

UE-Line Universal Eco

Flexible - Fast - Modular



HAUX

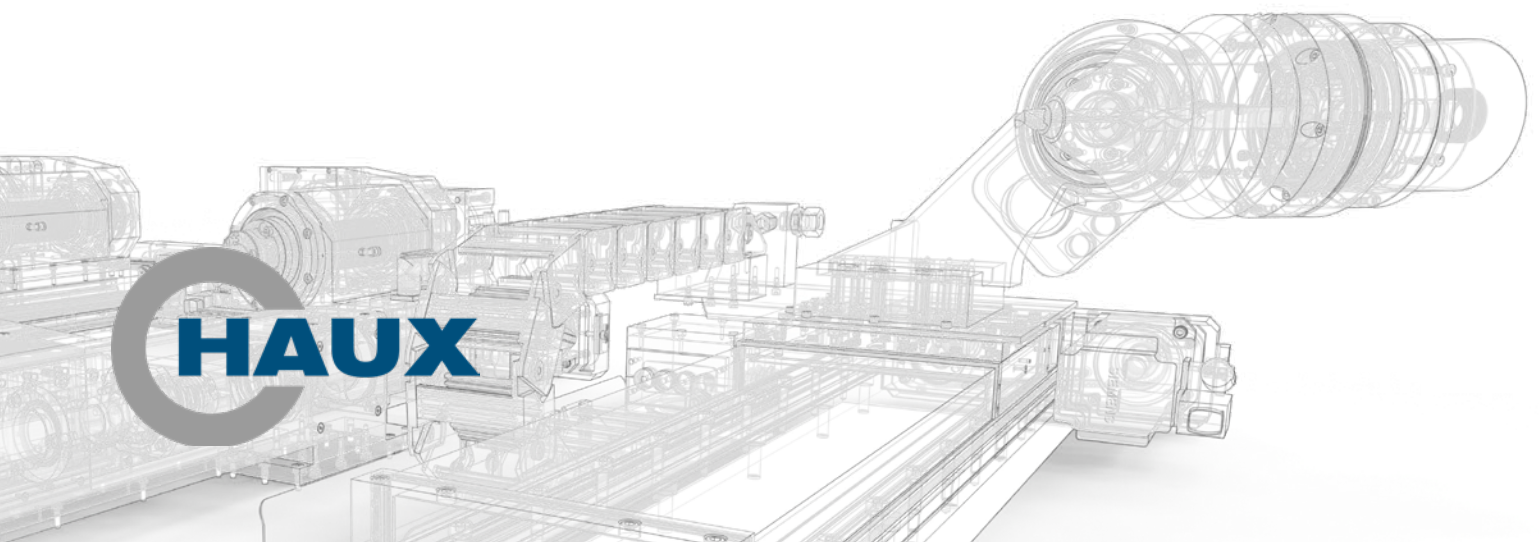


UE-Line HAUX Universal

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.



UE-Line

As the base model of the Universal Line the UE is already an excellent allround talent. The 5-Axis grinding kinematic offers you full flexibility and the extra strong structure of all components allows high speed and feed rates.

Universal Eco

Universal tool grinding

Specifications

(*varies depending on configuration and can be extended for special use case)

Workpiece length (auto.): 34 mm - 220 mm

Workpiece length (man.): 300 mm

Workpiece diameter (auto.): 3 mm - 52 mm

Workpiece diameter (man.): 52 mm - 130 mm

Grinding wheel diameter: 200 mm

Dressing wheel diameter: 150 mm
(no dresser in CBN-Model)

Spindle power S1: 15.7 kW

Spindle power S6 40%: 20.0 kW

Kinematic

5 Axis

(*stationary dresser in base model; no dresser in CBN-Model)

	Travel	Resolution
X - Axis:	250 mm	< 0.002 mm
Y - Axis:	309 mm	< 0.002 mm
Z - Axis:	215 mm	< 0.002 mm
C - Axis:	-91° to 65°	< 0.005°
A - Axis:	360°	< 0.005°



Modular expansion

Customization using existing solutions

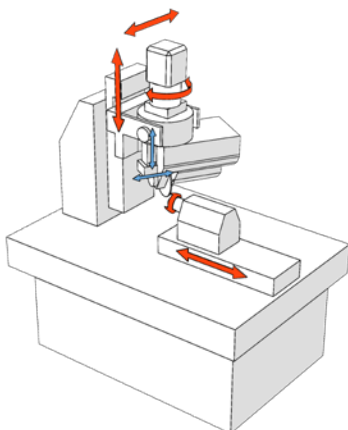
Depending on your application various modules can be used to specialize or upgrade your machine configuration.

