

# Machinery Quotation

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## Autofold516 –Fabriflange 2 stage system



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## **AUTOFOLD 516 Automated Ducting Machinery**

The Engel Europa Autofold 2 stage system offers customers the flexibility to have a duct machine built according to their exact specifications, ensuring it meets the diverse needs of duct manufacturing worldwide. While customized, the machine still adheres to the standard manufacturing processes that have been proven successful in factories around the globe for over 4 decades.

Having delivered thousands of machines since 1981, the Autofold range has consistently demonstrated its design durability and impressive payback results across the world.

### **Robust Construction:**

Every Autofold machine is constructed using heavy-duty welded frames, incorporating Bosch Rexroth hydraulics. Our machines also feature a proprietary controller and software that can be tailored to meet specific customer requirements.

The Autofold has a remarkable track record of reliability, even in harsh environments, thanks to its design and manufacturing process that enables it to operate effectively in extreme upper and lower temperatures.

The Transfer line has the advantage over straight lines that cannot do the following actions

- 1 drive cleat and tdf can be done on the same machine
- 2 flat sheet for plasma take off is easily done
- 3, fast production rates
- 4 ,Snaplock and Pittsburgh locks are automatically changed with only software input ,no operator input is required
- 5.Bespoke built to work around your factory flow

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At the core of every Autofold machine lies an advanced control system, offering a range of options to suit different requirements. This system has been specifically developed for the Autofold machine range and has undergone continuous enhancements throughout its 40-year lifespan.

The controller utilizes a custom single board computer running specialized software, resulting in an intuitive and user-friendly control interface.

Unlike many other machine manufacturers who rely on outsourced control systems and generic machine control packages, Autofold maintains full control over its system. This ensures greater reliability and flexibility as third-party suppliers cannot discontinue or alter functionalities without consulting the machine builder. Additionally, Autofold provides comprehensive support and repair services for all control systems, regardless of their age.

The controller actively monitors machine commands and responses, promptly notifying the user in the event of any machine faults, providing clear feedback.

Order Description		Job Description	
Customer		Name	Made Gauge
Piece Description		BOX 450x450, LPITTS	0 of 1 20g Galva.
Quantity to Make	10	L 350x400, NONE	0 of 4 20g Galva.
		350x400x150, NONE	0 of 10 22g Galva.
Section	Standard U Section	Name	350x400x150, NONE
Size	350.0 mm x 400.0 mm x 150.0 mm	Quantity	10
Lock	No lock allowance	Section	Standard U Section
Fold	<input checked="" type="checkbox"/> (Fold on Autofold)	Size	350.0 mm x 400.0 mm...
Fabriflange	<input type="checkbox"/> (Fold on Fabriflange)	Fold	Yes
Punch	<input type="checkbox"/>	Notch	No
Drive Cleat	<input type="checkbox"/>	Drive Cleat	No
Tie Rod: Sides 1+3	0 2+4 0	Fabriflange	No
Gauge	22g Galvanised Coil	Gauge	22g Galvanised Coil
Part Name	350x400x150, NONE		

F1 Make
F2 New Job
F3 Delete Part
F4 Promote Part
F5 Insert Part
F6/Escape Main Menu

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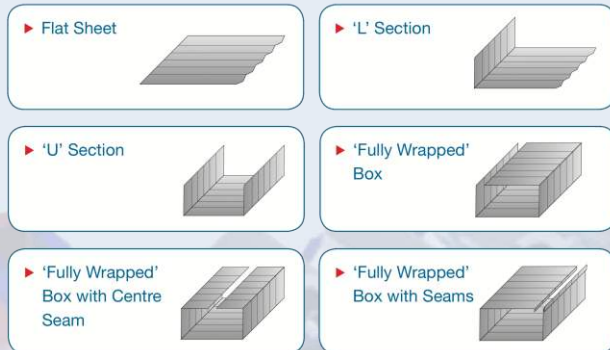


# Autofold Standard Features

All Autofolds have the standard features below

The Autofold fold and Shear Head has 2 blades that are equipped with 4 cutting sides each giving many years of continuous production  
The shear operates from the bottom to allow the duct to be wrapped around the fold Beam.

Sections that can be made on an Autofold



## Leveller and Beading

The 7 roll leveller is the drive of the Autofold and is driven direct from the Autofold hydraulic gearbox to eliminate any wear or slack in chains found on other machines.

The leveller and Beader rolls can be operated from either side via direct shaft for added accuracy.

The rolls are s-45 carbon steel machined and ground  
And are of solid bar type.

No chains that can stretch are used in our levellers.



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# Autofold Standard Features

5 tonne Expandable mandrels . 4 included in price



"I" Beam Decoiler with hydraulic  
Power coil drive



All spindles are rated for 5 tonnes maximum weight at 1500 wide  
But can accept smaller widths

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# Hydraulic Servo Drive System

All Autofolds use the hydraulic drive system that is controlled by our Autofold “v” system this ensures energy efficient motors coupled with compact hydraulic system fitted inside all machines ,there is no air required on any Autofolds.

## Control System

At the heart of the Autofold is the advanced solid state control system This has been continuously developed through the Autofold life.

The controller is based around a single board pc running bespoke software with embedded OS Windows 10 having an intuitive and easy to use control interface ,thus making the Autofold easy to learn and operate by multiple employees in the factory environment through a touch screen interface

The controller consistently monitors machine functions and operations In the even of a machine fault or incorrect usage or power supply failure the system will give a clear onscreen feedback to the operator .

If the control system is connected via the optional wifi to the customers network and then via to the our factory diagnostics team who can be called on to assist with any questions or data can be extracted and investigated.

All Machine power is fed through the controllers via two power supplies 415v supply is all that is required .

