Sheet metal machinery. For the construction industry.





# The art of origami

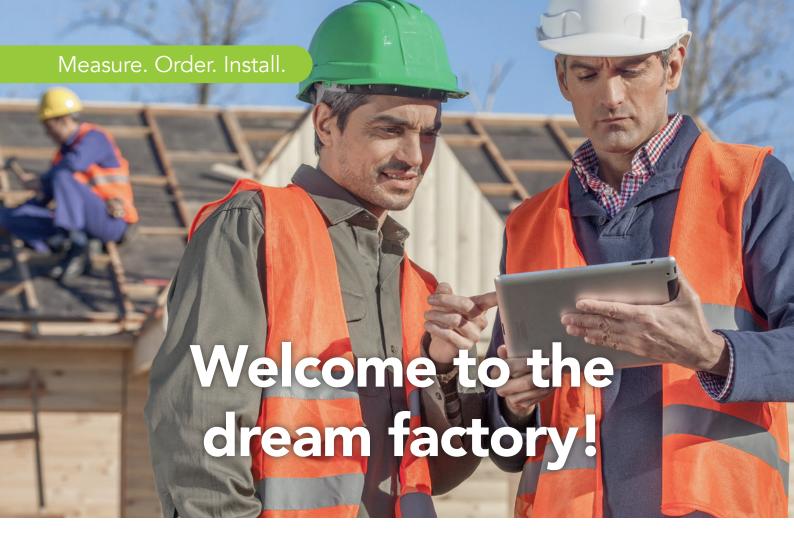


Sheet metal is a fantastic material. It is sustainable, malleable and long lasting. It can be used for strong but lightweight constructions and can, in principle, be

recycled any number of times without losing any of its positive qualities.

Thanks to modern technology we can now fold metal into almost any shape or form. With a sheet of metal, some knowledge of geometry, a feeling for the material, the knowhow and the right machinery, what used to be an extremely costly and laborious job, can today be both fast and cost effective.

CIDAN Machinery has, for many decades, been the driving force behind this development through designing, manufacturing and supplying reliable and innovative sheet metal machinery that meets customers' needs and expectations. Today we offer powerful brands such as CIDAN, Forstner and nulT for both the construction and the manufacturing industries in a growing, global market. We listen closely to what our customers want to achieve, we increase their productivity and we create better working environments. We welcome you to partner with a company standing for both quality and innovation. We see no limits to what can be achieved with origami.





Efficient sheet metal folding begins and ends with nuEvolution from nuIT - the smart planning tool that revolutionizes your entire manufacturing process. Combine nuEvolution with the impressive power and adaptability of our machines for perfect

overview, excellent results, shorter lead times and greater profitability. All you need is a tablet or laptop and your finger.

#### Construction.

nuEvolution is extremely user friendly and can be used by anyone, anywhere. The profiles you want to use can be drawn or dimensions entered quickly and easily on the building site, the factory floor or wherever you happen to be. Enter the measurements and adjust the angles to get accurate 3D-profiles. nuEvolution allows you to get exact values and gives you hours back in your week spent dealing with miscommunication.

Choose colour and material from your pre-defined materials and enter your lengths and quantities. The program makes sure you always deliver a complete specification, with no missing measurements or other data.

Add all the other details you need from the library. Enter your order number, when you want the material delivered and your order is now ready to be sent directly to production.

nuEvolution gathers together all the incoming orders digitally in one place. It's easy to print complete PDF files for your dimensioned profile with all the details included. The program keeps track of quantities of metal or other materials used.

#### Time to start production!

With nuProduction all the incoming orders are combined, so you can plan your production according to available capacity and requested delivery times. The order is planned according to the parameters you have defined. You can see how much material you need as a base for ordering from your suppliers. You can plan daily schedules and make any changes when necessary. Production will also configure the optimal use of your material. With Forstner PSM software you can also program your cut-tolength machine with exact values for both lengths and slitting.

