

ULTRA-PRECISION MEETS CNC-PERFORMANCE



● UASD-H40

– *Levicron is now internationally represented by **Levicron Ltd., UK***

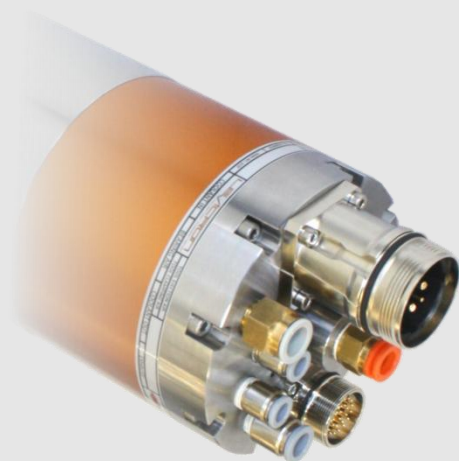
● Upcoming Trade Shows

– *Our **New Spindle Development** is to be introduced at **AMB (Stuttgart) & IMTS (Chicago) shows: High-Pressure Aerostatic Tool Spindle with HSK-E40 Tool Interface and 60.000 rpm for High-Performance Mold and Die Machining***

● Capacity Increase

– ***AMB Stuttgart, IMTS Chicago, JIMTOF Tokyo & TMTS Taichung***

– *Additional Production Machines, larger Batch Sizes, new open Vacancies*



Levicron Ltd | Levicron is now internationally represented by Levicron Ltd., UK



<http://levicron.co.uk>

Mr Jevan Smith joined Levicron in July 2016. With a strong engineering background and years of experience in international sales/customer support, Jevan now strongly supports Levicron's international business. Having worked previously together with Dr. Ralf Dupont in the spindle industry, they have now created the foundation for Levicron Ltd. in Poole, Dorset, UK.



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Levicron Ltd. offer our international customers the first point of contact for the integration of Levicron products in CNC and Ultra-Precision Machining. Existing and new customers can rely on a sound technical and commercial support direct to their local customer site.

We commit to giving customers for CNC and Ultra-Precision Machining an excellent technical consultation, sales support and after sales service through coordination at Levicron Ltd.

Services offered include:

International Technical Customer Consultation for ...

- CNC Tool Spindles
- Ultra-Precision Tool Spindles
- Ultra-Precision Work Holding Spindles
- Machine Integration
- Accessories

International Sales of ...

- Levicron Products for CNC Machining
- Levicron Products for Ultra-Precision Machining
- Required accessories
- Required Integration Service and Support.

International After Sales Service Coordination for ...

- Levicron Products for CNC Machining
- Levicron Products for Ultra-Precision Machining
- Accessories.

UASD-H40 | New Spindle Development is to be introduced at AMB / IMTS (September 2016)

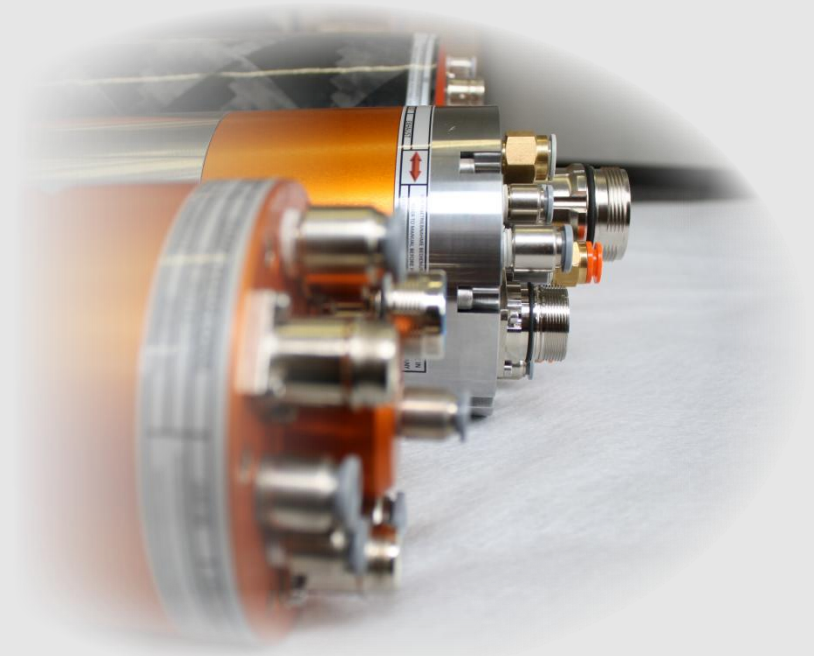
Until this present time high chip loads and superior surface finish, which is needed for the machining of injection molds, has required expensive hydrostatic tool spindles. However, due to very high shear losses in the bearing gap for hydrostatic bearings at high speeds, the requirement for small tools is not manageable. With the Hydrostatic technology 10 kW are required to create the oil pressure and overcome the shear losses even if the shaft is idling at moderate speeds. Also, the sealing technology to keep the bearing oil inside the spindle circuit makes this type of spindle expensive, vulnerable, bulky and very service intensive.

