

" Wherever
You Breathe..."



AUTO DUCT FORMER

MACHINE DESCRIPTION:

The machine can produce U shaped, L shaped and flat shaped plate and in addition to producing duct with rectangle and square profile. Besides; it can automatically give you Pittsburg, Snaploc, and Nuloc allowances .It is driven by pneumatics , for this reason it is an extremely fast machine .In order to produce 200*200 duct; you only need to spend 45 seconds .

CHARACTERISTICS OF THE MACHINE:

- Working as full automatic (with PLC Control)
- Touch-screen panel
- It comes with 3 entrances and 3 uncoilers
- Automatic lubrication unit
- It has got a selector group for different sheet thicknesses



TECHNICAL DATAS

POWER	3 HP/2.2KW
OPERATING VOLTAGE-FREQUENCY	380/400 VAC / 50 – 60 Hz / 3Ph+PE
CURRENT	5 A
AIR CONSUMPTION	302 l/min
REQUIRED AIR PRESSURE	6 bar
LUBRICATION	Automatic
FEEDING SPEED	7 m/min
MINIMUM DUCT SIZE	Min. 125 x 125 mm
MAX. PRODUCE CAPACITY	800 m ² /day ± 1 m ² (8 hours)
BENDING DUCT FORM	L Type ' U Type ' Full Duct ' Straight Sheet
SEAM TYPES	Pittsburgh, Snaplock, Nulock
UNCOILER CAPACITY	Internal diameter Ø 508 mm Max. width 1500 mm Max weight. 5 ton
THICKNESS RANGE OF THIN PLATE	0,5 - 1,25 mm Galvanized, Aluminium 0.5 - 0.80 mm Stainless Steel.
DIMENSIONS	7,3 m x 2,2 m (23,6*7,2 FEET)
WEIGHT	3360 kg (with 3 uncoilers)
OPTIONS	Double design cylinder (Z + trapez profile) U Beading Sente form Automatic labelling system Operating voltage (220V, 380V, 460V)

AUTO DUCT FORMER WITH NOTCHING SYSTEM

This machine and Auto Duct Forming machine has the same characteristics. In addition; it makes ducts with notching.

Auto duct forming machine with notching system has a punch system more than Standard Auto Duct Forming Machine. The machine can be arranged for both slip on flange TDF/TDC self flange or S&Cleat. This unit is designed hydraulic pump and four items of hydraulic cylinders (two items are in one side, two items other side)

It perforates appropriate thin plate to the twist point in desired coordinates (dimensions entered from screen). Notching stations can be adapted manually at the side of right and left according to width of sheet. Punch dimensions can be changes for different flanges.

TECHNICALS DATA

POWER	4.4 KW
VOLTAGE – FREQUENCY	380/400 VAC / 50 – 60 Hz / 3Ph+PE
CURRENT	10 A
AIR CONSUMPTION	N/A
HYDRAULIC SYSTEM	YES
LUBRICATION	Automatic
FEEDING SPEED	6 m/min
MINIMUM DUCT SIZE	Min. 125 x 125 mm
TYPE OF BENDING DUCT	L Type ‘ U Type ‘ Full Duct ‘ Straight Sheet
SEAM TYPES	Pittsburgh, Snaplock, Nulock
UNCOILER CAPACITY	Inner dia. Ø 508 mm Max. width 1500 mm max. 5 ton
THICKNESS RANGE OF THIN PLATE	0,5 - 1,25 mm Galvanized, Aluminium 0.5 - 0.80 mm Stainless Steel.
DIMENSIONS	7,3 m x 2,2 m
WEIGHT	3610 kg (7958 POUNDS)
DESIGN CYLINDER	Z Design Double design cylinder (Z + trapez profile) U Beading Sente form Automatic labelling system Operating voltage (220V, 380V, 460V)
OPTIONS	



MINI LINE

Miniline machine has the same characteristics with Auto Duct Former .The only difference is the quantity of the uncoilers and selector unit. Miniline has got just one uncoiler and it has not got selector group. In order to produce 200*200 duct; you only need to spend 45 seconds.

CHARACTERISTICS OF THE MACHINE:

- Working as full automatic (with PLC Control)
- Touch-screen tracking monitor
- **It comes with 1 uncoiler**
- Thin plate correction unit (straightener)
- Modem for solving automation problems from a distance



TECHNICAL DATAS

POWER	2.2 KW
VOLTAGE – FREQUENCY	380/400 VAC / 50 – 60 Hz / 3Ph+PE
CURRENT	5A
AIR CONSUMPTION	302 l / min
REQUIRED AIR PRESSURE	6 bar
LUBRICATION	Automatic
FEEDING SPEED	7 m/min
MINIMUM DUCT SIZE	Min. 125 x 125 mm
TYPE OF BENDING DUCT	L type duct ‘ U type duct ‘ Square duct ‘ Straight
SEAM TYPES	Pittsburgh, Snaplock, Nulock
UNCOILER CAPACIY	Inside diameter Ø 508 mm Max. sac 1500 mm max. 5 ton
THICKNESS RANGE OF THIN PLATE	0,5 - 1,25 mm Galvanized, Aluminium 0.5 - 0.80 mm Stainless Steel.
DIMENSIONS	3 m x 2,2 m
WEIGHT	2240 KG (4938 POUNDS)
DESIGN CYLINDER	Z Design Double design cylinder (Z + trapez profile) U Beading Sente form Automatic labelling system Operating voltage (220V, 380V, 460V)
OPTIONS	



SEAM CLOSER

This machine is designed to seam the rectangular ducts, square ducts and plain sheets. The machine can make both rectangular and square duct form clamps. The clamping job formed in three stages. Firstly, it is rollforms to both sheets at the front bending. Secondly, conjunction of the two sheets is obtained and lastly the clamp is made. Besides silent operation of the machine, it is easy to use and economical with its output and energy saving features. Among the similar machines with its clamp (seaming) type it is tighter and has less air leakage it has got special roller lits, which are highly resistant to friction and break downs. The operation time is 15-20 seconds. This machine is only market he **nulock** type of seaming. + 8 - 16 mm clamp portion in 0.5 - 1 mm sheet thickness



TECHNICAL DATAS

ELECTRIC ENERGY	3 KW
VOLTAGE – FREQUENCY	380-400 VAC / 50 - 60 Hz / 3 PH
CURRENT	6 A
APPROX SPEED	5 m/min
SHEET THICKNESS	0,5 – 1.0 mm Galvanized, Aluminium, Option:0.8-1.2mm 0.5 – 0.7mm stainless steel. Option: 0.80mm
OPTIONS	Operating voltage (220V, 380V, 460V)
DIMENSIONS	4,7 m x 0,6 m
WEIGHT	640 kg



LOCK FORMER

If you would like to manufacture ducts and elbows in bigger dimensions, then you need to use thicker material. In these kinds of processes, the seam type and forming type becomes much important. This machine allows you to make snaplock and Pittsburgh clamps. Machine has got 9 stations. Although the Pittsburgh forming takes more time and a little bit difficult to make, the strength is much better. Comparing to Pittsburgh forming, snaplock forming is much easier. In snaplock forming, two clamps pushed in to each other. This machine allows you both types of forming, which you will decide to use. Besides this, there are also different types of roller sets which also allows you to make different forming (clamp).

Technical Details

SEAM TYPES:

- Pittsburgh male
- Pittsburgh female
- Snaplock male
- Snaplock female
- Double&single standing seam
- Longitudinal seam connect.

