

SPECIAL TUNGSTEN COATING

 **WOLFGRIPP**

THE INNOVATIVE METHOD OF  
COATING SURFACES WITH  
A GRIPPING AND MOUNTING  
TECHNIQUE.

## **SPECIFICATION OF THE WOLFRAM OUTER COATING (CARBIDE-WOLFRAM)J**

Thanks to our special application process it is now possible to coat all steel, regardless of its components, with a thin layer of carbide-wolfram ranging between 2-40 microns. The outer covering can have a varying degree of coarseness depending on the customer expectations and technical requirements.

The innovative method of coating surfaces with a gripping and mounting technique guarantees a long lasting result as well as a tested (verified) quality. Thanks to the stable, coarse, long lasting outer coat, the friction efficiency is doubled.

Small parts that were not previously securely mounted or securely transported with a grasper can now achieve a much higher effectiveness of mounting and gripping with the outer coating.

The outer coating easily binds with steel making it resistant to mechanical damage through striking, bending, stretching and gripping. It is only possible to remove the outer cover by grinding or aggressive sanding.

If needed, the outer cover can be polished with diamond or silicon carbide. The hardness of the steel layer under the outer cover does not change. The surface of specified alloy steel achieves hardness of 82 Rc (Rockwell), without deformation of the components that are being covered with the wolfram layer.

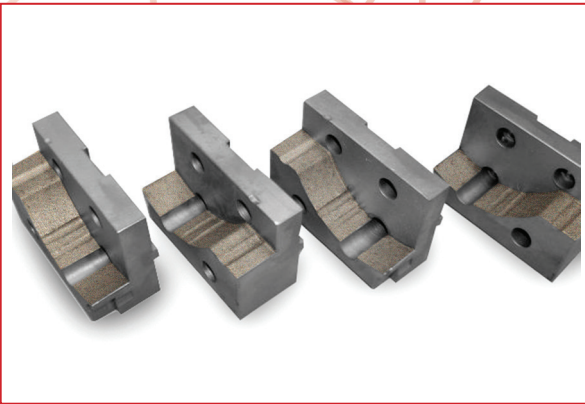
## **KEY ADVANTAGES OF USING A CARBIDE WOLFRAM COATING:**

- Small mounting or gripping surfaces help to accomplish set goals.
- The thin-walled components or those susceptible to deformation can be mounted with less active power.
- The coated surfaces are more resistant, which means longer usage.
- The innovative carbide wolfram coating significantly increases the security of mounting or gripping in adverse conditions (e.g. oil or refrigerant on the surface of the component).
- Depending on the degree of coarseness, the carbide wolfram coated surface will show no signs of mounting on the surface of the component.



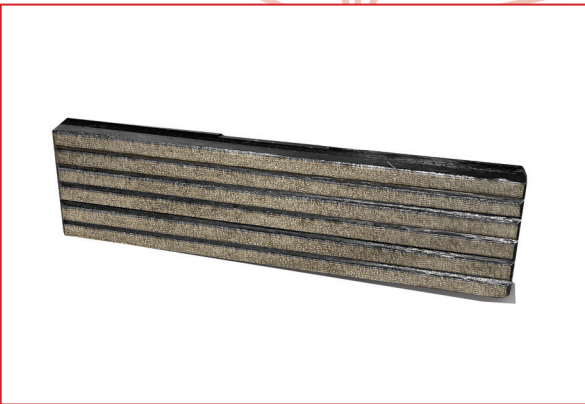
### Degreable vice jaws

The formed small surface is able to hold small components with greater security.



### Formed jaws for cast iron

Thanks to the wolfram coating, components are much more securely held even when the slope of the held surface is 2-3%.



### Vice jaws with wolfram coating

The wolfram coating is increasing the efficiency of the holding power by  $\times 2,2$ . The components are securely held even in adverse conditions whilst cooling with oil.



### Field of the magnetic plate

The utilisation of the outer coating on the half mounting magnetic plates almost doubles the power needed to move the component (efficiency of 1,7). Thanks to that relatively small component, even very small details are mounted more effectively.

### Turning jaws

The pressing surface is coated with wolfram carbide. Thus the effectiveness of the holding increases by more than double.

THIS IS AN INDISPENSABLE METHOD FOR THIN WALL COMPONENTS

POWER DEFORMING COMPONENTS CAN BE SIGNIFICANTLY REDUCED ON THE MACHINE ACTUATOR



### Massive soft wide circumscribing jaw



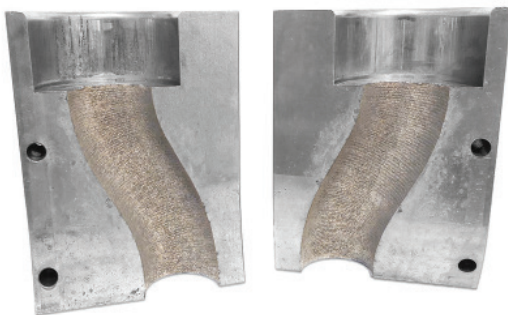
### Tightening sleeve for turning machine

The wolfram coating eliminates the risk of gripped material with high parameters of treatment moving.



Formed jaws for  
mounting pipes

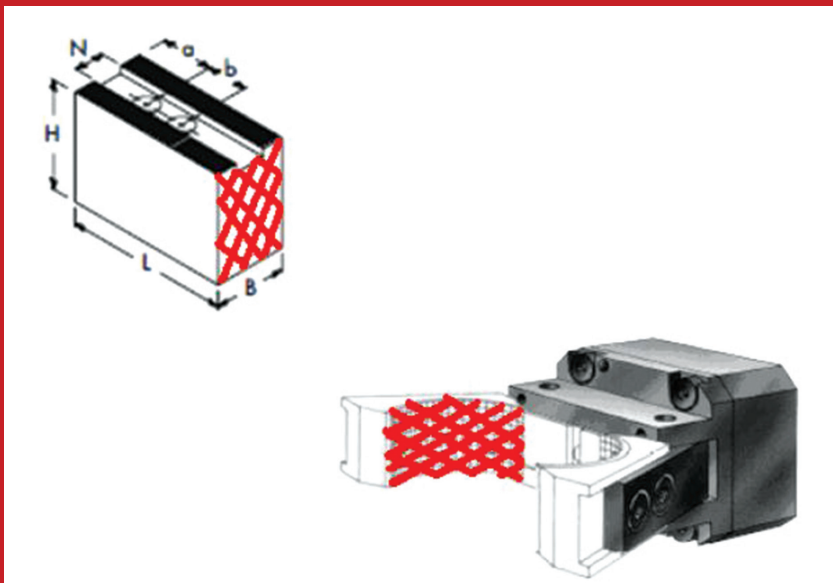
The wolfram coating  
ensures a stable hold  
on pipes in the jaws  
during the banding  
process.



## ORDER EXAMPLE

A drawing will help us to recognise the actual need, as well as will reduce a risk of misunderstanding.

Please include a drawing in the box with the components, as well as providing the contact details of the person responsible for the order.





**WOLFGRIPP**

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