

A note on Palletiser Rotor & Bed knife Material of Construction – MOC

The general rotor materials of construction are ***DIN 1.4112*** / 1.2601 etc. which are hardenable Stainless Steels (SS) but not exactly available in the country. The alternate materials are 440C/D2/D3/HSS, which are alloy steels for similar usage. Tungsten Carbide (TC) is also being used for rotor teeth and is economical for difficult material cutting. The Bed knife materials are mostly Ceramic or Tungsten Carbide (TC).

The rotor bed knife combination has to cut most varied type of materials like Polyester, PP, HDPE, HIP, ABS, Nylon, and Glass filled PP etc. As mentioned earlier, imported rotors are generally made of hardenable SS, but they have a distinct drawback of chip breakage and low life. Such, through hardened rotors can never be repaired successfully. So, for almost a decade now, the better material being used for making rotors is ***Stellite***. It has much better wear properties due to high Cobalt and Tungsten. From users point of view, Stellite teeth are easy to repair if chipped or dented and give much better tooth life with smoother cutting. Thus Stellite forms the best solution, and is being used for cutting of polyester and other materials universally. As far as the cost is concerned, the Stellited cutter pays for its cost many times over due to its extended life, lesser downtime and repeated reparability.

We also manufacture ***Wedge-Lock Type*** Rotary Cutters, which have TC replaceable teeth held tightly with wedges. Any tooth broken can be replaced by new piece without disturbing the geometry of the rest the rotor. This is an ideal choice for difficult glass filled / high impact materials.

For Stationary Knife, ***Tungsten Carbide*** (TC), Solid or brazed on SS, forms the ideal material. ***Ceramic*** is also being used vastly for dry/ wet cutting and is considered the most ideal choice, as it is a 'fit and forget' type of solution. Ceramic, as apparently considered, is not all that fragile and certain highly advanced ceramics are available with us who withstand the impact and provide very good life. There is no doubt that quality of cut is improved tremendously and life of rotor is enhanced. Again it pays for its cost in the long run. In polyester cutting ceramic bed knife is the latest in- thing world over. Solid TC forms the next ideal material and choice of common.

We are now in a position to cater to all your requirements of new Rotor and Bed knife in all materials, shapes and sizes. We also undertake regrinding of all types of rotor and Bed knife and repair of Stellite rotors by regenerating damaged teeth. Please remember us as one stop shop for all your Rotor and Bed knife requirements / resharpening / problems, if any.

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