Barcode labels can be placed directly on your cut pieces to transfer the data to the metal folder and ensure that all the pieces are sorted in the correct order. If you use the ProLink control system with your metal folder all the data from nuEvolution will be automatically transferred. Production gives you total control



over everything from calculation to material quantities used and resource planning to barcode marking and production.

#### Do you have external customers?

nuOrder is the building block that gives you a webshop. Using nuOrder your customers can design and order their own profiles and get pricing from anywhere, at any time. Orders can be handled like any other order, with automated delivery and invoicing. You can also connect Order to your ERP system. You can forget about unclear instructions, hard to interpret sketches and other uncertainties. Instructions are your customer's responsibility, yours is production.



Drawing or loading the profiles you want is fast and easy whether you are on the building site, the factory floor or anywhere else.



nulT, is compatible with the ProLink control system and Forstner software for slitting. This allows all profiles drawn in nuIT to be sent directly to your machines making your production fast, smooth and easy.



Material handling, marking, analysis, documentation and logistics – nulT is the solution that does it all.



Rationalize your sheet metal machinery and increase your productivity. Choose and combine modules from our extensive product program and build your optimized production line for your specific material, series, premises and processing requirements.

In our range you will find smart solutions for everything from coil processing to straightening machines, slitting and cut-to-length systems, guillotine shears and control systems that automate and speed up your processing. With the right combination of machines and systems you can avoid manual operation, waste, scratches, marks made when operating is interrupted, rejects and then you can see production reach new heights.

In this brochure we present a small selection of the modules available that can put new life into your production and your profits.



With Forstner's wide range of products and smart solutions for material processing, lifting and repetitive movements are a thing of the past. Besides making life easier for your co-workers – your most important resource – this machinery minimizes risk of damage to the metal, scratches and unnecessary rejects. Precision along with making maximum use of the metal, with minimum waste, will increase your profits.



Our slitting and cut-to-length machinery and guillotine shears from Forstner cut through sheet metal with speed, precision and clean cuts. Rationalize your production to new levels with these all-in-one units. Benefit from these versatile new developments with lots of ground breaking functions as standard.

This machinery offers extensive flexibility and is designed to maintain high levels of productivity day after day, year after year, with minimum service.



#### Get the best ergonomics, efficiency and profitability with the right machinery.

- Sheet metal on derollers saves money, reduces waste and frees up storage space.
- ✓ We have the right solution whether your sheet metal workshop is big or small.
- Create the space for rational coil processing and increase your productivity and your profits.
- ✓ Forstner has a wide range that can be combined to make an efficient production facility based on your requirements, where parameters such as power, distance, time and access to material are decisive for fast and cost-effective production.
- ✓ With our solutions you can easily process coils from 500 kilos up to 10 tonnes. Bigger coils mean fewer changeovers, less waste and a more efficient process.
- ✓ How much material do you need readily accessible? Frequent changeovers? With a coil selector you keep six different materials ready at the cut-to-length for far quicker changeovers.
- ✓ With a well equipped cut-to-length in your production facility you will no longer need to cut strips in guillotine shears.
- Do you sell sheets or do you want to reel up material in smaller coils? We have the right solution for you!



With software from nuIT your coil processing can run more smoothly. With nuEvolution you get all the data to produce your finished parts, colour, material, cutting measurements, quantities and cut-outs.

With nuProduction all the instructions are transferred directly to your cut-to-length.





### Accurate and productive.

Forstner MST-AL 1250 is the ultimate slitting and cut-to-length machine for sheet metal work in the construction and ventilation industries. The sheet metal feeds smoothly into the machine and is cut with fantastic precision, the edges free from burrs and with minimum waste. Get higher quality and speed up production all in one go. Sheet metal in coils instead of in sheets saves money, reduces waste and frees up space. This machine has feeding pinch rollers and a powerful slitting tool with cylinder diameter 100 mm (4") and five pairs of knives. Six strips are cut quickly and smoothly with the machine's roller shears. The action of the slitting knives can be automatically controlled as an option. The feeding table is designed to minimize the risk of damage to the metal and paint, especially for sensitive materials such as zinc, aluminum and copper.

