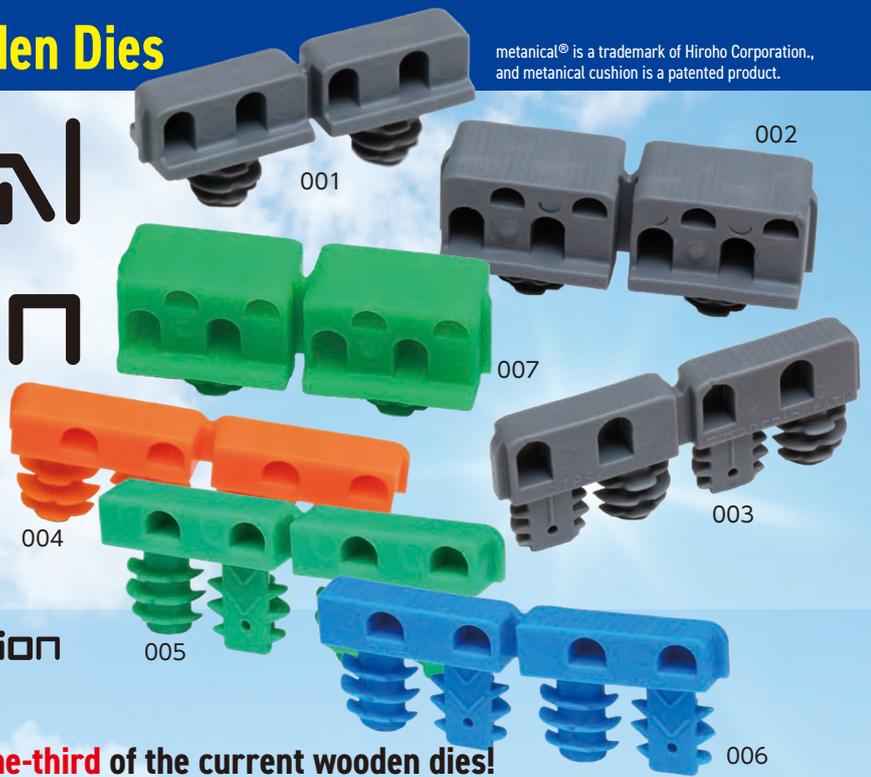


Reusable Elastomer for Wooden Dies

metanical® is a trademark of Hiroho Corporation, and metanical cushion is a patented product.

metanical cushion



Easy attachment and removal

Speedy

Environmentally friendly

Simply insert the metanical cushion into the holes machined by laser!

Installation and removal time reduced to one-third of the current wooden dies!

Since it is easy to sort waste, recycling is possible at a lower cost than the current state!

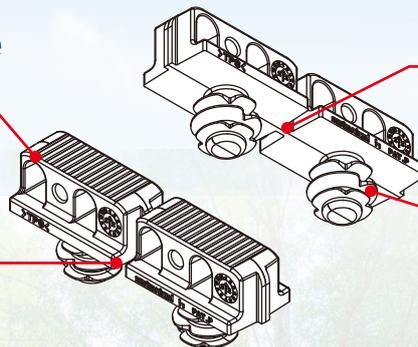
► Elastic material with both Joining and separation functions

Resilience through arch structure

The top is soft and designed to minimize marks on products

Increased joint strength

Improved joint strength through interlocking shapes connecting each part



Cut with scissors to make two usable pieces

Detachability via flange structure

The lower section features moderate joint strength and a shape that resists detachment from the die

