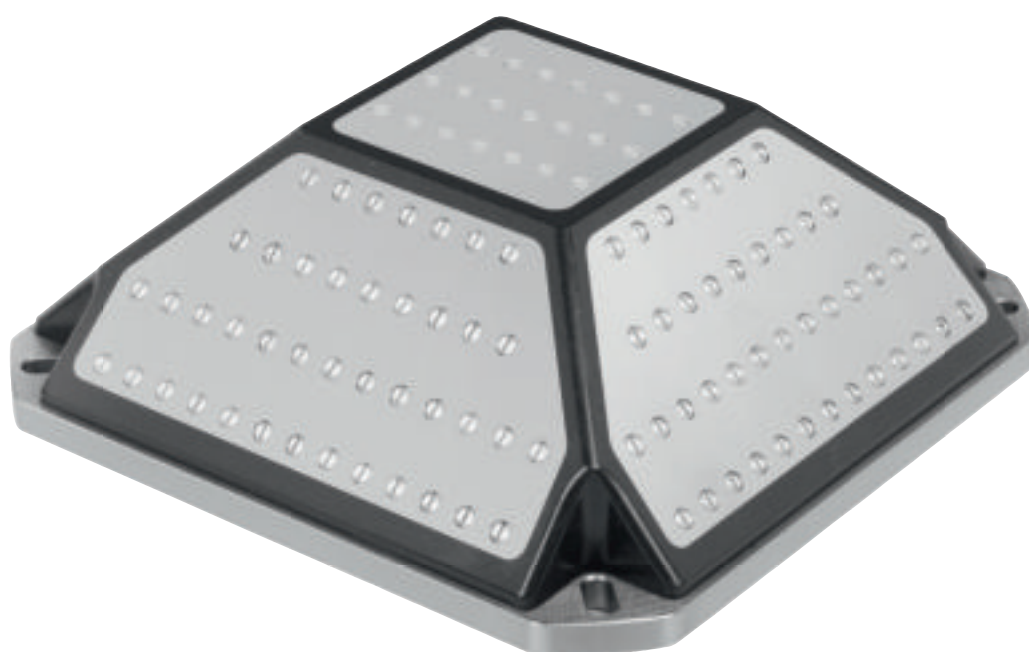


## Mineral cast



“KIPP block” workholding towers are used as an alternative to cast or steel tooling columns. Due to its low specific weight (lighter than aluminium), mineral cast towers are suitable for keeping the loading on 4 and 5-axis machines as low as possible. Ideal for use on machines with high accelerations and rapid traverse speeds.

The flexibility of design is highly convincing. Steel jacketed versions are also available in a wide range of shapes and sizes.

#### ADVANTAGES:

- Outstanding absorption properties, 6-10 times better than grey cast iron
- Very low specific weight, lighter than aluminium
- Low heat conductivity
- Flexible planning regarding design
- Up to 30% increased service life of cutting tools

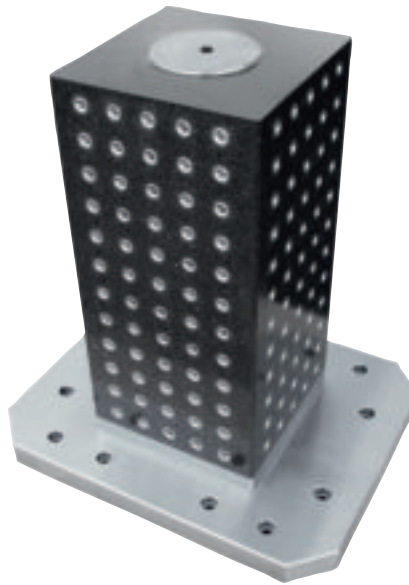
**For many years mineral cast has been used as an alternative to iron castings and steel constructions. Today it is the leading technology for many applications. It is thanks to mineral cast that new innovations in electronics and medical technology were made possible.**

#### MINERAL CAST TECHNOLOGY

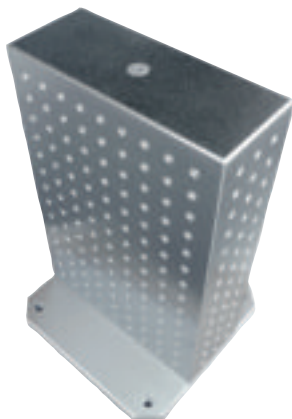
1. Mineral cast is a dual component system consisting of a mineral filler and an epoxy resin bonding agent.
2. The mineral filler makes up roughly 90% of the total weight.
3. Mineral cast is produced using a cold casting method injected into precision negative moulds at room temperature.
4. Due to the true form and high precision casting method, added elements such as plates, thread inserts, guides or tubes can be precisely placed in the casting mould.