#### The most important advantages:

- Compact footprint.
- Smart, user-friendly control system.
- Fast operation and knife adjustment.
- ✓ CNC material savings for last piece, cut-to-length.

	MST-AL 1250
Material width	1250mm (50")
Steel, max sheet thickness*	1mm (20ga)
Stainless steel, max sheet thickness*	0.6mm (24ga)
Aluminum, max sheet thickness*	1.5mm (0.060")

<sup>\*</sup> Capacity with five pairs of slitting knives

## Small format, but high capacity.

CIDAN COMPACT 12 is a super compact easy to use all-in-one machine with solid sides. All transport is over linked rollers through a straightener resulting in flat finished parts even for thicker sheet metals. COMPACT 12 has an extremely accurate guillotine shear for precise measurements. The LineLink control system with coil library gives you full control over the amount of material you have left. The program settings can be saved and there is even a special setting for sensitive aluminum cutting. Add a slitting function and you have a highly efficient and complete production unit in a very small space!

- Stable construction.
- Compact design.
- Guillotine shear for best cutting surface and faster
- Easy to use and multi-function control system.
- For sensitive material.

Material width
Steel, max sheet thickness
Stainless steel, max sheet thickness
Aluminum, max sheet thickness

COMPACT 12		
1250mm (50")	1250mm (50")	
1.25mm (18ga)**	0.9mm (20ga)***	
0.75mm (22ga)**	0.5 mm (25ga)***	
1.75mm (0.069")**	1.3mm (17 ga)***	

<sup>\*\*</sup> Capacity with two pairs of slitting knives

<sup>\*\*\*</sup> Capacity with five pairs of slitting knives





Forstner KA-TFF is an extremely robust slitting and cut-tolength machine with powerful motors and transmission. Get high productivity and problem-free operating year after year. Set length, quantities and slitting/no slitting with the easy to understand panel, and the machine will do the rest itself. With the excellent overview of the slitting function and the scale the knives can be set in a minimum space of time for fantastic precision at exact widths. Do you need an even more powerful machine? Then choose the big brother KA-KT-TFH, which is also available for sheet metal widths up to 1500 mm (60"). You can easily assemble coil processing round these machines to get the best possible productivity and profitability.

#### The most important advantages:

- Robust construction.
- 6 rollers in the straightening machine with easy cylinder pressure setting.
- ✓ Easy to use slitting function can be reset fast.
- ✓ Optional sensitive material mode, designed for processing soft and sensitive materials such as zink, copper and stainless steel.
- ✓ Logical and user-friendly control panel.
- ✓ Wide range of accessories and optional functions.

Material width
Steel, max sheet thickness*
Stainless steel, max sheet thickness*
Aluminum, max sheet thickness*

KA-TFF	KA-TFH
1250mm (50")	1250mm (50")
1mm (20ga)	2mm (14ga)
0.6mm (24ga)	1.25mm (18ga)
1.75mm (0.069")	2.5mm (0.100")

<sup>\*</sup> Capacity with five pairs of slitting knives



## Smooth and fast automated slitting knife adjustment.

Forstner PSM is a true dream for the modern sheet metal workshop. Every function can be operated from the control panel: width settings, finished lengths, cylinder pressure to avoid marks from interrupted operation, slitting cutter width settings and engagement.

The control system is totally compatible with nuProduction, allowing you to plan and program your entire production with no manual intervention. Combine with the number of coilers you want and manual or powered coil selector. There isn't a better slitting and cut-to-length machine to be found!

- ✓ High productivity and repeatability.
- ✓ Unbeatable slitting precision.
- ✓ Control panel operates all functions.
- ✓ Control system can be integrated with nulT.
- ✓ Automated knife set up.
- Ready for full automation of coil service center to automated forming.

