

## TECHNICAL QUOTATION

Thank you for the interest in CIDAN technology.  
We are pleased to offer you CIDAN products as follows

### CIDAN FX-Series FOLDER



## FX-Series

# Table of content

<b>FX-Series .....</b>	<b>3</b>
<b>Technical specifications.....</b>	<b>3</b>
The most important advantages .....	4
Drive system.....	4
Rotating Combi Beam.....	4
Guiding gib on upper beam .....	4
CNC material sensing .....	4
High divided box tooling .....	5
Straight rail.....	5
Folding beam.....	5
Folding beam tooling.....	6
Quick tool changing.....	6
Lower beam .....	6
Lower beam tooling .....	6
Upper beam clearance.....	7
Material thickness adjustment.....	7
Crowning adjustment.....	7
EGS back gauge.....	8
FLEXIBLE back gauge .....	8
Small parts gauging .....	8
Several rows of gauging stops .....	8
Control system EasyLink.....	9
Control system ProLink W .....	9
<b>Options.....</b>	<b>10</b>
Round straight rails .....	10
Steel ball transfers.....	10
Moveable foot pedal on rail.....	10
ProLink offline.....	10
<b>Smart factory software.....</b>	<b>11</b>
Discover the smart planning tool for metal trims.....	11
nuEvolution .....	11
<b>Terms.....</b>	<b>12</b>

## FX-Series

CIDAN FX is the most powerful metal folder in its class - strong, exact and almost impossible to wear out. It is also equipped with our unique rotating Combi Beam. By rotating the Combi Beam you can change from straight rail to 125 mm high divided box tooling within a few seconds. Look forward to highest stability, low maintenance costs and problem-free running, year in and year out.



## Technical specifications

Model	Folding length	Folding capacity			Folding capacity			Weight
		Steel <sup>1</sup> mm	Stainless steel <sup>2</sup> mm	Aluminum <sup>3</sup> mm	Length mm	Width <sup>4</sup> mm	Height mm	
FX26	2600	2,5	1,6	3,7	3645	2040	1970	3400
FX32	3200	2,0	1,2	3,0	4195	2040	1970	3750
FX41	4100	2,0	1,2	3,0	5145	2040	1970	4820

Tensile strength <sup>1</sup>400 N/mm<sup>2</sup> – <sup>2</sup>600 N/mm<sup>2</sup> – <sup>3</sup>200 N/mm<sup>2</sup> – <sup>4</sup>with motorized back gauge EGS

Opening height clamping beam.....	150 mm
Motor clamping beam .....	1,5 kW
Motor folding beam, EasyLink.....	1,5 kW
Motor folding beam, ProLink W.....	2,2 kW
Clamping pressure .....	140 kN
Air pressure .....	6 bar
Power .....	400 V
Amperage .....	16 A

## FX-Series

### The most important advantages

- ✓ Rotating Combi Beam with straight rail and high divided box tooling
- ✓ Adjustable crowning for perfect folding results for any thickness and width
- ✓ Two folding rails widths 7/10 mm and 20 mm as standard. Other options available
- ✓ 10-14 gauging fingers depending on model and length required

### Drive system

The reinforced side frames insure steady guiding of the clamping beam and folding beam. The clamping beam is eccentric driven which eliminates wear and tear during movement as well as providing the best possible opening and closing speeds. The eccentric drive eliminates adjustment of parameters during the life of machine, which insures long life on the clamping motor. When clamping, the eccentric enables very high clamping pressure, which is a great advantage when closing hems.

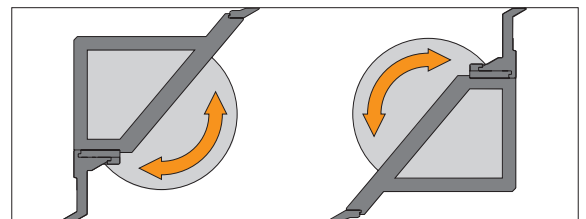
### Rotating Combi Beam

Combi Beam means you always have access to two different tools. With Combi Beam it only takes 6,3 seconds to rotate and change from straight rail to high divided box tools. Combi Beam increases the flexibility and you will have the same opening height regardless of tool selection.



Straight rail and high divided tool in the sama machine.

