

- **ASD-H25 (A) / Cx** – Ready-to-use & retro-fit kits for ultra-precision and CNC machining centers
- **ASD-H25 (A) / Cx** – Guaranteed short lead time and turn-around
- **ASD-Px** – New opportunities at Optatec and EPHJ trade show



ASD-H25(A) / Cx – Ready-to-use & retro-fit kits for ultra-precision and CNC machining centers

It was clear from the beginning that for a successful use of our innovative tooling and work-holding spindles **ASD-H25/A**, **ASD-Cx** and **ASD-Px** with existing machining centers not only the spindle would be of importance. Solutions for high-precision cooling, new approaches in drive technology as well as spindle control, closed loop safety features and an individual spindle mounting with height adjustment needed to be engineered and offered to our customers.

Thus Levicron has invested and engineered machining kits for popular ultra-precision and CNC machining centers and is delighted to offer sound and individual machining solutions to our customers with the following features.

UP machining center kit



Spindle: *Tooling spindles ASD-H25(/A), ASD-Cx
Work-holding spindle ASD-Px*

Spindle mount: *Made from steel or Invar, for T-slot tables, individual center height and bore pattern*

Height fine adjustment: *(optional)*

Drive: *Fully configured and matching your motor choice (iron-less or high-torque option), your mains (1x220V, 3x210V, 3x400V) and machine control in and outputs*

Motor choke, brake resistor:

Pressure switches: *For bearing air and coolant supply*

Precision chiller: *+/- 0.1 °C coolant inlet temperature stability*

Wiring and tubing: *Complete and tested*

Mechanical commissioning: *Including mechanical spindle installation, pipeworks and testing*

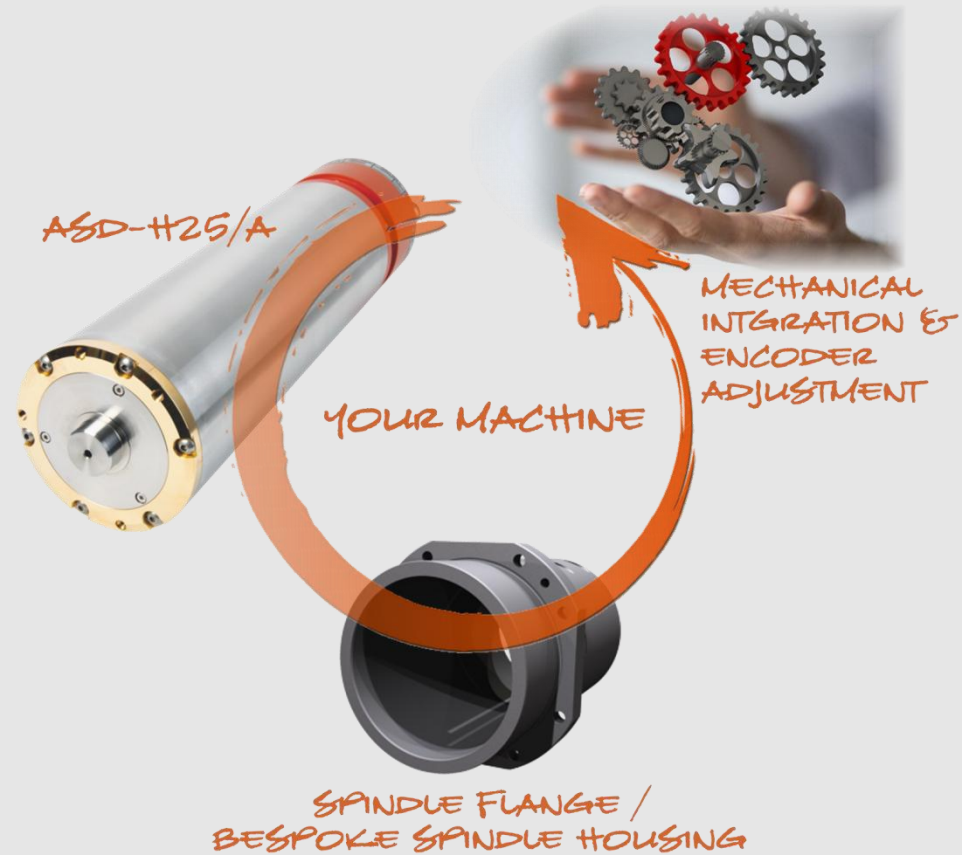
Electrical and machine control commissioning: *Including machine control integration, power supply, safety features and testing*

All components of the Ultra-precision machining kit are picked individually and engineered to match your requirements. This not only considers the spindle model, but also the motor, the machine power supply, the machine center height and machine control.

A semi-automated tool change can be set up and together with the tool clamp status monitoring of the spindle itself and pressure switches a safe and automated operation can be guaranteed.

Beside a comprehensive integration of the spindle into the machine and its control a stand-alone spindle kit can be offered which can be used on several machines using a PC or a handheld device for control.

CNC machining center kit



Spindle: Tooling spindle *ASD-H25(/A)*,

Spindle flange: Made from steel, clamping or shrink-fit design; Bespoke spindle housing design for higher quantities

Motor choke:

Wiring and Tubing: Complete and tested

- Commissioning:**
- Mechanical
 - Pipeworks
 - Wiring
 - Rotary encoder and zero flag adjustment to your machine control

Spindle drives for CNC machining centers predominantly are made by the machine control maker for safety reasons and because of its deep integration into the machine control itself. Thus motor and encoder characteristics need to be adjusted and programmed and tested individually. Due to complex and often closed headstock designs a custom spindle flange always is required. Due to high demand we have engineered different spindle integration kits with bespoke flange designs and encoder adjustments for all major machine control brands to ensure a secure and quick integration of our spindles in your machine. For higher quantities we also offer custom spindle housing designs. Please use our sound experience and save time and money setting up our spindles.

ASD-H25(A) / Cx – Guaranteed very short lead time and turn-around



The creation of machine tools often are squeezed in tight schedules what makes it necessary to have machine parts like tooling and work-holding spindles available quickly. A machine breakdown – for what reason ever – always requires a very quick turn-around to meet with existing deadlines and to save time and money. Our customer relation management and the modular design of our products allow us to guarantee a

Lead-time for all standard models of our ASD-H25, ASD-H25A, ASD-Cx of: not more than **4 weeks after PO**,

Turn-around for all standard models of our ASD-H25, ASD-H25A, ASD-Cx of: not more than **5 working days** after the spindle and the order has been received.

ASD-Px – New opportunities at Optatec and EPHJ trade show

After the manufacture of the first batch of our aerostatic ultra-precision work-holding spindle **ASD-Px** had been finished we got the opportunity to display it at the Optatec trade show in Frankfurt as well as at the EPHJ in Geneva. Accuracy, stiffness, load capacity and motor torque as well as the patented cartridge design for closed headstocks could not only open the door to applications for ultra-precision machining, but also for automotive and measurement machines.

