

Name: wear resistant rotor blades

Product Name	wear resistant coal hopper
Material	Q235/Q345+Chromium carbide overlay
Base metal	Q235/Q345 or customized
Hardfacing layer	Chromium carbide overlay; 3+3,4+4,5+5,6+4,6+5,6+6,8+4,8+5,8+8,10+10,12+12,16+10,20+20,40+10,etc
Chemical composition	C: 3.0-5.0 % Cr: 25-40 %
Hardness	HRC58-63
Microstructure	Carbide (Cr ₇ C ₃)volume fraction above 50 %
Wear resistance	High wear/abrasion resistance
Flatness tolerance	±3 mm/m
Thickness tolerance	uniform overlay thickness, with tolerance within 0-0.5 mm
Impact resistance	Medium
Technology	Hardfacing, open arc welding, submerged arc welding
product Size	Customized sizes
Main thicknesses (base metal+overlay)	Customized thicknesses.
Main Application:	Mining, Steel, Cement, Power, Port, Glass, Coal, etc.

Rotor blade is mainly used for crushing hot sinter at 700~800°C at the end of sintering machine. In order to extend the service life of single tooth roller, our company has chosen the method of reforming the metal composition at the worn part of single tooth roller. Chromium carbide overlay composite surface is adopted, and wear-resistant materials are added to the wear-resistant parts. The wear resistant alloy is welded in the worn part by surfacing repair.