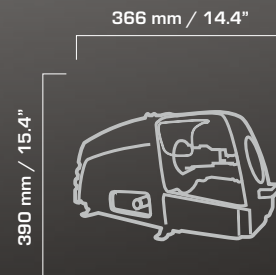
FEATURES

Suitable for skiving external and internal hydraulic hoses from dimensions 3/16" to 2". Equipped with foot pedal.

HOSE CAPACITY EXT. (MM)	4.83 - 50.8
HOSE CAPACITY EXT. (INCH)	3/16 - 2
HOSE CAPACITY INT. (MM)	12.7 - 50.8
HOSE CAPACITY INT. (INCH)	1/2 - 2
SPEED OF TOOL ROTATION	100
MOTOR (KW) ¹⁾	0.75
MOTOR (HP) ¹⁾	1
WEIGHT (KG)	34
WEIGHT (LBS)	75

MEASUREMENTS

1) 3-phase



MANDRELS

Description	Pno	Size
Internal mandrels	707187	1/2"
	707182	5/8"
	707167	3/4"
	707166	1"
	707179	1 1/4"
	707181	1 1/2"
External mandrels	707184	2"
	707660	3/16"
	707658	1/4"
	707657	5/16"
	707656	3/8"
	707038	1/2"
	707040	5/8"
	707042	3/4"
	707041	1"
	707070	1 1/4"
	707168	1 1/2"
	707169	2"
Tool rack	707253	



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