



Lillbacka USA

CRIMPING DIGEST

Lillbacka USA, Inc. USA
Phone (847) 301-1300 • Fax (847) 301-2562 • www.lillbackausa.com

VOLUME 2 2010

Customer Profile

Finn-Power Equipment Increases Productivity & Quality for Major Hose Service Company

The domestic hose service industry is a \$4-billion business. The HosePower Group, headquartered in Orange Park, FL, is the largest hose service company in North America. The company generates \$90-million in yearly sales of hydraulic and industrial hose, fittings & couplings from its 30 branches located throughout the U.S., Canada, and Mexico.

HosePower primarily serves the OEM market, where it supplies hose kits to original manufacturers. The company also does a great volume of business in the mobile service market with its 71 mobile service units, the largest fleet of mobile service trucks in North America. In addition, the company also sells bulk products to smaller distributors who cut and couple their own hoses. HosePower relies on Lillbacka Finn-Power crimpers for both its production and service hose sawing and crimping needs. "In our opinion, Lillbacka builds the best production crimping equipment and saws in the industry," says J. Palmer Clarkson, president of HosePower.

Flextral Product Line

HosePower is the authorized master distributor for Flextral hydraulic & industrial hose products in North America. "We have 100% design control over all our products," explains Clarkson. "Hose, fittings, and accessories are all we do. Having our own product line gives us the ability to design and manufacture components that are perfect for the service business – industrial and hydraulic hose and all the metal fittings in aluminum, brass, stainless, and steel. We are able to have a better selection of

IN THIS ISSUE:

HosePower Customer Profile	1-3
Executive View	4
King Crimper	5
IRP Customer Profile	6-8
UC Controller	9
Service Expansion	10
Technical Tips	11

end terminations that are designed to be the right length or the right size for easy maintenance."

"The feature that really sets them apart from anything else is their ability to be absolutely accurate 100% of the time. There aren't many crimpers that can do that."

HosePower has four OEM Centers located in Orange Park, FL, Houston, TX, Phoenix, AZ, and Ajax (Toronto), Ontario. All of the branches feed into one

Continued on page 2



HosePower has been using Finn-Power crimpers since 1985, and has 70 pieces of Finn Power equipment throughout its production and service facilities, consisting of hose crimpers, hose cutters, and nut crimpers. HosePower uses the FP-160 for crimping 4" hydraulic and 6" industrial hose.

Continued from page 1

of these four OEM Centers. The OEM business requires more testing and measuring, and thus, requires more equipment than the services branches. HosePower's technical capabilities include impulse testing (up to 1,000,000 impulse cycles), abrasion testing to ISO-6945, proof pressure and burst testing, etc. All of the service branches perform service and repair.

Finn-Power Equipment

"We have about 70 pieces of Finn Power equipment throughout our production and service facilities, consisting of hose crimpers, saws, and nut crimpers. The crimpers are very reliable and exact. They duplicate the crimp every time. One of the successes that we have in the OEM business is that all of our hose kits are perfect. The lengths of the hoses are right and the crimps are exact."

HosePower has been using Finn-Power crimpers since 1985. "Finn-Power crimpers are the most accurate and most repeatable crimpers that we ever used," says Clarkson. "Consistency is important, because if you are manufacturing 100 hose assemblies that are exactly the same, you've got 200 crimps...and all 200 crimps must be exactly the same."



The Finn-Power nut crimper is a very important piece of equipment at HosePower. The company crimps the nuts on all its JIC and other ring face seal nuts, as well as all the ferrules to build a one-piece fitting.

The Finn-Power crimpers in use at HosePower include:

FP-120 – "The thin design of the FP-120 is perfect for crimping 90 degree fittings," explains Clarkson. "The feature that really sets them apart from anything else is their ability to be absolutely accurate 100% of the time. There aren't many



According to HosePower's president Palmer Clarkson, the feature that sets Finn-Power crimpers apart from the competition is their ability to be absolutely accurate 100% of the time.

crimpers that can do that. And the Finn-Power crimpers are fast. In production, speed is money. So we are able to feed a lot of crimps an hour through these machines...and we know they are going to be accurate. This allows us to do statistical process measurement of verifying only one of 10 or one of the batch instead of verifying each crimp. And that speeds up production even more."

FP-160 – This is HosePower's largest crimper, and it is used to crimp 4" hydraulic and 6" industrial hose. "This is a big part of what we sell – especially in the large hose markets and the mining areas where we do a lot of big hoses," says Clarkson.