POWER	3 KW
VOLTAGE - FREQUENCY	380-400 VAC 50-60 Hz / 3Ph
CURRENT	6 A
WORKING SPEED	15 m/min
MAX. SHEET THICKNESS	0,5-1,2 mm Galvanized 0,5-0,7 mm Stainless steel 0,5-0,7 mm Aluminium
DIMENSIONS	2,2 m x 0,66 m x 1,07 m
NET WEIGHT	410 kg
OPTIONS	Operating voltage (220V, 380V, 460V)

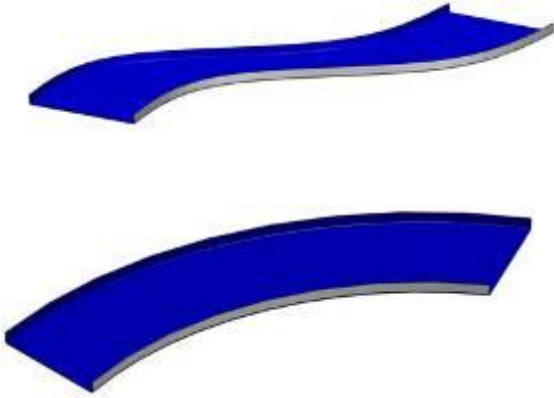


FLANGING MACHINE

The machine is designed for composing male site in Pittsburgh and Snaplock seams. Design is not depending on geometry. You can prepare edges of different pieces as Pittsburgh or Snaplock male. It is very easy to use and ergonomic. Electricity consumption is very low. It is flexible site is the same in every point. It has no difference.

TECHNICAL DATAS

POWER	0,55 KW
VOLTAGE - FREQUENCY	220 VAC / 50 - 60 Hz / 1faz
CURRENT	4.5 A
WORKING SPEED	1 – 10 m/dk
SHEET THICKNESS	0,5 – 1 mm
FLANGE SIDE HEIGHT	8 mm or 10 mm
INNER RADIUS FOR 90 DEGREES SEGMENT	Min. Ø 120 mm
INNER RADIUS FOR 180 DEGREES SEGMENT	Min. Ø 180 mm
DIMENSIONS	570 x 620 x 1300 mm
WEIGHT	200 kg



PITTSBURGH SEAM CLOSER

This machine helps you to seam tightly your products with Pittsburgh seam type. Easy and fast operation. It reaches 15mt/min speed.



TECHNICAL DATAS

WORKING LENGHT	2100 mm – 1250 mm
MAX. SHEET THICKNESS	1.00 mm
MIN. DUCT SIZE	105*105 mm
OPERATING SPEED	15mt/min
POWER	0.75 kw 50-60 Hz 380 V
DIMENSIONS	3140*760*1650 mm
WEIGHT	770 kg



SLIDE ON FLANGE MACHINE (ROLLFORMER) 20 – 25 - 30

TDC Flange Machine offers you to produce flanges in your facility with high quality. Prevents the air leakage inside the flange by using silicone mastic.



SYSTEM CONSISTS OF:

- Decoiler
- Rollforming unit
- PLC control system
- Silicone tank
- Run-off table
- Flying saw

TECHNICAL DATAS

SHEET FEEDING WIDTH	Model T-20 92mm	Model T-25 105mm	Model T-30 121mm	Model T-35 137mm
POWER	7 KW	7 KW	7 KW	7 KW
VOLTAGE – FREQUENCY	380 V 3 Ph 50 Hz	380 V 3 Ph 50 Hz	380 V 3 Ph 50 Hz	380 V 3 Ph 50 Hz
WEIGHT	2200 kg	2400 kg	2600 kg	2900 kg
DIMENSIONS	9550mm x 1200mm x 600mm	9550mm x 1200mm x 600mm	9550mm x 1200mm x 600mm	9550mm x 1200mm x 600mm
SHEET THICKNESS	0.60-0.70 mm	0.60-0.70 mm	0.70-0.80 mm	0.90-1.00 mm

FLANGE CUTTING MACHINE

This machine is used to cut flanges according to the desired length. It makes precise and burr free cutting with the 1500mm measure ruler. This is a very useful machine with the number counter. Machine gives a signal when the operation is done. Controlled with pneumatic foot pedal.



TECHNICALS DATAS

POWER	1,1 KW 50 Hz 3ph
DIMENSIONS L x W x H	550 x 550 x 780 mm
WEIGHT	105 kg



SELF FLANGED MACHINE

This is a totally automatic machine which allow you to produce the self flanged ducts with TDF or TDC form.

ADDITIONAL NECESSARY MACHINES (All these additional machines will be supplied as a set) :

- Vertical Seam Closer
- Corner Mould – eccentric press
- TDF & clips flange machine
- Corner matic

TECHNICAL DATAS

SHEET THICKNESS	0,5 mm – 1,20 mm => Galvanized, Aluminium 0,5 mm - 0,8 mm => Stainless steel
SHEET WIDTH	1000mm - 1500 mm(adjustable)
SHEET WIDTH ALLOWENCE	+/- 0,5 mm
DIAGONAL ALLOWENCE	+/- 0,8 mm
SPEED	Up to 11 m/min
HYDRAULIC DRIVEN	
POWER	19 KW/380/400 VAC / 50 – 60 Hz / 3Ph+PE
NOTCHING TYPE	TDF or TDC
MAX. DUCT SIZE RECTANGULAR	200 x 1150 mm (single segment)
MAX. DUCT SIZE L FORM	1300 x 2000 mm (Double segment)
DIMENSIONS	15m x 7m



VERTICAL SEAM CLOSER

Vertical seam closer machine; a square element which is the most used in ventilation systems duct are generated after the defragmentation process is designed for clamping the edges by machine. This closing can be in vertical.

First, its applied to the two sheets that are to be merged. Secondly, the appropriate form of combine hair and finally, clamping edges and clamping rollers is fully locked with the interlocking process occurs



TECHNICAL DATAS

THICKNESS	0,5 mm (27 ga.) – 1,2 mm (19.ga)
DUCT LENGHT	900 mm (35 inch) / 1200 mm (47 inch) 1500 mm (60 inch) / 1800 mm (70 inch)
DUCT LENGHT	SUITABLE FOR ALL FLANGES
POWER	4 KW
HYDRAULIC OIL CAPACITY	80 Lt
WEIGHT	1000 kg (2204 Lb)
DIMENSIONS	1100mm x 900mm x 2800mm (3,6ft x 2,9ft x 9,1ft)
VOLTAGE - FREQUENCY	380 – 400 V / 3 Ph / 50 Hz



CORNER MATIC

Corner matic is designed to apply corners on the duct automatically. You just need to load the corners to the clip and start the machine with the foot pedal. It is a very usefull and fast operated machine helps you to decresase your labor cost.



TECHNICAL DATAS

CAPACITY	0,5 – 1,2 mm
REQUIRED AIR PRESSURE	8 kgf/cm ²
POWER	1,5 KW
WEIGHT	300 kg
DIMENSIONS	1250 x 800 x 1050mm
VOLTAGE - FREQUENCY	380-415 V / 3 PHASE / 50Hz



TDF AND CLIPS MACHINE

This machine allows you produce your fittings with TDF flange system. No need to insert extra flange after you compose your fittings. There are two roller sets on the machine. One side form the flange, and the other side form the clip which will be necessary for connection between two ducts.

