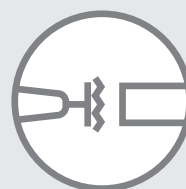




Product catalogue



GOOD REASONS FOR ...



CHAMFERING · CENTER · FACE MILLING · THREAD DRILLING



- + More than **40 years of experience** in machine tools
- + End finishing machines and centres
- + **Unique selling point: vertical bed**
- + Strong for **special solutions with a high degree of automation**
- + **Modular structure**
- + Parts handling either using **portal or robot**
- + **Service and remote maintenance**
- + **Synergy effects** (assembly, construction, software, start-up) through integration into the Pütz Group



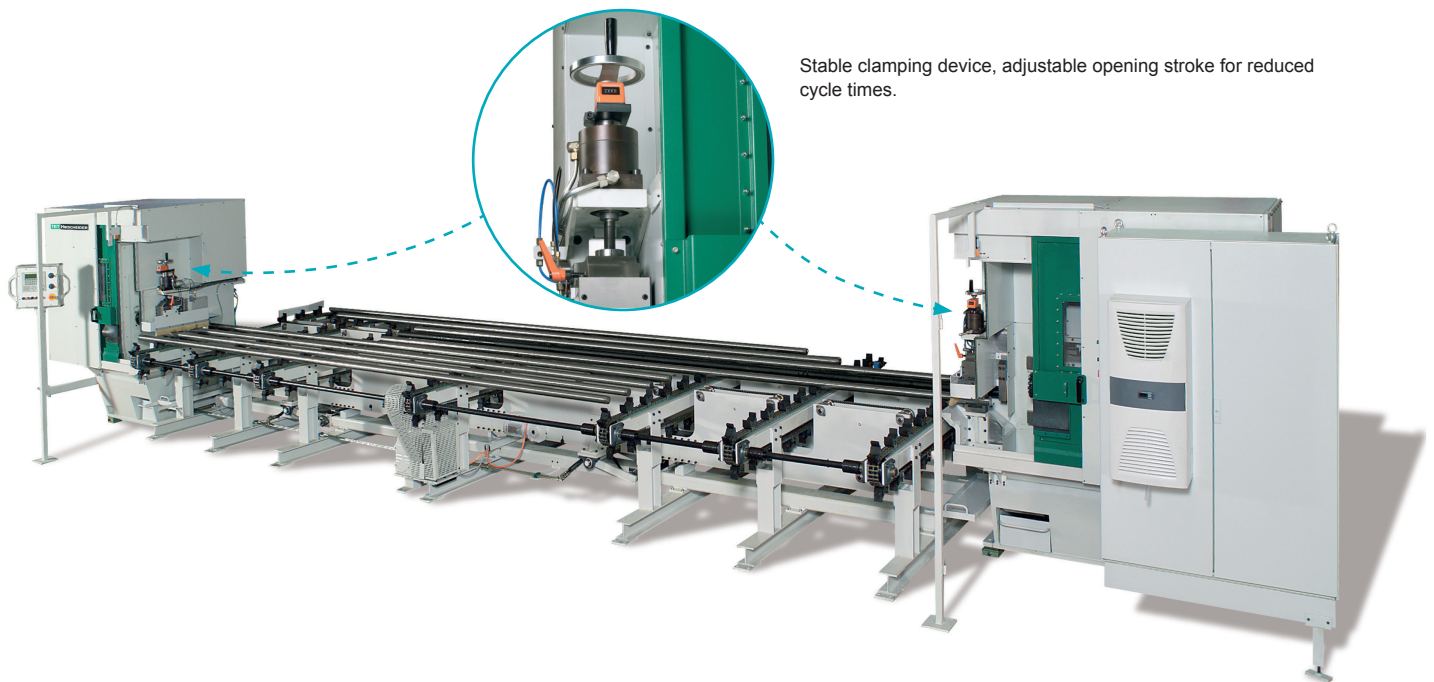
- + Established in 1988, approximately 90 employees
- + Many years of industrial experience
- + Central capital base / local flexibility with the greatest degree of freedom and responsibility

HIRSCHEIDER GmbH
Ferdinand-Porsche-Str. 5
73479 Ellwangen
GERMANY

info@hirscheider.com
Phone +49 7961 56499-0
Fax +49 7961 56499-340
www.hirscheider.com

ENDURO V 400

Endfinishing machine for facemilling and chamfering
of both ends of rods



Stable clamping device, adjustable opening stroke for reduced cycle times.

