

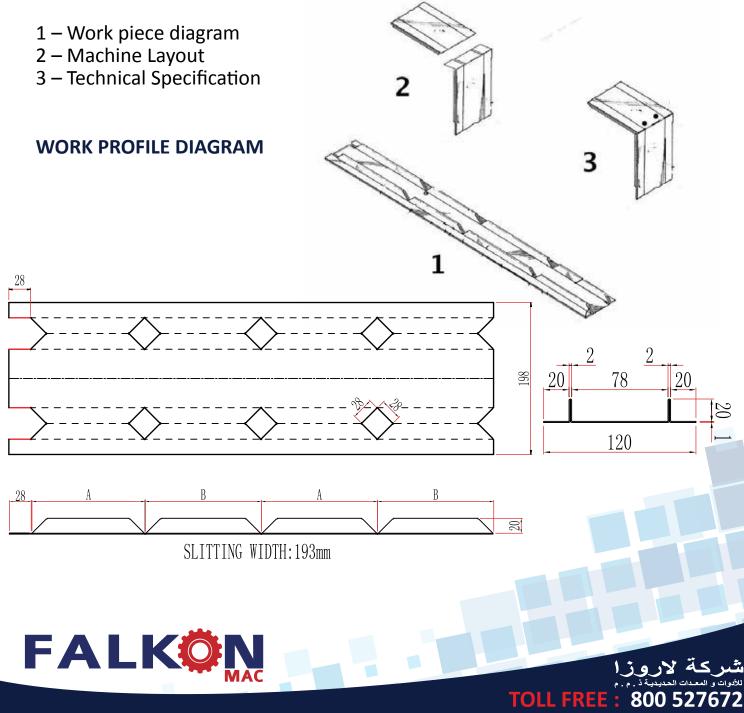
 Industrial Area 2, P.O Box : 41007, Sharjah-U.A.E

FIRE DAMPER FRAME INTEGRATED DESIGN AUTOMATIC ROLL FORMING MACHINE

Model: FD-IF120



CONTAINS

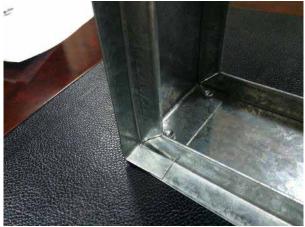




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WORK PROFILE SAMPLE

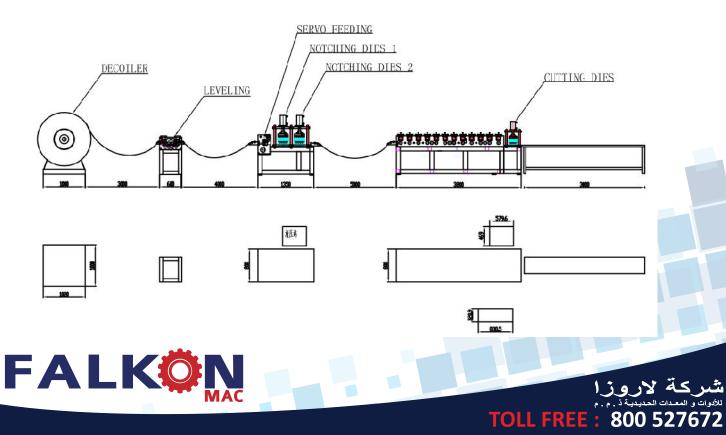








MACHINE LAY OUT





Machine Name		Explain	Quantity	Motor(KW)	
De-coiler		Manual Expanding	1 Set	Manual	
Leveling System		9 Rollers	1 Set	2.2	
Punching Sytem	Servo Feeding		1 Set	1.3	
	Punching - 1	The Middle of punching flanging part	1 Set	5.5	
	Punching - 2	Punching head of the flanging part	1 Set		
Main Roll Forming Machine			1 Set	5.5	
Hydraulic Cutting System			1 Set	4	

