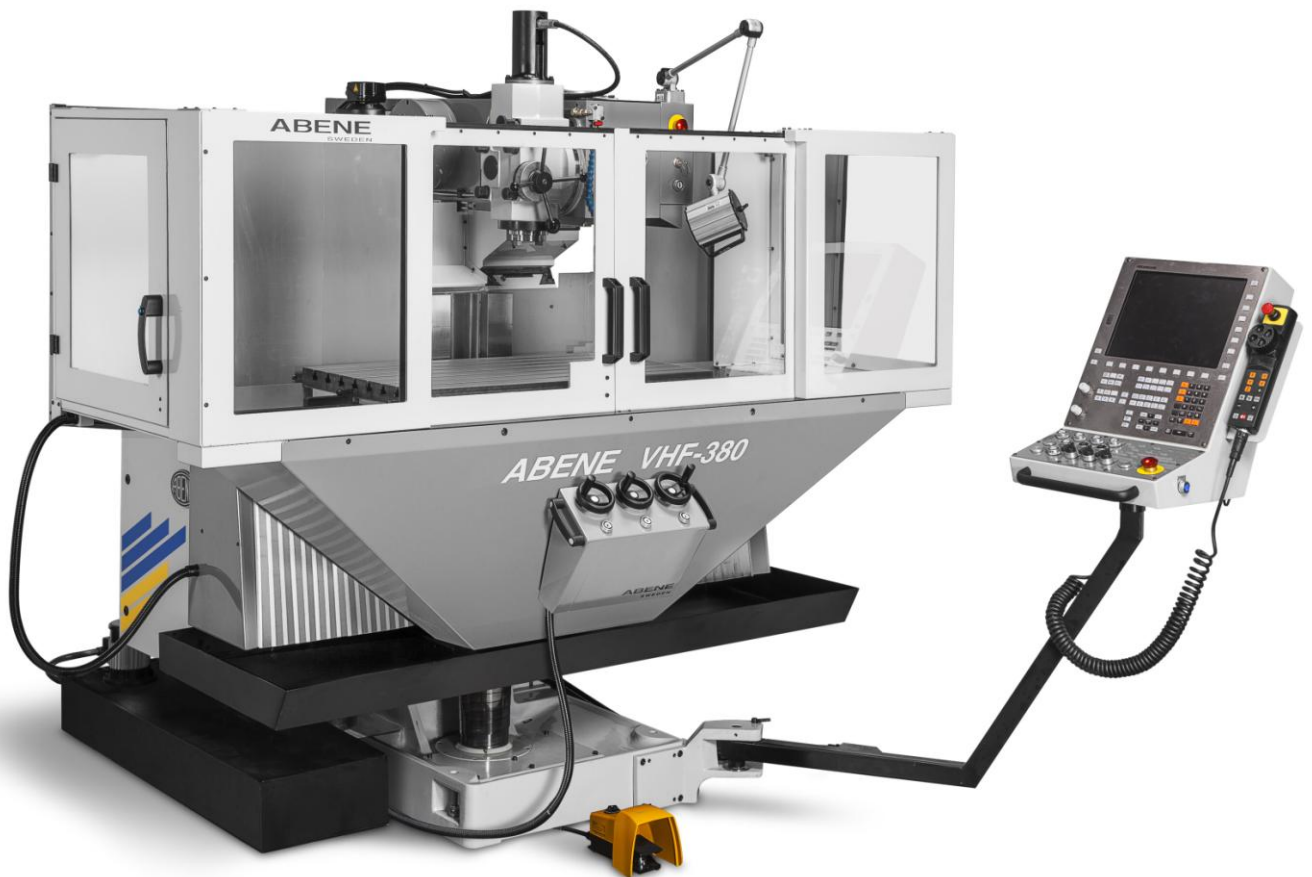




ABENE VHF-380



Note ! The machine in the picture is equipped with options

CONTROLS

HEIDENHAIN

TNC-620 or TNC-640

SIEMENS

840D

FANUC

OiMD – Manual Guide

ABENE VHF-380

Vertical/Horizontal Milling Machine
Unique design for optimal flexibility.

- Simple manual machining
- Combined manual/CNC with easy pre-programmed cycles.
- Full CNC machining 3 - 5 axis

All in one....

ABENE VHF-380

CONTROLS

HEIDENHAIN

TNC-620 Std.