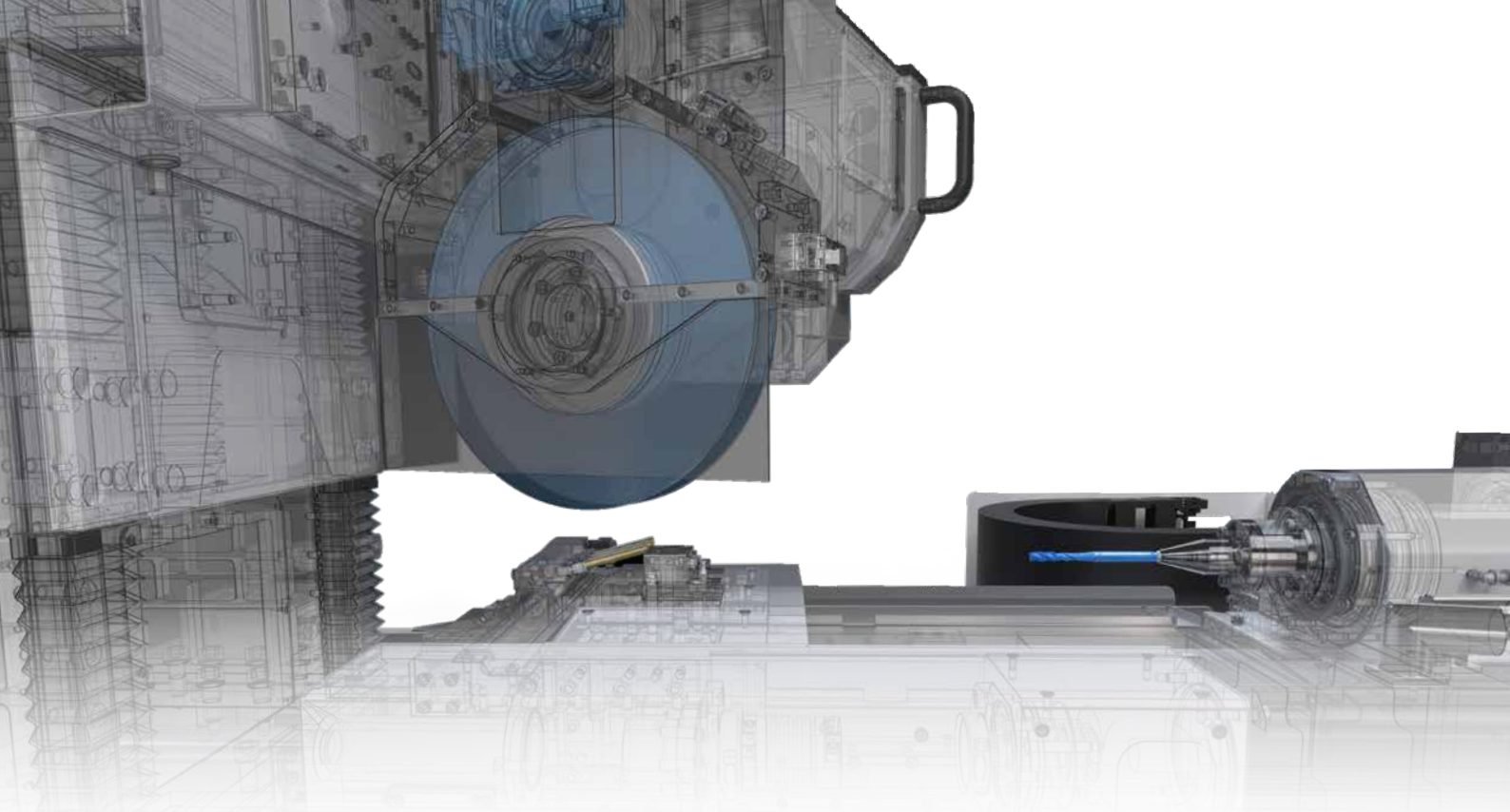
Workpiece carrier and support systems specialized in



point-/split point grinding, chamfer grinding or universal grinding are available.

Aside from electronic probing systems HAUX offers a wide range of mechanical indexing solutions for different applications.





HAUX Modules

Elevate performance to the next level



HAUX Modules expand the scope of our machines and give you the choice in what kind of machine you will get.