"Lillbacka also builds an absolutely fantastic piece of equipment that the entire Flextral product line is assembled with – the Finn-Power nut crimper. The Finn-Power nut crimper is also a totally reliable machine. The crimps are exact, and we have very little maintenance on these units. We do hundreds of thousands of crimps a month with each machine."

Mobile Service Trucks – HosePower began installing Finn-Power crimpers in its fleet of mobile service trucks in November 2009. They use the FP-120 in the large trucks and the FP-60 in the smaller vehicles. According to Clarkson, the Finn-Power crimpers have worked out extremely well on the mobile units. "The new series of Finn-Power crimpers has upgraded controllers that allow us to use our pc's to program the controller with all our crimp diameters," explains Clarkson. "If there are any updates or changes in our crimping program, we are able to upload to our customers' machines, the machines in our mobile service trucks, and our own warehouses. This crimp data is updated immediately, and we no

Continued on page 3

Continued from page 2

longer rely on people getting the updates in the mail and then upgrade their own machine. And we're going to use all the new controllers in all our locations, because it's bullet-proof from the point that everyone has the right crimp data immediately. This dramatically improves service time, but even more important, if you don't get the perfect crimp diameter in a big hydraulic hose, then you can have a failed assembly. It is very important to get any updates or changes in crimp diameters to the field as quickly as possible."

Finn-Power Saws

Finn-Power saws are also very popular at HosePower. "The Finn-Power saws are excellent because they cut straight," says Clarkson. "The most important thing when you are cutting hose is to cut without burning the wire and to cut straight, and the Finn-Power saws do both of those very well."

"They are well built and always repeatable. We don't have an issue with failure with Finn-Power machines...they are totally reliable."

Nut Crimpers

HosePower also uses the Finn-Power nut crimper. "Lillbacka also builds an absolutely fantastic piece of equipment that the entire Flextral product line is assembled with – the Finn-Power nut crimper," says Clarkson. "This is a very important piece of equipment for us. We crimp the nuts on all our JIC and other ring face seal nuts, and we crimp all the ferrules to build a one-piece fitting. The Finn-Power nut crimper is also a totally reliable machine. The crimps are exact, and we have very little maintenance on these units. We do hundreds of thousands of crimps a month with each machine."



Finn-Power hose cutting machines are also very popular at HosePower because they cut straight without burning the wire.



HosePower has a fleet of 71 mobile service trucks throughout North America that respond to its customers' on-location maintenance needs.

Larger Crimping

Clarkson sees larger crimpers in the future for HosePower. "We have the FP-180 at our Houston facility that has the capacity to crimp up to 8". We will be adding more of this size of crimper to our equipment list."



HosePower began installing Finn-Power crimpers in its fleet of mobile service trucks in November 2009. They use the FP-120 in the large trucks and the FP-60 in the smaller vehicles.

Clarkson explains that during the past 25 years, crimping has been a hydraulic attachment system. "Crimpers used to be made for just hydraulic hose," explains Clarkson. "During the last five years, the industry has looked at crimping as a more reliable and safer attachment system for industrial hose, compared to the traditional industrial hose attachment methods, such as banding and clamping. Finn-Power has responded to this by building crimpers with increasing capacities sizes. As a result, we can now crimp chemical hoses or steam hoses that we couldn't crimp before. I believe that in 10 years, it will be unacceptable to deliver a lot of petroleum hoses that aren't crimped."

"We have been very satisfied with the Finn-Power products," concludes Clarkson. "They are well built and always repeatable. We don't have an issue with failure with Finn-Power machines...they are totally reliable."

New machines for higher flexibility, quality, and productivity

Lillbacka Corporation has made strong investment in new technologies and introduced several new product models during the past two years. Having emerged from the recent economic downturn with a product offering second to none in the crimping industry, the Lillbacka factory is encouraged by the enthusiasm in which these new products have been received in the global marketplace today. Lillbacka's continuous investments in R & D have paid huge dividends to both our company and our strong global customer base in improved efficiencies and productivity.

For many companies, decisions on purchasing new equipment that were deferred due to the economy, are now imminent. The uncertainty caused by this past business climate is impossible to compare to any time in recent history. As a result, changes to develop processes that provide flexibility and adaptability are even more important today than they were in the past. Reliance on technology, rather than human intervention in capacity and process capability adjustments, has become the subject of many discussions. And technology may well be an even more important subject during upcoming months and years, when improvements to business flexibility and adaptability are explored by management.

