UP-Line Universal Premium

Flexible - Precise - Autonomous





UP-Line HAUX Universal Premium

A wide range of modular configurations allows us to provide you with a highly flexible machine that at the same time is set up to do best what you produce the most.



HAUX Universal grinding machines offer outstanding performance and speed with high flexibility.



UP-Line

High Precision Universal grinding machines. Autonomous production optional.



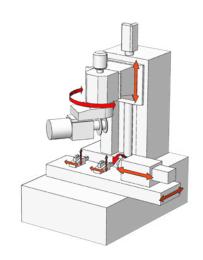
Spindle power: 22 kW Speed: 12.000 rpm Dimensions: 4.00 x 3.00 x 2.50 m

Kinematic

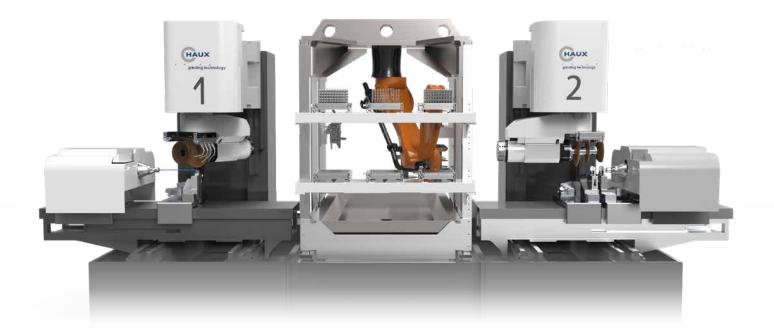
5 Axis + Workpiece support

(* second workpiec support axis possible)

Travel	Resolution
713 mm	< 0.001 mm
289 mm	< 0.001 mm
289 mm	< 0.00 mm
-122° to 122°	< 0.005°
360°	< 0.005°
	713 mm 289 mm 289 mm -122° to 122°

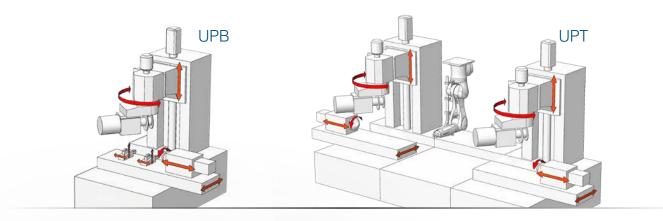






Machine Configurations

Your configuation for your application



The UP-Line combines high end components in a powerful universal grinding machine that can be highly automated. With two grinding stations sharing one automation cell inside a combined machine the UPT is the top model of the line.



Modules

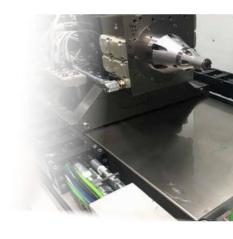
The UP-Line uses high precision components to meet highest standards

Workpiece carrier

Hydrostatic precision

The hydrostatic workpiece carrier with 1100 rpm and 1.1 kW uses a high precision clamping system that allows automated collet changes.

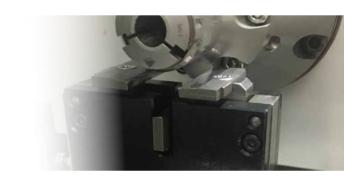




Arobotec

High precision workpiece support

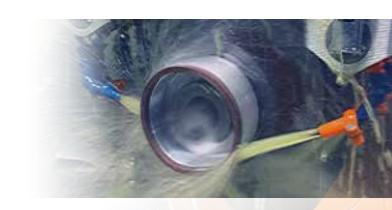
Perfect centric clamping system by Arobotec allows high precision and accuracy and offers fast and flexible setup.



Grinding spindle

High speed - High precision

The high end german made motor spindle allows automatic grinding wheel changes and high precision grinding.





Layout

Parallel operation of both grinding stations leads to superior cycle times and high production output. Station 2 Norkpiece S. ca. 5100 mm Automotion cell with Station ca. 2500 mm HAUX

Software

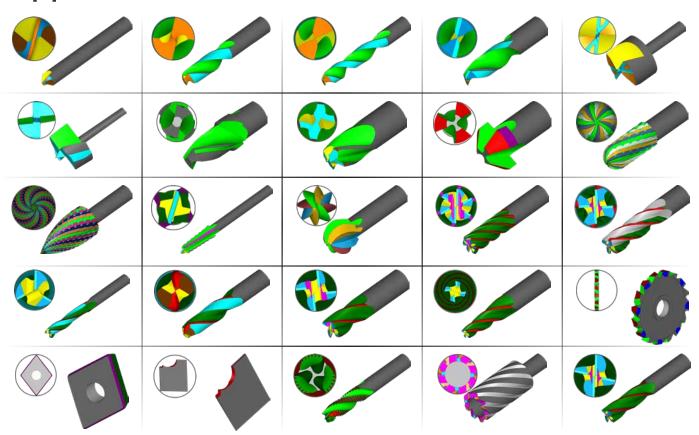
Modular - Expandable - Integrated

Our modular software runs on single machines as well as multi station machines or machines integrated in manufacturing cells. It allows integration into your company's network. Part, order, tooling or measurement data is easily exchanged. Autonomous operation of our machines is optional.