TECHNICAL DATAS

NUMBER OF ROLLERS	14 PCS
THICKNESS	0,5 – 1,20 mm
MAX.SPEED	8 MT/MIN
WEIGHT	760 kg
POWER	2,2 KW
DIMENSIONS	2400 x 800 x 900 mm
VOLTAGE - FREQUENCY	380-415V / 3 PHASE / 50Hz



ECCENTRIC PRESS

This machine allows you to produce corners of the flange. The capacity of the press is 80 tons.



TECHNICAL DATAS

POWER	80 TONS
MAIN BODY	C TYPE – STEEL CONSTRUCTION
BEARING TYPE	NORMAL WEDGE
STROKE	0,00mm – 100mm
PUNCH QTY	45 PCS/MIN
DIMENSIONS	760 X 560 mm
MOULD DIMENSIONS	300 – 500
THROAT DEPTH	400 mm
COLUMN DISTANCE	340 mm
LUBRICATION TYPE	CENTRAL MANUAL – THIN OIL
MOTOR POWER	7,5 Kw
ENGAGING TYPE	PNEUMATIC
WEIGHT	3500 Kg
WIDHT	2100 mm
DEPTH	900 mm

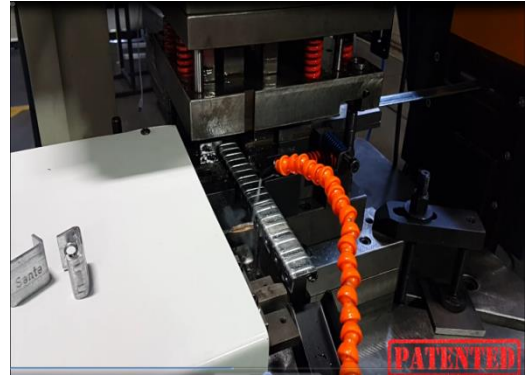


G CLIPS PRODUCTION SYSTEM (PATENTED)

General Characteristics

The system consist of G Clips production mould, automatic feeding system from coil, 100 tons eccentric press. G Clips are used to fasten ducts system each other. G clips are coated with galvanised. It is durable for heavy lift. Production capacity is 45 pieces per minute. Suitable for 20-25-30 mm flange systems.

Code	Sheet Size	MØ
SGY 4030	2mm – 27 mm.	M8

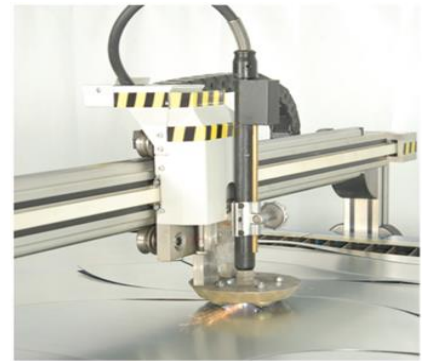


PLASMA CUTTER

Thanks to the plasma cutting machine having cutting dimensions of 3000 x 1500 mm, you can easily cut your own expansions and drawings. In the cutting program, we use the drawing of parts needed by the ventilation market who is readily available. You can cut the existing parts by simply dimensioning as well as you draw and cut any part you needed. Machine allows you to cut up to 5mm galvanized sheet and aluminium. All datas can be transferred to the touch screen panel.

CHARACTERISTICS OF THE MACHINE:

- With its high sensitivity, it more easy to control your operation and have high quality thanks to the engine system.
- Operator can just put the duct who want (Steel thickness, material...). Thanks to CAD software, you can control it offline by your office
- Possibility to resume your produce if there is a stop thanks to CNC unity control.
- VDXF file version.



PLASMA CUTTER

TECHNICAL DATAS

POWER	11 KW
VOLTAGE – FREQUENCY	380 - 400 VAC / 50 - 60 Hz / 3 PH+PE
CURRENT	30 A
AIR CONSUMPTION	189 L / min.
REQUIRED AIR PRESSURE	7 bar
NET WORKING AREA	3200 x 1500 mm
MAX. WORKING SPEED	25 m / min
CUTTING SPEED	7-9 m / min.
CONTROL SYSTEM	1200 Nm ²
SHEET THICKNESS	0.5 - 5 mm Galvanized steel, Aluminium, Mild steel
DIMENSIONS	4.4 m x 2,2 m x 1,4 m
WEIGHT	970 kg
MOTION CONTROL SYSTEM	X and Y axis trigger belt, Z axis pneumatic
ENGINE	400 watt servo
SOFTWARE	Tecnos 2 axis Autodesk CAM DUCT – MAP U.K. (LICENSED)****
SENSITIVITY	±0,5 mm
OPTION 1	6000 mm * 1500 mm
OPTION 2	Ultracut 100 HD
OPTION 3	Hypertherm powermax 45/65



PLASMA FEEDER

This machine allows you to reduce the waste material during operations. It saves you time during the operation. This machine takes the sheet from the uncoiler and feeds on to the plasma cutter table. It also makes the straightening during the operation.



TECHNICAL DATAS

POWER	2,2 KW
VOLTAGE	380-400 VAC
CURRENT	6 A
FEEDING SPEED	4 m /min
UNCOILER CAPACITY	Inner DIA: Ø 508 mm Max. sheet width: 1500 mm max.: 5 ton
SHEET THICKNESS	0,5 – 1,2 mm
DIMENSIONS	1,22 m x 2,18 m x 1,2 m
WEIGHT	880 kg
UNCOILER WEIGHT	280 kg/PCS
OPTIONS	1 / 2 / 3 / 4 / 5 / 6 SELECTOR GROUP



PROFILING MACHINE

This machine allows you to make a reinforcement for ducts. It is very easy to use. You can use this machine in order to make Z design, Trapezoid design or U bead form.



TECHNICAL DATAS

POWER	0,75 KW 380/400V, 50Hz, 3 PH+N+PE
SHEET THICKNESS	Galvanized: 0,4 – 1,20 mm 400 N/mm ² Stainless steel: 0,4 – 1,00 mm 600 N/mm ² Aluminium: 0,4 – 1,20 mm 200 N/mm ² Copper : 0,4 – 1,20 mm 300 N/mm ²
DIMENSIONS	3100mm x 1240mm x 1280mm
PRODUCT WIDTH	2500 mm (Standard) 1200 mm (Optionnal)
WORKING SPEED	15 m/min
WORKING HEIGHT	840 mm
WEIGHT	1250 kg
Z DESIGN PROFILE HEIGHT	Min 0,5 mm – Max 3 mm
PROFILE DISTANCE	60 mm



UNCOILERS

This uncoiler allows you to carry the sheet in parallel form. There are 2 options for the uncoilers. One of them can carry 5 tons and the second one can carry 7 tons in max. 1500 mm width.

TECHNICALS DATAS	UNC 5000	UNC 7000
COIL SIZE	INNER DIA. Ø 508 mm	INNER DIA. Ø 508 mm
MAX. SHEET WIDHT	1500 mm	1500 mm
MAX.WEIGHT	5 ton	7 ton
BRAKE SYSTEM	NO	YES
BEDDING	FRICTION	BEARING

UNC 5000



UNC 7000



AUTO DUCT FORMER 2mm WITH NOTCHING

This is a notching version of ADF Line. This machine consist of 3 main machines which one is **feeding, straightening and notching machine**, **Double-side flange forming machine** and **Bending machine**.

Data entrance and job tracking are done by PLC touch panel. All adjustment and datas are accessible via touch panel. All datas such as total production, total meter and sheet thickness are saved in the memory.



