

TECHNICAL QUOTATION

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

CIDAN FORMA Z FOLDER





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The CIDAN FORMA Z metal folder is the most flexible and diverse machine in our profile. Folding both up and down, this machine eliminates the need to flip material, providing time-efficient folding of complex parts using one operator. With the capacity to fold both directions while maintaining the ability for up acting front operation for small batch runs, this machine is proven to be the complete package for sheet metal shops.



Technical specifications

Model	Folding length	Folding capacity			Outer dimensions			Weight
	mm	Steel ¹ mm	Stainless steel ² mm	Aluminum³ mm	Length mm	Width ⁴ mm	Height mm	kg
FORMA Z 30	3200	3,0	2,0	4,5	4900	2750	2000	7200
FORMA Z 40	4100	2,0	1,4	3,5	5800	2750	2000	9500

Tensile strength $^1400\ N/mm^2-^2600\ N/mm^2-^3200\ N/mm^2-^4$ with motorized back gauge AGS

Opening height clamping beam	2 x 1,1 kW
Motor folding beam Clamping pressure	
Air pressure	6 bar
PowerAmperage	



The most important advantages

- ✓ Folds both upwards and downwards
- CNC controlled crowning of folding beam
- ✓ No need to flip the material saves time and money
- ✓ Speed faster tool changing thanks to the rotating Combi Beam

Drive system

The eccentric driven clamping system eliminates wear and tear during movement and gives the most efficient opening and closing speeds. The eccentric dual driven clamp system removes the need to adjust parameters during life of machine which insures long life on clamping motor. When clamping, the dual motor eccentric clamping enables very high clamping pressure which is a great advantage when closing hems and working with larger tool heights.

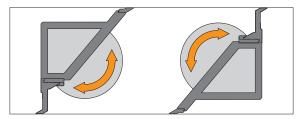
Rotating Combi Beam

FORMA Z is equipped with Combi Beam as standard, which means you always have access to two different tools. With Combi Beam it only takes 10 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 10 seconds.



High divided box tooling

FORMA Z offers high divided box tooling in 203 mm height. With high divided tools you gain more free space and can fold profiles with very fine measurement.



High divided box tooling 203 mm.

Automatic tool locking

All divided tooling in both upper beam and folding beam are locked automatically.



Automatic tool locking.

Straight rail

The upper beam is equipped with a straight rail divided in 4-5 segment, allowing quick and easy changing and lowering replacement costs in the event of damage.



Straight rail 30° , also available in hardened steel.

Folding beam

Folding beam is dual driven by two 4 kW motors, it is very rigid and stable.



Sturdy folding beam in upper position.



Multifold

Divided tooling for maximum flexibility in every situation! FORMA Z is as standard equipped with Multifold execution with segmentet tools in the lower beam and folding beam. This caters to parts that have flanges facing downward into the machine. This allows the operator to bend weld tabs and parts with interrupted bend lines. Multifold in combination with a height adjustable back gauge (option) increases the benefits and flexibilyte even more.



Multifold with divided tooling in the lower beam and folding beam.

Folding beam tooling

Folding beam tools are available in severeal dimensions from 8 mm up to 25 mm. All folding beam tooling are segmentet since the FORMA Z has Multifold execution as standard.



Four different widths of folding beam tools.

Lower beam tooling

Even the lower beam tooling is segmented for a maximal Multifold function. A high quality lower beam tool will prevent any sensitive or light gauge material from getting damaged, scratched or indentations during clamping.



FORMA Z Multifold with segmented lower beam tooling.



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.

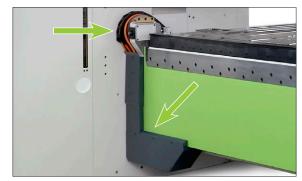
The ProLink W calculates cut size and automatically creates a program. The finished part is shown with its actual folding sequence. The touch screen is mounted on a rotating bracket for optimal viewing. With the offline-software option, programming can be completed in the office away from the machine.



FORMA Z as standard equipped with ProLink W with 21.5" screen on a pendant arm.

CNC controlled sheet thickness and folding center adjustment

FORMA Z comes as standard with CNC controlled sheet thickness and folding center adjustment.



CNC controlled sheet thickness and folding centre.

CNC controlled crowning of folding beam

Crowning of folding beam is automatic and runs by the control system ProLink W.



CNC controlled crowning.



AGS back gauge

The base unit is U-shaped and spans over the length of the machine and has a depth of 1550/1050/1550 mm. AGS back gauge is equipped with ball screw, linear guides and servo motor 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. Back gauge panels can be moved backwards when folded details requires free space behind the lower beam tool.

Design your own back gauge after your needs with different modules. You can install additional modules to the right or left up to a total depth of 4300 mm and add in the middle section as well. For large applications like panels, doors and cabinets, we recommend a J-shaped or U-shaped back gauge. The operator can choose to work either at the folding or gauging side of the machine. Even 3 and 4 m parts can easily be handled by one operator.



AGS back gauge 1550/1050/1550 mm as standard.



AGS back gauge designed after your needs.

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 posistions with "stops" at every 500 mm, any position on the back gauge can be reached in 2 seconds, speeding up the process between bends.



High solid fingers.



Laser scanner on folding side

When operating the machine from the back gauge side, the laser scanner protects the folding side area. The emergency stop is activated immediately if someone enters the safety zone.



Laser scanner mounted in the folding side.

Light guard on gauging side

Light guard on folding side protecting the operator from collision with the rotating Combi Beam.



Light guard on gauging side.



Options

Vacuum grippers* in the back gauge

AGS back gauge can be equppied with vacuum grippers, holding and re-positioning the material needed to be folded. With vacuum grippers the FORMA Z becomes semi automatic.

*Vacuum package consists of 6 to 8 (depending on working length) rails and two foot pedals for activation.



Vacuum grippers in the back gauge.

Height adjustable back gauge

Height adjustable back gauge is an option for FORMA Z. Height adjustable between 0-50 mm, perfect for gauging reverse z-flanges on the back gauge.



Height adjustable back gauge for Multifold.

Collapsable corner tools

Collapsable corner tools indispensable in the manufacture of boxes, doors and similar profiles. Sold in pairs with right and left corner tools.



Collapsable corner tools for manufaturing of boxes and doors

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.



Extra foot pedal

Extra foot pedal with key switch. Suitable when you need to operate the machine from the rear.



Extra foot pedal with key switch.

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.

Tool cart

Safely store the divided tooling for your CIDAN folder. The tool cart is recommended to decrease the risk of damaging tools and misplacing tools during tool changing. It is possible to store divided rails on the cart and there is room for hand tools for the operators and machine instruction manual. The cart is equipped with lockable wheels and pull handles. A given accessory for machines equipped with Multifold.



Tool cart for safe storing of divided tools.

Compressor

For drive of the back gauge and the automatic tool locking in upper nad lower beam.



 ${\it Compressor}\ for\ the\ back\ gauge.$



Robot interface

Prepared for robot. With robot you get a fully automatic production unit.



Folding machine served by a robot.

Cooling package

Cooling of the electrical cabinet, recommended if ambient temperature $> +35^{\circ}$.

Auxiliary outputs

Auxiliary outputs for external communication (6 outputs).



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

Terms of sales

Orgalime S 2012

Terms of payment

See quotation

Terms of delivery

See quotation

Delivery time

See quotation

Warranty

24 months or 3600 hours, whichever occurs first.

Installation

See quotation

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 2000 SEK. When prepayment invoices are credited and rewritten to another buyer, the original invoice's due date applies.