The Combi beam offers flexibility like no other tooling system. With a simple rotation of the upper beam, you can switch between the straight rail and box tooling in a matter of seconds. This gives the ability to form a larger variety of parts with little or no tool changing.



Rotation of Combi Beam, the change takes 6,3 seconds.

### Guiding gib on upper beam

Long 533 mm phenolic guiding gib on the clamping beam and side frames allows for stable guiding without deflection.

### CNC material sensing

Automatic material thickness sensors prevent machine from over clamping on thick material, prolonging the life of the machine. These sensors are also helpful for clamping soft material, as the control can adjust the clamping pressure between 0 and 100% or by position.



Guiding gib.

## FX-Series

### High divided box tooling

FX offers 125 mm high divided box tooling with fast locking. With high divided tools you gain more free space and can fold profiles with very fine measurement. High divided tools has a radius of 1 mm.



Box tools with fast locking, easy to move.

### Straight rail

The upper beam is equipped with a straight rail divided in 3-5 segment, allowing quick and easy changing and lowering replacement costs in the event of damage.



Straight rail 30° with radius 1 mm.

### Folding beam

The folding beam has a width of 52 mm with a 38 mm reinforced weldment plate for long and continuously stable folding. 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.



Powerful but yet short folding beam.

## FX-Series

### Folding beam tooling

The FX-Series comes as standard with 3 sets of folding beam widths; 7 mm, 10 mm and 20 mm.



Three widths of the folding beams as standard.

### Quick tool changing

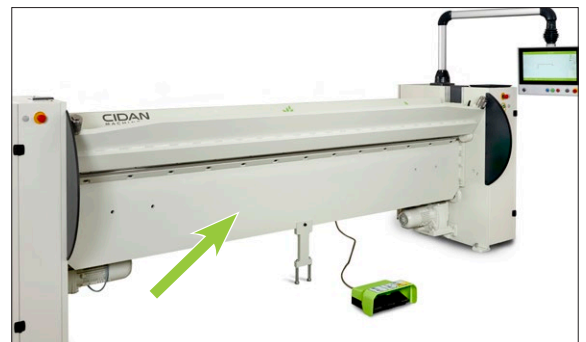
The bayonet tooling system enables operators to quickly change the folding beam tools, minimizing setup time. Instead of removing the bolts completely, only loosening them will allow operators to slide the tooling off. One of the blades is dual sided, 7mm on one side and 10mm on the other.



Quick changes thanks to the bayonet tooling system.

### Lower beam

The lower beam is a large weldment with crowning adjustment.



Sturdy lower beam.

### Lower beam tooling

The solid lower beam tool will prevent any sensitive or light gauge material from getting damaged, scratched or indentations during clamping.



Solid lower beam tooling.

## FX-Series

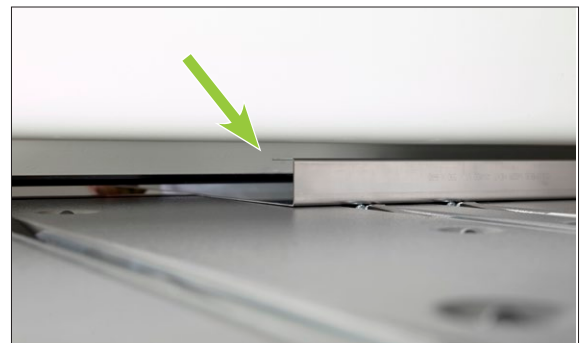
### Upper beam clearance

Upper clamping beam has 57 mm of clearance on both sides of the clamping tool. This allows the option of longer tooling if required. Underneath the clamping beam there is 49 mm of relief, this is great for parts that require greater workspace such as vented ridge caps.



Large recesses in the clamping beam.

The height behind the straight rail is also well sized to make room for already folded details.



Well sized room also behind the straight rail.

### Material thickness adjustment

Easy adjustment of the material thickness on the folding beam allows for quick change-over from job to job. It is easy as loosening the handle and turning the dial to the appropriate thickness that is shown on the gradient scale.



Material thickness adjustment.

### Crowning adjustment

The folding beam has a standard crowning adjustment for forming various material types and thicknesses without compromising straightness of 3200 mm parts. This is a big advantage, especially for radius work, as it offers a faster and more accurate setup that replaces the need to shim.



Easy crowning adjustment.