TECHNICAL DATAS

Power	4,4 KW
Frequency	380/400 VAC / 50 - 60 Hz / 3 faz
Voltage	16 A
Hydrolic	Full Hydrolic
Lubrication	Automatic
Feeding Speed	4 mt/min
Bendind Capacity	Min. 200 x 200 mm
Uncoiler Capacity	Inner Dia Ø 508 mm Max. Sheet width 1500 mm Max. Coil Capacity: 3 ton
Sheet Thickness	1,00 – 2,00 mm Galvanised, Black Steel, Mild Steel
Length x Width x Height	3,5 mt x 2,2 mt x 1,5 mt (Inc. 3 pcs of uncoilers)
Net Weight	3610 kg



TUBE FORMER WITH SLITTER

Tube former machine is designed to produce ducts in desired diameter and length. The machine is more economic and easy to operate than the others. It has a high quality seaming process. Alternative to standard diameters, it is possible to produce endless pipe in different dimensions. Manufactured ducts fulfil the requirements for EUROVENT and SMACNA.

Cutting process is made by knife (Slitter). Cutting unit is hydraulic driven. Forming and seaming are designed mechanically by the rollers. Lubricant is used during the seaming process




PARTS OF THE MACHINE :

1. Control unit
2. Uncoiler unit
3. Roll forming unit
4. Seam unit
5. Cutting unit
6. Transport table

CHARACTERISTICS OF THE MACHINE:

- Base frame
- Frequency controlled electric drive
- Seam closing mechanically
- One set of profile rolls for sheet metal thickness 0.5-1mm
- One Profiling unit for single and double reinforcement bead v shape
- Superior seam closing roll
- 5 lower seam closing rolls for sheet thickness 0.5-0.6-0.7-0.8-1mm
- 1 tape equipment to adjust the diameter of the tubes
- Electric box
- Operation box
- Noise level 40 db
- Lubricant system
- 1 run out table for tube of 4000 mm length
- 1 single strip decoiler vertical with brake for coil weight max 750 kg inside diameter 250-550 mm outside diameter 1050 mm max



MODEL	(Ø100 - Ø1250)	(Ø100 - Ø1600)	(Ø100 - Ø1250) FULLY AUTO
POWER	9 KW	9 KW	12 KW
VOLTAGE – FREQUENCY	380-400 VAC / 50-60 Hz / 3 PH	380-400 VAC / 50-60 Hz / 3 PH	380-400 VAC / 50-60 Hz / 3 PH
CURRENT	15 A	15 A	20 A
REQUIRED AIR PRESSURE	6 bar	6 bar	6 Bar
AIR CONSUMPTION	7 L/min	7 L /min	3 L /min
WORKING DIAMETER	Ø 100 mm – Ø 1250 mm	Ø 100 mm – Ø 1600 mm	Ø 100 mm-Ø 1250 mm
WORKING SPEED	4 – 39 m/min	4 – 39 m/min	4-39 m/min
PROCESSABLE MATERIAL	Galvanized 0,4 - 1,0 mm Aluminium 0,4 - 1,0 mm Copper 0,4 - 1,0 mm Stainless steel 0,4 - 0,7 mm	Galvanized 0,4 - 1,0 mm Aluminium 0,4 - 1,0 mm Copper 0,4 - 1,0 mm Stainless steel 0,4 - 0,7 mm	Galvanized 0,4 - 1,0 mm Aluminium 0,4 - 1,0 mm Copper 0,4 - 1,0 mm Stainless steel 0,4 - 0,7 mm
STRIP WIDTH	137 mm	137 mm	137 mm
DUCT LENGTH	Min. 500 mm Max. 6000 mm	Min. 500 mm Max. 6000 mm	Min. 500 mm Max. 6000 mm
CAPACITY OF DECOILER	Max. 750 kg max outside dia Ø1000 mm min. inner dia Ø508 mm	Max. 750 kg max outside dia Ø1000 mm min. inner dia 508 mm	Max. 750 kg max outside dia Ø1000 mm min. inner dia 508 mm
DIMENSIONS	3,20 m X 1,75 m x 2,50 m	3,70 m x 2,50 m x 2,90 m	3,70 m x 2,50 m x 2,90 m
WEIGHT	1650 kg	1850 kg	2050 kg
STANDARD DIAMETERS	ALL STANDARD DIAMETER	Ø100, Ø125, Ø150, Ø160, Ø180 Ø200, Ø224, Ø250, Ø280, Ø300 Ø315, Ø355, Ø400, Ø450, Ø500, Ø560, Ø600, Ø630, Ø710, Ø800 Ø900, Ø1000, Ø1120, Ø1250, Ø1400, Ø1500, Ø1600	ALL STANDARD DIAMETER (Options : Ø1400, Ø1500, Ø1600)
SHEET ACCES ADJUSTMENT	Manual	Manual	Automatic
DIAMETER ADJUSTMENT	Manual 	Manual 	Automatic 

HEAVY DUTY TUBE FORMER

Heavy duty tube former machine is designed to produce ducts in desired diameter and length. Machine is designed to fulfil the EUROVENT and SMACNA standards. It allows you to manufacture high quality ducts in a short time with quite operation. It is a cost effective solution for the circular duct product.

The outstanding slitter cuts the spiral ducts without noise or hot sparks as known from the saw and provides smooth tube ends without debarring.

SPECIFICITY:

- ADJUSTABLE LINEAR SPEED
- AUTOMATIC RUN-OFF TABLE
- EASY TO REPLACE THE MOULDING HEADS
- DIFFERENT MOULDING HEADS FOR DIFFERENT DIAMETERS
- DE-COILER
- SEAMING UNIT FOR DIFFERENT SHEET THICKNESSES



MACHINE CONSIST OF THE FOLLOWING UNITS:

- 1 DECOILER
- 1 ROLLFORMER
- CUTTING UNIT AND THE HOLDING UNIT CUTTING PROCESS IS DONE BY THE SLITTER AND IT IS OPERATED BY PNEUMATICALLY.
- FORMING AND SEAMING PROCESSES ARE DONE BY MECHANICALLY.
- COOLING WATER IS USED DURING THE FORMING PROCESS.



TECHNICAL DATAS

POWER	12 KW
VOLTAGE – FREQUENCY	380-400 VAC / 50-60 Hz / 3 PH
CURRENT	20 A
AIR PRESSURE	6 bar
AIR PRESSURE CONSUMPTION	42 L / min
WORKING SPEED	4 – 65 m / min.
SHEET THICKNESS	0,4 – 1,0 mm Galvanized, Aluminium 0,4 – 0,8 mm stainless steel
OPTION	1,0-1,2 mm Galvanized
SHEET WIDTH	0,4 – 1,0 mm 137 mm 1,0 – 1,2 mm 140 mm
DIAMETER RANGE	Ø100 – Ø1250 mm
DUCT LENGTH	Min. 500 mm Max. 6000 mm
DECOILER CAPACITY	Max. 950 kg
DIMENSIONS	1700mm
WEIGHT	2487 kg
STANDARD DIAMETER	Ø100, Ø125, Ø150, Ø160, Ø180 Ø200, Ø224, Ø250, Ø280, Ø300 Ø315, Ø355, Ø400, Ø450, Ø500, Ø560, Ø600, Ø630, Ø710, Ø800, Ø900, Ø1000, Ø1120, Ø1250 OPTIONNAL : Ø80, Ø1600

ELBOW MAKER

This machine allows you to make the round fittings for the round ducts. And also allows you to make the necessary preparation before the connection. It allows you to manufacture the round ducts according to the SMACNA and EUROVENT standards.