	PSM
Material width	1250mm (50")
Steel, max sheet thickness*	1mm (20ga)
Stainless steel, max sheet thickness*	0.6mm (22ga)
Aluminum, max sheet thickness*	1.5mm (0.060")

<sup>\*</sup> Capacity with five pairs of slitting knives



## Biggest output – lowest noise.

The CIDAN RAPIDO is a guillotine shear with a robust construction and will cut all material qualities without settings at all. The electrical geared motor offers impressive power, uses very little energy and furthermore runs with low noise output for a good and comfortable working environment.

RAPIDO maintains an impressive speed at 37 cuts per minute. LED lighting above the cutting line provides excellent clear overview. Thanks to the position of the plate holder only 2.5 cm (1") from the cutting line there is minimal waste.

Choose from working widths of 1350 mm (53"), 2550 mm (100") or 3100 mm (122"). RAPIDO comes fully equipped in standard version, but also has a wide range of additional options such as back gauge and sheet support. CutLink is the easy-to-use, fast and precise control system that makes sheet metal processing easy by scheduling and controlling every step and function in the production process. With the motorized back gauge placed directly on the stop arm there is low noise output and the upper side of the guillotine is kept free. The program allows for 10 lines with different measurements and quantities.

#### Working length Steel, max sheet thickness Stainless steel, max sheet thickness Aluminum, max sheet thickness

RAPIDO 13	RAPIDO 25	RAPIDO 30
1350 mm (53")	2550 mm (100")	3100 mm (122")
3.5 mm (10ga)	2.5 mm (12ga)	2.5 mm (12ga)
2 mm (14ga)	1.6 mm (16ga)	1.6 mm (16ga)
5 mm (0.196")	3.7 mm (0.145")	3.7 mm (0.145")

#### The most important advantages:

- Easy to use.
- ✓ Well-equipped as standard.
- ✓ Fast at 37 cuts/minute.
- ✓ Compatible with CutLink control system.
- ✓ Squaring arm mounted on both left and right sides as standard.
- ✓ Telescopic table extension.

#### **Examples of options:**

✓ Squaring arm with or without T-groove and tilting stops.



# Choose a machine with muscle and sharpen up.

The CIDAN EVO guillotine is both heavy duty and agile with fast cut speeds. With a working width of 3100 mm (122") it cuts through up to 4 mm (9ga) thick steel plate. Choose width 4100 mm (161") and you can cut through 2.5 mm (13ga).

EVO is multifunctional and adaptable. Blade gap adjustment, flexible table rails and sheet support that moves down along with the sheet for cutting are all standard. If you require even more there are optional extras, for instance the motorized back gauge (up to 1000 mm (39.3")) that can be positioned quickly from settings in the front of the machine.

Thanks to the unique T-groove rails the feeding table can be easily configured. Along with the wide variety of sheet handling systems and pneumatic sheet support options available, this machine is also suitable for cutting more sensitive materials

Low running costs, low noise output and low environmental impact are all included as standard.

#### The most important advantages:

- ✓ Compatible with CutLink the simple, easy and precise control system.
- ✓ Flexible table that can be adjusted exactly to your needs.

#### **Examples of options:**

- ✓ Support arms with or without tilting stops.
- ✓ Adjustable squaring arm with easy-to-read graduated scale.

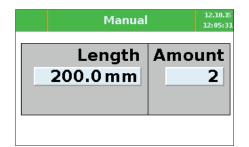
Working length Steel, max sheet thickness Stainless steel, max sheet thickness Aluminum, max sheet thickness

EVO 30	EVO 40
3100 mm (122")	4100 mm (161")
4 mm (9ga)	2.5 mm (12ga)
2.25 mm (14ga)	1.6 mm (16ga)
5.5 mm (0.216")	3.7 mm (0.145")

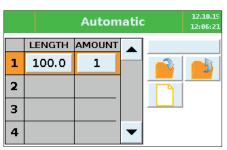
# Make light work of heavy sheet metal.

