

I. Product Introduction

hard-faced wear-resistant steel plate is kind of steel plate, which adopted the international leading metal arc welding production technology, welded a certain thickness wear resisting alloy layer on the surface of common low carbon steel or low carbon low alloy steel . The product wear-resisting layer has high hardness, with good wear-resistant properties.

* HP100 (Low stress abrasive wear)

HP100 **hard-faced wear-resistant steel plate** is suitable for the low stress, little impact abrasive wear or fine particles, minimal energy and small incident Angle erosion wear condition.

Hard-facing layer main chemical composition of metal (Wt%)

C	Cr	B	Other
3~5	20~28	+	4~8

Hard-facing layer hardness: 60-65HRC

Wear resistant temperature: <500°C

III Dimension

Model	Specification	Total Thickness	Size	Minimum curling radius
HP100/	Base material + wearing layer(mm)	(mm)	(W+L) mm	(mm)
	5+3	8±0.5	1400×3000	R≥150
	6+4	10±0.5	1400×3000	R≥150
	6+6	12±0.5	1400×3000	R≥150
	8+6	14±0.5	1400×3000	R≥250
	10+6	16±0.5	1400×3000	R≥300

	12+6	18±0.5	1400×3000	R≥300
	8+7	15±0.5	1400×3000	R≥250
	10+7	17±0.5	1400×3000	R≥300
	10+8	18±0.5	1400×3000	R≥300
	12+8	20±0.5	1400×3000	R≥350
	15+10	25±0.5	1400×3000	R≥350
	12+12	24±0.5	1400×3000	R≥350
	20+20	40±0.5	1400×3000	R≥350

<p>Remark: 1. This minimum curling radius is subject to the wear-resisting layer turning inward , if wear-resisting layer turning outwards, the minimum curling radius shall be multiply by 2.</p> <p>2. We can also supply the special specification and size according to customer requirement.</p>				

IV. Performance Characteristics

- Excellent wear resistance: The wear layer thickness of the plate is 3-12mm, and wear layer hardness is 58-62 HRC. The plate abrasion resistance is 15 to 20 times more than the common steel plate, 5 to 10 times more than low alloy steel plate, 2 to 5 times more than high chromium cast iron. The wear resistance is much higher than that of spray welding and thermal spraying method.
- Good connection performance: The base material of our steel overlay plate is Q235 steel plate that can ensure the plate has good toughness and plasticity, and can offer the strength of resistance to external forces, also can connected other structures by welding, plug welding, bolt connection and other variety of ways. The connector is firm, and not easily to fall off. The connection ways are more than other materials.
- More choices: We can select different thickness plate to be the basic plate, can weld different number of layers and thickness of alloy wear layer, can get many kinds of steel plate with different thickness and function. The plate maximum thickness can be up to 50mm.
- Excellent mechanical property: the chromium carbide overlay plate can be produced to different specifications and sizes according to the requirements and can welded and formed on site, which make the maintenance and replacement work more easy and saving more time.