ROI

Regardless of the size of the investment, return is important. Lillbacka Corporation is known for the accuracy, durability, and reliability of its



These production units can accommodate both small and large assemblies. Their pass-through head design makes them ideal for crimping elbow assemblies, flanged pieces, and oddly-shaped parts.

Finn-Power crimping machines. In the USA, some of our customers report that machines purchased during the 1970s are still running and producing hose assemblies. Machines have been paid back "ten times over". Reality is that Lillbacka has built and sold thousands of Finn-Power machines that are producing every day, many of which are in critical processes such as aerospace, automotive or, in the service industry, where our customers are providing emergency service to their customers. We must be ready to react and be available with parts and support to maintain uptime in all our machines in the market.

"In the USA, some of our customers report that machines purchased during the 1970s are still running and producing hose assemblies."

In the continuous effort to bring the support and service close to the customer, Lillbacka USA Inc. is pleased to announce an agreement made with FMS Machine Tool Inc., Maple Heights, OH (see page 11). Our vast customer base continues to grow as new technologies are introduced by the Lillbacka Corporation that bring more flexibility and productivity to the world of Finn-Power crimping. Customers rely more on their production equipment, and, as result of the recent economical hardship, businesses are running leaner while demanding more from their vendors and partners. Lillbacka is ready, willing, and able to outperform in this changing environment where customers' requirements to outsource the services and preventive maintenance is increasing as the production levels increase.

The localized field service operations are now available in a number of locations throughout the USA and Canada. Focus is placed in determining the closest available technician to promptly service the customer's needs. Technicians are trained by Lillbacka factory personnel to the proper service techniques and methods.



Lillbacka Corporation has recently introduced the world's largest crimper, the King Crimper 1200. The King Crimper has a maximum crimping force of 1,200 tons and a crimping range from 7.87" to 25.59".

Lillbacka Introduces World's Largest Crimper

Lillbacka Corporation has recently introduced the world's largest crimper, the Finn-Power King Crimper 1200. The King Crimper 1200 has a maximum crimping force of 1,200 tons and has a crimping range from 7.87" to 25.59".



The King Crimper 1200 features a new UC Controller, which has computing power and features never seen before on crimping machines, such as automated quality control reporting options and an easy to use menu guided operation.



The King Crimper 1200 features a new UC Controller, which has computing power and features never seen before on crimping machines, such as automated quality control reporting options and an easy to use menu guided operation. The feedback of the master die position allows part crimp dimensions to be changed within seconds. The UC Controller also includes a feedback device for monitoring of the opening stroke to be set to an exact position. This greatly reduces energy consumption and enhances the cycle time of the machine, since it negates the need to run the machine fully open or fully closed. The King Crimper 1200 is energy efficient by going into a stand-by mode when not in operation versus a constant running hydraulic power unit, resulting in energy cost savings.

The primary market for the King Crimper 1200 is the oil & gas industry for crimping tubes, pipes, and fittings. Traditionally, all large fittings are secured by using side presses, forgings, and hammers. These methods are not precise, and

are very time consuming. The King Crimper 1200 can correct out of round or oval pipe ends for preparation of welding or threading of the ends on a pipe. With the King Crimper 1200, the process is now completed in one operation, while providing quick and precise crimping with consistent repeatability.

The King Crimper 1200 is the first crimper to the market that will allow large diameter offshore hoses to be crimped in an efficient and ease of operation method never seen before. The King Crimper 1200 will revolutionize the manner in which sizes of offshore hoses greater than 14" can be crimped. This crimping process will allow for precision, accuracy, and time saved. Another remarkable feature is the free placing of the operating unit which allows the King Crimper 1200 to be used from the front, back, or side, and the remote control gives all the more possibilities to the operator.

Other markets for the King Crimper 1200 include refineries, mining, oil sands projects, gas transmission lines, heavy duty industrial applications, power plants, power transmission lines, military and many more applications. Lillbacka Corporation has invested engineering and resources to bring to market a crimping machine with unlimited potential. There are no limitations to the possibilities of application uses for the King Crimper 1200.



The King Crimper 1200 has a maximum crimping force of 1,200 tons and has a crimping range from 7.87" to 25.59".

