

Machinery Quotation

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Autofold 516

Automated Ducting Machinery



REV A
2019

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AUTOFOLD 516 Automated Ducting Machinery

The Engel Europa Autofold Duct coil line offers the customer to have a duct machine built to the customers exact specification so it fits with the needs of duct manufacture that differs worldwide while still retaining a machine built to standard manufacturing process well proven over decades in factories around the world.

With 1000,s of machines built since 1981 The Autofold range of machines have been proven in there design durability and payback results world over.

Heavy duty manufacture combined with the same components range wide lead to maximise reliability in the sometimes hostile environments.

Heavy duty construction

Every Autofold is manufactured using a heavy duty welded frame construction ,Bosch Rexroth hydraulics and our own bespoke controller and software that can be changed to customers requests.

The Autofold has a track record of the utmost reliability operating in extreme upper and lower temperatures due to its design and manufacture process.

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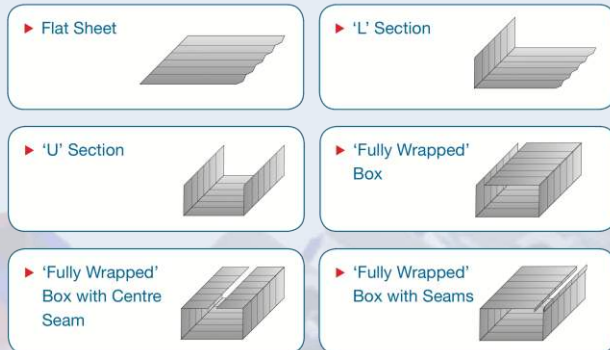


Autofold Standard Features

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 .

Included with an Autofold are 2 coils (extra are available as options)

These are available as a “A” frame Decoiler



Or an “I” Beam Decoiler



The benefits of an “A” frame is that it can be removed from the machine line to be loaded elsewhere ,the “I” beams are bolted to the floor for in line loading

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 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 controller via one power source The Autofold can work from 208v through 480 v this gives the Autofold to be installed anywhere in the world .

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Specifications

Machine weight starts at 3.500 kgs

Sizes dependent on spec

Power supply 208-480 multi tap transformer
3 phase 25 amp supply required (no air)

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

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

Oil type -ISO 46

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

Warranty

1year warranty on parts and labor

Freight

At cost handled by our shipping company we load all machines here in Sheffield

Price Inc 2 coils

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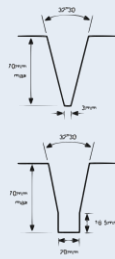


Autofold Options

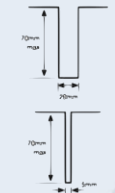
Notching

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

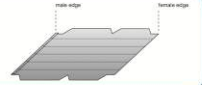
Notching Option 1



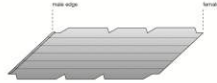
Notching Option 2



► 'L' Section Notch Pattern



► 'U' Section Notch Pattern



► 'Fully Wrapped' Notch Pattern



Dual Head Drive Cleat

Inline drive cleat roll formers driven in line with the leveler motors

No Minimum or maximum size restriction.

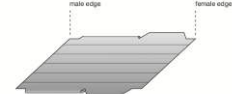
Cleats can be on Sides 1+3
2+4 or all sides



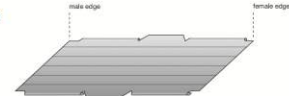
► Cleat Profile



► '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

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

Coil spindle and holder each
Spindle alone

Tie Rod Hole punch

Gang punch of 4 holes for tie rods CNC controlled via software
Hole diameter from 6mm-12 mm hole can be tuned off/on via tap on piston if less holes are needed



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Autofold Options

Selector station

All Autofolds can be 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
Options are

- 4 sheet selector
- 6 sheet selector (shown)
- 8 sheet selector



Hydraulic power coil drive

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

Snaplock only Including male punch

Combination pittsburgh and Snaplock combination

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

Large Pittsburgh max thickness 1.6mm

Medium Pittsburgh thickness 1.0mm

Snaplock maximum Thickness 1.0mm



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Autofold Options Continued

Sealant injection for Pittsburgh

The Pittsburgh rollformer can have sealant injection fed into the lock
As it seams the Pittsburgh



Different Bead Options

All Autofolds come with standard bead however other beads are available upon request

“z” bead

Top Hat bead

Combination of beads on one machine

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