CIDAN Machinery offers smart sheet metal handling systems that will make your workload far lighter. You can equip your guillotine shear so that the cut pieces arrive at the front or the back of the machine. On RAPIDO fixed squaring arms on both sides of the lined table are standard. For EVO you choose what suits your production best. Table plates give support and

flexibility and come with or without ball casters depending on the material and weights you work with. EVO can be fitted to advantage with squaring arms and support arms for easier handling of heavy material. You choose both the number and the lengths. Millimeter scales and T-grooves with tilting stops are other smart accessories that can make light work of sheet metal.



With CutLink set to manual you set the measurement and the quantity. The counter then keeps track of how many pieces you cut. On the menu "Quick setup" you control sheet support, hold down beam and cutting sequence.



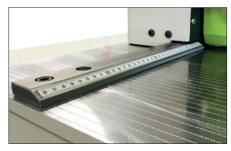
With CutLink set to automatic you can program 10 lines with measurements and number of pieces to be processed in sequence. You can save the settings in the system memory.



With a wagon as an alternative to fixed return plate you can easily move cut material to another workstation. Lift the wagon with a forklift truck (it can carry 400 kg (881 lbs) metal) to avoid back



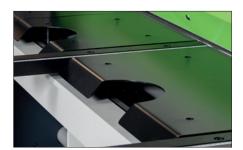
Telescopic table extension for RAPIDO to 800 mm (31.5") from cutting line.



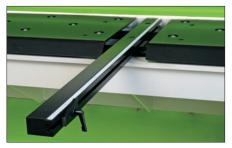
RAPIDO has scored measuring lines at ten millimetre spacing and fixed squaring arm on both sides.



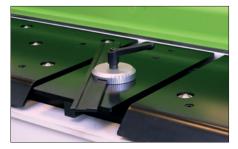
Equip your sheet metal shear with a long squaring arm (up to three meters), and add a T-groove and



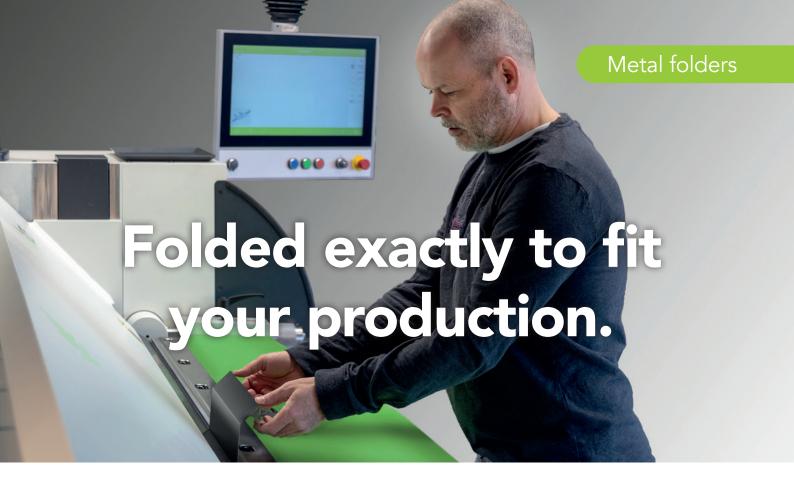
EVO is equipped with table plates at the correct length, preferably with ball casters for better handling of easily damaged or heavy material.



EVO support arms are strategically positioned for easier handling. With T-groove and tilting stop the cut material arrives at the front of the shear while the trimmings are inside the machine.



EVO has an adjustable squaring arm with clear graduated scale for angled cutting



Fast, accurate and tireless. CIDAN Machinery is proud to be a world-wide industry leading source for sheet metal folders and metal bending machines for the construction and manufacturing industries. CIDAN Machinery offers reliable, functional and innovative machines with built-in flexibility that will speed up your processes, simplify your day to day tasks and increase your profits. Our machines have short

start-up times and operate with minimal noise. A single operator can easily produce up to 13' parts from the simplest to the most advanced profiles while using only one set of tools. Take advantage of CIDAN's state-of-the-art machinery with leading and unique capabilities all as standard features!

