



SMT SWEDMILL

MILLING

All-In-One

1



VHF-360 TI

CONTROLS

HEIDENHAIN

TNC-620 or TNC-640

SIEMENS

828D or 840D

FANUC

0iMD - Manual Guide i

SMT SWEDMILL VHF-360 TI

Vertical/Horizontal Milling Machine
Unique design for optimal flexibility.

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

Note ! The machine in the picture is equipped with options



STANDARD EQUIPMENT

- Hardened & ground guide ways 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 & electronical handwheel
- Open-door Manual machining
- ABENE pre-programmed Easy-Cycles
- Complete coolant system

- CE-guarding, table-mounted 2-step automatic gearbox, digitally
- Automatic central lubrication system
- Spare parts book & Accuracy report
- Controlled spindle speeds
- Machine lamp 24V LED
- Keys and manuals
- Control Heidenhain TNC-620



Heidenhain TNC-620
Electronic handwheel HR510
Connections: USB & RJ45

Right side



Left side



OPTIONS



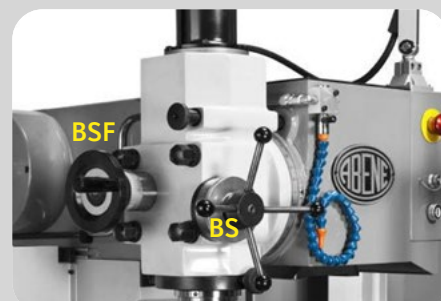
TOOL CLAMPING

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



MEASURING DEVICES

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



SPINDLE HEAD TYPES

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



HORIZONTAL MACHINING

Arbor Support: to support horizontal machining with long arbors.



ADDITIONAL MACHINING AXIS

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



OTHER EXTRAS

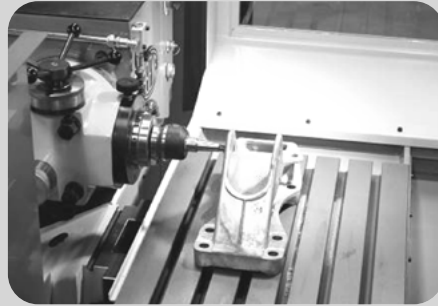
Pads: Adjustable M16, 120 mm/diam.
Machine vices: Different sizes, to be advised.



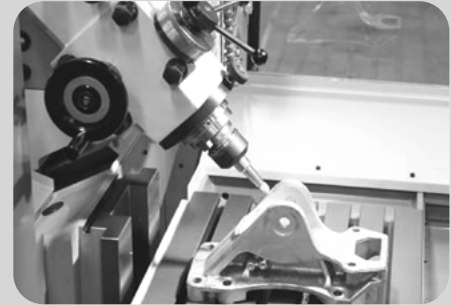
MILLING PERFORMANCE

**VERTICAL POSITION (FIXED)**

Spindle head locked with a precision index-pin, and head stock/over-arm in upper position.
Spindle-table surface: 20-495 mm

**HORIZONTAL POSITION (FIXED)**

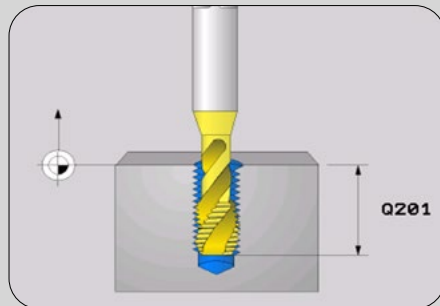
Spindle head locked with a precision index-pin, and head stock/over-arm in lower position.
Spindle-table surface: 75-550 mm

**ANY POSITION (STEPLLESS)**

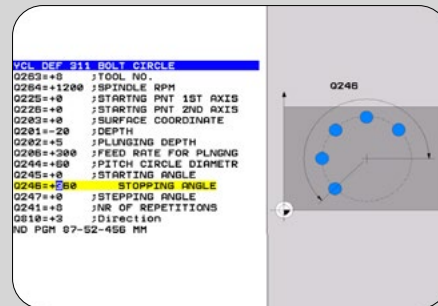
The spindle head is possible to lock in any position inside 1400 and mill/drill in any angle.

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 precisely uniform changing from Vertical to Horizontal mode. The ergonomically positioned handles, along with the benefits of Heidenhain control TNC-620 (also available with Fanuc or Siemens controls) allows the VHF-360 TI to let you decide how to best turn your idea into a presentable product with maximum economy and efficiency.

