

## CZ Purlin Roll Forming Machine-Fully Automatic type



### Features

- 1.The Next Generation Purlin Rollforming, offers the high level of Flexibility in the purlin market worldwide! Manual, Semi-Automatic or Fully Automatic – BMS Customers are able to pick the level of automation they need today and tomorrow.
- 2.One minute for size-changeovers(Motorized adjustments for C/U/Z/ Flange Height Control and Web Size Changeover, All servo-adjustable, automatically move IN & OUT to position the Punch in the desired location on the web). No need to change rollers, spacers and cutters like traditional machines.



Servo-Controlled Motor



Size Changeover HMI



Patented Universal Post Cutter  
(With Patented Universal Post-cutter,  
Profile Forming More Stable)

- 3.BMS's patented CZ Stacking System offers the fastest cycle times, handles the full range of Cee, U and Zee purlins .The fully automated Stacker can easily be added to any new or existing Purlin Roll Forming Line.



- 4.BMS also offer fully automated Coil Handling Systems, and Remote Support.
- 5.Heavy duty design by Taiwan, more robust and more powerful than other Chinese purlin machines.

### Application



### Profile Drawing



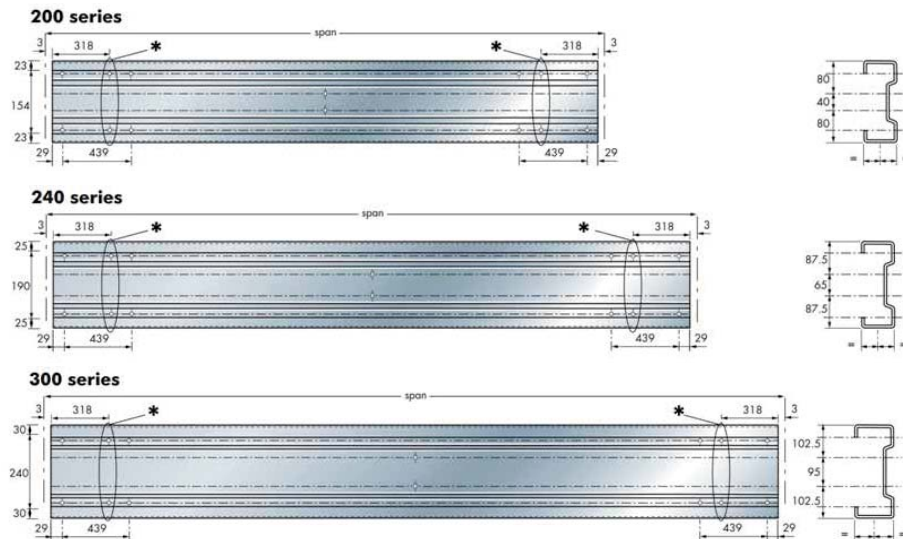
Purlin Size	Thickness (mm)	Kg/m	WEB	FLANGE			Lip	Gauge Line	Hole Size (DH x WH)		Coil Width
				Standard	ZED : Standard	CEE : Option			Standard	Option	
				W (+/- 2mm)	F (+/- 2mm)	FB (+/- 2mm)					
Z15012	1.20	2.89					15			296	
Z15015	1.50	3.59					16			296	
Z15019	1.90	4.51	152		65	61	17	60	18 x 22	297	
Z15024	2.40	5.70					18			296	
Z20015	1.50	4.49					15			373	
Z20019	1.90	5.74	203		79	74	18	110	18 x 22	376	
Z20024	2.40	7.24					20			376	
Z25019	1.90	6.50					18			427	
Z25024	2.40	8.16	254		79	74	20	160	18 x 22	427	
Z25030	3.00	10.33					20			427	
Z30019	1.90	8.03					20			515	
Z30024	2.40	10.09	300		100	93	20	210	18 x 22	513	
Z30030	3.00	12.76					20			513	
C10010	1.00	1.78					12			219	
C10012	1.20	2.10					13			219	
C10015	1.50	2.62	102	51	53	49	13	40	18 x 22	219	
C10019	1.90	3.29					14			220	
C10024	2.40	4.20								218	
C12510	1.00	2.01								247	
C12512	1.20	2.37					15			247	
C12515	1.50	2.96	127	51	53	49	15	55	18 x 22	246	
C12519	1.90	3.72								247	
C12524	2.40	4.75					16			245	
C15012	1.20	2.89					15			296	
C15015	1.50	3.59					16			296	
C15019	1.90	4.51	152	64	65	61	17	60	18 x 22	297	
C15024	2.40	5.70					18			296	
C20015	1.50	4.49					15			373	
C20019	1.90	5.74	203	76	79	74	18	110	18 x 22	376	
C20024	2.40	7.24					20			376	
C25019	1.90	6.50					18			427	
C25024	2.40	8.16	254	76	79	74	20	160	18 x 22	427	
C25030	3.00	10.33					20			427	
C30519	1.90	8.03					20			520	
C30524	2.40	10.09	305	96	100	93	20	210	18 x 22	518	
C30530	3.00	12.76					20			518	