#### With the right touch your production stays well tuned.



The CIDAN gauge fingers have unrivalled precision. The gauge fingers are placed close together giving you faster and easier control over your work - EGS or AGS back gauge systems will give you maximum flexibility.

#### EGS - the most important advantages:

- Fast and effective with servomotor and cogbelts.
- ✓ 2 mm-1020 mm (0.078"-40") gauging fingers.
- ✓ 10, 12 or 14 gauging rails for different lengths.



Spring steel gauging fingers for sensitive sheet handling and fine measurements.



With several rows of gauging finger positions with "stops" at every 500 mm (19.6"), any position on the back gauge can be reached in 2 seconds, speeding up the process between bends.



Ball casters prevent damage to materials and help with rotating heavier or larger material.

#### AGS - the most important advantages:

- Modular design tailored to suit your needs.
- ✓ Fast servomotor and linear guides for maximum speed and precision.
- ✓ 12, 14 or 16 gauging rails.
- Height adjustable option available for FORMA series and up.



## Cost effective with maximum benefits.

CIDAN F is fast, powerful, easy to use and reliable. The robust design has welded sides, extra strong lower beam and clamping beam. The folding beam, dual powered, is exceptionally rigid and stable but at the same time so narrow that the operator needn't step back when folding. The machine is generously designed with opening height of 150 mm (5.9") and the large recesses in the clamping beam, 49 mm (1.9") high and 57 mm (2.2") wide, allowing greater flexibility. There is also ample height above the straight rail to leave space for completed parts. CIDAN F is the master of fine detail with spring steel gauging fingers and the narrowest folding rail on the market. Get precision, finish and flexibility with quick change folding beam tooling, and crowning adjustment as standard for detail radius work.

- ✓ Fast, user friendly and reliable.
- ✓ Adjustable crowning for perfect folding results for any thickness and width.
- ✓ Two folding rails widths 7/10 mm (0.27"/0.39") and  $15 \, \text{mm} (0.59")$  as standard. Other options available.
- ✓ 10–14 gauging fingers depending on model and length required.

Working length
Steel, max sheet thickness
Stainless steel, max sheet thickness
Aluminum, max sheet thickness

F25	F30
2600 mm (102")	3200 mm (126")
1.75 mm (16ga)	1.5 mm (16ga)
1.1 mm (20ga)	0.9 mm (20ga)
2.6 mm (0.1")	2.2 mm (0.090")



# A workhorse with unrivaled flexibility.

CIDAN FS/FX is the most powerful metal folder in its class – strong, exact and almost impossible to wear out. With welded sides, clamping beam with eccentric drive and extra strong lower beam, this machine is optimized for the highest levels of productivity, low maintenance costs and problem-free running, year in and year out. The straight rail is divided into 3-5 segments for quick and easy changing. The machine has three different folding rail widths to choose from with quick change design. The FX offers 125 mm (4.9") high box tooling with fast locking. The opening height is 150 mm (5.9") on both the straight rail and Combi beam sides. With box tooling you gain more free space and can fold profiles with very fine measurements. Changing from straight rail to box tooling takes only 6.3 seconds. Combine FS/FX with the ProLink control system for exact control, better overview, easier program storage and faster operating. You can even generate folding sequences, collision control, easily managed material tables, tool memory and many more exclusive functions. CIDAN FS/FX gives you an unrivalled combination of raw strength and flexibility.

#### The most important advantages:

- ✓ Stable and well-balanced construction.
- ✓ Combi beam with 125 mm (4.9") tall tooling on FX Series.
- Crowning adjustment and quickchange tooling as standard.
- Quick changeovers.
- ✓ Foot switch with three pedals and moveable foot switch on rail are important safety features.
- Easy to maintain.

