
ANGLE
HEADS
2016
HIGHLIGHT
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IMPROVED
END MILL DESIGN
+ Solution for lack of machining axis
+ Machine hard to reach parts
+ Center boring
+ Stepless angle adjustment around the horizontal axis, with tangentially acting double cone clamp
MR > 250 Nm
VARIATIONS:
BASIC
DUPLEX
OFFSET
EWS Group
COMMAND
TOOLING SYSTEMS

HAAS TOOLS

2016 HIGHLIGHT

HAAS LIVE & STATIC TOOLS

MADE & SERVICED IN USA

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AXIAL AND RADIAL DRIVEN TOOLS

+ For VDI, VB Hybrid & VB24 turrets
+ Short, medium & long coupling lengths available

BOLT-ON TOOLHOLDERS

+ Available for BOT, VB Hybrid & VB24 turrets
+ Inch and metric available for each toolholder

AVAILABLE IN:

SHORT, MEDIUM & LONG COUPLING LENGTHS

+ BORING BAR HOLDERS
+ FACE GROOVING HOLDERS
+ FACING TOOLS
+ PARTING TOOLS
+ EXTENDED PARTING TOOLS
+ EXTENDED TWIN TURN TOOLS
+ TWIN BORE TOOLS
+ EXTENDED TWIN BORE TOOLS
+ WEDGE CLAMPS

AXIAL & RADIAL DRIVEN TOOL FEATURES

+ Uses standard ER32 collets
+ 8,000 max RPM run-out ≤ 0.002 mm
+ 1:1 drive ratio
+ Wedge clamp, reduction sleeve, coolant nozzle/pipe accessories available

COMMAND TOOLING SYSTEMS IS THE TECHNOLOGY LEADER IN TOOLHOLDER MANUFACTURING.

OUR DRIVEN & BOLT-ON TOOL LINE FOR HAAS MACHINES WAS DEVELOPED IN COOPERATION WITH PARENT COMPANY, EWS TOOL TECHNOLOGIES HEADQUARTERED IN UHINGEN, GERMANY.

ALL HAAS TOOLING IS MANUFACTURED & SERVICED AT OUR RAMSEY, MINNESOTA FACILITY.

EWS Group COMMAND TOOLING SYSTEMS

RTC HD

ZERO PULL-OUT

COMMAND'S REVERSE TAPER CHUCK HOLDER HAS BEEN ENGINEERED TO MEET THE DEMANDS OF AGGRESSIVE MILLING APPLICATIONS.

2016 HIGHLIGHT

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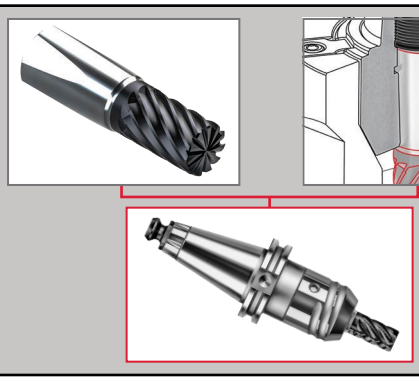
Improved End Mill Design

+ Specialized end mill is retained by a precision holder nose
+ End Mill is fixed in place with an internal jacking screw

Heavy Wall ThermoLock® Holder

+ The nose is drawn into a precision Sim-Fit holder body with a retaining bolt
+ The RTC HD utilizes standard retention knobs



Additional RTC HD Benefits

+ Zero end mill pull-out
+ Zero rotational slip
+ Designed for aggressive milling operations
+ Meets or exceeds run-out of toolholders currently in the market
+ Through center & through wall coolant options

THE REVERSE TAPER CHUCK HAS ZERO POSSIBILITY OF END MILL PULL-OUT AND ZERO POSSIBILITY OF ROTATIONAL SLIP.

WITH OPTIONAL THROUGH CENTER AND THROUGH WALL COOLANT OPTIONS, THE REVERSE TAPER CHUCK MEETS OR EXCEEDS THE TOOL RUN-OUT PERFORMANCE OF ALL EXISTING HOLDER DESIGNS ON THE MARKET TODAY.

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SHORT CAPTO

MORE AVAILABLE CUTTING TOOL LENGTH

+ Short toolholder projection with no gripper groove

HIGHER ACCURACY

+ Smaller run-out error through reduced projection length

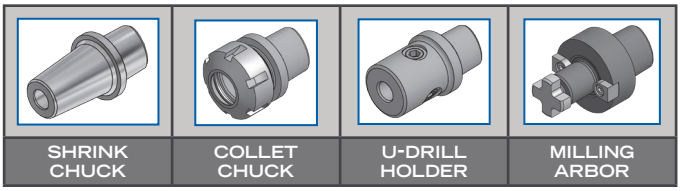
HIGHER STABILITY

+ Lower vibrations through reduced tool projection length

LONGER LIFETIME

+ Lower load on the bearings through shorter torsion

AVAILABLE INSERTS



SHRINK CHUCK	COLLET CHUCK	U-DRILL HOLDER	MILLING ARBOR

MORE THAN 20,000 DIFFERENT TOOL HOLDERS ARE AVAILABLE FOR MACHINE OPERATORS, INCLUDING VDI TOOL HOLDERS WITH SHAFT DIAMETERS OF 16-80, MACHINE-SPECIFIC HOLDERS FOR MAZAK, OKUMA OR MORI SEIKI. IN addition TO STANDARD HOLDERS, YOU WILL ALSO FIND CAPTO, HSK, KM AND ABS.

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SIMPLE, ONE-HAND OPERATION ALLOWS A TOOL TO BE CHANGED COMPLETELY WITHIN 20 SECONDS.

NEW DEFINITION OF PERFORMANCE: P=VX

A positive polygon transfers the performance potential of the tool drive free of play with torques of up to 200 Nm. Varia VX may also be equipped with a high-speed spindle bearing or a taper roller bearing. High-precision gears provide individual support in terms of rotation speed or torque.

- + Quick change through only one clamping point
- + No risk of injury when changing tools
- + Clamping of the inserts without any radical force
- + Safe torque transmission
- + No loose parts

PRECISE, FAST AND EFFICIENT – THESE ARE THE CHARACTERISTICS OF THE NEXT GENERATION OF MACHINE TOOLS.

THE NEW EWS VARIA VX SYSTEM MEETS ALL OF THESE ATTRIBUTES.

THE TAPER AND PLANAR SUPPORT OF VARIA VX GUARANTEES A MAXIMUM CONCENTRICITY AND HAS A POSITIVE EFFECT ON HIGH SPINDLE SPEEDS.

THIS FEATURE IS OF GREAT IMPORTANCE, ESPECIALLY IN THE CASE OF SMALL TOOL DIMENSIONS.

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