## M Purlin(Sigma Purlin) Roll Forming Machine

(Equipped with automatic stacker, improve working efficiency, save labor cost)



### Profile Drawing



Sigma purlins have been specifically developed to minimise components, including mid span restraint requirements. The purlin sections have been analyzed, by Finite Element Analysis and the minimum construction loads as dictated by EN 1991-1-6:2005.

The table below outlines the minimum anti-sag requirements for Sigma purlins, for symmetric, duo pitched roofs. It can be seen that, for the most popular spans and roof pitches, no mid span restraint is required (subject to wind uplift considerations).

Section Ref.	Roof Slope	Purlin Span					
		3.0m-5.0m	5.1m-6.0m	6.1m-7.0m	7.1m-8.0m	8.1m-9.0m	9.1m-10.0m
<b>200</b>	>3-10	NONE	NONE	NONE	1 SPEED FIX	2 SPEED FIX	N/A
	>10-15	NONE	NONE	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	N/A
	>15-18	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	N/A
	>18-25	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	N/A
<b>225</b>	>3-10	NONE	NONE	NONE	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>10-15	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>15-18	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>18-25	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
<b>240</b>	>3-10	NONE	NONE	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>10-15	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>18-25	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
<b>265</b>	>3-10	N/A	NONE	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>10-15	N/A	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>15-18	N/A	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
	>18-25	N/A	1 SPEED FIX	1 SPEED FIX	1 SPEED FIX	2 SPEED FIX	2 STRUTS
<b>300</b>	>3-10	N/A	N/A	1 STRUT	1 STRUT	2 STRUTS	2 STRUTS
	>10-15	N/A	N/A	1 STRUT	1 STRUT	2 STRUTS	2 STRUTS
	>15-18	N/A	N/A	1 STRUT	1 STRUT	2 STRUTS	2 STRUTS
	>18-25	N/A	N/A	1 STRUT	1 STRUT	2 STRUTS	2 STRUTS



## CZ Purlin Roll Forming Machine(Semi-Automatic type)



»»» C-to-Z Purlin Changing With Following 3 Simple Operation (Finish Within 5minutes).



Loosen Locating Pin



RotateThe Adjustment Tool 180 Degree

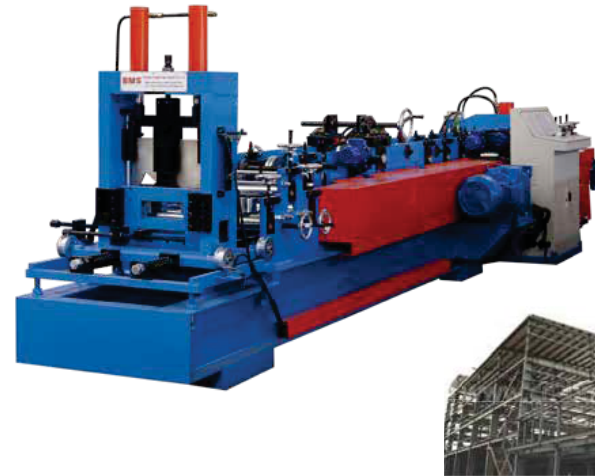


Fix Locating Pin

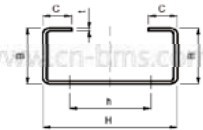
»»» Purlin Machine Workshop Batch Production