TECHNICAL SPECIFICATION

1. EQUIPMENT TECHNIQUE REQUIREMENT

1.1 Equipment technique requirement

- 1.1.1 Equipment floor space: 23×3.0×2.5 (L×W×H) meter。
- 1.1.2 Equipment feeding material the orientation: The left side enter and right leave $_{\circ}$
- 1.1.3 Voltage: 380V, 50Hz, 3phase $_{\circ}$
- 1.1.4 Hydraulic oil : NO: .46# $_{\circ}$
- 1.1.5Gear oil: 18# Hypoid dear oil_ $\,$

1.2 Equipment main technical parameters

- 1.2.1 Raw material width: around 196 mm
- 1.2.2 Material thickness: G.I=0.7~1.0mm, SS=0.8(Maximum)
- 1.2.3 Material: Galvanized and stainless sheet
- 1.2.4 Production speed: around 6M/min
- 1.2.4 Production length: ≥3000mm
- 1.2.5 Equipment total installed capacity: Around 20KW

2. ROLL FORMING PRODUCTION SCOPE

2.1 This rollforming machine can be make the thickness from 0.8mm to 1.2mm

PARAMETERS OF MAIN EQUIPMENT

1 - DE-COILER

Material width:Inner diameter:Outer diameter:Max. Load capacity:

<250 mm, Material thickness≤2.0mm; ¢480-520 mm; ¢1200mm; ≤2T

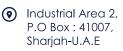
2 - LEVELING SYSTEM

Use 9 roller leveling, Power 2.2 kW, Speed: 10M/min









3 - SERVO FEEDING SYSTEM

BNC-30TECHNICAL PARAMETERS

BNC - 300	
The feed shaft diameter	ф60mm
Measuring diameter of shaft	ф60mm
Maximum feed plate of width	≤300mm
Maximum feed plate of thickness	≤2.5mm
Maximum feed speed	≤40m/min
Feeding and blanking step length tolerance	±0.20mm
Feed products overall length tolerance	±0.25mm
Servo motor power/brand	1.3KW/Japan Yaskawa
TransmissionSynchronous	wheel / gear
Length measuring encoder	ROUNDSS 2500P

4- NOTCHING, PUNCHING HOLE AND CUTTING

Structure	:	hydraulic punching structure,
		the welded steel frame, has good inflexibility
First notching dies	:	2 sets
First punching die	:	1 set
After forming notching dies	:	2 sets
After forming cutting die	:	1set

5 - MAIN ROLLFORMING MACHINE

Forming steps: 14 group				
Forming framework: use the wall type side plategear drive $_\circ$				
Side wall thickness: 25mm				
Max material width:≤196 mm				
Min material thickness: 0.7 mm				
The roll shaft diameter:φ48 mm				
Roller material: Cr12MoV, the quenching hardness, HRC58-62°				
Use of double bearing design, bearing type 6208				
The main drive motor uses 5.5kw frequency conversion motor.				

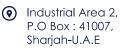
6 - CUTTING SYSTEM

a.ModalityHydraulic cutting b.Design featureafter cutting system design in the forming machine, the cutting Length can be set.









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7 - RUN-OUT TABLE

Framework: platform typewithout power

8 - ELECTRICAL CONTROL SYSTEM

1-The whole line adopts PLC control, LCD touch screen display and man-machine interface software. (Interaction between workers and PLC.)

The operator can do the following

- The setting program (PLC)
- Monitoring the control process,
- Modify the control parameters,
- The length of the workpiece digital setting,
- The length of the workpiece adjusting.
- Running state real-time monitoring equipment and fault indication.

2- Mode of operation: manual / auto two. With manual, automatic switching function: in the manual mode, can be stand-alone operation, convenient repair; in the automatic mode, all production and operation, the start up sequence; along with the emergency stop button, easy to handle emergencies, to ensure the safety of equipment and personnel.