Examples

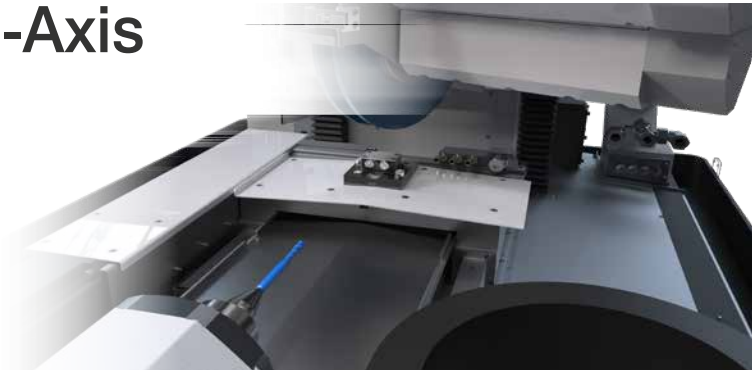
Decades of development and special engineering projects have created a huge portfolio of various standardized as well as specialized variations of every assembly built in a tool grinding machine.

Workpiece support on X1-Axis

Universal tool grinding

Many different workpiece support systems from universal to highly specialized are available for the UE-Line.

For more flexibility the workpiece support in the UE-Line can be upgraded to the CNC version.



ID grinding

Customization using existing solutions

The HAUX ID-Grinding Module lets you expand what your machine can do and save cost.

The precise motor spindle can be mounted to the main spindle without need for additional CNC axis.



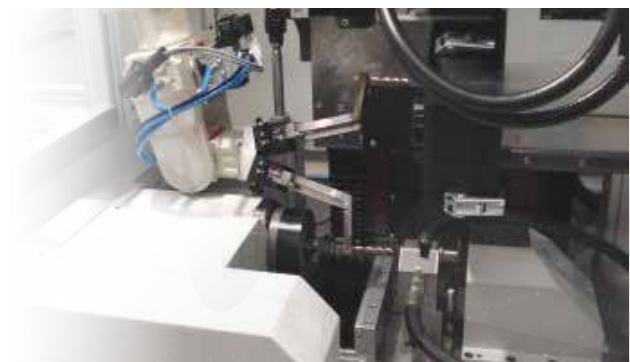
Centers

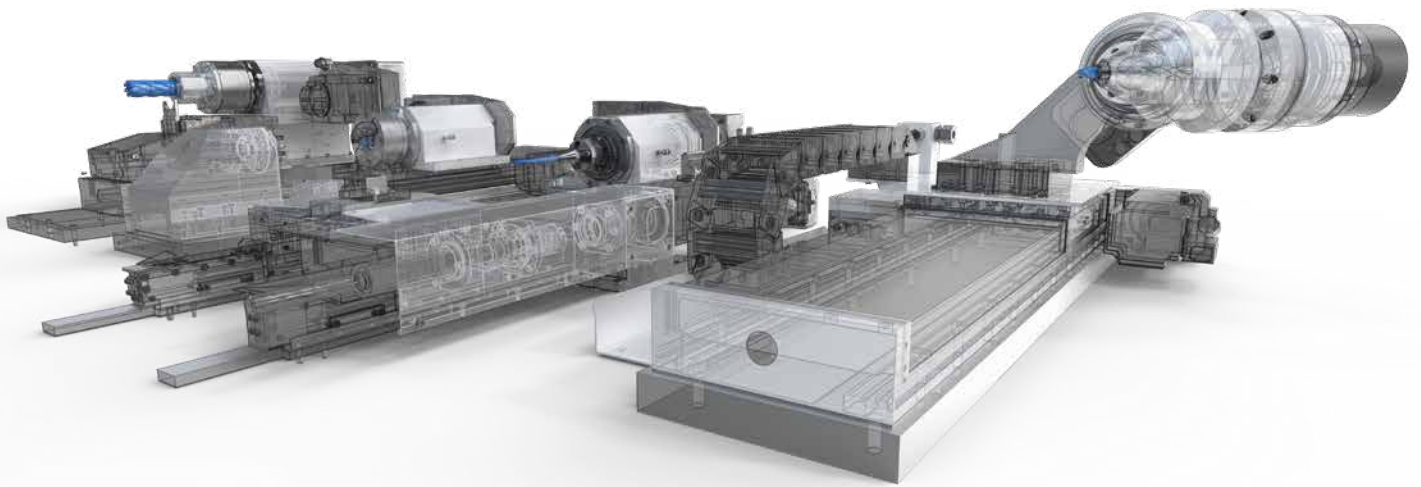
For precise OD-Grinding

The centers available for the UE-Line are best suited for fast chamfer grinding of taps or other OD-Grinding operations.