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## Specifications

Machine weight starts at 3.500 kgs

Sizes dependent on spec

Power supply 480 multi tap transformer  
3 phase 25 amp supply required (no air)

3 phase 40 amp for the fabriflange

Maximum duct size – not restricted  
Minimum duct size -120mmx120mm

Fabriflange final side is 350 if folded but can be done smaller with no fold

Maximum gauge 1.6mm (1mm stainless steel)  
Minimum gauge 0.5mm

Fabriflange 1.2mm max through rollformers

Oil type -ISO 46

Blade specification –high carbon high chrome 4 cutting sides top/bottom

## Warranty

1 year warranty on parts and labor

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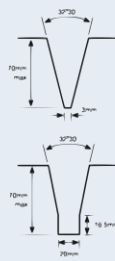


# Autofold Options

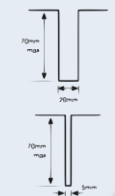
## Notching Included

2 pair of Notching stations  
both sides for Notching  
TDF/ TDC or drive  
cleated duct

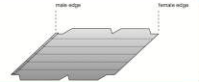
Notching Option 1



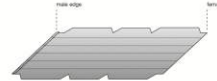
Notching Option 2



▶ 'L' Section  
Notch Pattern



▶ 'U' Section  
Notch Pattern



▶ 'Fully Wrapped'  
Notch Pattern



## Dual Head Drive Cleat

optional

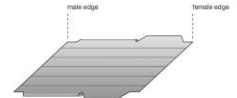
Inline drive cleat roll formers driven  
in line with the leveler motors  
No Minimum or maximum  
size restriction.  
Cleats can be on  
Sides 1+3  
2+4 or all sides



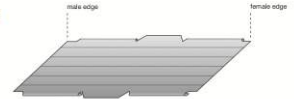
▶ Cleat Profile



▶ 'L' Section Drive Cleat  
on side 1



▶ 'U' Section Drive Cleat  
on sides 1&3



▶ 'Fully Wrapped'  
Section Drive Cleat  
on sides 1&3 or 2&4  
as required



▶ The Programmer can put  
Drive Cleats on all four sides  
of the duct if required



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# Autofold Options

## Extra coils 4 Included

Extra coils can be added either on “A” frame or “I” beam spindle included

## Hole punch Optional

3 off



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# Autofold Options

## Selector station Included

All Autofolds are fitted with a selector station these aids the operator in selecting a sheet that is held in the station ,increasing sheet gauge swapping for increasing production speeds

4 sheet selector

included



## Hydraulic power coil drive

included

The hydraulic power coil drive uses a hydraulic motor and gearbox on a track that slides up and down the coils to assist in the operator to unwind the coil to load the machine



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# Autofold Options Continued

## Side Eject system

Pittsburgh only

included

Snaplock male and female automatic change over

optional

The side eject can go left or right to suit the factory flow

Large Pittsburgh max thickness 1.6mm

Snaplock max thickness 1mm



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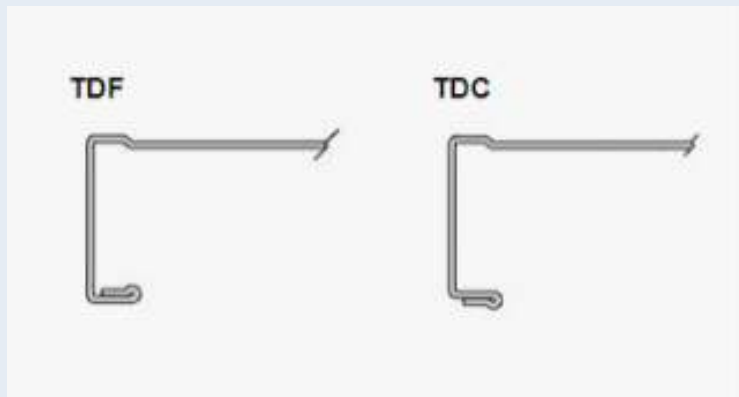
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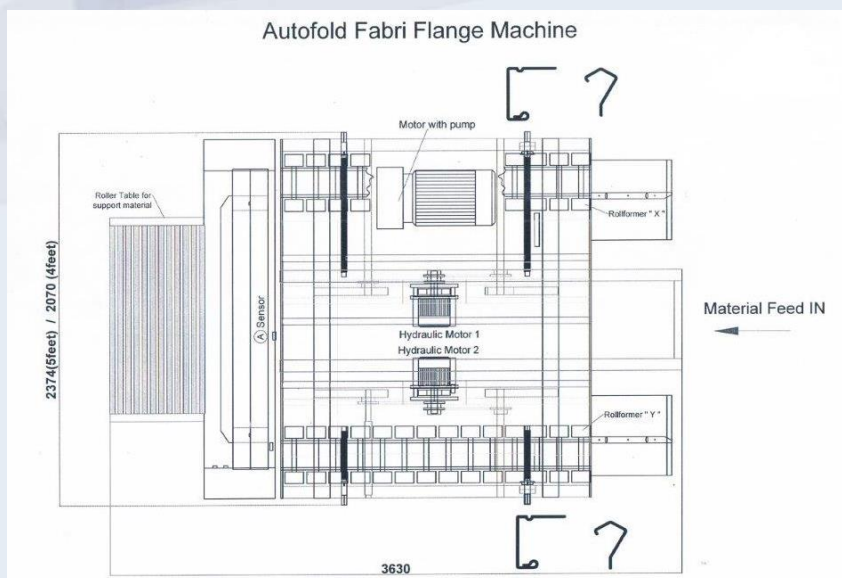
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# Autofold Options Continued

Flange types options below



Fabriflange sizes below



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# Autofold / Fabriflange 2 stage System



## Pittsburgh sealant



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