- Hardened steel is used for the rotating tools.
- No maintenance, no lubrication is needed.
- Dual working station.

PARTS OF THE MACHINE:

- Hydraulic unit
- Speed control system
- Preparation unit
- Closing unit
- Rolling and
- Foot pedal



TECHNICAL DATAS

POWER	4 KW								
VOLTAGE – FREQUENCY	380-400 VAC / 50-60 Hz / 3 PH								
CURRENT	9 A								
REQUIRED AIR PRESSURE	6 bar								
AIR PRESSURE CONSUMPTION	9 L / min								
PRODUCT RANGE	Ø 125 mm – Ø 1500 mm								
PRODUCT SEAMING TIME	Ø 400 mm 90°, 4 segments = 2 min								
SHEET THICKNESS	0,5-1,5 mm								
ADJUSTMENT	<table> <tr> <th>Flange height</th><th>Diameter adjustment</th></tr> <tr> <td>5 mm</td><td>Ø 125 - 250 mm</td></tr> <tr> <td>7,5 mm</td><td>Ø 250 - 500 mm</td></tr> <tr> <td>10 mm</td><td>Ø 500 - 1500 mm</td></tr> </table>	Flange height	Diameter adjustment	5 mm	Ø 125 - 250 mm	7,5 mm	Ø 250 - 500 mm	10 mm	Ø 500 - 1500 mm
Flange height	Diameter adjustment								
5 mm	Ø 125 - 250 mm								
7,5 mm	Ø 250 - 500 mm								
10 mm	Ø 500 - 1500 mm								
HYDRAULIC OIL CAPACITY	55 litre 46 viscosity								
DIMENSIONS	2,7 m x 0,8 m x 1,07 m								
WEIGHT	890 kg								



HIGH FREQUENCY STITCHWELDER

It allows you to weld the circular fittings The electricity consumption is 2/3 less than the other stitch welders.

SPECIFICITY:

- Passed perfectly from the leakage tests
- It does not allow operator faults
- Easy adjustment for the welding points, current, and time for the different sheet thicknesses.
- Fully automated, easy operation
- Machine has a special cooling unit
- Nor more burnt galvanizing
- No sealant and paint required
- Saves time, no need to clean the welding rolls.

PARTS OF THE MACHINE:

- PLC touch screen
- Weld rolls
- Wire coil system
- Cooling unit



TECHNICAL DATAS

POWER	18 kw
VOLTAGE – FREQUENCY	380-400 VAC / 50-60 Hz / 3 PH
CURRENT	35 A
AIR PRESSURE	6 bar
AIR PRESSURE CONSUMPTION	1 L / min
DIAMETER RANGE	Ø 80 mm – Ø 1250 mm
WORKING SPEED	2-8 m
COPPER WIRE THICKNESS	2 mm
SHEET THICKNESS	0,5-1,0 mm galvanized and stainless steel
SHEET FLEXIBILITY	6 mm
WELDING LENGTH	50-1000 mm/1250 mm
DIMENSIONS	2,4 m x 1,0 m x 1,7 m
WEIGHT	580 kg

GASKET FITTING MACHINE

This machine allows you make your fittings with gasket. Very easy and fast application. Hydraulic system for all drivers and movements. Approximate time for mounting 2 gaskets on a coupling of 300 mm diameter is 95 sec. Approximately.

Fittings with gasket decreases air leakage on duct systems. Fittings with gaskets shorten assembling time at site, prevent usage of silicone mastik and provide “C” class air-tightness.

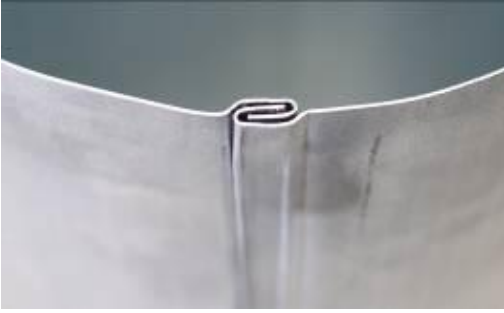


TECHNICAL DATAS

Diam. Range	125-1500 mm/ 5 – 60 inch
Galvanised steel	0,5-0,9 mm
Stainless steel	0,5-0,8 mm
Driver	Hydrolic
Power Supply	5 kVA/ 380-400 V/ 50Hz(Others on request)

LOCK SEAM CLOSING MACHINE

It saves time and labour cost. Lock seam closing machine makes the seams in seconds inside or outside. The working length can be doubled by turning the duct. Available to make 100mm to 1000mm diameters duct.



TECHNICAL DATAS

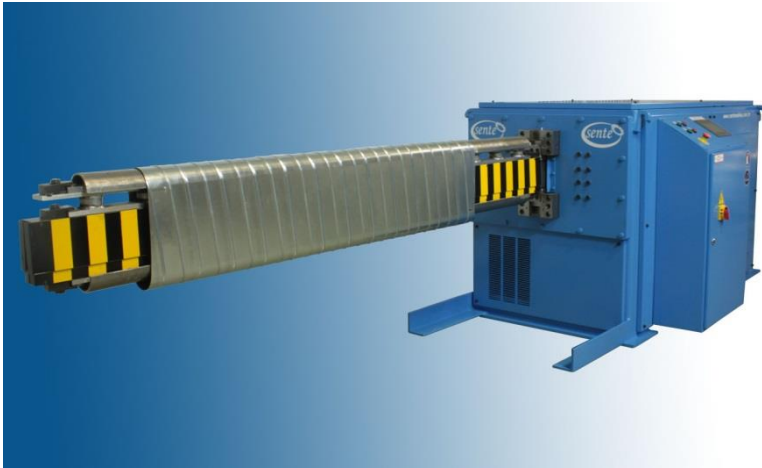
OPERATION LENGTH	1500 mm
MAX. SHEET THICKNESS	1,0 mm
MIL DIAMETER	90 mm
SEAM WIDTH	10/13 mm
OPERATION SPEED	16 m/min
OPERATION HEIGHT	1020 mm
MACHINE LENGHT	1740 mm
MACHINE WIDTH	520 mm
MACHINE HEIGHT	1260 mm
ENGINE POWER	0.37 KW
HYDRAULIC POWER	0,75 KW
WEIGHT	310 Kg

OVAL DUCT MACHINE

This machine transforms spiral ducts to Oval shape which gives the duct a better air flow as a spiral duct and a small size as a rectangular duct with a modern design. All standard diameters different molds are found.