TNC-640 Option

SIEMENS

840D Option

FANUC

OiMD – Manual Guide

Option



Standard equipment

- Hardened and ground guideways in all axes
- Heidenhain optical scales in 3 axes
- High precision ballscrews in X Y Z
- High torque spindle motor 7,5 kW
- Stepless feed rate manual & CNC
- Mechanical & electrical handwheel
- Open-door Manual machining
- ABENE pre-programmed Easy-Cycles
- Complete coolant system
- CE-guarding, table-mounted
- Machine lamp 24V LED
- Automatic central lubrication system
- Keys and manuals
- Spare parts book and Accuracy report
- 2-step automatic gearbox, digitally controlled spindle speeds
- Control Heidenhain TNC-620

OPTIONS

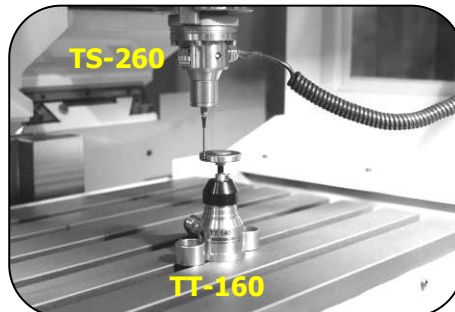


PD-100
Air Power
Drawbar

TCS-300
Hydraulic

TOOL CLAMPING

PD-100 : Air Power Drawbar
TCS-300: Hydraulic clamping
universal with pull studs for:
DIN 2080/69871 & BT40.

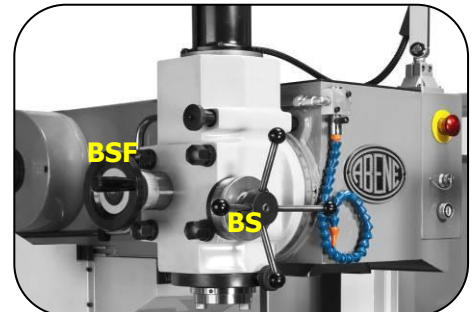


TS-260

TT-160

MEASURING DEVICES

TS-260: Touchprobe for workpiece
measurements.
TT-160: Probe for tool measuring.

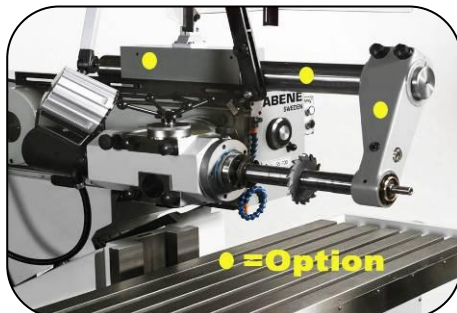


BSF

BS

SPINDLE HEAD TYPES

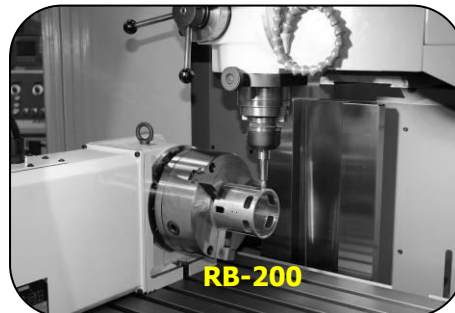
BS: Boring spindle, pinole
movement 75 mm.
BSF: Extra handwheel for fine
executions, 1 turn / 3 mm.



• = Option

HORIZONTAL MACHINING

Arbor Support: to support
horizontal machining with
long arbors.



RB-200

ADDITIONAL MACHINING AXIS

RB-200: Full axis CNC rotary table,
to be used as A, B or C axis.
Tailstock, and chuck.



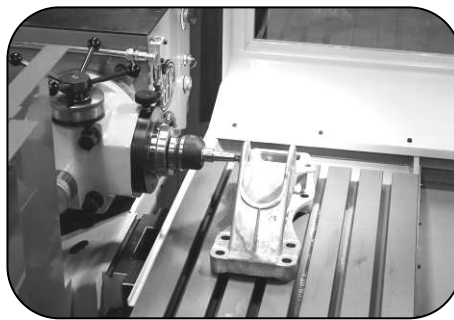
OTHER EXTRAS

Pads: Adjustable M16, 120
mm/diam.
Machine vices: Different
sizes, to be advised.

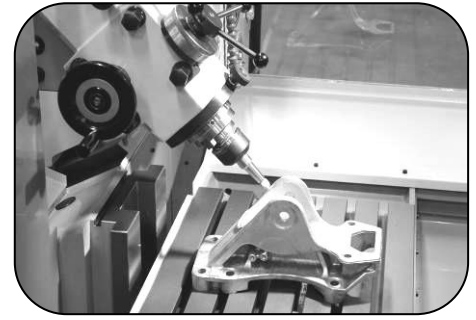
MILLING PERFORMANCE



VERTICAL POSITION (FIXED)
 Spindle head locked with a precision index-pin, and head stock/overarm in upper position.
 Spindle-table surface: 45-520 mm