Master Distributor Increases Flexibility and Productivity with Finn-Power Crimper

Since its founding in 1950, I.R.P. Industrial Rubber Ltd. has evolved from a small end user distributor to an industry-leading, nation-wide wholesale distributor with locations in Mississauga, Ontario, and Vancouver, British Columbia.

IRP's product line consists of industrial hose, couplings, clamps, Flexaust ducting, sheet rubber, matting, and conveyor belting. The company offers such value-added services as hose assemblies, pressure testing, Canadian Registration Numbers, internal and external swaging, crimping, rubber slitting, gasket cutting, and rubber fabrication.

I.R.P. Industrial Rubber Ltd. offers a full range of industrial rubber and PVC hose. Today's market demands a wide variety of hose couplings and fittings from economical styles for low-pressure water service to more critical applications, such as chemical and petroleum transfer that require coupling "systems".

For a number of years, IRP utilized a swaging system as a method of attaching fittings to the hose. In 2009, the company was looking for a better way to produce hose assemblies on large diameter hose. According to Ted Flewwelling, IRP's vice president, the swaging process entailed



Ted Flewwelling (left) and Steve Wickham inspect a job crimped on the FP160. IRP can now crimp from 3/16 inch ID all the way up to 6 inch ID hose with just one machine.

purchasing additional dies whenever the OD on the hose changed. "We were limited to the die range on the swager," explains Flewwelling. "We were looking for a machine that gave us more options and flexibility to fabricate the hose assemblies. In addition, a growing number of customers were asking us for clampless assemblies that were not cost effective with the swager we had."

In September 2009, IRP purchased the Finn-Power FP160 extra heavy duty crimping machine with a maximum hose ID size of 6 inches. The Finn-Power FP160 is an ideal choice when a variety of sizes and types of fittings are produced in large quantities. This crimper is especially suited for manufacturing large volume orders. High capacity, flexibility, and complementary control options put these machines in a class of their own.

Increased productivity and flexibility

"The market has changed, and today there is more demand from the manufacturing sector for hose assemblies without clamps," says Flewwelling. "With the FP160, there is a wide range of our products that we can now crimp. With our old equipment, we were limited to swaging up to 4 inch ID hose. After the crimper was installed, the first order we received was a rush from one of



Continued on page 7

Continued from page 6

our distributors for a project at a steel mill for 6 inch ID hose. We purchased the ferrules from our supplier and easily crimped the hose. The FP160 has dramatically increased our productivity and flexibility. We're more competitive because we can now quote jobs with quicker deliveries than we could do before."

"The FP160 has dramatically increased our productivity and flexibility. We're more competitive because we can now quote jobs with quicker deliveries than we could do before."

Steve Wickham, IRP's assembly area manager, is also impressed with the FP160. "I like the crimper's speed and accuracy," explains Wickham. "I also like the automatic settings and its ability to work in inches and millimeters. The machine's height is very workable and does not put a strain on your back. We can now crimp from 3/16 inch ID all the way up to 6 inch ID hose...so we don't need multiple machines. The 6 inch capability allows us to make assemblies that we couldn't do before, and has given us the ability to crimp onto thin walled lay-flat style hose, which we couldn't do before we got the Finn-Power machine."

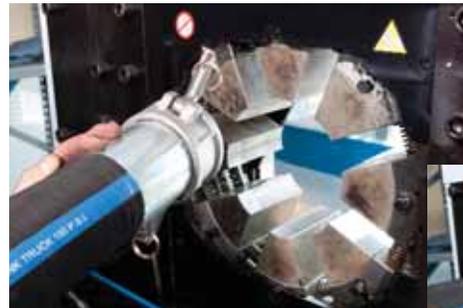
Controller

The FP160's controller memory has the capability to store information on individual jobs. "We can look back and see the history and know that when you were successful before, you can be successful again," says Wickham. "When we have a repeat job that's coming up, instead of us starting from scratch we can see what we did in the past, we're able to pull the specs out of the machine's memory and get started on it immediately."

"I like the crimper's speed and accuracy. I also like the automatic settings and its ability to work in inches and millimeters. The machine's height is very workable and does not put a strain on your back. We can now crimp from 3/16 inch ID all the way up to 6 inch ID hose...so we don't need multiple machines."



The FP160's wide opening is also a notable feature for IRP. IRP has the ability to open the dies quite wide so that they are able to get large end fittings through it without having to worry about running the whole length through. The 6 inch capability allows the company to make assemblies that it couldn't do before.