Advantage Of Oval Ducts:

- Less space comparing to spiral ducts
- Modern Design and Stylish-Looking
- Better air flow
- Less labor for installation



TECHNICAL SPECIFICATIONS:

Max. Sheet Thickness:	1,50 mm
Max. Duct Size:	3000 mm
Duct dimensions:	150*435 mm-915*2650mm
Power	22 kw 50-60 Hz 380-400 V
Max. Pressure	160 bar
Machine Size L x W x H	5500 x 1350 x 1200 mm
Size	8"-18" or available on request 6" – 23"
Weight	3720 kg



Oval Duct Production Dimensions

Pos.	Duct Dia.	Oval Duct Size	Forming Heads (inch.) (E)	Spacer No:
1)	Ø 355	455x200	8"	-
2)	Ø 400	525x200	8"	1
3)	Ø 400	495x250	10"	½
4)	Ø 400	465x300	12"	-
5)	Ø 450	605x200	8"	2
6)	Ø 450	575x250	10"	1+½
7)	Ø 450	545x300	12"	1
8)	Ø 450	520x350	14"	-
9)	Ø 500	685x200	8"	3
10)	Ø 500	655x250	10"	2+½
11)	Ø 500	625x300	12"	2
12)	Ø 500	595x350	14"	1
13)	Ø 500	570x400	16"	½
14)	Ø 560	780x200	8"	4
15)	Ø 560	750x250	10"	3+½
16)	Ø 560	720x300	12"	3
17)	Ø 560	690x350	14"	2
18)	Ø 560	665x400	16"	1+½
19)	Ø 560	635x450	18"	½
20)	Ø 630	890x200	8"	5+½
21)	Ø 630	860x250	10"	5
22)	Ø 630	830x300	12"	4+½
23)	Ø 630	805x350	14"	3+½
24)	Ø 630	775x400	16"	3
25)	Ø 630	745x450	18"	2
26)	Ø 710	1015x200	8"	7
27)	Ø 710	985x250	10"	6+½
28)	Ø 710	960x300	12"	6
29)	Ø 710	930x350	14"	5
30)	Ø 710	900x400	16"	4+½
31)	Ø 710	870x450	18"	3+½
32)	Ø 800	1160x200	8"	9
33)	Ø 800	1130x250	10"	8
34)	Ø 800	1100x300	12"	7+½
35)	Ø 800	1070x350	14"	6+½
36)	Ø 800	1045x400	16"	6

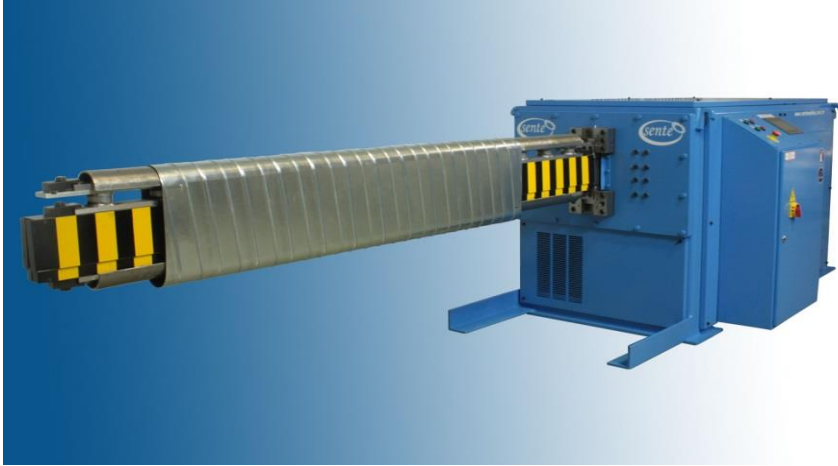
MINI OVAL DUCT MACHINE

This machine transforms spiral ducts to Oval shape which gives the duct a better air flow as a spiral duct and a small size as a rectangular duct with a modern design.

Mini oval duct machine allows to make smaller sizes ducts such as 3"*12"(75*320mm). Useful for Office, house, cafe, restaunt, bar and all kind of small size rooms.

Advantage Of Oval Ducts:

- Less space comparing to spiral ducts
- Modern Design and Stylish-Looking
- Better air flow
- Less labor for installation



Technical Specifications:

Max. Sheet Thickness:	1.00 mm
Max. Duct Size:	2000 mm
Min. And Max. Duct dimensions:	75*320 mm-150*800 mm
Power:	15 kw 50-60 Hz 380-400 V
Max. Pressure	125 bar
Machine Size L x W x H	4500 x 1150 x 1200 mm
Size	3"-6"
Weight	1600 kg

OVAL ROLLER MACHINE

Oval Roller machine is a machine to roll the sheet according to entered oval size on PLC screen. Oval Roller Machine rolls oval elbow, oval reducer and T-pieces parts which are necessary for oval duct systems. Standart oval sizes are in the PLC screen memory and manual Rolling option is also available for special sizes. Machine Works by foot pedal. It allows a smooth production with the automation system

Benefits of Oval Duct Comparing to Rectangular Duct:

- Better air flow
- Easy Installation
- Less assembly material
- Less space
- More strength
- Modern Design



TECHNICAL DETAILS

Max.Material Length	1220 mm
Max. Sheet Thickness	1.0 mm
Min. Radius-Thickness	45 mm (0,5 mm) 38 mm (1,0 mm)
Rollers diameter	60 mm
Working Speed	9m/min
Power	50-60 Hz 380 V
Sizes L x W x H	1905 x 724 x 1345 mm
Weight	340 kg



POST TENSIONING TUBE MACHINE

Post-tensioning is a method of producing prestressed concrete, masonry and other structural elements. The term prestressing is used to describe the process of introducing internal forces (or stress) into a concrete or masonry element during the construction process in order to counteract the external loads that will be applied when the structure is put into use (known as service loads).



TECHNICAL DETAILS

Sheet Thickness	Galvanised 0.30, 0.40, 0.50 mm
Sheet Width	78 mm
Beading No	4 pcs
Seam Width	5.2 mm
Lubrication	Automatic
Table	Run-off table
Cutting type	With torch
Air pressure and consumption	6 bar 10 lt/min
Power Supply	3 Ph, 380 V 50 Hz
Machine Size	3,2 mt X 1,75 mt X 2,5 mt(2 run-off table included)
Weight	650 kg

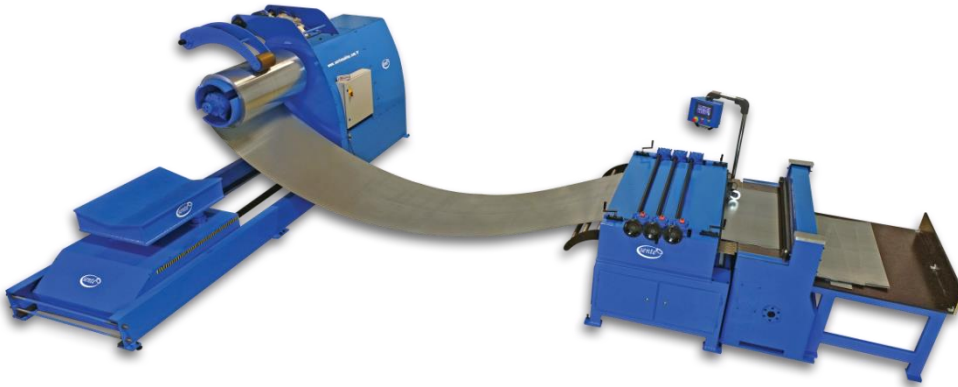
Tube diameters: Ø40, 45, 50 , 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135

Advantage of The Machine:

- Two pieces 6m long ducts can be produced per minute or 750 pieces in a working day.
- Fully automatic operation, no adjustment required.
- The safety devices built into the machine eliminates the risk of all personal injuries.

CUT TO LENGHT

Cut to length machine is designed to cut sheet's coil into pieces with the desired length. It is equipped with its unique design 10 ton uncoiler which highly increases its production capacity and reduces sheet costs, also it reduces sheet instalation time and effort with its hydraulic driven lift. The machine is equipped with a user friendly touch screen which allows the dimensions to be entered easily and Cut process is done precisely with its advances PLC system. Thanks to its powerful guillotine which is equipped with sharp blades, sheets up to 2mm thickness could be cut clean and easily.