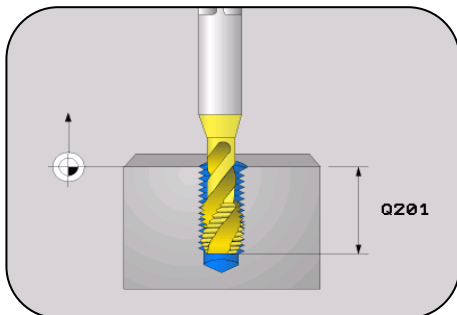
HORIZONTAL POSITION (FIXED)
 Spindle head locked with a precision index-pin, and head stock/overarm in lower position.
 Spindle-table surface: 85-560 mm



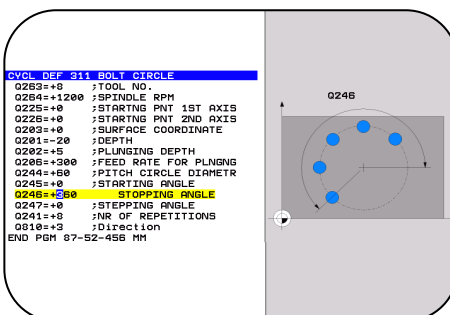
ANY POSITION (STEPLLESS)
 The spindle head is possible to lock in any position inside 140° and mill/drill in any angle.

The machine is built according to the unique ABENE "angular frame plane" design concept, which has the spindle head sideways mounted. This radical (World Exclusive) feature allows rapid and precise uniform changing from Vertical to Horizontal mode. The ergonomically positioned handles, along with the benefits of the standard Heidenhain control **TNC-620**, (also available with Fanuc or Siemens controls) allows the **ABENE VHF-380** to let you decide how to best turn your idea into a presentable product with maximum economy and efficiency.

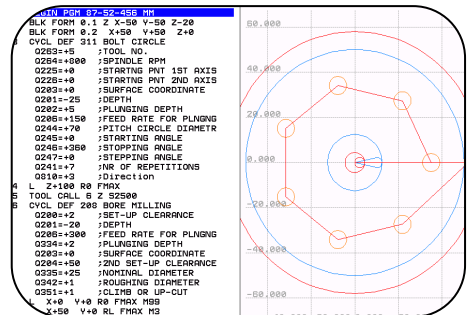
SOFTWARE PERFORMANCE (Heidenhain TNC-620 Std.)



ABENE Cycles
 Easy to use all-in-one cycles for most operations, developed in cooperation with Heidenhain.



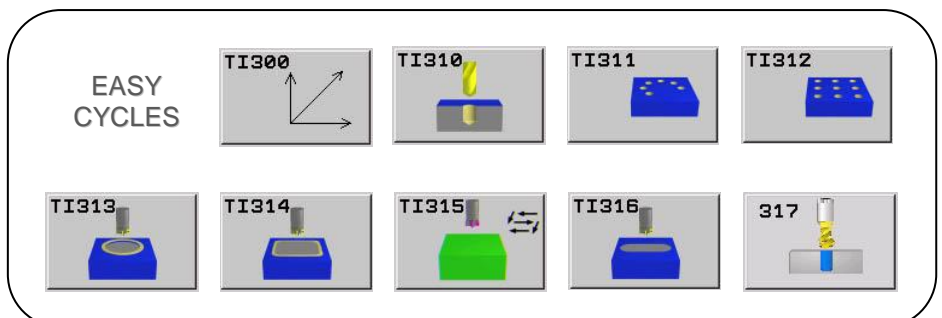
All-in-one
 With ABENE Cycles, where you choose what to do, which tool to use and where to do it. The machine does the rest.



Flexibility
 Combine ABENE Cycles freely with conventional Heidenhain programming and cycles or just use one cycle alone as a complete program.

Available ABENE Cycles

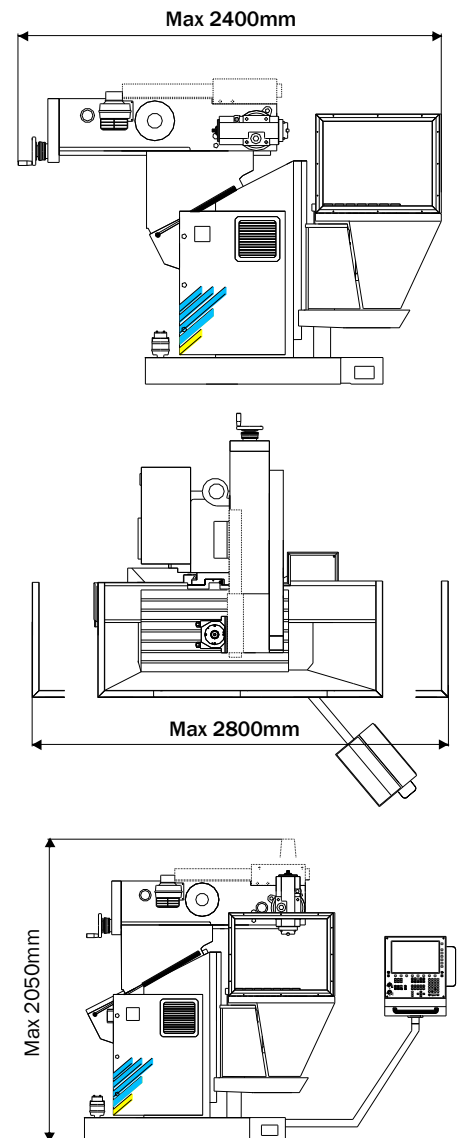
- Pre positioning
- Drilling
- Drilling – Circular pattern
- Drilling – Linear pattern
- Circular pocket
- Rectangular pocket
- Face milling
- Slot milling
- Tapping