## Mineral cast workholding tower



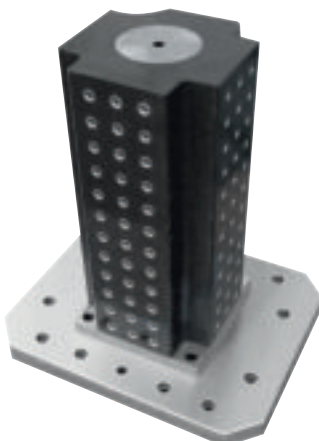
## Mineral cast workholding tower with steel jacket



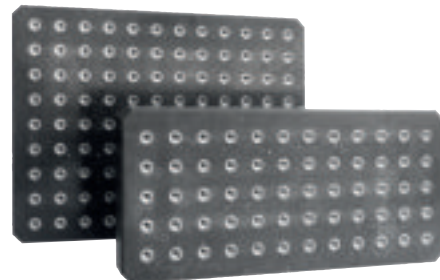
## Mineral cast workholding tower with zero-point clamping system



## Mineral cast cross tower

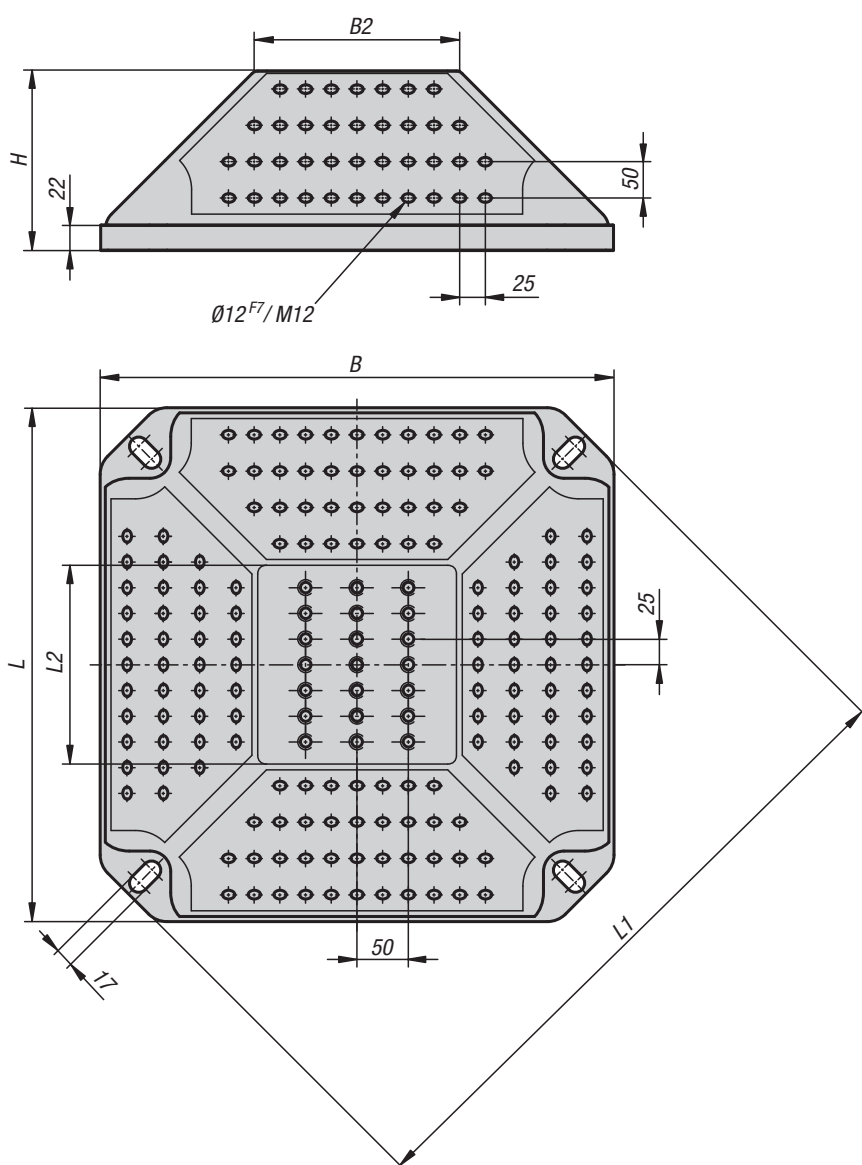
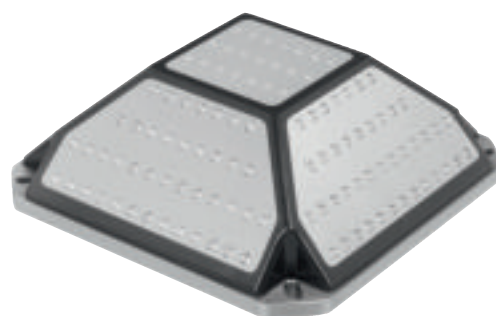


## Mineral cast plates



# Workholding pyramid

mineral cast



## Material:

Mineral cast is a two-component system comprising mineral fillers and an epoxy resin as the binding agent.

## Version:

Mineral cast is cold-cast using precision negative moulds at room temperature and subsequently hardened.

## Sample order:

K1235.12400400140

## Note:

The mineral cast workholding pyramid was specifically developed for use on 5-axis machines. The pyramid form enables 5 different clamping systems or setups can be mounted on the clamping surfaces. The low net weight of the clamping pyramid means that the overall loading on the machine table is only slightly increased.

## Advantages:

- Low specific weight, lighter than aluminium
- Outstanding vibration absorbing properties, 6–10 times better than grey cast iron
- Increased service life
- Low heat conductivity
- Flexible design options

## KIPP Workholding pyramid, mineral cast

Order No.	B	B2	H	L	L1	L2	weight ca. kg
K1235.12400400140	400	160	140	400	470	160	52
K1235.12500500175	500	200	175	500	630	200	97



## Example

