1ST MACHINE TOOL ACCESSORIES

presents



Quick Change Clamping System – Zero Point

The V-Tech Zero Point system has been created for use on CNC machining centres. Its unique design guarantees the secure and precise clamping of workpieces, even under tough conditions. The pneumatic, quick change, ZERO POINT clamp features compact dimensions, an extraordinarily high clamping force and is made from top quality material.

Drastic reduction in time needed to set up and change workpieces

- **High precision**
- High clamping force
- Made from heat-treated stainless steel
- Self-clamping mechanism, part is secure even if air pressure fails.
- Various configurations available
- **Compact dimensions**
- Uniquely structured clamping piston which attains the maximum clamping force



The **ZERO POINT** system could **cut down on set-up times by** more than 90%, enhancing the productivity of the manufacturing process.

The high clamping force is possible due to the unique design of the pneumatic piston which allows for an even distribution of contact, within a small clamping body.

The ZERO POINT system offers: - Various configurations

- **Mechanical vices**
- **Chucks**
- **Special clamping fixtures**

Technical Spec:

Clamp force: 24kN **Input**: pneumatic

Recommended pressure: 8bar

Max. pressure: 10bar Min. pressure: 5bar Repeatability: <0.005mm

Weight: 2.2kg

Number of cycles: >20000

Air blast: included



V-Tech 2 Receiver Clamping Base

The 2 receiver clamping base is ideal for quickly changing precision vices in CNC machining centres. The changing method is simple, speedy and will ultimately reduce undesirable setup times. Made from top quality refined steel, the base has a clamping force of 2 x 24kN, allowing for application in even the most demanding roughing operations.



The clamping base assembly includes

- A stainless steel base
- 2 receivers
- 2 plastic sealing plugs
- 1 fixed clamping pin
- 1 fixed clamping pin 1 axis of movement
- 2 locating tennons
- Optional dimensional modification according to your requirements

Technical Spec:

Clamping base: 2x300mm

Number of receivers: 2
Pulling Force: 2x24kN
Pitch of Receivers: 300mm
Pallet Change Time: <10secs

Material: Stainless Steel **Dimensions**: 500x256mm

Weight: 19.2kg

Order Number:201601.01.02

Clamping base: 2x200mm

Number of receivers: 2 Pulling Force: 2x24kN

Pitch of Receivers: 200mm Pallet Change Time: <10secs

Material: Stainless Steel **Dimensions:** 400x256mm

Weight: 16.8kg

Order Number: 201601.01.18S





V-Tech Receiver Clamping Bases



The 4 receiver version of the clamping base provides a compact solution for quick clamping and positioning of mechanical vices and clamping fixtures, ideally on vertical CNC milling machines. The base provides the possibility for a wide variety of arrangements as elements can be easily combined in perpendicular directions. This means the base can be conveniently used for machining larger parts, such as plates.

The clamping base assembly includes:

- Refined steel base
- 4 receivers
- 4 sealing plugs
- 1 fixed clamping pin
- 4 clamping pins 1 axis of movement
- 2 clamping pins 2 axes of movement
- 2 locating tennons
- Optional dimensional modification according to your requirements

Technical Spec:

- Number of receivers: 4
- Clamping force: 4 x 24kNs
- Pallet change time: <10secs
 - Material: Stainless steel
- **Dimensions**: 460mm x 456mm
- Weight: 28.6kg
 - Order No: 201601.01.03



The main advantage of the 6 receiver base is the possibility to position more mechanical vices in multiple configurations. It can be also frequently used for high volume production with multiple workpieces. With the 90° receiver indexing feature, workpieces can be indexed simply.

The clamping base assembly includes:

- Stainless steel base
- 6 receivers
- 6 sealing plugs
- 1 clamping pin fixed
- 4 clamping pins 1 axis of movement
- 2 clamping pins 2 axes of movement
- 2 locating tennons
- Optional dimensional modification according to your requirements

Technical Spec:

Number of receivers: 6Clamping force: 6x24kN

Pallet change time: <10secs

Material: stainless steel

Dimensions: 360mm x 655mm

Weight: 38.6kg

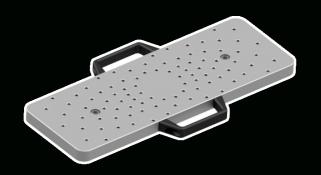
Order No: 201601.01.04

V-Tech Pallets

Double Pallet

A universal pallet for clamping fixtures and other clamping devices to the clamping base of a machine.

- Comes with handles as standard
- Made of high-strength aluminium or steel
- Possible modification to meet your specific requirements - on demand



Technical Spec:

Locator Pallet 2xAl

Material: aluminium

Dimensions: 500mm x 175mm

Weight: 6.3kg

Order No: 201601.01.20

Locator Pallet 2x Iron

Material: stainless steel

Dimensions: 500mm x 175mm

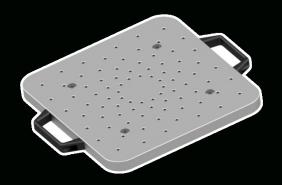
Weight: 17kg

Order No: 201601.01.21

Quad Pallet

A universal pallet for clamping fixtures and other clamping devices to the clamping base of a machine.

- Comes with handles as standard
- Made of high-strength aluminium or refined steel
- Possible modification to meet your specific requirements - on demand



Technical Spec:

Material: aluminium

Dimensions: 375mm x 360mm

Weight: 9.9kg

Order No: 201601.01.22

Material: stainless steel

Dimensions: 375mm x 360mm

Weight: 26.5kg

Order No: 201601.01.23

V-Tech Zero Point Accessories

Locating Pin – Fixed

Order No: 2016.01.07

The clamping pin is designed to accurately position pallets. The pin connects to the clamping pallet via a precise 25mm diameter and is made of top quality, stainless steel.



Locating Pin with 2 Axes of Movement

Order No: 2016.01.48

The clamping pin is made from stainless steel, an undersized diameter allows for any changes in the workpiece's dimensions due to heat expansion.



Locating Pin with 1 Axis of Movement

Order No: 2016.01.11

The clamping pin is made from stainless steel, and is underized in one direction, again allows for heat expansion whilst also ensuring the part is orientated accurately.



Plastic Sealing Plug

Order No: 2016.01.15

Prevents the ingress of swarf into the clamping receiver when not in use.



CONTACT

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