To overcome these issues of high power losses and expensive spindle sealing, Levicron have developed a new bearing technology that provides higher accuracies and speeds. Increasing the supply pressure of an aerostatic bearing in combination with a new jet design creates an almost linear increase in load capacity and spindle stiffness. With Levicron design, shear losses, even with increased spindle speed, remain the same. The result is dependant on the viscosity of the air fed into the bearing gap, this ratio is consistant even at higher pressures. The exhausting bearing air is used to prevent any fluid or dust from penetrating inside the spindle so no expensive sealing technology is required which allows a compact and cost effective spindle design.



At this year's AMB in Stuttgart, Germany, and IMTS in Chicago, USA, Levicron will introduce their brand new UASD-H40 to customers as the world's first **true full-range aerostatic tool spindle with HSK-E40** tool interface. In combination with a brand new in-house developed spring-less HSK-E40 tool clamping system and an aerostatic rotary feed-through for liquids at a pressure of up to 80 bar. This is combined with a proven high-efficient thin-film liquid spindle cooling system. Levicron's UASD-H40 provides the following performance features to the customer:

Max. Speed:	60.000 rpm
Tool Interface:	HSK-E40, spring-less
Radial Load Capacity at Spindle Nose:	> 7.000 N
Axial Load Capacity:	> 8.000 N
Radial Static Stiffness at Spindle Nose:	> 220 N/μm
Axial Stiffness:	> 200 N/μm
Shaft Power, S1/100%:	11 kVA
Power Losses, Idling at 60.000 rpm:	< 1.1 kW
Rotary Feedthrough Max. Pressure:	< 80 bar
Error in Motion:	< 40 nm



With these features the UASD-H40 becomes an aerostatic tool spindle for high chip loads and a **true full speed-range cutting spindle** – from rough machining of hardened steel to high-speed ultra-precision machining of optical components and small features. A significant benefit is created for the customer in the machining of high-precision parts and injection molds - **one single machine within one setting**.

We welcome you to visit us at the following trade shows to give you detailed information about our UASD-H40:

AMB

Stuttgart, Germany, September 13-17, Hall 5, **Booth 5D49**



IMTS

Chicago, USA, September 12-17, **Booth E4661**



International Manufacturing Technology Show

JIMTOF

Tokyo, Japan, November 17-22, East Hall 7, **Booth E7055**



Capacity Increase | Additional Production Machines, larger Batch Sizes, new open Vacancies

Along with our international expansion we have locally added production machines and recruited highly skilled staff for machine operation/spindle testing. This enables larger batch sizes of spindle components at reduced lead times for standard spindles with constant quality enabled by improved methods of testing.

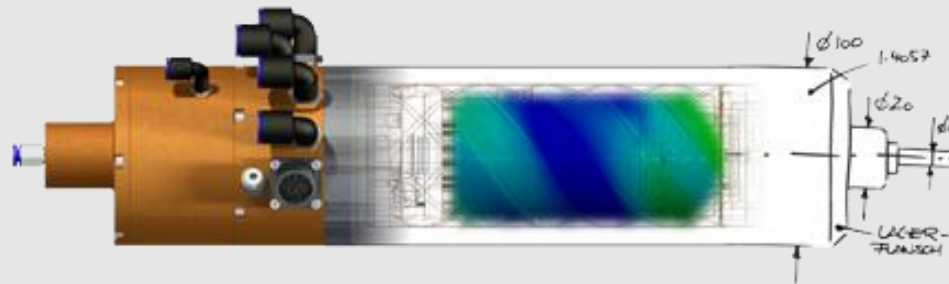


Levicron is hiring | Mechatronics and Assembling

Levicron is an international leading force in ultra-precision spindle solutions for CNC machining.

In basic terms ... *Ultra-Precision meets CNC Performance.*

During the course of our continuous global expansion we are looking for an additional self dependent member for our system assembly team who will be responsible for the assembly and testing of spindle systems, assemblies and sub-assemblies. A successful candidate shall have promotional opportunity to progress onto role of assembly manager.



REQUIREMENTS:

- HNC, HND or degree in Precision Engineering, Mechatronics, Electronic Engineering,
- Proven experience in Assembling and testing mechatronical systems,
- Sound experience in using measurement and inspection equipment,
- Sound knowledge in digital data aquisition methods and documentation,
- self-dependent and creative.

Permanent employment, full time, single shift

Read more on http://levicron.com/stellen_16-06_montage?lang=en

Levicron is hiring | CNC-Grinding machine setter and operator

Levicron is an international leading force in ultra-precision spindle solutions for CNC machining

In basic terms ... *Ultra-Precision meets CNC Performance.*

We are expanding our machining capacity and are looking for a new motivated and reliable team member for setting, programming and operating CNC cylindrical grinding machines.

Being one of the last steps in production, internal bore grinding on our ultra-precision CNC machine tools and finish external grinding are very delicate machining operations and require skilled personnel that can meet with the following requirements.



REQUIREMENTS:

- HNC/HND in CNC-Machining, Precision Mechanics or equivalent,
- Sound experience in setting and operating CNC cylindrical grinders, ideally in the area of shaft production,
- Sound knowledge in programming Fanuc control based machines,
- Sound knowledge and experience in programming G-Code based machine controls (Delta Tau, UPx),
- Sound knowledge and experience in manual machining and tooling for CNC-machining,
- Self-dependent and creative work methods

Permanent Employment, full time, single shift

Read more on http://levicron.com/stellen_16-04_schleiftechniker?lang=en

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