The FP160's wide opening is also a notable feature, according to Wickham. "We're not just able to do the 6 inch...we can open the dies quite wide so that we are able to get large end fittings through it without having to worry about running the whole length through," says Wickham.

Wickham also highlights the crimper's electronic backstop – an adjustable depth stop which allows the user to set up the machine for larger production runs. The electronic backstop can also be set up to trigger the crimping cycle. "The FP160 automatically goes through the cycle merely by touching the back of the plate," says Wickham.

Quick Change Tool System

Another Finn-Power crimper feature that IRP likes about the FP160 is the Quick Change Tool System (QC), which allows the entire die set to be changed in one easy operation. The pins on the QC Tool engage the QC holes in the dies. As the master dies open/close, the die segments are released from the master dies and retained by the QC tool. The die segments are held to the tool by a magnet. The die set then can be stored in the QC storage rack. In this way, the segments are kept in complete sets and are always used in the same order.

Continued on page 8

Continued from page 7

Other features include:

- Versatile control system
- Fast, efficient, and accurate crimping
- Flexible change over from multiple to single-piece production
- Smooth operation through fast approach combined with slow crimping
- Operated by push button, pedal (optional), backstop device, or using semi-automatic function

“The 6 inch capability allows us to make assemblies that we couldn’t do before, and has given us the ability to crimp onto thin walled lay-flat style hose, which we couldn’t do before we got the Finn-Power machine.”

“Now that we have the FP160, our distribution network knows that they can rely on us more for custom work than they could in the past,” concludes Flewwelling. “Specialty work is a growing part of our business. As a master distributor, we are expected to do specialized work like crimping and testing for customers. We always knew that Finn-Power was the best name in the business when it comes to crimping, especially for what we were looking for. The local Lillbacka dealer, Mark McGuire from MAG Tool Inc., has done a tremendous job. He has provided excellent training and stops in periodically to check on the machine to ask if we have any questions. The factory support from Lillbacka has also been outstanding.”

“Now that we have the FP160, our distribution network knows that they can rely on us more for custom work than they could in the past. Specialty work is a growing part of our business. We are expected to do specialized work like crimping and testing for customers. We always knew that Finn-Power was the best name in the business when it comes to crimping, especially for what we were looking for.”



The Quick Change Tool System (QC) allows the entire die set to be changed in one easy operation. The pins on the QC Tool engage the QC holes in the dies. As the master dies open/close, the die segments are released from the master dies and retained by the QC tool. The die segments are held to the tool by a magnet. The die set then can be stored in the QC storage rack. In this way, the segments are kept in complete sets and are always used in the same order.

Innovative UC Controller Sets New Standard

The new UC Controller developed for the Finn-Power brand of crimpers has many innovative and unique features that Lillbacka Corporation has introduced to the marketplace. These features will revolutionize the industry and will set a new standard of excellence in the world of crimping machines. Many development hours were spent by Lillbacka engineers to design an operating controller platform so enhanced that it would set Finn Power crimpers apart from the competition. The main features of the new UC Controller include:

- **Layout / Icons** – The UC controller is a modern, user friendly interface based on icons, a selector and clear, visual display of all crimping parameters. Commonly used functions are easily accessed such as Tool Change Wizard. Standard features include data storage capability of crimping parameters and die sets, ascending/ descending piece counting and energy saving mode.
- **Connectivity** – The UC controller allows one to connect to it via USB and Ethernet ports. Through the aid of a company's IT department, one can integrate the controllers connection through their company network as well (FTP software). This feature will allow the transfer of crimp specs and programs, as well as retrieval of such information from any computer on its network.
- **Updateable** – The new platform allows for software upgrades, as well as the ability to "mirror" one machine's control content to another. The UC controller is ambiguous enough to be compatible with all computer systems (PC, MAC, Linux, etc).
- **Expandability** – The UC controller has optional packages which have been developed to optimize production for different industries. The UC controller package 1 includes pressure crimping when parts with large tolerances or sensitive materials need to be crimped. Multi-step crimping option package 2 is ideal when a part requires crimping in several different diameters.



The new UC Controller developed for the Finn-Power brand of crimpers has many innovative and unique features that Lillbacka Corporation has introduced to the marketplace. These features will revolutionize the industry and will set a new standard of excellence in the world of crimping machines.