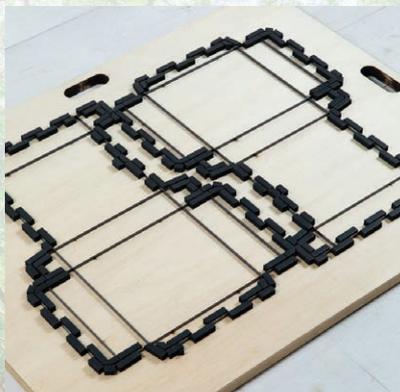
Current wooden die



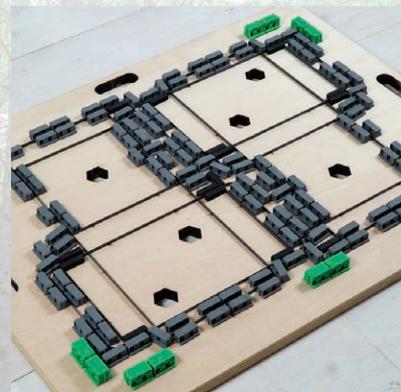
Time consuming



Difficult to sort waste



Wooden die with metanical cushion



Simply insert into the hole

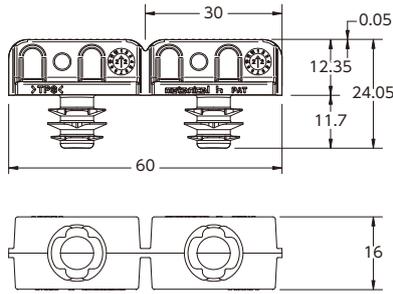


Reusable

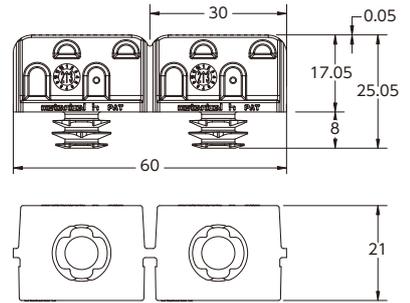
Approximately **one-third reduction** in work time compared to current wooden dies
Reusable with low environmental impact, and can be recycled into wood biomass or iron

Specifications

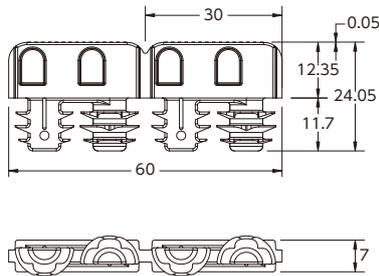
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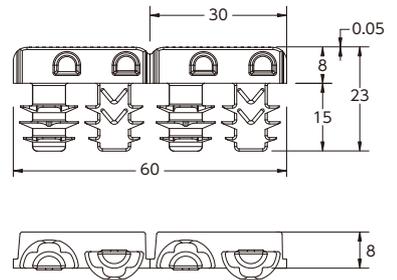
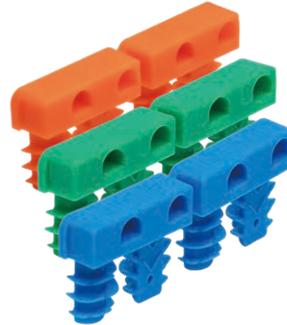
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003



004/005/006



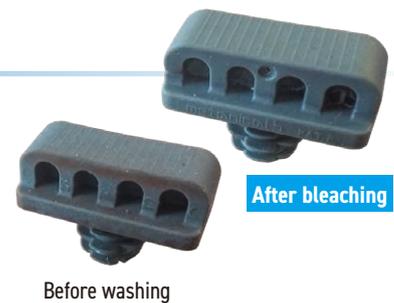
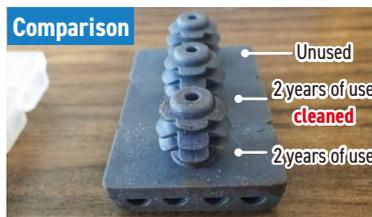
Product name	Hardness (Type A)	Size (mm)	Mounting hole diameter (CAD data measurements)	Quantity
metanical cushion 001 gray	43	H12.3 × W10-16 × 60	9.9φ (9.2φ)	100pcs/bag
metanical cushion 002 gray	43	H17.0 × W15-21 × 60	9.9φ (9.2φ)	100pcs/bag
metanical cushion 003 gray	43	H12.3 × W7 × 60	5.4×10.1ellipse (4.7×9.4ellipse)	100pcs/bag
metanical cushion 004 orange	60	H 8.0 × W8 × 60	5.4×10.1ellipse (4.7×9.4ellipse)	100pcs/bag
metanical cushion 005 green	50	H 8.0 × W8 × 60	5.4×10.1ellipse (4.7×9.4ellipse)	100pcs/bag
metanical cushion 006 blue	81	H 8.0 × W8 × 60	5.4×10.1ellipse (4.7×9.4ellipse)	100pcs/bag
metanical cushion 007 green	70	H17.0 × W15-21 × 60	9.9φ (9.2φ)	100pcs/bag

※The mounting hole diameter is the finished dimension after laser processing. The CAD data dimensions are the pre-machining values (machined with a laser width of 0.7 mm).
 ※Hardness is the measurement value for solid material from resin manufacturers. Due to its three-dimensional shape, it can be used more flexibly than the numerical value.

Reusable thermoplastic elastomer

Even after two years of use, the shape, hardness, and joint strength remain virtually unchanged from unused items, making it reusable.

Washing machine could remove foreign matter, and using a resolving bleach removes rust stains, making reuse easier.



When disposing of wooden dies, each material can be separated: plywood becomes wood chips, steel rules go to steel production, and elastomer materials can be reused. This enables resource recovery and material recycling.

The values listed in the catalog are representative values and are not guaranteed values.



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