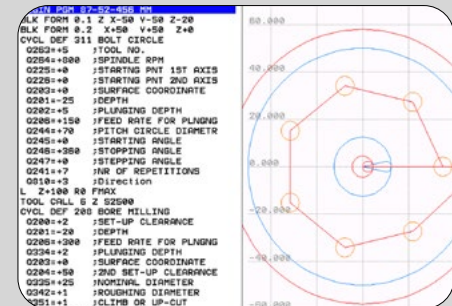
SOFTWARE PERFORMANCE (TNC620)

**ABENE CYCLES**

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

**ALL-IN-ONE**

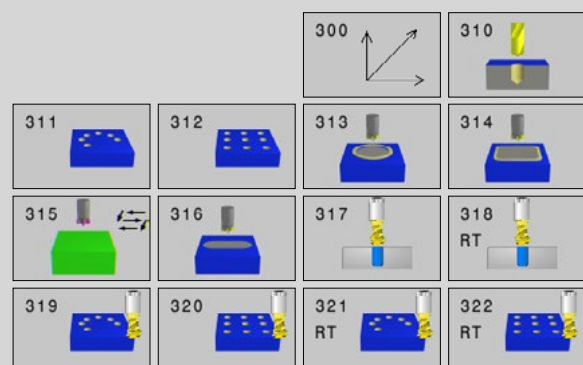
With ABENE Cycles, where you choose what to do, which tool to use and where to do it. The machine does the rest.

**FLEXIBILITY**

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

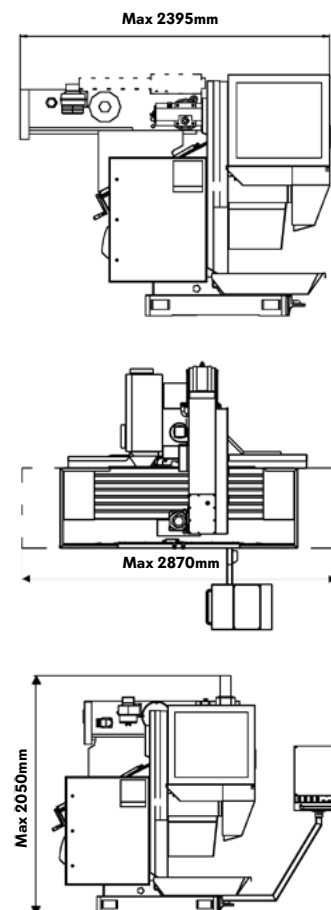
EASY CYCLES

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

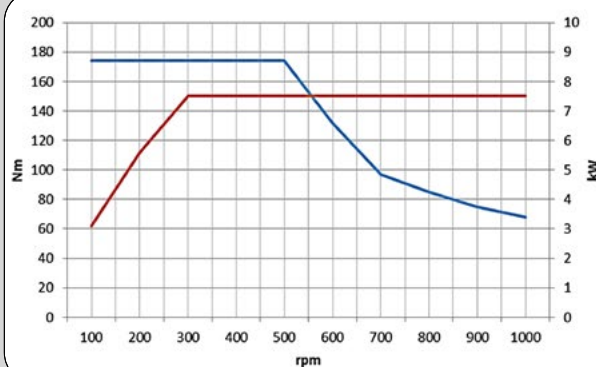


TECHNICAL INFO

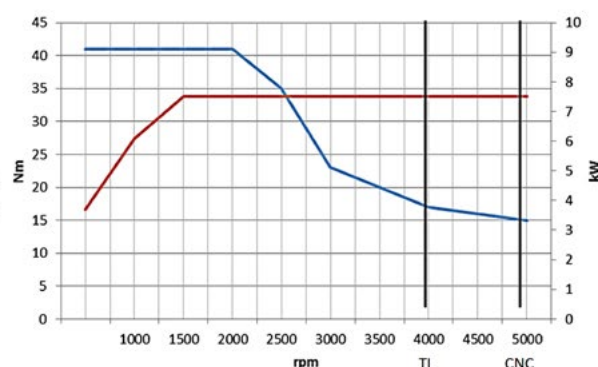
	VHF-360 TI	VHF-360 TI/BS	UNIT
TABLE			
Table Horizontal	1530 x 450	1530 x 450	mm
T-slot	6 x 18 (1 pc H7)	6 x 18 (1 pc H7)	mm
Max Load	350	350	Kg
MOVEMENT			
Longitudinal	650	650	mm
Cross	500	500	mm
Vertical	475	475	mm
Feed Stepless (Z)	Stepless	Stepless	
Rapid feed X,Y	6000	6000	mm/min
Rapid feed Z	3000	3000	mm/min
Feed.motor X,Y,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*	75	mm
Hand wheel	3*	3 (option)	mm/rev.
INSTALLATION DATA			
Power requirement	25/17	25/17	A/kVA
Air (if tool clamping)	6	6	Bar
Dimensions LxWxH	2300x2550x2200	2300x2550x2200	mm
Gross weight	2850	2850	kg
Net weight	2650	2650	kg



SPINDLE DIAGRAM STEP 1



SPINDLE DIAGRAM STEP 2



HEADQUARTER & PRODUCTION SITE

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