- **Traceability** – Quality monitoring – package 3 – allows the crimp specs, actual achieved values, errors (if any), and a time stamp to be recorded for each and every crimp. This spread sheet can be downloaded through the USB or Ethernet ports on a per batch basis. Integration of bar code technology is also available with the UC controller.



King Crimper Introduction

The new King Crimper 1200 was introduced to sales personnel and sales representatives in October. John Ioriatti, vice president of sales, demonstrated the world's largest crimper in action. The King Crimper has a maximum crimping force of 1,200 tons and a crimping range from 7.87" to 25.59".

The primary market for the King Crimper is the oil & gas industry for crimping tubes, pipes, and fittings.



John Ioriatti, vice president of sales, cuts the ribbon as he introduces the new King Crimper 1200 to sales personnel and sales representatives.

Lillbacka USA Increases Service Capability

Lillbacka USA has expanded its local field service capabilities with the addition of FMS Machine Tool, Inc. to its service team. FMS will bring regional Finn-Power machine service to Ohio, Indiana, West Virginia, Western Pennsylvania, Kentucky, and Michigan.

Headquartered in Maple Heights, OH, FMS Machine Tool, Inc. has five service vans providing preventive maintenance and emergency services to hydraulically-operated manufacturing equipment. "FMS Machine Tool, Inc. provides complete turnkey support from the day our customer makes the first purchase," explains David A. Saiko, president & ceo of FMS Machine Tool, Inc. "Our success is based on the 100% customer satisfaction policy we provide to all of our customers."

FMS Machine Tool, Inc. was established 1990, and has expanded their business to field service operation to meet the needs of the manufacturing operations who rely on their modern hydraulic manufacturing machinery. FMS works closely with numerous manufacturers providing local assistance when emergencies arise.



Lillbacka executive advisor Mikko Lindstrom (right) welcomes Dave Saiko, president & ceo of FMS Machine Tool, Inc., to the Lillbacka service team.

FMS Machine Tool, Inc., showroom and service headquarters is located at 5448 Dunham Road, Maple Heights, OH 44137. Contact: Chris Kautz, Vice President, Service, ckautz@fmsmachinery.com, Phone 440-886-3232 Fax 440-886-3233

Below are technical tips from Lillbacka's service department to maximize efficiency and reliability of your crimping or hose cutting machines.



Always store your crimping machine in the full open position

To prolong life of the master dies springs, store the crimping machine in the full open position when not in use. The master dies have spring-activated open positions. When the crimp head closes, the dies springs will compress...and when crimp head opens, the die springs will extend. Because leaving the springs into compressed state will eventually relax the metal, and springs lose some of their strength. So the next time you shut the machine down for the day, or head home for the weekend, remember to cycle the machine to the full open position before shutting it down.



Frequent greasing intervals will extend the life of your investment

The crimp heads in Finn-Power machine generate hundreds of tons of crimping force. This force works the gliding surfaces. To minimize the friction and eliminate "metal to metal" connection between sliding surfaces, proper lubrication is required to assure maximum life for your machine. In continuous operation, lubrication by adding new grease every 4-8 hours of operation will prevent premature wear to the machine. The purpose of frequent greasing is to ensure there is always enough grease between the gliding surfaces. Due to the surface pressure, the grease sinks into the metal pores ensuring good sliding properties for the life of the machine. When greasing the machine, it is also important to remove the old grease from the machine in order to eliminate build up.



Hydraulic oil needs to be changed and filtered

The Lillbacka factory recommends that the hydraulic oil be changed after the first 500 hours of operation, and then every 1000 hours thereafter. The new hydraulic oil (ISO viscosity grade 46 recommended) should be filtered through a 20 micron filter or finer to remove excess impurities and minimize build up of debris in the hydraulic system. The oil filter should be changed at the same time to assure optimum performance of the machine.

New Products...



New Electronics...



Since 1973, Lillbacka Corporation has developed better ways of crimping, joining, and forming hose assemblies, tubes, pipes, wires, cables, ropes, and electrical cables. The number of potential new applications is only limited by one's imagination.

New Design...

Through the years, Lillbacka Finn-Power crimpers have set the industry standard for quality, productivity, and reliability. Our crimpers allow quick and accurate joining of metal with either metal, rubber, fiber, plastics, or even wood.

If you need a better way to crimp, join, or form your product, contact Lillbacka today – *where imagination becomes reality.*

Same Commitment to Quality.



Lillbacka USA, Inc. USA
Phone (847) 301-1300 • Fax (847) 301-2562 • www.lillbackausa.com