## FX-Series

---

### EGS back gauge

The EGS back gauge has one servo motor and belt drives on both sides and it takes less than two seconds to get an exact position between 2 and 1020 mm. First row stop units are made of spring steel as standard. All the stop units can drop down automatically to avoid collision when the material needs to be rotated on the table.



EGS back gauge 1020 mm, steel ball transfers are optional.

### FLEXIBLE back gauge

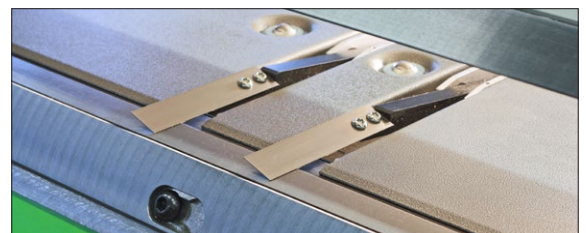
FLEXIBLE is a strong and stable back gauge with a depth of 1550 mm. Thanks to strong legs and a smart design, it can handle sheets up to 160 kg. The back gauge is equipped with dual servo motors, ball screws and linear guides for highest precision and repeatability. The back gauge speed enables the productivity to increase and at the same time, decreases the costs of your forming operation. Front stop units are made of spring steel as standard. The stop units can be dropped down automatically in every program row, which prevents any collision with the stop units when the sheet needs to be rotated.



FLEXIBLE back gauge 1550 mm as standard.

### Small parts gauging

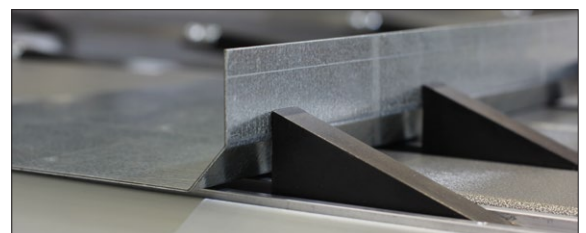
Staggered gauging across the length of the machine makes small parts gauging possible on either side and in the middle of the back gauge. The solid lower beam and spring steel fingers allow closer gauging to the bend line as well.



Spring steel fingers for close gauging.

### Several rows of gauging stops

With several rows of gauging finger positions, any position on the back gauge can be reached in 3 seconds, speeding up the process between bends.



High solid fingers.



## FX-Series

### Control system EasyLink

EasyLink is a complete and user-friendly control system, fast and easy to program. EasyLink has the possibility to 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 possibilities available with EasyLink are copying programs, incremental dimensioning, and radius folding. From the 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 easily can adjust the screen to the situation.



EasyLink with 10" screen.

Huvudmeny			
Part 1013			
ALLA LINJER			
0.0	0	0	0
LINJE: 5 NORMAL			
18	0	AV	
1	140.0°	10.0	
2	0.0°	178.0	
3	45.0°	167.0	
4	90.0°	142.0	
5	30.0°	127.0	
6	90.0°	110.0	
7	90.0°	98.0	
8	60.0°	85.0	
9	40.0°	40.0	

### Control system ProLink W

The ProLink W program is developed specifically for CIDAN folding machines and offers unlimited possibilities. From start to finish, ProLink W is designed for even an inexperienced operator to comfortably navigate, program, proof, and easily form parts.

Interactive graphic pictures are shown to the operator with instructions like rotate or flip the part, a condition to correctly being able to produce complicated details. In the control memory you can store a large amount of programs and you can also store programs on a USB stick as well. Every program can be saved with a graphical icon, with name and information.

The ProLink W calculates cut size and automatically creates a program. The finished part is shown with its actual folding sequence. The touch screen is mounted on a rotating bracket for optimal viewing. With the offline-software option, programming can be completed in the office away from the machine.



Standard ProLink W with 15.5" screen.



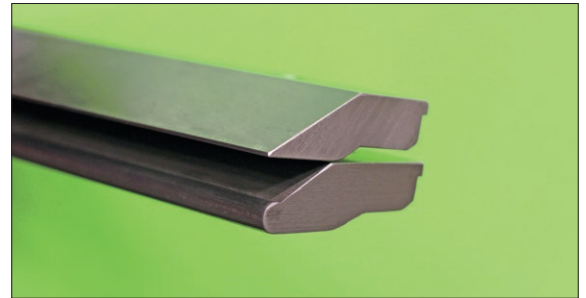
Option, ProLink W with 18.5" or 21.5" screen on pendant arm.