Power	18 KW
Voltage – Frequency	380/400 Vac / 50-60 Hz /3Ph+N+Pe
Current	32A
Control Type	Plc Kontrol
Air Consumption	Yes
Hydraulic System	Yes
Lubrication	Manuel
Maximum Sheet Width	1500 mm
Sheaet Feeding Speed	6mt/min
Sheet Tickness	0,5 – 2mm
Uncoiler Capacity / Specification	Inner Dia Ø508 mm Max. Width 1500mm Max. 10 Ton Equipped With Hydraulic Lift With Wireless Remote Control
Dimensions	7300x5620x2300(Without Stand)

FITTINGS ROUNDER

FITTINGS ROUNDER is a very useful machine used to round the inside and the outside parts of air duct's elbow.

It's sliding rollers allows pre-seamed parts to be rounded without closing thier seams.



Power	1,5 KW
Voltage - Frequency	220/2300 Vac / 50-60 Hz /1Ph+N+Pe
Current	4A
Control Type	Foot Pedal
Lubrication	Manuel
Speed	10 mt/min
Minimum Sheet Width	120mm
Maximum Sheet Width	1500mm
Minimum Radius	200mm
Seam Types	Snaplock , Pittsburgh
Thickness Range of Plate	0,5 mm – 1,2 mm
Dimensions	2300mm x 650mm x 1100mm

GUILLOTINE

Sente Guillotine is a solid body mechanical sheet metal cutting machine, it is considered a heavy duty operating machine due to its rigid body which extends its operation life time.

The design of its body prevent any deformation could happen during cutting process and with its sharp blades you can get a very clean and high quality cut with sheets up to 2 mm. Which makes it the perfect choice for duct work shops or any sheet metal processing line.



Power	2,2KW
Voltage - Frequency	380/400 Vac / 50-60 Hz /3Ph+N+Pe
Current	5A
Control Type	Foot Pedal
Lubrication	Manual
Maximum Sheet Width	1500mm
Maximum Sheet Thickness	2mm
Dimensions	1800mm x 870mm x 1160mm
Weight	800 Kg



AUTOMATIC SELF FLANGED DUCT BENDING AND SEAM CLOSING MACHINE

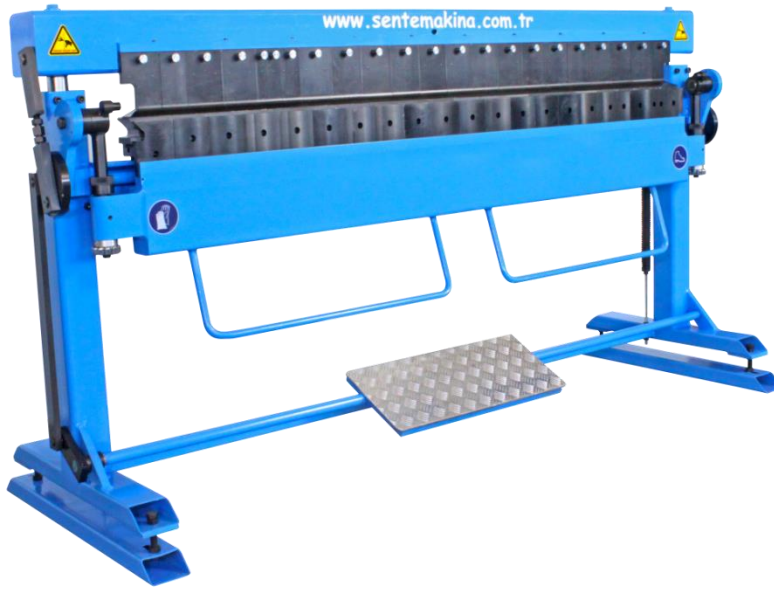
This machine is designed to produce self flanged rectangular ducts with TDF flange. Thanks to its special design and advanced plc system, bending and seam closing processes are done automatically and could be done with only one worker which allow you to save on labour and time and reduces measurement error to minimum..



Power	1,1KW
Voltage - Frequency	380/400 Vac / 50-60 Hz /3Ph+Pe
Current	5A
Air Consumption	6 Bar 500 lt/min
Lubrication	Automatic
Minimum Duct Size	Min. 200x200 mm
Bending Duct Form	L Type, U Type, Full Duct
Seam Types	Pittsburgh
Thickness Range of Thin Plate	0,5 – 1,25 mm Galvanize 0,5 – 0,8 Stainless Steel
Dimensions	1,9 mt x 2,2 mt x 1,15 mt (Main Machine) 3,3 mt x 1,5 mt x1 mt (Conveyor)
Weight (Machine+Conveyor)	2460 Kg

SEGMENTED BLADES FOLDING MACHINE

With its strong welded steel frame this machine can fold sheets made from different materials such as galvanized steel, aluminum, zinc and stainless steel. Also due to its different sized segmented blades, it could easily fold different sized boxes. And thanks to its supportive springs, the power needed to make the fold is greatly reduced to be suitable for hand operating.



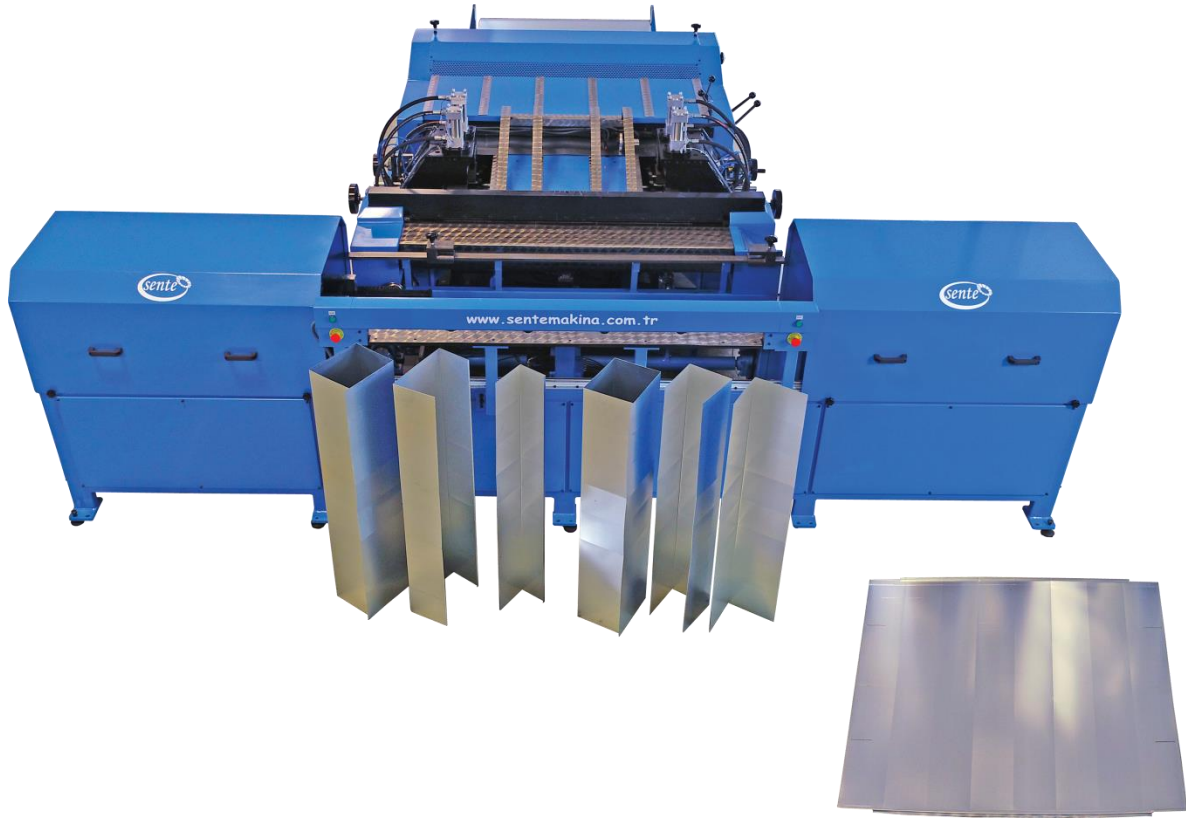
Power	N/A
Maksimum Sheet Width	2000 mm
Maksimum Sheet Thickness	Galvanize 1 mm Stainless Steel 0,7mm Aluminum 1,5 mm Zinc 2 mm
Top Segments Qty / Dimensions	1 of Each 100mm Left and Right Corner Piece 1 of Each 30/40/60/70 mm Piece 16 of Middle 100mm Piece
Bottom Segments Height	60 mm
Dimensions	2500mm x 750mm x 1160mm
Weight	750 Kg

