

Tangential cutters are new face of heavy milling

A new range of tangential face milling cutters and inserts for heavy roughing has been launched by Dormer Pramet.

An important addition to Pramet brand's wide assortment of milling products for heavy machining, the tangential mounting of the new robust double-sided inserts ensures rigid clamping. This results in good impact strength and cost efficient machining due to both high feed and cutting depth capabilities.

For use on Pramet's S60LN15C cutter, with a 60° approach angle, the tangential inserts LNEX are suitable for face milling of cast iron and steel in heavy machining conditions.

Tomasz Cymorek, international application engineer at Dormer Pramet, said:
"Construction of the tangential milling cutter ensures the stable clamping of the inserts, while its mounting means the cutting force is along each insert's thickest, strongest axis. This helps to withstand greater forces and gives us at least 30 per cent higher tool life in heavy conditions compared with the radial option.

"Our new range of inserts will be suitable for large workpieces on big castings and forgings for, in particular, the power and marine industries."

To support the new range of cutters, Pramet has developed the M and KR chipbreakers.

M has a positive geometry for standard workpieces and promotes low cutting forces. Chipbreaker KR has a more negative geometry for hard workpieces and is the first-choice for heavy cutting conditions.

The inserts have been produced using the new grades M5326, M8326 and M8346, which were developed specially for heavy milling to offer additional durability. Pramet launched the grades in November 2014,

Meanwhile, Pramet now has a complete range of ADMX16 inserts for productive 90° shoulder milling. From 1 April, it is adding five new radii (0.4mm - 5.0mm) and a new ADEX insert with HF geometry for high feed machining.

ADMX16 offers a universal solution for machining steel, stainless steel, cast iron, copper and aluminium.

The inserts' highly positive geometry allows low cutting forces for durability and reliability. Its optimised shape ensures ADMX16 provides a smoother operation and successful chip evacuation, leading to a quality machined surface finish.

Dormer Pramet's introduction of the milling ranges form part of a wider product launch

on 1 April 2015 – the first combined unveiling since Dormer and Pramet merged last year.

An overview of all the new Pramet ranges is included in the latest new product brochure, which is available to order from your local Dormer Pramet sales office, or through your local Dormer Pramet distributor.

For more information go to www.dormerpramet.com or contact your local Dormer Pramet sales office.