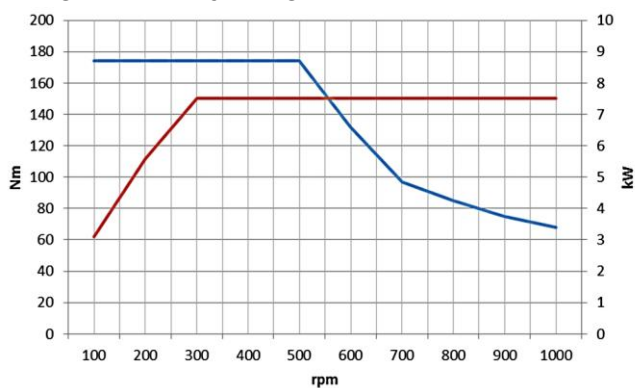
TECHNICAL INFO

| TECHNICAL DATA | VHF-380 M | VHF-380 BS | UNIT |
|--------------------------|-----------------|-----------------|---------|
| TABLE | | | |
| Table surface | 900 x 500 | 900 x 500 | mm |
| T-slot | 7 x 14 H7 | 7 x 14 H7 | mm |
| Max Load | 350 | 350 | Kg |
| MOVEMENT | | | |
| Longitudinal | 800 | 800 | mm |
| Cross | 500 | 500 | mm |
| Vertical | 475 | 475 | mm |
| Feeds n:o | Stepless | Stepless | |
| Rapid feed X,Y | 6000 | 6000 | mm/min |
| Rapid feed Z | 3000 | 3000 | mm/min |
| Feed.motor AC (Z) | 4,2 (13) | 4,2 (13) | Nm |
| ACCURACY | | | |
| Positioning | +/- 0,001 | +/- 0,001 | mm |
| Repeability | +/- 0,005 | +/- 0,005 | mm |
| SPINDLE | | | |
| Spindle speed | 55-4000 | 55-4000 | rpm |
| Spindle | ISO40 / DIN2080 | ISO40 / DIN2080 | |
| Spindle speeds n:o | Automatic | Automatic | 2 Steps |
| Spindle Power | 7,5 | 7,5 | kW |
| Spindle head swivel | 0-140 | 0-140 | degrees |
| Spindle quill | - | 75 | mm |
| Hand wheel | - | 3 (option) | mm/rev. |
| INSTALLATION DATA | | | |
| Power requirement | 25/17 | 25/17 | A/kVA |
| Air (if tool clamping) | 6 | 6 | Bar |
| Dimensions LxWxH | 2300x2450x2200 | 2300x2450x2200 | mm |
| Gross weight | 2850 | 2850 | kg |
| Net weight | 2650 | 2650 | kg |

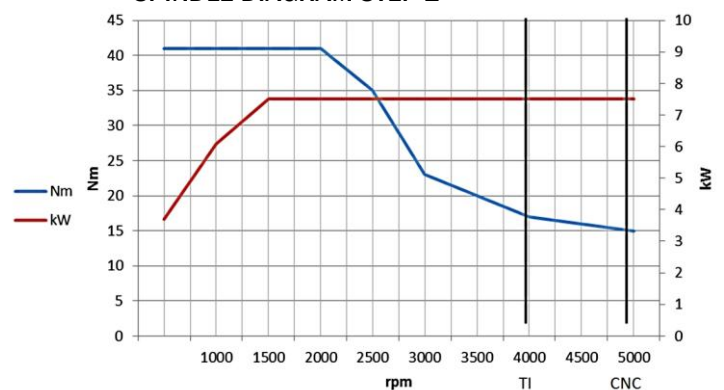
GENERAL DIMENSIONS



SPINDLE DIAGRAM STEP 1



SPINDLE DIAGRAM STEP 2



ABENE Machine AB

Box 147, 615 23 Valdemarsvik, Sweden

Tel: +46 123 51175

Fax: +46 123 51567

E-mail: sales@abene.se

www.abene.se