



SERIAL PRODUCTION AND
CUTTING MACHINES

**SPEED, PRECISION,
DURABILITY AND
QUALITY**

 **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

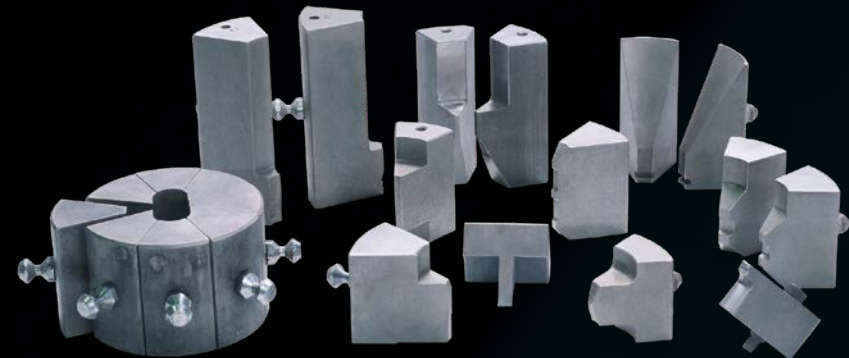
Jorma Lillbacka, who grew up in the spacious nature of Ostrobothnia, has never gone with the flow. Already from childhood, Jorma has determinedly carried out his own dreams and built everything from powerful industrial machines to airplanes. Lillbacka's entrepreneurial spirit has made innovation, quality 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 SERIAL PRODUCTION

Finn-Power serial production machines are unbeaten in terms of speed, precision, durability and quality. These models are suitable for mid-range hydraulic and industrial hoses. Serial production machines are designed to handle the highest production volumes. They are excellent in speed, accuracy and repeatability. These machines are also compact in size, and thus easily movable from one place to another.





FP20, I20, I20S

SPEED, PRECISION AND QUALITY

FP20 crimping machine can be operated by push-button, foot pedal, back stop device or using semi-automatic function. FP20 is supplied with a storage locker and Quick Change -tool as a standard. This feature allows the whole die set to be changed in one easy operation and the dies can be stored in the complete set.

Finn-Power I20 and I20S machines are designed to handle the highest production volumes. I20 and I20S are invincible in all-around speed, accuracy and repeatability. Depending on available space, the hydraulic and crimping units can be separated or fitted together with a connection kit.

CONTROL

ICC TOUCHSCREEN, ADVANCED QUALITY CONTROL AND QUICK SET UP

UC STRAIGHTFORWARD CRIMPING CONTROL

AVAILABLE MODELS

S MORE SPEED IN REDUCED CRIMPING TIME ***

H HORIZONTAL CONSTRUCTION

STANDARD FEATURES

- QC-Tool
- Mirror
- Electric backstop device
- Side table
- Die set racks

OPTIONS

- Foot pedal
- Mechanical backstop device
- Pinning support mandrel
- Auto greasing G3
- Connection kit (hydraulic unit)
- Oil cooler (standard for I20S)
- Counter
- Speed adjustment
- Remote control unit
- A3 signal option* (standard for ICC)
- Bar Code Reader
- Connectivity pack (ethernet)
- Safety scanner
- Pressure crimping (UC1, ICC1)
- Step crimping (UC2, ICC2)
- Quality crimping (UC3, ICC3)
- Graphical quality crimping (ICC4)
- Camera**

* ICC 7", I2" ** ICC I2"

*** Model S available for I20 machines.

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



FP20 - PRECISE

120 - FAST

120S - FASTEST

FEATURES

This durable crimping machine is reliable and fulfills strict crimping demands with precision and of high quality.

Designed to handle the highest production volumes. Unbeaten in terms of speed, precision, durability and quality.

120S is even more faster than Finn-Power 120 with the same force, precision and quality.

DIE SETS

P20

P32

P32

CRIMPING RANGE (MM) ⁽¹⁾

10 - 61

10 - 87

10 - 87

CRIMPING RANGE (INCH) ⁽¹⁾

0.39 - 2.67

0.39 - 3.42

0.39 - 3.42

MAX OPENING (MM)

+68

+68

+68

MAX CRIMPING FORCE (KN)

1 500

2 800

2 800

MAX CRIMPING FORCE (TON.)

