

## Manufacturer Company

Coiltech Makina San. ve Tic. A.Ş.



Pres Besleme Sistemleri

CMKS A100 1000 10T

Compact Type Decoiler Straightener and Feeder Machine

### Compact Feeder - General Specification

Compact Line Sheet Width Capacity	200~1000mm
Compact Line Sheet Thickness Capacity	0,8 ~ 6mm
Type of Surface	Not designed to process parts of exterior shell



*Decoiler*

Coil Loading Capacity	10000Kg	
Drum Type	Hydraulic expansion	
Hydraulic Unit	Yes	BOSCH REXROTH
Drum Number	Single	
Coil Hold Down Arm	Hydraulic	ROTA TEKNİK
Coil Hold Up Arm	Hydraulic and motorized	ROTA TEKNİK, WATTDRIE
Coil Inner / Outer Diameter	480~520 / 800~1600	
AC Motor Power	5,5kW	WATTDRIE
Gearbox Type	Conical type, helical geared, low backlash	WATTDRIE
Power Transfer Type	Sprocket	SKF
Speed Control	Yes	SIEMENS
Brake System	Pneumatic disc brake	TWIFLEX
Loop Control	Distance controlled laser sensor	SICK
Coil Loading Car	Yes	
Coil Centering	Servo motorized lateral guides	SIEMENS

*Straightener Feeder*

Sheet Metal Bending System	Hydraulic driven bending arm	ROTA TEKNİK
Number of Pinch Rolls	2	
Openable Rolls Group	~20 degrees crocodile openable hydraulic driven	
Straightener Drive Type	Gear driven	
Straightener Adjustment Gearbox	3 pieces	SIKO
Straightener Rolls Pressure Gearbox	3 pair, shaft fitted	
Straightener Support Rolls	No	
Straightener Rolls Arrangement	4 Bottom / 3 Top	
Number of Straightener Rolls	7	
Diameter of Straightener Rolls	100mm	
Number of Feeder Rolls	2	
Diameter of Feeder Rolls	125mm	
Feeder Rolls Pressure Adjustment	Pneumatic	FESTO
Servo Motor Power	24Nm	SIEMENS
Gearbox Type	Conical type, helical geared, keyless, shrink disc, low backlash	WATTDRIE
Piloting System	Hydraulic system	BOSCH REXROTH
Feeder Height Adjustment System	Motorized	
Sheet Positioning Inside Die	Hand Wheel	EUCHNER
I/O Communication Type	On board, IP67 protection class	TURCK

### Servo Motorized Lateral Coil Guides



Loading the sheet coils on the drum with centering, operated by servo motorized lateral side guides. When the operator inputs the sheet width on the operator panel these side guides expand laterally from the center of the drum until the entered sheet width. By the way it prevents the off center aligning of coil. Coil loading duration becomes very fast and safer.

### Crocodile Opening System



Straightener feeder group opened from the inlet side with approximate 20-degree angle. By the way it helps to introduce the sheet easily to the straightener group. This feature decreases the loss of time during the new coil loading. Opening of the group driven by hydraulic cylinders.

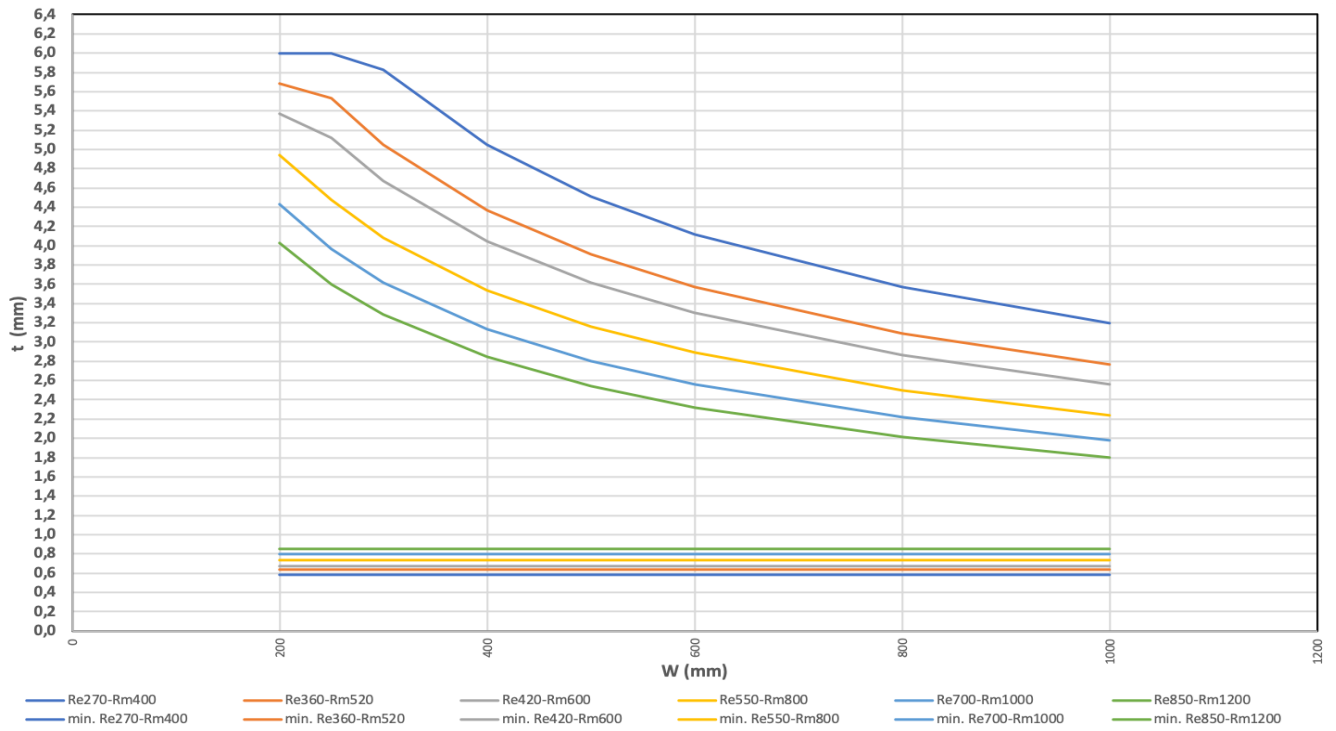
### SIEMENS SIMOTION D - the high-end motion control system - External Encoder Control