HAUX uses its own software on NC- and PLC-level and cooperates mith MTS Switzerland for special use cases. HAUX own profiling software offers great value and specialized optimization for intended applications.

Remote acces is offered by default and a new RED-box offers secure high volume data exchange and machine monitoring.

Applications



HAUX HMI

Individual UI - Preview / Simulation



HAUX HMI with parametric tool definition includes live preview of each parameter's effect and on screen explanations.

Current process values are displayed during operation.





HAUX Automation

Elevate performance to the next level

HAUX



HAUX offers the right automation solution for every situation.

The partnership with KIENER Maschinenbau GmbH brought together decades of know-how and experience in automtation, engineering and tool grinding,

Automation Options

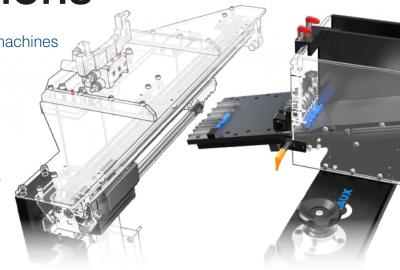
Examples of automation solutions used in HAUX machines

Mechanical Solutions

High quality engineering

HAUX Maschinenbau offers decades of know-how and innovations of the pioneers of high speed grinding.

High speed workpiece loading and unloading using magazines and incexing mechanisms offers top speeds in many use cases.

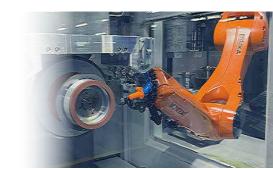


Robotics

Flexible and universal

Industrial robots offer a great balance of cost and flexibility and can even be used to automate grinding wheel changes.

Lots of custom grippers, storage, indexing- and orienting solutions let us customize the scope of the robotic automation of your machine when needed.



Portal & Production Line Integration

For seamless production

Portals can offer better speeds versus robots for applicable use cases and still remain a lot of the same flexibility.

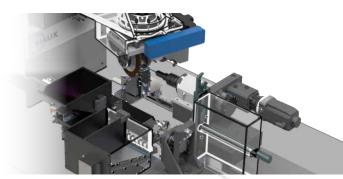


Special Solutions

For high speed and special customer needs

HAUX has a lot of experience in special applications and individual engineering projects.

For special use cases we work closely with our customer to develop the optimal machine for the specific use case.











HAUX MOVING INNOVATION

For more information visit haux-grinding.com or contact us for an individual consultation.

UE Line

Universal Eco - Modular Universal grinding

The UE-Line is our allround talent - flexible and expandable. The 5-Axis grinding kinematic of the base model offers you full flexibility and the extra strong structure of all components allows high speed and feed rates. Many different configurations are possible to specialize for specific production requirements using HAUX Modules.



UP Line

Universal Premium - High End Universal grinding

The HAUX UP-Line offers full autonomy and ultra high precision. Its high precision servo axis lead to a perfect surface finish and the high end base body eliminates vibrations. The top model the UPT combines two statios with an automation cell inbetween. Collet changes, tool changes and even grinding wheel packet changes can be done fully automatic.



MM Line

High Performance Multi Station

The MM-Line combines two main grinding stations on one base body and offers excellent cycle times using a high end tool changing system that can move the tool between stations and load as well as unload in one single fast movement.



Special

High Performance Multi Station

HAUX has a lot of experience in special applications and individual engineering projects.

For special use cases we work closely with our customer to develop the optimal machine for the specific use case.





HAUX Maschinenbau offers decades of know-how and innovations of the pioneers of high speed grinding.

Contact

HAUX Maschinenbau GmbH

Ebinger Str. 50 72510 Stetten a.k.M

Baden-Württemberg

GERMANY

Phone: +49 7573 95455-0 +49 7573 95455-30

Internet: haux-grinding.com E-mail: info@hauxgmbh.de

International

HAUX CHINA Office 215000 Suzhou P.R. CHINA

Phone: +86 512 6588 2126

E-Mail: tilo.staude@kiener-suzhou.com

Contact: Mr. Tilo Staude

HAUX FRANCE Office Phone: +49 7435 8251

E-Mail: m.maisch@hauxgmbh.de

Contact: Mrs. Maisch

HAUX INDIA Office 411041 Pune INDIA

Phone: +91 83081 06677

E-Mail: m.deshpande@hauxgmbh.de

Contact: Mr. Deshpande

HAUX JAPAN Office Phone: +49 6930 0646 20

E-Mail: m.westermann@hauxgmbh.de

Contact: Mr. Westermann

HAUX RUSSIA / BELARUS / KAZAKHSTAN Office ATE Tools GmbH

Phone: +49 7433 908949 20 E-Mail: a.teichert@hauxgmbh.de

Contact: Mr. Teichert