With our Enduro V 400 you save precious time!

Processing operations, such as milling, drilling, centring and thread cutting are carried out on both ends, in one work cycle, and without manual intervention. Custom requests are possible at any time.

Technical details:

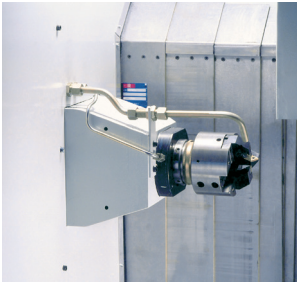
Workpiece diameter ranges	15 – 8 mm
	20 – 120 mm
Workpiece length ranges	2 000 – 6 000 mm
	2 000 – 8 000 mm
	2 000 – 12 000 mm

Possible operations:

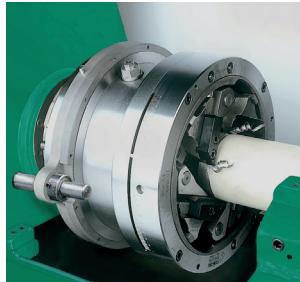
- Squaring
- Turning round ends
- OD-turning
- Thread rolls
- Bevelling
- Centring
- Thread cutting
- Face milling

ENDURO V 400

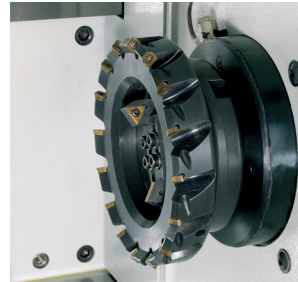
Details:



For squaring and bevelling:
Longitudinal slide unit with a combination tool head



For use with thread cutting or rolling heads:
Longitudinal slide unit

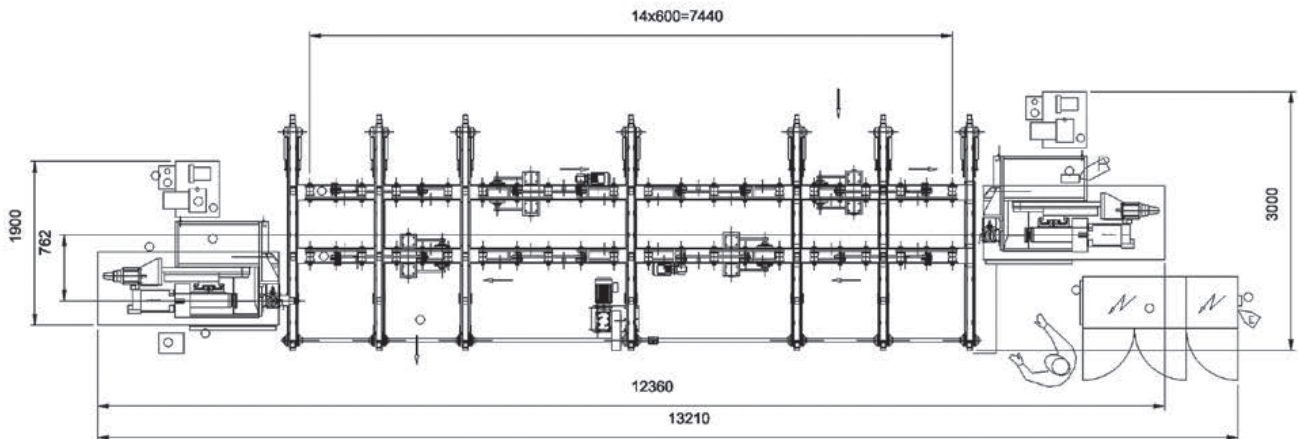


For face milling and chamfering:
Cross slide unit



Step chain belt with a longitudinal roller conveyor and left-aligned workpiece limit stop for processing the first side, and a right-aligned workpiece limit stop for processing the second side

