



**SAS TRINEC**  
ESTD 1885

# METALOCK

**METALOCK** is a method of repairing cracked or broken steel and cast iron machine parts using the METALOCK cold method. This method was developed and patented in the 1960s in England and has been so successful that it has spread virtually worldwide. The licence holder for the Czech and Slovak Republics is Strojírny a stavby Třinec, a.s.



## PRINCIPLE METHODS

- Cold joining of cracked or broken parts using steel locks made of special high-strength steel.
- Inserting and packing "Metallocks" transversely to the crack, into pre-prepared holes and grooves and then grinding them out.
- In order to ensure the strength and tightness of the joint, "Metallock" screws are inserted lengthwise directly into the crack, then packed into a continuous sealing cord; in the case of large cracks and severely damaged or missing parts of the material, new parts are inserted into the parts to be repaired with so-called "Masterlocks".
- However, the method cannot be applied to cracks where a previous unsuccessful attempt at repair by welding has been made! Such cracks can only be repaired exceptionally if the heat-affected area is replaced by welding.



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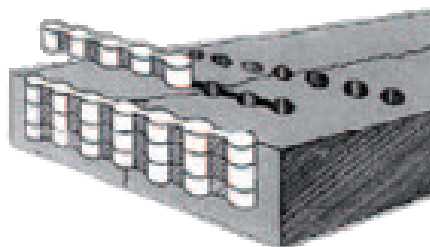
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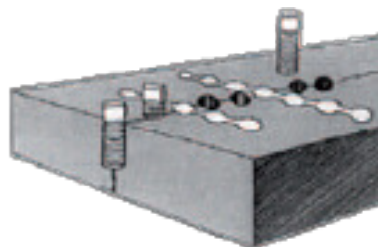
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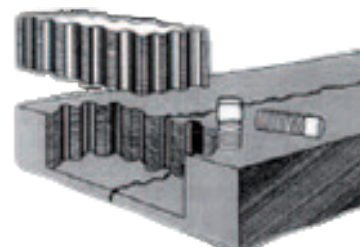
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**METALLOCK**



**METALACE**



**MASTERLOCK**



## REPAIR PROGRESS

## BENEFITS

- repairing cracks and broken parts does not cause internal stresses, as is the case, for example, when welding
- cost savings on the purchase of a new machine part or the entire machine
- on-site repairs without dismantling in a relatively short time
- the strength and tightness of the joint is comparable to the original material



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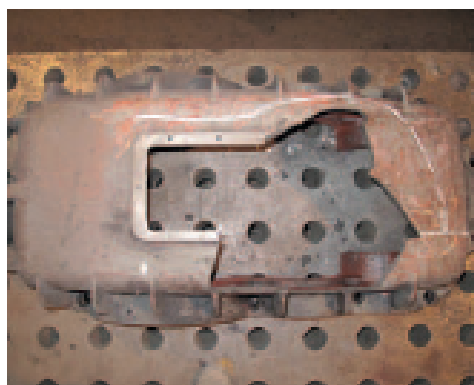


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## EXAMPLES OF COMPONENTS:

- cast iron, cast steel, but also aluminium and bronze from thickness. 4 mm wall
- rolling mill stands, engine blocks, turbine bodies, compressors, pumps, gearboxes, gear wheels, machine tool beds, presses, etc.

**OUR SPECIALLY TRAINED EXPERTS CARRY OUT REPAIRS  
THROUGHOUT THE CZECH AND SLOVAK REPUBLICS!**



**BEFORE THE REPAIR**



**AFTER THE REPAIR**



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