

OERTLI

Excellence in solid wood

**OERTLI quality for your
success**

Planing cutterheads

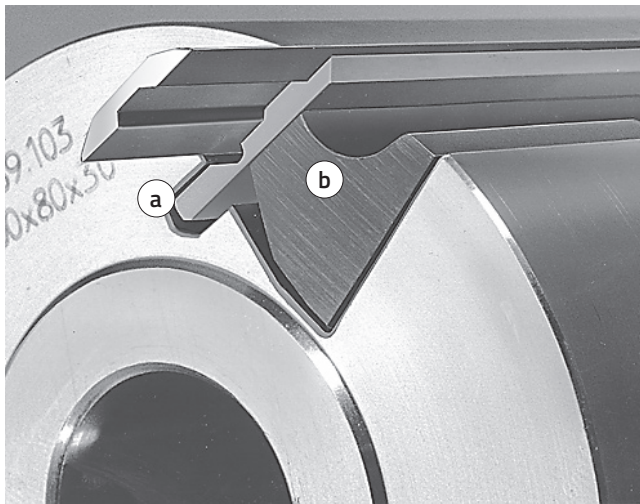
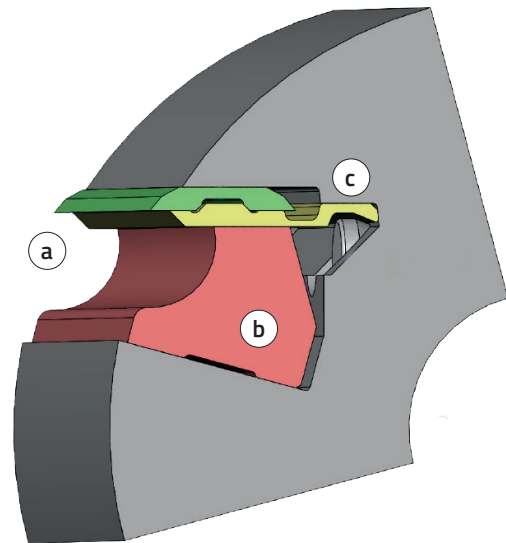
SINUS



Planing cutterheads SINUS

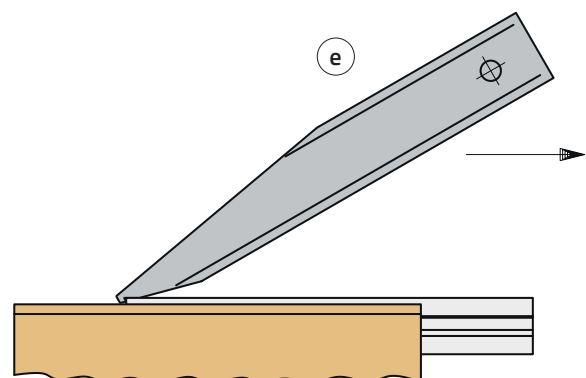
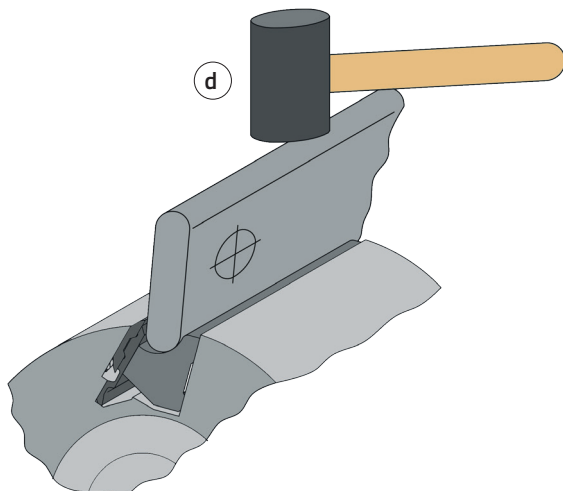
Design

The well proven SINUS centrifugal planing cutterhead is equipped with hardened and polished precision **knife-holders (a)**. This clamping element has a dual function: First it ensures the precision positioning and optimal concentric running accuracy from the SINUS planing knives, and secondly the knife-holder, which is designed as a chip breaker, helps to expire the wood chips with a defined chip breaker function. This leads – in combination with the large chip **gullet (b)** – to an optimal ejection of the wood chips. The SINUS is available with 2 or 4 knives in high-strength aluminium for easy handling and compatibility with today's moulding machine technology. Many SINUS heads are available ex stock.



Functionality

The cutterhead has centrifugally clamped knives in HS-TRI or HW polished solid carbide quality. Precise radial positioning of the knives is achieved with spring loaded **balls (c)** to ensure that the knife cannot fall out before centrifugal clamping takes place. Very fast knife change is possible with a light impact on the **wedge (d)**, so the knife can be released, pulled out sideways and turned **around (e)**. The advantage is that there are no clamping screws, and adjustment of the knives is unnecessary.



SINUS planing knives

Every planing knife has 2 cutting edges and is regrindable on both sides. The HS-TRI knives are 1 time regrindable, the polished HW knives 3 times regrindable. High-Quality HS-TRI knives for good life in solid wood and HW polished carbide knives for abrasive wood species. Both knife qualities are usable in the same tool body.

HS-TRI (TRI-Steel Technology)

In collaboration with a prominent steel manufacturer OERTLI developed the HS-TRI-steel planing knives. The TRI-steel planing knife consists of 2 different HS qualities. The middle part is an extruded steel strip. The two cutting edges are from high-quality HS fused with the middle steel strip. Due to this sandwich-technology the HS planing knives are durable, robust and provide high-quality cutting performance.



HW-Polished Carbide

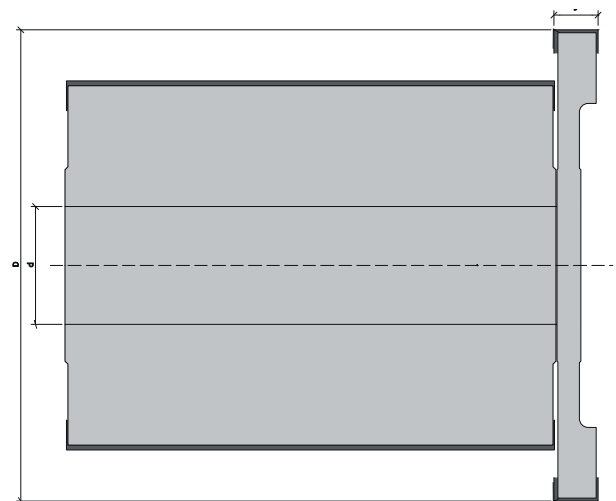
The HW planing knives are made of a fine quality tungsten carbide with a very high breaking-strength. The HW knives are 0.3mm wider compared to the HS-TRI knives, and so they can be reground 3 times on each side. The cutting edge has a polished face so as to virtually achieve the sharpness of a HS knife. Therefore, HW polished knives can also be used successfully on mixtures of soft and hard wood to ensure a fine finish.

Edge Reference Rebate Cutter

To work with SINUS cutterhead on 1st bottom spindle.

Application: Four-sided moulding machines

Design: Tungsten carbide reversible knives; Spur and raker knives separately arranged; With one-sided shear cut angle; Tool body in steel; MEC (mechanical feed)



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