Required space:

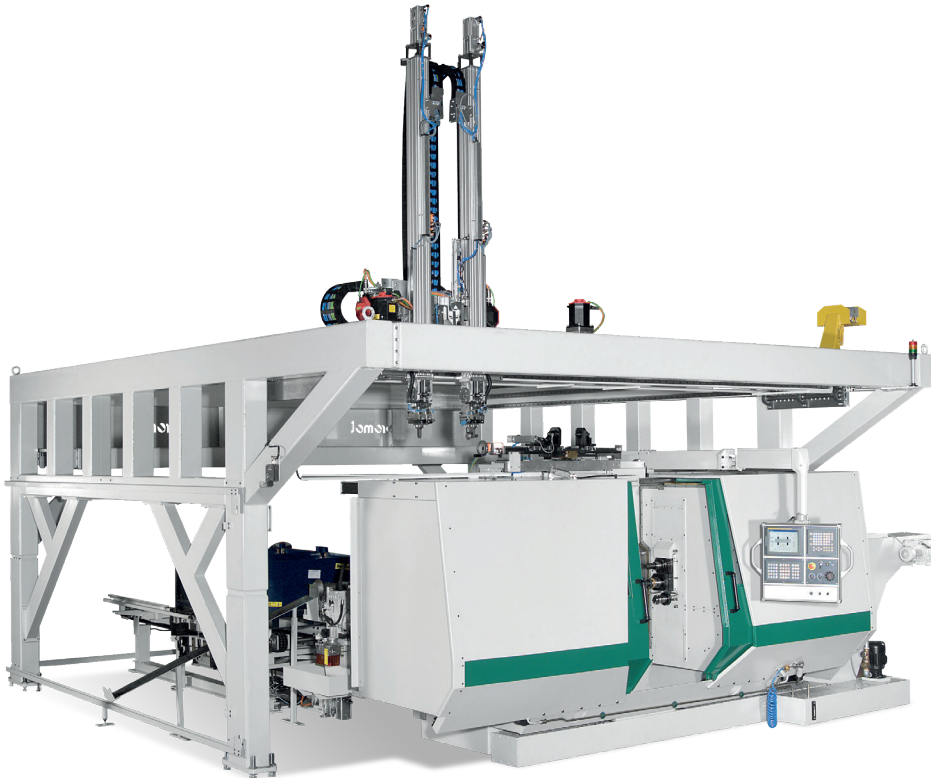


HIRSCHEIDER GmbH
Ferdinand-Porsche-Str. 5
73479 Ellwangen
GERMANY

info@hirscheider.com
Phone +49 7961 56499-0
Fax +49 7961 56499-340
www.hirscheider.com

ENDURO V 500

Endfinishing machines and end machining centers,
as vertical bed solution, for machining of workpieces
from 10 – 150 mm diameter



The **Enduro V 500 series** are designed with excellent features. The most important is the use of a „Modular Structure“ design. These economical machines can be used for many applications. From „one-of“ parts to complete complex machining of workpieces.