150

280

280

NUMBER OF CRIMPS/HOUR ⁽²⁾

2 300

2 400

3 000

MOTOR (KW)

3

5.5

7.5

MOTOR (HP)

4.0

7.5

10

WEIGHT (KG)

504 / 182

845 / 182

845 / 182

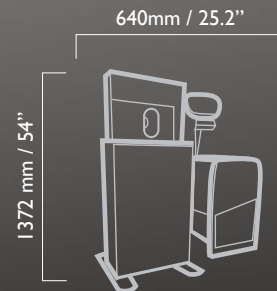
WEIGHT (LBS)

1 111 / 402

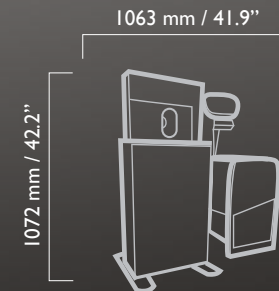
1 863 / 402

1 863 / 402

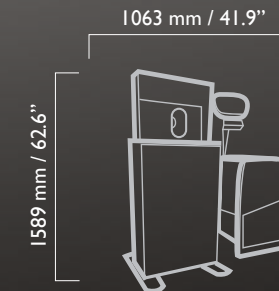
MEASUREMENTS



713/1060 mm / 28.1/41.7"



713/1060 mm / 28.1/41.7"



1195/1060 mm / 47/41.7"

1) With standard dies. Crimping range can be increased with special dies.
 2) Theoretical with 10 mm cycle.
 NB: Machines with ICC3 are i4.0 compatible.



140, 140S, 145

IDEAL FOR MID-RANGE HYDRAULIC AND INDUSTRIAL HOSES

Due to the large opening and strength Finn-Power 140, 140S and 145 machines are suitable for mid-range hydraulic and industrial hoses. Finn-Power 145 crimping machine is an ideal choice when your operation requires crimping of very long ferrules. It has adapter dies with a length of 120 mm as a standard size.

CONTROL

ICC TOUCHSCREEN, ADVANCED QUALITY CONTROL AND QUICK SET UP

UC STRAIGHTFORWARD CRIMPING CONTROL

AVAILABLE MODELS

S MORE SPEED IN REDUCED CRIMPING TIME ***

H HORIZONTAL CONSTRUCTION

STANDARD FEATURES

- QC-Tool
- Mirror
- Electric backstop device
- Side table
- Die set racks

OPTIONS

- Foot pedal
- Mechanical backstop device
- Pinning support mandrel
- Auto greasing G3
- Connection kit (hydraulic unit)
- Oil cooler (standard for 140S)
- Counter
- Speed adjustment
- Remote control unit
- A3 signal option* (standard for ICC)
- Bar Code Reader
- Connectivity pack (ethernet)
- Safety scanner
- Pressure crimping (UC1, ICC1)
- Step crimping (UC2, ICC2)
- Quality crimping (UC3, ICC3)
- Graphical quality crimping (ICC4)
- Camera**

* ICC 7", 12" ** ICC 12"

*** Model S available for 140 machines.

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

DIE SET FP145

Pno	Crimp. range	D	L
18506/63L	63.0 - 69.0	63	120
18506/69L	69.0 - 75.0	69	120
18506/74L	74.0 - 80.0	74	120
18506/78L	78.0 - 87.0	78	120
18860/84L	84.0 - 92.0	84	120
18860/92L	92.0 - 100	92	120
18860/100L	100.0 - 108.0	100	120
18860/108L	108.0 - 116.0	108	120
18860/116L	116.0 - 124.0	116	120

DIE SET FP140

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



140 - STRONG

140S - FASTEST

145 - STRONGEST

FEATURES

Bigger and stronger than I20 with a maximum crimping force of 3200 kN.

I40S is faster than I40.

Ideal choice for crimping very long ferrules and mid-range hydraulic and industrial hoses.

DIE SETS

P32, FP140

P32, FP140

P32, FP145

CRIMPING RANGE (MM) ¹⁾

10 - 124

10 - 124

10 - 124

CRIMPING RANGE (INCH) ¹⁾

0.39 - 4.88

0.39 - 4.88

0.39 - 4.88

MAX OPENING (MM)

+82

+82

+82

MAX CRIMPING FORCE (KN)

3 200

3 200

3 500

MAX CRIMPING FORCE (TON.)