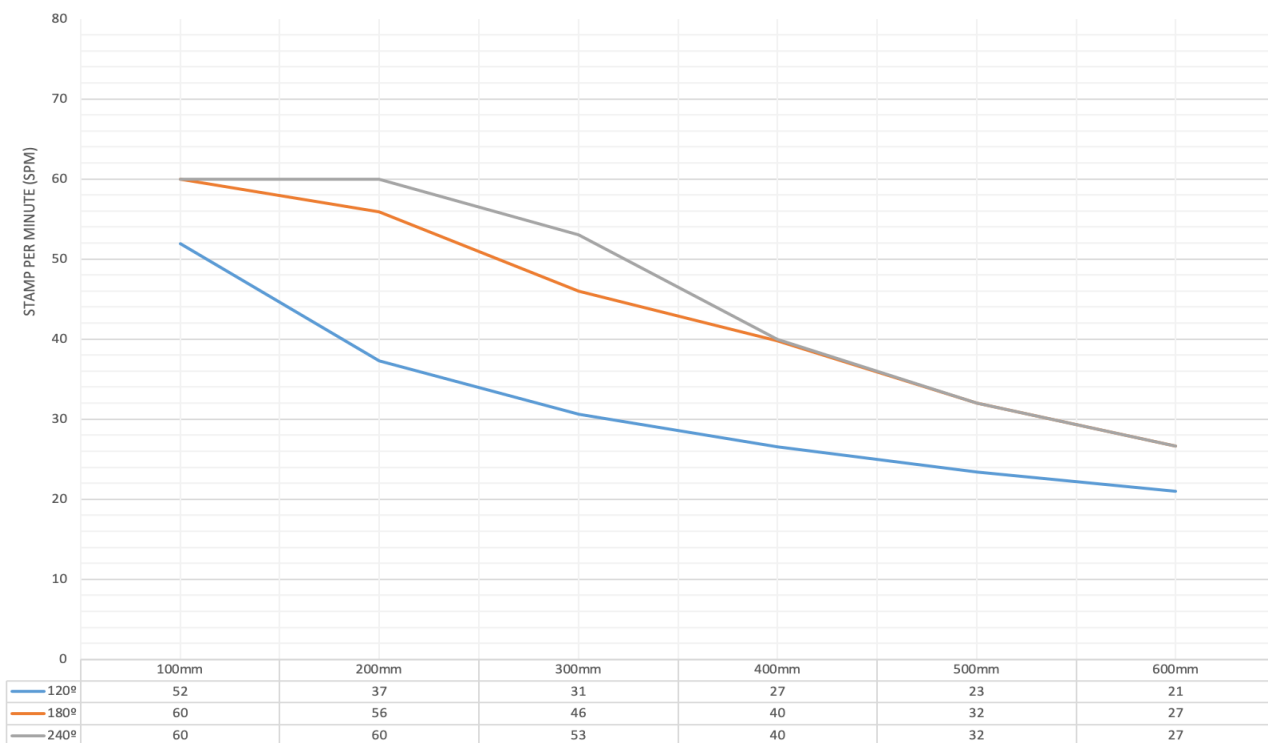
With the external encoder, feed sheet length controlled another time. Feeding rolls measurement and encoder wheel measurement controlled instantly during the feeding operation. Possible slipping of the sheet during the feeding operation tolerated instantly.

All servo equipment on a machine will be used as SIEMENS

*Straightener Feeder Thickness Table*



*Straightener Feeder Speed Table*



① Feeding Speed 60m/min.

① Operation Speed 16m/min.

① Piloting Time 450ms