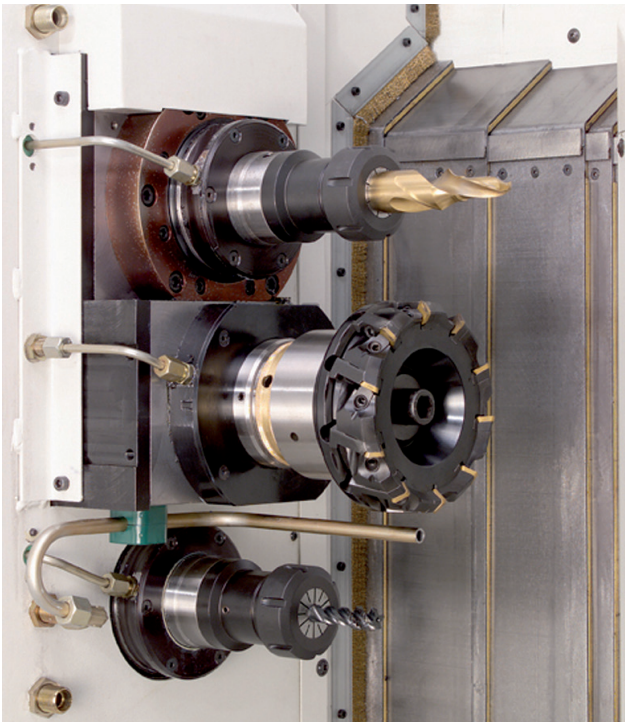
All Enduro machines are based on a completely new machine concept, consisting of two vertically superimposed guideways with working spindles and clamping devices mounted in the working area. This unique design permits, especially for dry machining, a trouble-free chip flow directly into the chip disposal area below.

Technical details:

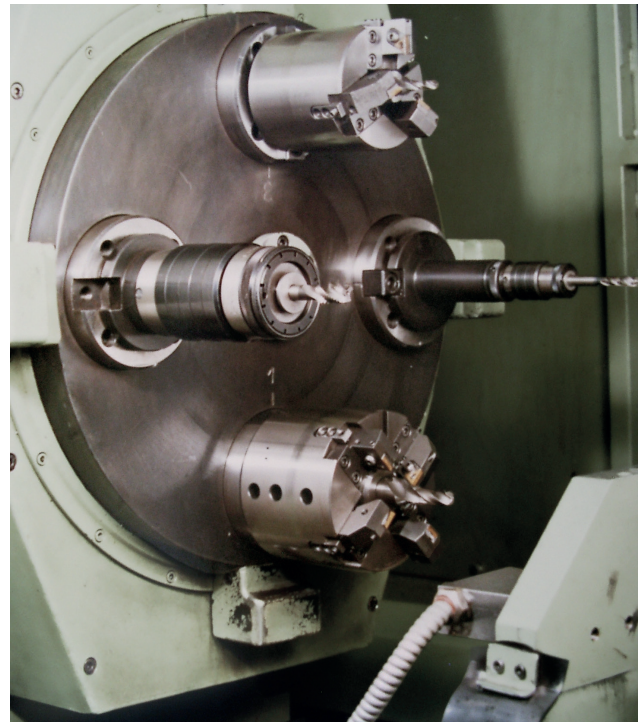
Workpiece diameter	10 – 150 mm
Workpiece length	80 - 500 / 800 / 1 200 / 1 600 / 2 000 / 2 600 / 3 200 / 4 000 / 6 000 / 12 000 mm
Total power consumption	approx. 30 kW
Machine weight	approx. 11 000 – 18 000 kg
Spindle drive	11 kW
Tool adapter	HSK 63
Rapid feed rate of feed units	25 m/min.

ENDURO V 500

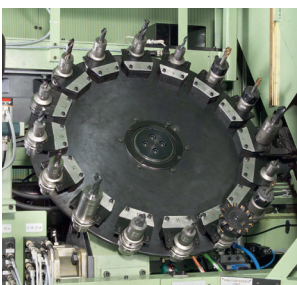
Details:



Machining units
with 1, 2 or 3 spindles



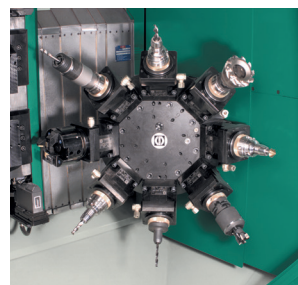
Rigid machining unit
with 4-fold disc magazine