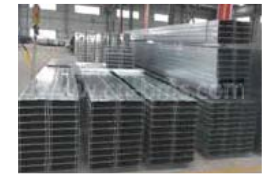
## Automatic C/U Purlin Machine



»»» Profile Drawing



Lip (C): 7 ~ 15mm  
Height (B): 25 ~ 60mm  
Web (H): 50-250mm  
Optional Rib(h): 1/3 of web  
Material Thickness: 0.6 -2.0mm



Profile Sample



Changing By Spacer

Advantages Comparison With Traditional Purlin Machines

- ◆ Produce Different Purlin size Without Changing Rollers or Spacers
- ◆ No need to change Cutter For Different Size



Motor Auto -Change Type



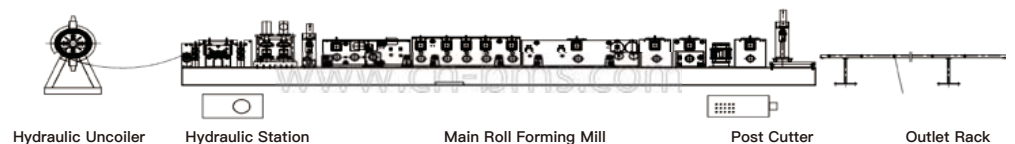
One-Minute Size Changing

Just input the required model/size on the 7-inch colourful HMI, it can Auto-changing the Purlin C/U size in 1minute, Lip/Height/Bottom width.(No need to change rollers or spacers or cutters like traditional old style machine which takes over 90 minutes for each production size changing)

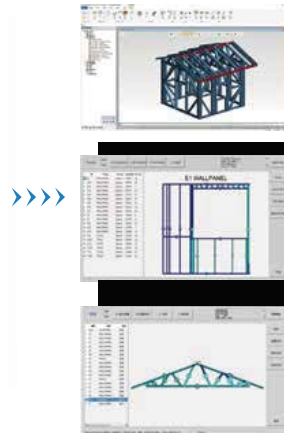
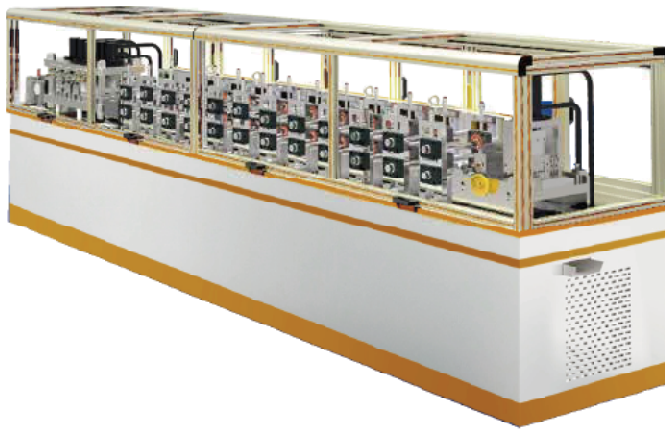


Manual Wheel QUICK-CHANGE Type (with Digit Display for Easy Adjustment)