AUTO DUCT FORMING MACHINE WITH CASSETTE

This machine and Auto Duct Forming Machine With Notchers has the same characteristics in addition to its cassette system. It is a very helpful machine in order to produce TDF/TDC self langed duct as it makes C and P notches to make the sheet metal ready to be feed to TDF/TDC flange forming machine. Also it eliminates the need for a lock forming machine as it makes pittsburgh's male and female which decreases production time and effort and increases your profit.

The machine can be arranged for both slide on flange and TDF/TDC flange type, this could be done easily from its touch screen.

The machine is fully controlled by an advanced plc system which means you only have to enter production's details from machine's touch screen and all the operations will be done automatically also it will keep production's record for you to check it when needed.





“Wherever You Breathe...”

www.sentemakina.com.tr

Power	10 KW
Voltage – Frequency	380/400 VAC 50-60 Hz 3Ph+Pe
Current	15 A
Air Consumption	6 Bar 8 lt/min
Lubrication	Automatic
Feeding Speed	6 mt/min
Notch Type	TDF , TDC
Minimum Duct Size	150x150 mm
Type of Bended Duct	L Type, U Type, Full Duct, Straight Sheet
Seam Types	Pittsburgh, Snaplock, Nulock)
Uncoiler Capacity	Inner Dia Ø508 mm Max. Width 1500mm Max. 5/7 Ton (Optional)
Uncoiler Number (Optional)	1 – 6 (Standart 3 Uncoilers)
Thickness Range Of Plate	0,5 – 1,25 mm Galvanize , Aluminium 0,5 – 1 mm Stainless Steel
Dimensions	8,7mt x 4,7mt (With 3 Uncoilers)
Weight	4000 Kg
Design Cylinder	Z Design
Options	-Double Design Cylinder (Z + Trapez Profile) -Automatic Labelling System



Adnan Kahveci Mh.
Gölboyu Cd. No:20
Gürpınar,
Beylikdüzü / İSTANBUL



/SenteMakina



/SenteMakina



/SenteMakina



/SenteMakina



+90 (212) 856 11 32



info@sentemakina.com.tr



“Wherever You Breathe...”

www.sentemakina.com.tr

CONDITIONS

ORIGIN OF GOODS

TURKEY / ISTANBUL

Delivery time

Ex stock - ex factory, accordance to “INCOTERMS 2000”

Terms of delivery

Customs duties, tax and/or any other duties and expenses unpaid.

Flights & accommodation for the engineers, is covered by the buyer.

Payment terms

50 % down payment with the order, %50 BEFORE THE SHIPMENT

or Irrevocable and Confirmed Letter of Credit,
Drawn to a TURKISH bank and payable at sight.

Note

Waiting periods not caused by us, are charged separately
SENTE MACHINERY guarantees materials and equipment against defects in material and workmanship for a period of twelve (12) months after installation, but max. 15 months after shipping date, assuming an eight (8) hours workday.

Warranty

Spare part guarantee is valid for 2 years. ALL THE MACHINES ARE UNDER THE WARRANTY OF SENTE MAKINA FOR 2 YEAR AGAINIST MANUFACTURING FAULTS. 1.st YEAR COVERS SPARE PARTS AND SERVICE WARRANTY, 2nd YEAR COVERS ONLY THE SPARE PARTS, SERVICE WILL BE AT EXTRA COST.

Training&Commisioning

All machines are trained by the buyer's personel in Sente's factory before delivery in need. Flight tickets, accomadation and meals will be covered by the buyer. Commisioning will be done by Sente at customer' side if is requested. Flight tickets, accomodation and meals will be covered by the buyer.



Adnan Kahveci Mh.
Gölboyu Cd. No:20
Gürpınar,
Beylikdüzü / İSTANBUL



/SenteMakina



/SenteMakina



/SenteMakina



/SenteMakina



+90 (212) 856 11 32



info@sentemakina.com.tr



“Wherever You Breathe...”

www.sentemakina.com.tr

Tests and Performance

SENTE MACHINERY shall prior to packing for shipment, conduct its standard tests, and the buyer may witness, at his own expense, such tests at a time or times mutually convenient.

SENTE MACHINERY is not responsible for poor quality of ducts and/or fittings due to incorrect handling of equipment or due to the use of unsuitable coil material

Reservation of ownership

The supplied goods remain up to the complete payment of all demands, which exist against the buyer, our sole and exclusive property

Area of jurisdiction / Applicable right

Place of performance and area of jurisdiction is the head office of the seller. It is exclusively the national right of the state applicable, in which the seller has his head office, however under exclusion of the UN purchase rights.

Validity of offer

The quotation and all arrangements therein are valid for 30 days from the date here of, unless otherwise specified and with the right for technical modifications.

All orders pursuant to this quotation are subject to acceptance by SENTE MACHINERY.

INSTRUCTIONS FOR OPENING OF LETTER OF CREDIT

- Irrevocable documentary credit to be confirmed by advising bank.
- Letter of credit to be available and payable at sight with GARANTI BANK (TURKEY).
- All commissions and charges are for buyer's account.
- Note: A possibly requested legalization of documents will only be made with our local Chamber of Commerce.



Adnan Kahveci Mh.
Gölboyu Cd. No:20
Gürpınar,
Beylikdüzü / İSTANBUL



/SenteMakina



/SenteMakina



/SenteMakina



/SenteMakina



+90 (212) 856 11 32



info@sentemakina.com.tr



“Wherever You Breathe...”

www.sentemakina.com.tr

INFORMATION

RECEIVER'S NAME : CSF MAKİNA SANAYİ İÇ VE DIŞ TİCARET LTD ŞTİ

ADDRESS : ADNAN KAHVECİ MAH GÖLBOYU CAD.NO NO:20 KAPI NO 1
GÜRPINAR BEYLİKDÜZÜ İSTANBUL TURKEY

BANK DETAILS

BANK : GARANTI BANK

BRANCH : HADIMKOY

DOLAR IBAN NO : TR89 0006 2000 5440 0009 0944 17

EUR IBAN NO : TR19 0006 2000 5440 0009 0944 16

SWIFT CODE : TGBATRISXXX



Adnan Kahveci Mh.
Gölboyu Cd. No:20
Gülpınar,
Beylikdüzü / İSTANBUL



/SenteMakina



/SenteMakina



/SenteMakina



/SenteMakina



+90 (212) 856 11 32



info@sentemakina.com.tr