## FX-Series

# Options

### Round straight rails

We offer straight rails with radius 1,5 eller 2,5 mm for more adjusted folding of special profiles. Also suitaböe when folding zink and aluminum.



Round straight rails.

### Steel ball transfers

Steel ball transfers on the backgauge assist with the positioning of larger, heavier parts and reduce the risk of scratching the material. (Standard on AGS and option for EGS)



Steel ball transfers standard on AGS back gauge.

### Moveable foot pedal on rail

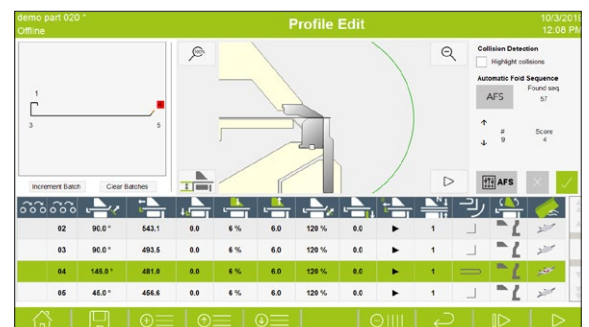
Allows the operator to move the foot pedal quickly and smoothly along the folding area. Appropriate when folding is done with several folding stations. This option is considered a great safety feature when bolted to the floor. When operator engages foot pedal, they are away from the upcoming folding beam.



Rail for moveable foot pedal, increases safety.

### ProLink offline

With the offline-software option on ProLink W, programming can be completed in the office away from the machine.



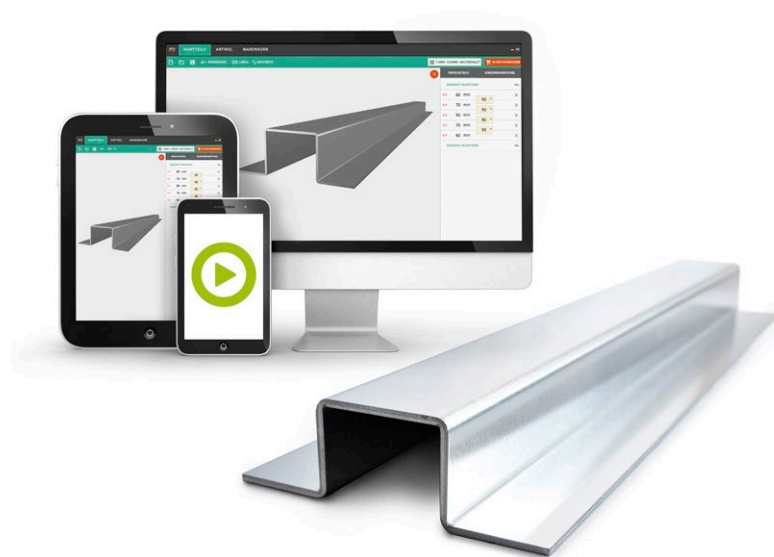
ProLink W off-line programming.

FX-Series

---

## Smart factory software

Discover the smart planning tool for metal trims



Efficient sheet metal working begins and ends with nuEvolution from nuIT – the smart planning tool that revolutionizes your entire manufacturing process. Combine nuEvolution with the impressive power and agility of our machines for perfect overview, good results, shorter lead times and increased profitability. All you need is a tablet or laptop and your finger



### nuEvolution

nuEvolution is extremely user friendly and can be managed by anyone, anywhere. Draw or enter your desired profiles quickly and easily on the construction site, factory floor or wherever you are. Measure and adjust the angles easily so that your 3D profile matches reality. nuEvolution enables accurate values and makes your work playable easily. Select the color and material from the predefined materials and enter the desired length and number. The program ensures that you always deliver complete drawings, where no measurements or other data are missing.

# Terms

## Warranty

12 months or 1800 hours, whichever occurs first.

## Others

Instructions in English. Service och repairs should be performed by CIDAN Machinerys own service department or by CIDAN Machinery Sweden AB approved service technician.

## Changes and additions

If the buyer changes the financing form or for other reasons transfer the order to another buyer after the order is confirmed, CIDAN Machinery Sweden AB has the right to charge the purchaser or the buyer administrative additional costs of 300 EUR. When prepayment invoices are credited and rewritten to another buyer, the original invoice's due date applies.