



Tooldyne^{µicro} – the expert for micro-machining



Whether it's medical instruments, fuel injectors for engines, components for watch making, dental implants or model parts – smaller and smaller parts must be manufactured these days with even greater precision. This is done at high speed with micromachining processes. This is based on extremely small cutting tools, exceptionally high spindle speeds and very low residual unbalances. The balancing of tools and clamping devices are an important element in the overall manufacturing process in order to permanently ensure such precision at the limits of what is technically feasible.







Tooldyne

Balancing significantly reduces or even completely avoids the influence of undesirable vibrations – the machining centre can then operate at full capacity with minimum wear. In addition, our innovative pneumatic clamping mechanism is one of the keys to high quality and short cycle times. It draws the tool into the tool adapter under operating conditions and thus ensures a reproducible tool seat. The machine spindle of the processing machine is simulated by the Tooldyne adapter in the interface. All standard adapters, such as SK or HSK, are available.

Extremely simple handling - for your safety

The ergonomics and ease of operation were top of the priority list at the stage of designing our new Tooldyne^{µiero}. The result is a compact solution with everything in its proper place: starting with the easy to operate protective cover, the ideal working height, right up to the ergonomic layout of all controls.

The measuring unit is ideally located in the line of vision 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^{µiero} a popular working device.

10 10 10 100 100



Tooldyne^{µicro} – the complete system for micro rotors





Peak performance measuring system – simple handling and maximum perfection

Set it up and away you go

The only thing that you need to get started is a suitable table to set the machine up on as well as a power and compressed air connection. This way, you immediately get the new Tooldyne^{µicro} running in Plug&Play mode without any delay – and because space is at a premium in all companies, we have designed the machine to be extremely compact. Nevertheless it is easily accessible and "tidy" – a balancing machine that achieves great things in very limited space.

Calibration runs are superfluous

The Tooldyne^{μ icro} is permanently calibrated so that you can start a measuring run as soon as you enter the geometric data of your tool. It requires no calibration runs during the entire balancing process.



Your safety comes first

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

Technical data

Rotor dimensions	– Maximum rotor weight: 0,5 kg
	– Max. tool diameter: 100 mm
	– Max. tool length incl. adapter: 110 mm
	– Spindle speed: 1200 min ⁻¹
	– Smallest achievable residual unbalance: 0,5 gmm/kg
Machine data	– Dimensions (see drawing)
	– Total weight: 135 kg
	– Mains connection: 230V ± 10 %, 50/60 Hz
	– Compressed air: 6 bar
	– Drive capacity: 100 W
	 Protective cover acc. ISO 21940-23 class C (Protection against ejected parts)
	– 2-colour finish RAL7035 (light grey), RAL 7024 (graphite grey)
Measuring unit	 with touch screen operation
Accessories	 Printer for protocol printouts
	– Typical tool adapter, e.g. for HSK E 20 / 25 / 32 and SK/BT 30



SCHENCK

Balancing and Diagnostic Systems

SCHENCK RoTec GmbH Landwehrstraße 55 64293 Darmstadt

www.schenck-rotec.com E-Mail: rotec@schenck.net Tel.: +49 (0) 6151 - 32 23 11 Fax: +49 (0) 6151 - 32 23 15

The **DURR** Group