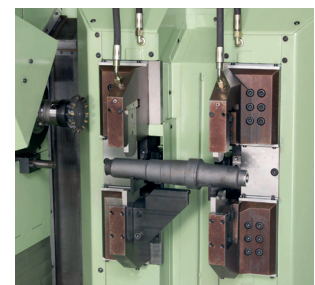
Tool magazines,
executed as 8- or 16-fold disc
magazines



Automatic tool changer
with double gripper



Machining units
with 4-, 6-, 8-fold turrets for
shortest chip to chip time



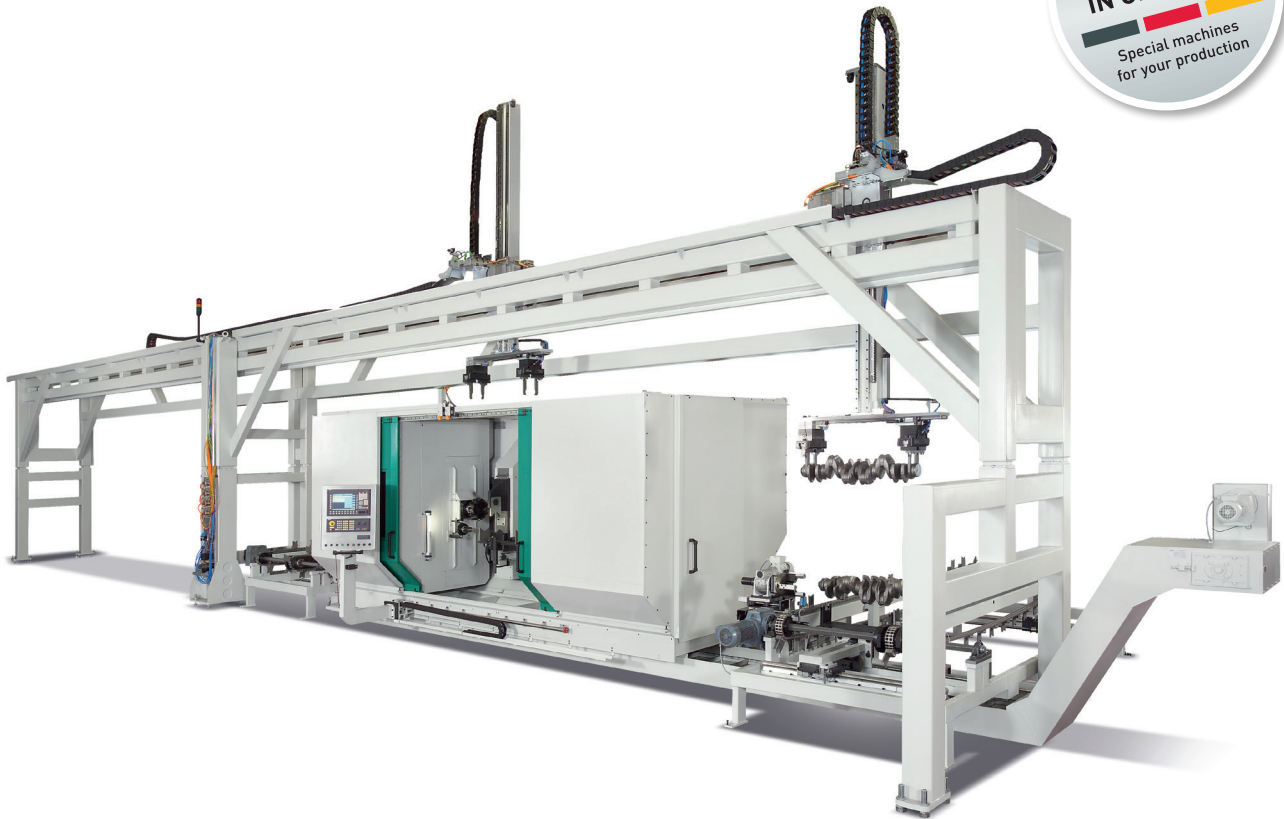
**Central working clamping
devices,** for 3-point or 4-point
clamping

HIRSCHEIDER GmbH
Ferdinand-Porsche-Str. 5
73479 Ellwangen
GERMANY

info@hirscheider.com
Phone +49 7961 56499-0
Fax +49 7961 56499-340
www.hirscheider.com

ENDURO V 800

Endfinishing machines and end machining centers,
as vertical bed solution, for machining of workpieces
from 20 – 400 mm diameter



The **Enduro V 800 series** are designed with excellent features. The most important is the use of a „Modular Structure“ design.

