

# Flat Bar

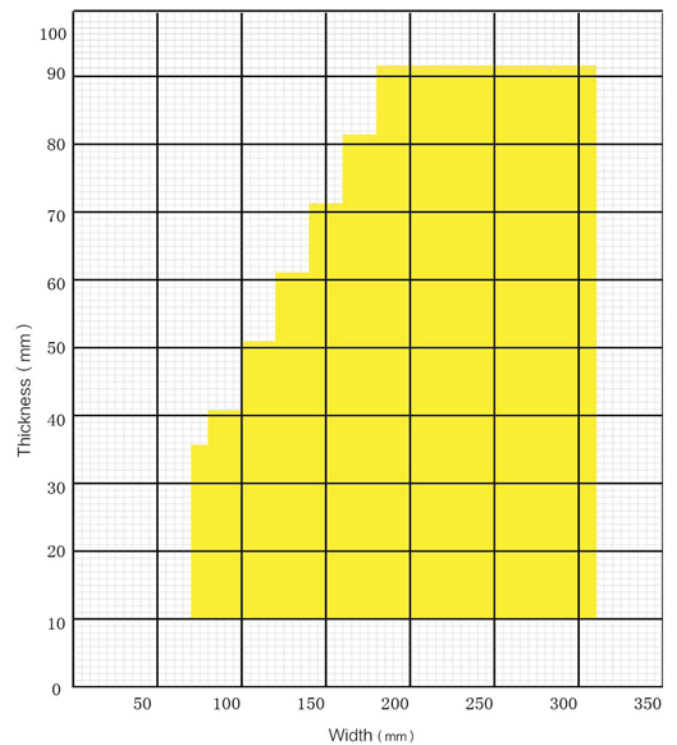
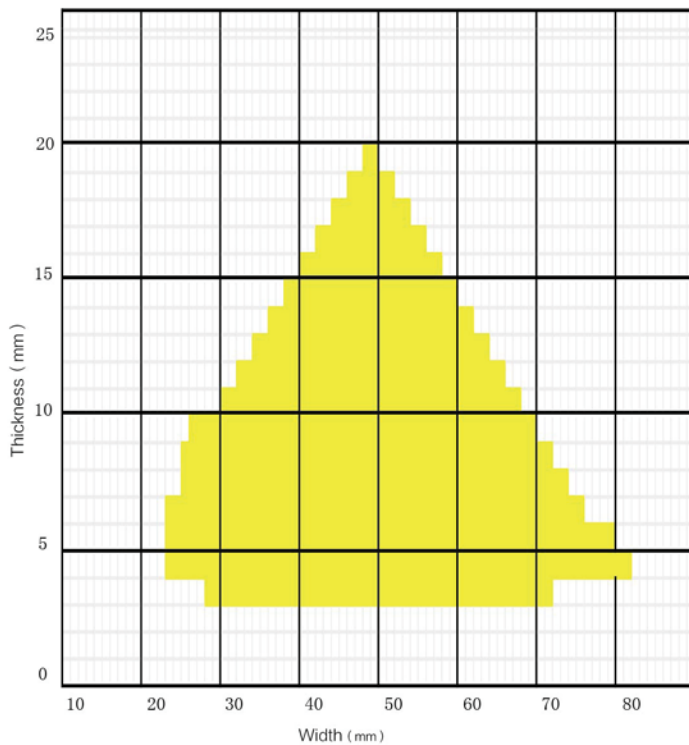


## Sizes and tolerance

● Hot-rolled flat bar

Width/mm	Width tolerance /mm	Thickness and thickness tolerance /mm				
		3.2~ 10	> 10~20	> 20~40	> 40~60	> 60~90
≥ 13~ 40	0~+0.7	0~+0.4	0~+0.5			
≥ 40~ 50	0~+1.0	0~+0.5	0~+0.7	0~+0.8		
≥ 50~60	0~+1.5	0~+0.5	0~+0.7	0~+0.8		
≥ 60~70	0~+1.5	0~+0.5	0~+1.0	0~+1.0		
≥ 70~100	0~+2.0	0~+0.7	0~+1.0	0~+1.2	0~+1.5	
≥ 100~140	0~+2.4		0~+1.0	0~+1.2	0~+1.5	0~+2.0
≥ 140~180	0~+2.8		0~+1.0	0~+1.2	0~+1.5	0~+2.0
≥ 180~200	0~+3.0		0~+1.2	0~+1.5	0~+2.0	0~+2.4
≥ 200~250	0~+3.4		0~+1.2	0~+1.5	0~+2.0	0~+2.4
≥ 250~310	0~+3.6		0~+1.2	0~+1.5	0~+2.0	0~+2.4

Size range



Note: The width to thickness ratios for flat bars are between 2~12.

# Flat Bar



## ● Cold drawn flat bar

Type	Size range/mm	Size tolerance/mm
thickness /mm	3.0~5.2	0~+0.1
width /mm	18.5~35	0~+0.2

Note: the flat bar can be classified into 3 kinds of shapes, which are: 1) rectangle, 2) the shape of one straight side and the other arc side, 3) two sides of arc shapes. The radius range for arc is 4.0~7.5, and the arc tolerance is -0.1~+0.1.

## Technical condition

### ● The decarburization depth:

Type	Decarburization /mm, not bigger than		
	Tungsten series	W-Mo series	Stainless steels
Hot-rolled flat bar	0.2+1%D	0.3+1.3%D	≤0.1
Cold drawn flat bar	0.1	0.1	0.05

Note: D stands for the side length of hot-rolled square bars, which is equal to the sectional area.

### ● Delivery condition and hardness:

Type	Hardness/HBW, not larger than			
	Steels with Co (≥10)	High speed steels with Co 5~8%	General high speed steels	Stainless steels, die steels
Hot rolled annealed condition	285	269	255	249
Cold drawn condition	none	none	275	269
Cold drawn annealed condition	none	none	255	249

● Delivery weight allows for a tolerance of ± 10% of the contract weight. Packaging and marking

## Packaging

At least two labels are on each bundle.

Label content: manufacturer name, size, grade, heating number, weight and number.

## Packaging

through negotiation between the two parties.

Others For other requirements, pls refer to GB/T9943-2008 and GB/T702-2008 or t

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## Applications

Flat bar products are mainly used in cutting tools, such as wood cutting tools, metal cutting tools, screw plate, broaching tools, etc. and also used in the wear-resistant applications, like motor blade.