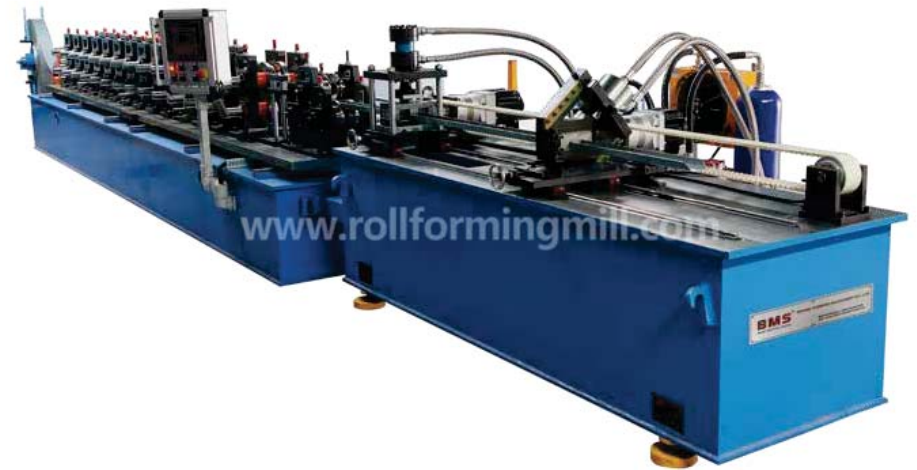
»»» Process Sketch



## Light Gauge Steel Framing Machine

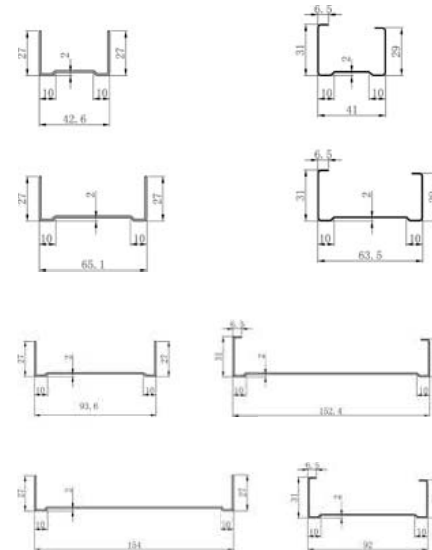


## Stud And Track Roll Former (Automatic Quick-Change Type, 120M/Minute=400 FPM)



Produce 95% of the stud&track sizes used in the industry

### Profile Drawing

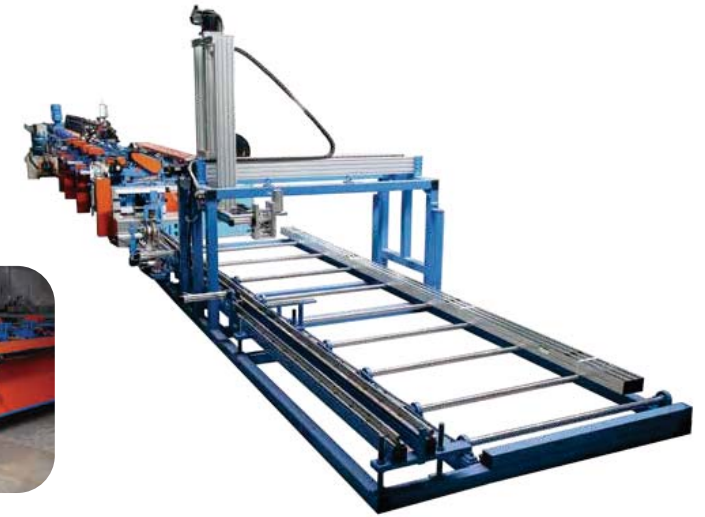


### Application Display





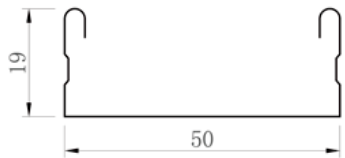
## Ceiling/Drywall Partition Roll Forming Machine



Automatic Stacker and Packaging Equipment

1. Production speed 40m/80m/120m(133FPM/266FPM/400FPM) per minute for options.
2. Similar as [German Kaufman style](#), [French Saint Martin](#), [British&Irish Gypsumboard style](#) Floor&ceiling channel, Runner, Omega, Angle and J trim channels available for options.
3. Automatic stacker and packaging equipment also available for options..

### Profile Drawing



### Optional Profiles

#### GI METAL FRAME SUSPENDED CEILING SYSTEM

##### Ceiling Section



Dimensions (mm)  
80X26X51X.50X3660

0.5mm thick, 80mm wide having two flanges 26mm each place at 457mm centres.

##### Intermediate Channel



Dimensions (mm)  
15X45X15X.50X3660

0.80mm thick, 45mm wide having two flanges of each 15mm each placed at 900mm C/C.

#### GI METAL FRAME PARTITION SYSTEM

##### Floor & Ceiling Channel



Dimensions (mm)  
50X32X32X.55X3660  
72X32X32X.55X3660

##### Metal Stud



Dimensions (mm)  
48X34X36X3660  
70X34X36X3660

### Application

#### Installation Chart