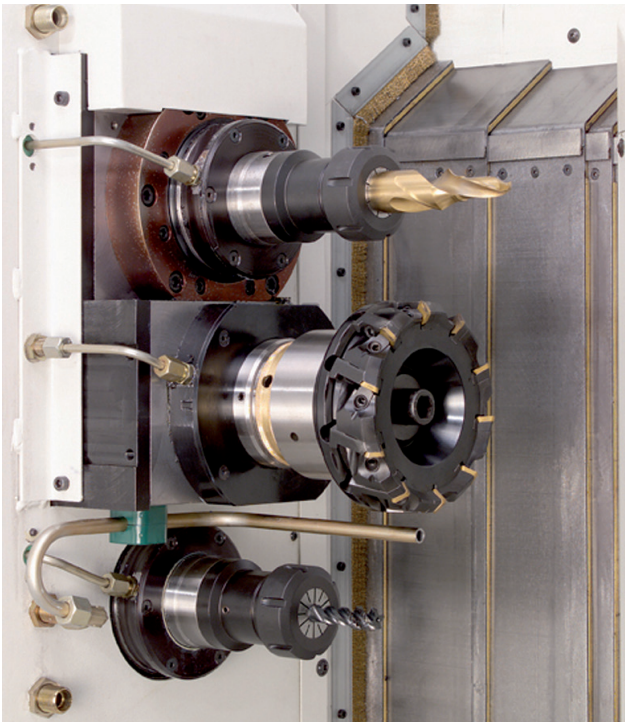
All Enduro machines are based on a completely new machine concept, consisting of two vertically superimposed guideways with working spindles and clamping devices mounted in the working area. This unique design permits, especially for dry machining, a trouble-free chip flow directly into the chip disposal area below.

Technical details:

Workpiece diameter	20 – 400 mm
Workpiece length	140 – 1 200 / 1 600 / 2 000 / 2 600 / 3 200 / 4 000 / 6 000 / 12 000 mm
Total power consumption	approx. 70 kW
Machine weight	approx. 25 000 – 75 000 kg
Spindle drive	25 kW
Tool adapter	HSK 100
Rapid feed rate of feed units	25 m/min.

ENDURO V 800

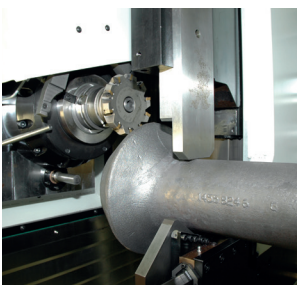
Details:



Machining unit
with two spindles



CNC controlled facing head
with integrated electrical balancing system



Central working clamping devices,
for 3-point or 4-point clamping



Automatic tool changer
with double gripper



Additional magazines
up to 80 tools



Tool magazines,
executed as 8-, 16-, 24-
or 32-fold chain magazine

HIRSCHEIDER GmbH
Ferdinand-Porsche-Str. 5
73479 Ellwangen
GERMANY

info@hirscheider.com
Phone +49 7961 56499-0
Fax +49 7961 56499-340
www.hirscheider.com



ENDFINISHING MACHINES AND CENTERS



Contact

Hirscheider GmbH

Ferdinand-Porsche-Str. 5
73479 Ellwangen
GERMANY

info@hirscheider.com

Phone +49 7961 56499-0

Fax +49 7961 56499-340

www.hirscheider.com