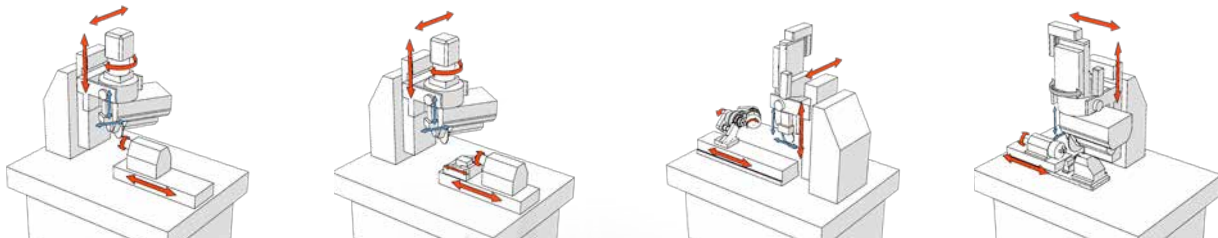
HAUX Universal grinding machines offer outstanding performance.





Machine Configurations

Your configuration for your application



The UE-Line includes preconfigured machines that specialize in chamfer grinding of taps (UEC), Point grinding for spiral taps (UEP). These machines offer proven modular combinations that lead to excellent results in their specialization.

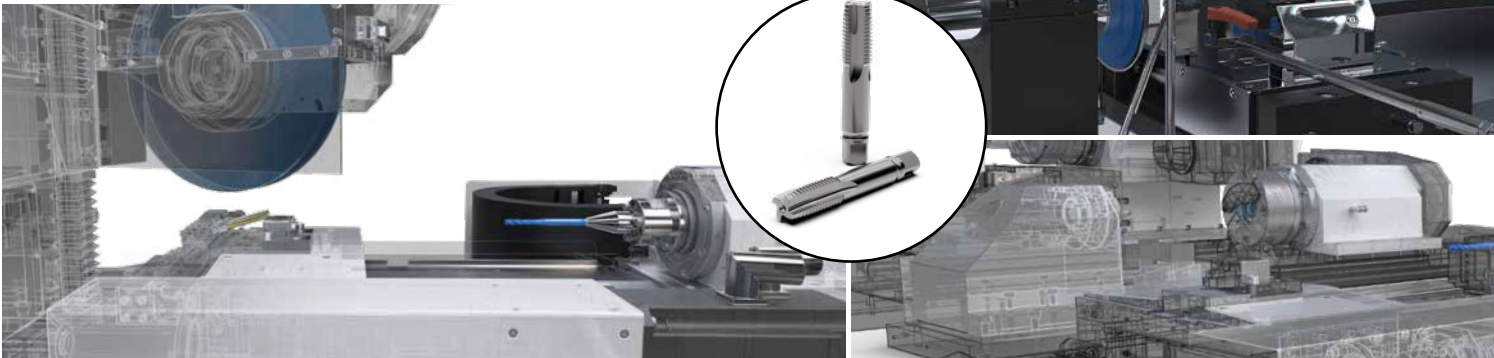


More Modules

The right Module for every application

Dresser & Workpiece support

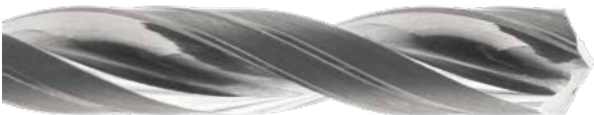
For high quality surface finishes



Probes

High precision

Precision probes by Renishaw can be equipped.

