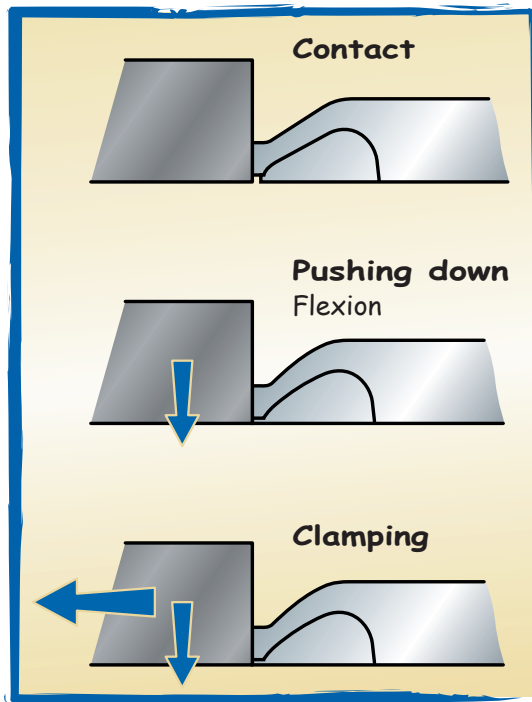


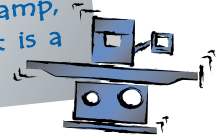
# KOPAL PRESENTATION HORIZONTAL CLAMPING SYSTEM

## Clamping system with horizontal pressure

System "with KOPAL moving clamps ©"



KOPAL horizontal clamping system; the precision and simplicity of a vice, the size of a clamp, and the holding down effect is a bonus!



The sole clamping action of the horizontal clamping system ensures the pushing down and clamping of the workpiece to be machined.

The tip of the clamp is composed of three clamping parts : one rigid part and two flexible parts.

The **clamping** of the workpiece can be broken down into three phases :

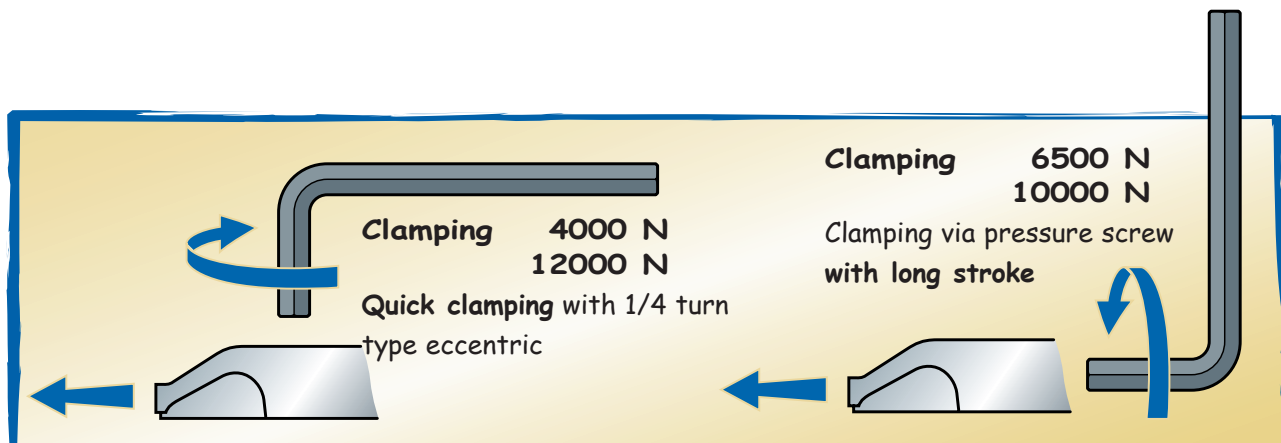
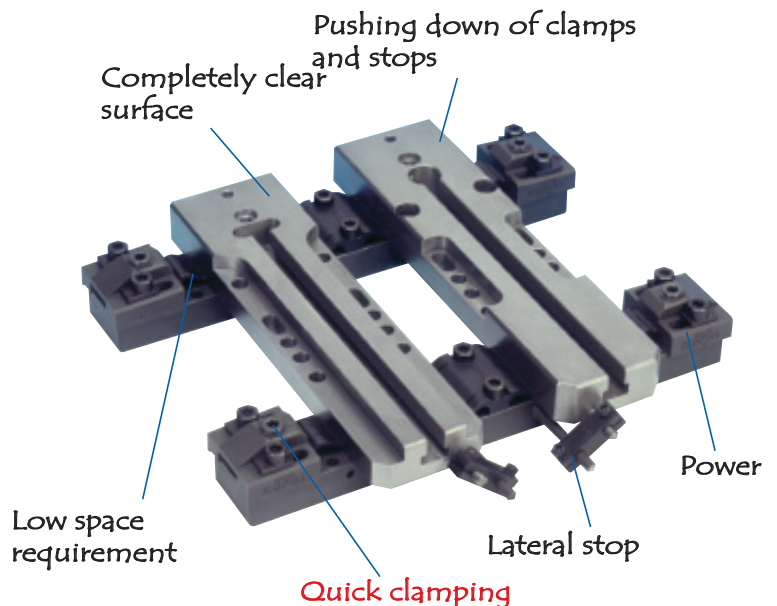
- **Contact** : the flexible parts of the clamp make contact with the workpiece to be clamped.
- **Pushing down** : the flexible parts clamp the workpiece, pressing it down until it makes contact with the rigid part.
- **Clamping and positioning** : the rigid part of the clamp clamps the workpiece in place.