320

320

350

NUMBER OF CRIMPS/HOUR ²⁾

2 000

2 500

2 400

MOTOR (KW)

5.5

7.5

7.5

MOTOR (HP)

7.5

10

10

WEIGHT (KG)

875 / 182

875 / 182

875 / 182

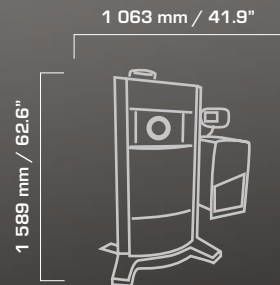
WEIGHT (LBS)

1 929 / 402

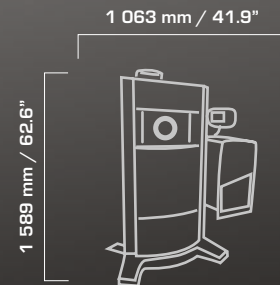
1 929 / 402

1 929 / 402

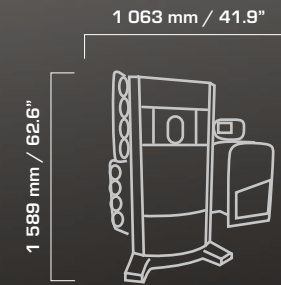
MEASUREMENTS



713/1060 mm / 28.1/41.7"



713/1060 mm / 28.1/41.7"



713/1060 mm / 28.1/41.7"

1) With standard dies. Crimping range can be increased with special dies.
 2) Theoretical with 10 mm cycle.
 NB: Machines with ICC3 are i4.0 compatible.



COMPROMISE/
NOT AN
OPTION



CUTTING MACHINES FOR OPTIMAL CUTTING OF ALL HOSES

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.



CM75, CM91

PRECISE AND ADJUSTABLE CUTTING

Finn-Power CM75 and CM91 cutting machines offer quick and precise cutting for hydraulic hoses. These machines can be easily adjusted to choose optimal cutting speed for every hose. These cutting machines have a built-in bin for the collection of cutting waste. They offer safe cutting with protected blade that can be sharpened when necessary.

OPTIONS

- Fume extractor
- Safety package
- Measuring table
- Smooth blade



CM75PH - MEDIUM



CM91 - LARGE

FEATURES

Designed to cut up all types of hoses up to 2" diameter 6-spiral hoses. Lower speeds are used with thick hoses to avoid overheating of the blade.

The 650 mm diameter blades operate at 3000 rpm. The hose is pushed against the blade by spindle motor. Speed can be quickly adjusted to choose optimal cutting speed for hoses.

DIE SETS

-

-

MAX HOSE SIZE (MM)

50.8

76.2

MAX HOSE SIZE (INCHES)

2

3

VOLTAGE (V)

230/400

230/400

SPEED OF BLADE, 50HZ (RPM)

2 840

2 840

SPEED OF BLADE, 60HZ (RPM)

2 900

3 480

BLADE DIAMETER (MM)

520 x 4

650 X 4

MOTOR (KW)

7.5

11

MOTOR (HP)

10

15

WEIGHT (KG)

220

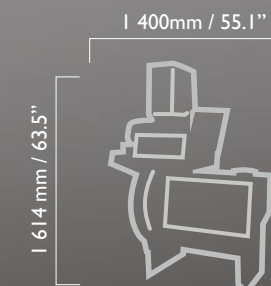
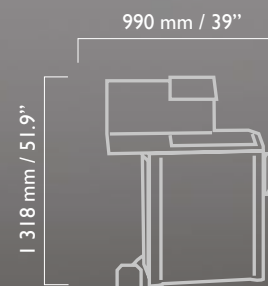
300

WEIGHT (LBS)

485

662

MEASUREMENTS





BE THE
BEST
OUR
DNA

Thanks to the many years of experience in product design, engineering, development and manufacturing, we can offer to you the highest quality.

Finn-Power crimping machines have literally hundreds of applications in the following industries: hydraulic hose assemblies, tube, pipe, wire, cable, plastic and fiberglass.

We at Lillbacka Powerco focus on increasing the productivity of our customers. Finn-Power offers reliability and long-lasting machines with operator-friendly functions.



 **Lillbacka | FINN•POWER**

Lillbacka Powerco Oy • P.O.Box 1 • FI-62301 Härmä, Finland
www.powerco.lillbacka.com • phone: +358 10 347 7400 • powerco@lillbacka.com

Lillbacka USA • 1629 Prime Court, Suite 400 • Orlando, FL 32809 USA
www.lillbackausa.com • phone: +1 847 301 1300 • fax: +1 847 301 2562

design by
buorre

712647