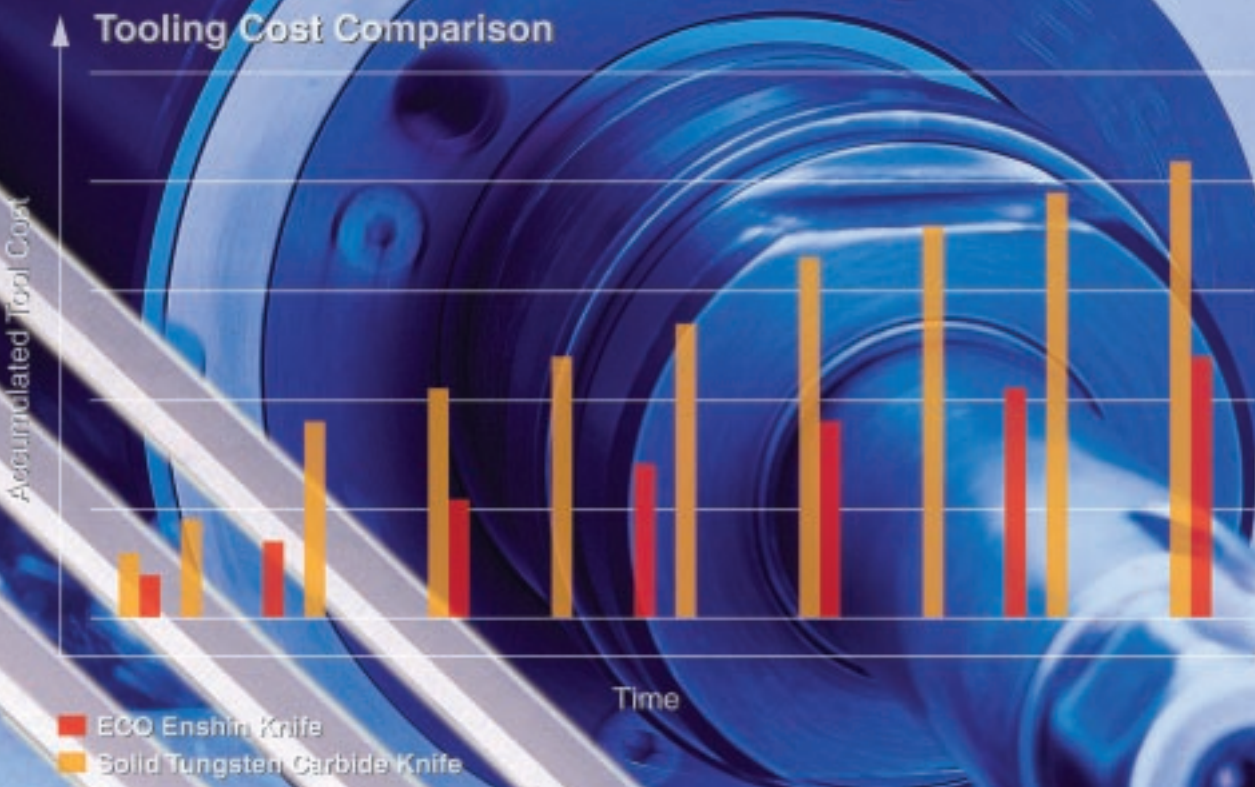


ECO Enshin Knife

KANEFUSA

Reversible Tungsten Carbide Knife

New
18-22.05.2009
LIGNA
HANNOVER · GERMANY
Weltmesse für die Forst- und Holzwirtschaft
World Fair for the Forestry and Wood Industries
www.ligna.de



Kanefusa - A New Dimension of Performance



Specifications and appearance are subject to change without notice.
Photographs and illustrations may vary from actual products.

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[Class] [Article] [Revision]

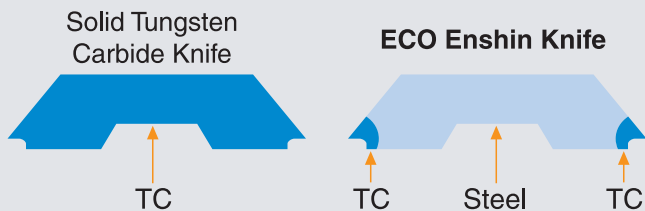
ECO Enshin Knife

Tungsten Carbide knives are usually solid. The disadvantages are:

- To avoid breakage, the carbide grade has to be less abrasion resistant and more flexible.
- The knives are more expensive than steel knives, because Tungsten Carbide is much more expensive than steel.

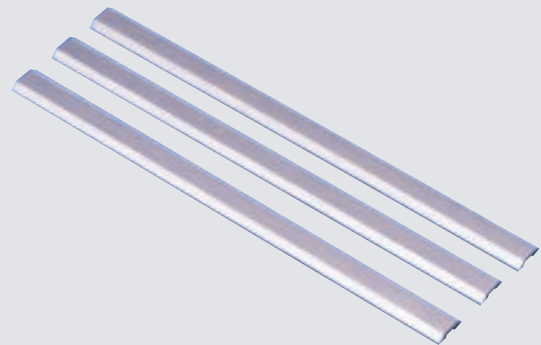
We have developed a new technology to manufacture a new and revolutionary Tungsten Carbide knife called ECO Enshin knife.

Our new technology allows us to fuse a very small piece of highly abrasion resistant Tungsten Carbide to a tough and shock absorbing steel base.



The advantages of the new knives are:

- Optimized Tungsten Carbide grade increases life of the knife by up to 50%.
- Flexible steel substrate prevents knives from breakage.
- Very economical because less Tungsten Carbide is used.



ECO Enshin knives are suitable for cutting laminated timber, hard woods, tropical woods.

ECO Enshin knives are available in various lengths of up to 230 mm.

Monitor Test Results

User	Material	Feed Speed [m/min.]	Cutting Depth [mm]	Result
A	Laminated japanese cedar (sugi)	13	1	1.5 times longer life (was 1 month, now 1.5 months)
B	Laminated radiata pine	12	3.5	1.5 times longer life (was 1 day, now 1.5 days)
C	Plastic injected birch for handrails	7.5	0.7	1.5 times longer life (was 1000 m, now 1500 m)
D	Laminated yellow cedar	15	2	1.5 times longer life (was 2 weeks, now 3 weeks)
E	Laminated larch for structural purpose	10	1	2.0 times longer life (was 8.500 m, now 17.000 m)

Tool: ENSHIN planer head, D = 125 mm, Z = 4
Machine: Moulder, n = 6000 1/min.