Working length Steel, max sheet thickness Stainless steel, max sheet thickness Aluminum, max sheet thickness

FS25/FX25	FS30/FX30	FS40/FX40
2600 mm (102")	3200 mm (126")	4100 mm (161")
2.5 mm (12ga)	2 mm (14ga)	2 mm (14ga)
1.6 mm (16ga)	1.2 mm (18ga)	1.2 mm (18ga)
3.7 mm (0.145")	3 mm (0.125")	3 mm (0.125")



## Automation with power and precision.

CIDAN FORMA metal folder reflects decades of experience and development in technology and design. FORMA is a "cross-over" capable of handling requirements from small series production to proper subcontracting. It offers speedy production, easy ergonomics, strong construction, quick tool changes, and simplicity in programming. The FORMA metal folder is equipped with Combi beam as standard and can be equipped with Multifold as an option. FORMA has a robust construction for decades of trouble-free operating. Dual drive of the upper beam together with CLS technology creates maximum clamping pressure resulting in precise folding and results. There is a wide choice of tools and together with us you can design your own tool setup to fit your production perfectly. Simplicity in programming and quick tool changes reduce set up time to a minimum for maximum efficiency and flexibility. The FORMA control panel can be rotated for optimal viewing and the screen can be turned to the gauging side of the machine when folding large details, for better ergonomics and greater efficiency.

	FORMA 30 Combi/Multifold	FORMA 40 Combi/Multifold
Working length	3100 mm (122")	4100 mm (161")
Steel, max sheet thickness	3 mm (11ga)	2.5 mm (12ga)
Stainless steel, max sheet thickness	1.9 mm (14ga)	1.6 mm (16ga)
Aluminum, max sheet thickness	4.5 mm (0.177")	3.7 mm (0.145")

- ✓ Stable construction.
- Programmed plate thickness settings.
- Choose between three different heights for box tooling.
- C-tool for deeper profiles.
- Large selection of rails and tools.
- Combi beam as standard, multifold as option.

# Save time, money and the environment with our control systems.



**EasyLink** is a complete and user-friendly control system for quick and easy programming. EasyLink can store 1000 profiles each with 99 steps. In every program step, the angle, gauge dimension, opening height, clamping pressure and hem pressure can be programmed. Some of the special functions available

with EasyLink are copying programs, incremental dimensioning, and radius folding. From the easy-to-read touch screen the operator gets clear messages about the programming and operation. The touch screen panel is mounted on a rotating bracket, so that the operator can see it clearly through every step.



With EasyLink you have all the information on the screen at once. You see all 9 program lines and the folding process is easy to



With **ProLink W** you get precise and fast control of your metal folder. You can choose between using a stored profile, drawing your own custom profile or entering your measurements with classic line-by-line

programming. ProLink W suggests optimal folding sequences, detects collisions, calculates cut size and gives you all the data you need for folding. The program has a built-in material library that calculates machine parameters from material qualities, plate thickness and length of finished part. You have an excellent overview of the folding process from the screen where you are presented with all the necessary instructions for

a successful result. Every program saves the tool setup you have chosen, which means that the next operator can easily pick up where you

ProLink W is Windows based and can be linked up to your network. You can also import programs via a barcode reader. From nuProduction you can import dimensioned profiles directly into the system and you can also import dxffiles to create folding programs. Separate importing from nuPRo and .DXF.



It's easy to draw your own custom profile, enter dimensions, choose angles and enter values for radius



The operator follows the sequence on the screen and receives instructions for the following stages.

## You'll find us wherever we are needed.

The CIDAN Machinery Group markets CIDAN,

Forstner and nulT. Our products are sold through dealers and agents in more than 30 countries. For over 110 years CIDAN Machinery has been making sheet metal machinery and today we offer a wide range of solutions and products for the sheet metal, construction and manufacturing industries. All CIDAN machines are

made in the CIDAN Machinery factory in Sweden. Machines for professional processing of coils are made in Austria by Forstner who have more than 60 years of experience. All our machines are based on our own innovative solutions and patents. Our goal is to offer flexible, easy-to-use machinery of the highest quality.



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