Horizontal clamping systems can be adapted to all types of T-slot or modular tables, and provide a clamping force of up to 12000 N.

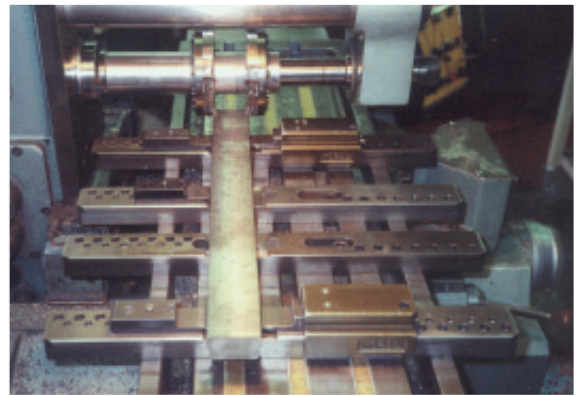
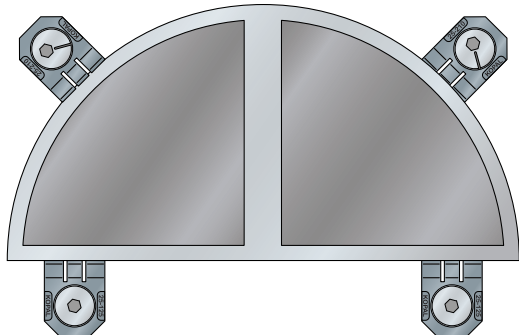
The system leaves the top surface of the workpiece completely clear, thus allowing machining over the entire surface of the workpiece and ensuring there is no risk of interference with tool movement.

**The use of this horizontal system with supports simplifies set-up and reduces adjustment time.**

The clamps ensure that mounting is stable, robust and fast, and reduces workpiece changeover time.



Certain references in the 4000 Newton Horizontal Clamping System range are available on request with grounded radii for clamping workpieces with convex radii.

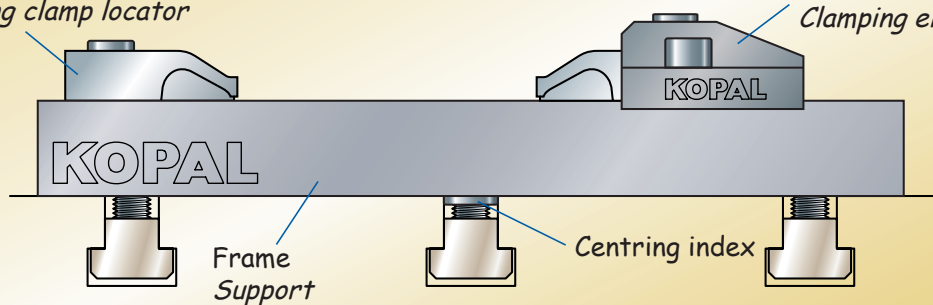


Machining of a section with the 10000 Newton System

The KOPAL **Horizontal Clamping System** can be used as a **Vice**

Multi-position fixed jaw  
Indexing clamp locator

Removable jaw  
Clamping element



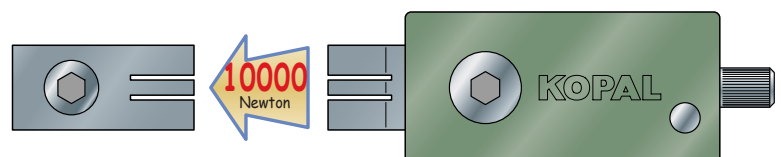
Special machining set-ups



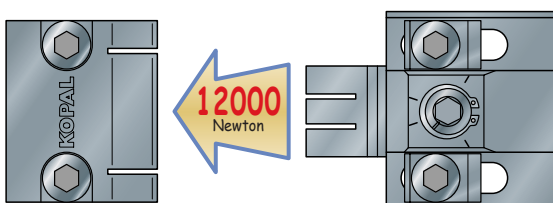
T-slot table  
and  
Special machining set-ups



T-slot table, supports  
and  
Special machining set-ups



Supports  
and  
Special machining set-ups



Supports  
and  
Special machining set-ups

