



NEW

Tooldyne

Tooldyne

The tool balancing system made by experts

Tooldyne

Reduced unbalance increases machining quality



Today, high-speed machining is the established procedure for the economic machining of metals and plastics. Due to new developments in cutting materials and spindles, the achievable cutting speeds are consistently increasing. However, this procedure does have its challenges: Early on in its development, it was recognized that the unbalance of spindles, specifically the tools, sets severe limits on high-speed machining. This unbalance has a substantial influence on the achieved

quality and precision of the surfaces to be machined. The spindle and tool longevity is also critically influenced by unbalance.

Whereas the unbalance of spindles and other drive components can be removed during manufacturing, tools must be balanced more frequently, usually prior to initial use in a machine tool.

Tooldyne

The complete package for balancing tools

The Tooldyne is a complete system for balancing tools and tool adaptors. You only require the correct tool adaptor and can then start balancing your tools directly. The machine is dimensioned for measuring at one and two levels so that it is also capable of balancing different tool geometries perfectly. The pneumatic clamping mechanism pulls the tool into the tool adaptor in operating conditions and thus ensures a reproducible tool seat.



Tooldyne





Always tidy and at hand: the tool adapter in the storage container



The exact indexing position is indicated via a laser

Everything in its proper place

During the design of our new Tooldyne, ergonomics combined with easy operation were at the top of our specifications. The result of this is a compact solution in which everything is in its proper place: starting with the easy to operate protective cover through to the ideal working height, right up to the easily accessible storage container for the tool adaptor.

The measuring unit is clearly visible and allows you simple and direct input of all data via a touch screen. The logical operating concept with clear and easily understandable displays using symbols aligned to touch screen operation as well as a comprehensive range of operating aids will quickly make the Tooldyne a popular working device.



Reproducible tool seating due to pneumatic clamping



Ergonomic operation of all elements



Convenient touch-screen operation of the Tooldyne measuring unit



Easy to operate and safe – the protective hood

Tooldyne mineral casting housing

Features that have proven highly successful on other balancing machines have also been used on our new Tooldyne. One example of this is the use of mineral casting for the machine housing. This modern material – which you may already use for the machine bed on your machining centre – damps vibrations up to 10 times more effectively than grey cast iron and is therefore perfectly suited for use on a balancing machine. The Tooldyne is therefore substantially less sensitive against interfering outside influences.

Mineral casting also permits a crane hook machine design. Simply set it up, align it and connect it to compressed air and power supplies and you can start balancing your tools – all this without foundations and without having to bolt the machine to the floor.

Your safety comes first

The Tooldyne fulfils the requirements laid down in the latest Machinery Directive 2006/42/EC, valid since the beginning of 2010, in every respect, and is CE certified. The protective cap fulfils the high standards set by the ISO 7475 Class C - Protection against ejected parts.

We have also ensured that many other components are safe in that they cannot clamp fingers and that adjustments can be carried out almost entirely without tools. The function of each component is safe and easy to understand.



Mineral casting – robust and vibration-damping

Technical data

Rotor dimensions

- Maximum rotor weight: 30 kg
- Max. tool diameter: 400 mm
- Max. tool length inc. adaptor: 600 mm
- Spindle speed: 1200 rpm
- Smallest achievable residual unbalance: 0.5 gmm/kg

Machine data

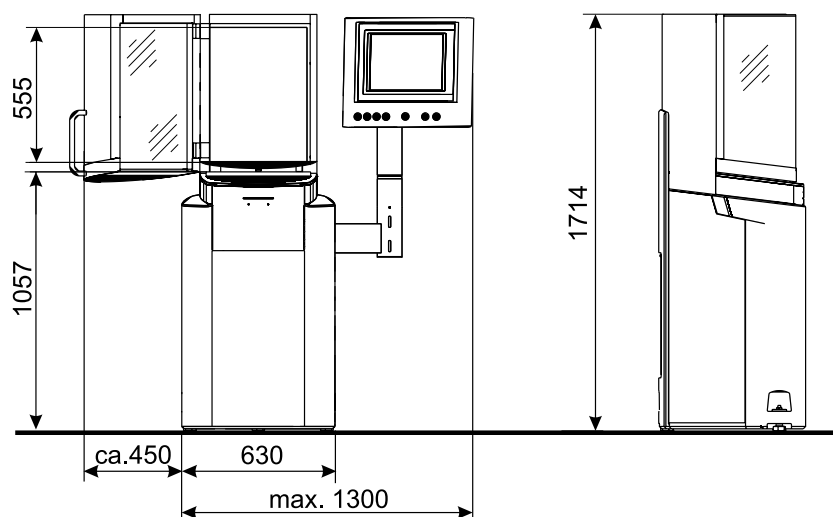
- Dimensions (see drawing)
- Total weight: 670 kg
- Mains connection: 220V \pm 10%, 50 / 60 Hz
- Compressed air: 6 bar
- Drive performance: 400 W
- Protective cover acc. ISO 7475 Class C (protection against ejected parts)
- 2-coloured painting RAL7035 (light grey), RAL 7024 (graphite grey)

Measuring unit

- with touch screen operation

Accessories

- Printer for protocol print-outs
- Typical tool adaptors e.g. for SK, HSK, BT, CAPTO



Balancing and
Diagnostic Systems

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