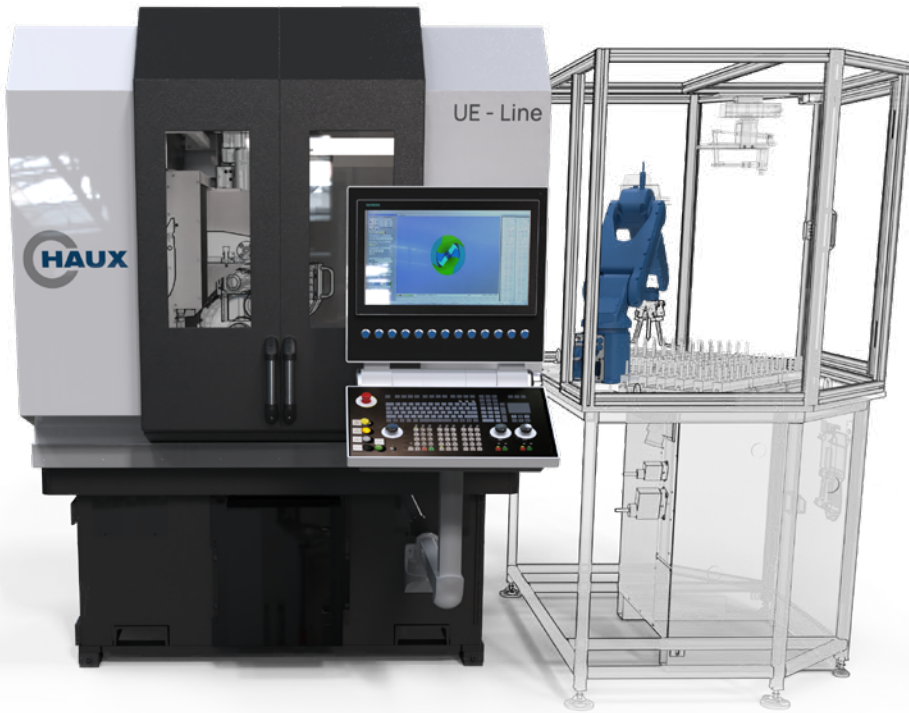


3 - 20 mm

Wide diameter range without collet change

A GDS Shark clamping system can be equipped to allow variable clamping without having to switch collets.

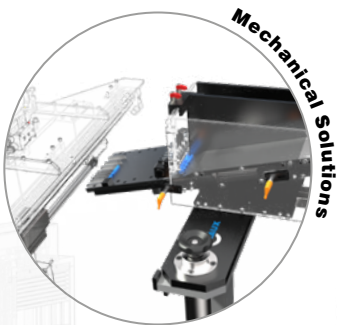




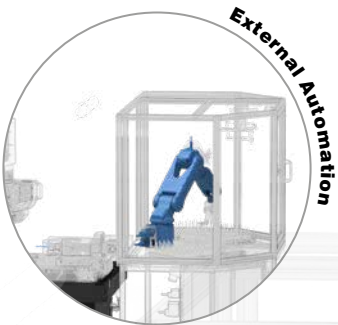
HAUX

Automation

Elevate performance to the next level



Mechanical Solutions



External Automation



Integrated Automation



Special Solutions



Automated wheel change



Portal loader

HAUX offers the right automation solution for every situation.

The partnership with KIENER Maschinenbau GmbH brought together decades of know-how and experien-



More Options

Beside the UE-Line our portfolio includes more universal grinding machines for highest production quality and large lot sizes

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 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

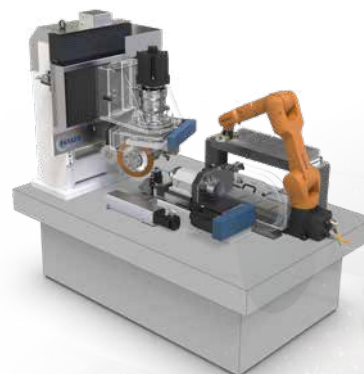
The MM-Line combines two main grinding stations on one base body and offers excellent cycle times using a high end tool changing system that can move the tool between stations and load as well as unload in one single fast movement.



Special

High Performance Multi Station

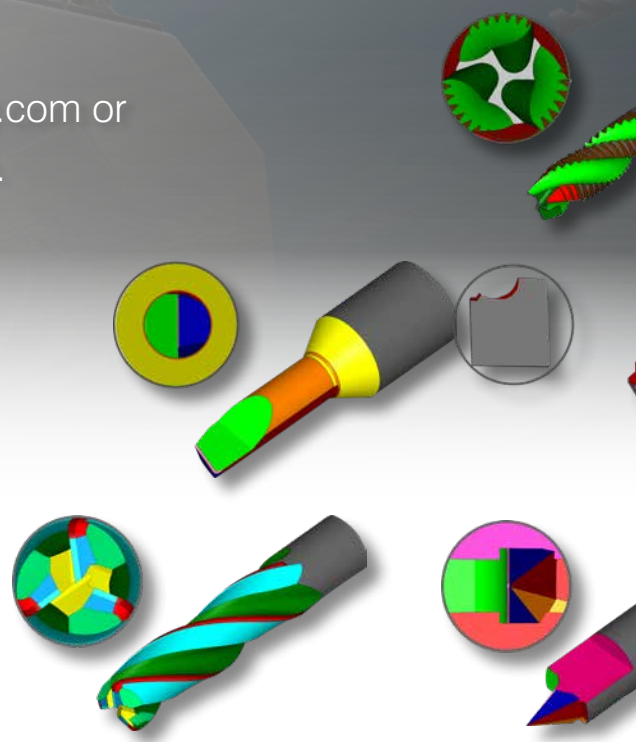
HAUX has a lot of experience in special applications and individual engineering projects. For special use cases we work closely with our customer to develop the optimal machine for the specific use case.

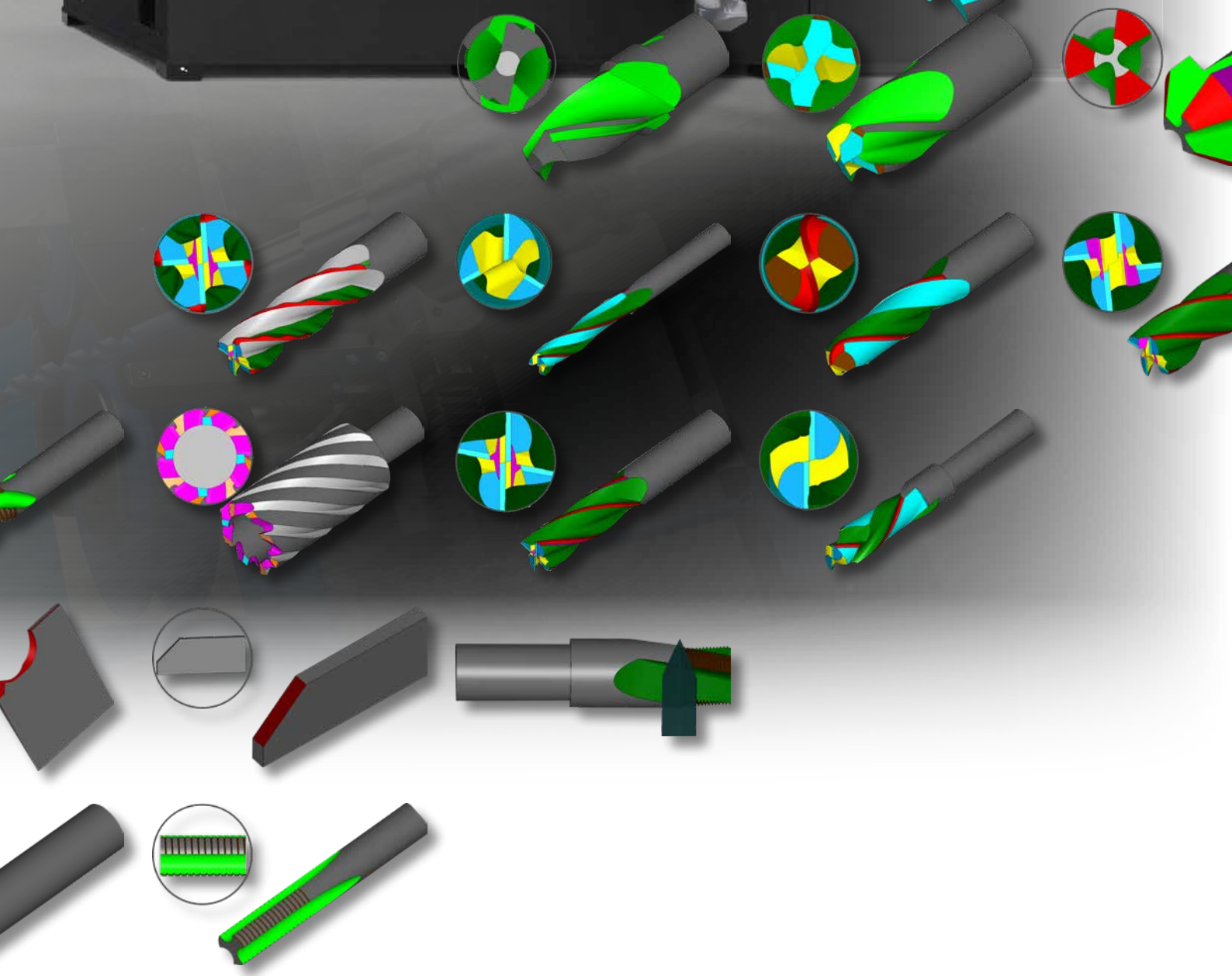




HAUX MOVING INNOVATIONS

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







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

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haux-grinding.com