

Wickman ACW 6-44 CNC

MACHINE CONTROL

- Siemens 840D CNC
- 8 controlled axis (control is capable of upto 31 axis control)
- Main motor 15kw/95Nm
- 36Nm feed motor



CONTROL INTERFACE FEATURES

- Movable pendent
- 10.4" TFT screen & keyboard
- Graphic simulation
- ISO programming
- Windows XP based control
- % speed and feed overrides
- Machine cycle start/stop
- Control of coolant, conveyor, spindles, lights, guards, interlocks, etc.



MACHINE LUBRICATION SYSTEM

- Vogel one shot system. Lubricates slideways, cam tracks and pivot points
- A continuously re-circulating system lubricates the spindle bearings and main drive of the machine

BENEFITS

- Dramatic reduction in set up times
- Improved machine flexibility
- Ability to produce more complex and higher accuracy parts
- Ability to machine, difficult to cut materials

NOISE REDUCTION

- The removal of many elements of the main drive, especially the speed and feed gears have greatly reduced machine noise levels



MACHINE CAPABILITY

- 4 Standard cross slides positions 1,2,3,and 6
- 2 dual axis (Z & X) CNC slides in positions 4 & 5 with programmable feed rates
- 2 single axis (W) long slides in positions 4 & 5
- Drum position monitoring with automatic spindle position recognition and offset adjustment

MACHINE GUARDING

- A fully enclosed guarding system, with interlocks
- An acoustic cover to the stock carriage

MACHINE SPECIFICATION

Maximum bar capacity

44.5mm
 47.0mm with Pietro Cucchi Loader
 38.5mm A/F
 40.0mm A/F with Pietro Cucchi Loader

Spindle speed

150 – 2250 rpm

Spindle motor power

15 Kw 100% /22 Kw 50%

Bar feed length

12.7mm – 178.00mm

Feed stroke of centre block

0 – 89mm

Rapid advance of centre block

63.5mm

Cross slide strokes

pos 1 & 2 0 – 32mm
 Pos 3 & 6 0 – 22mm

Cross slide feed rates

0.010 – 15mm/rev

CNC Cross slide strokes

pos 4 & 5 X 90mm
 Z 74.5mm

CNC Independent slide stroke

pos 4 & 5 W 150mm

CNC Slide feed rates

0 – 15,000 mm/minute

Minimum cycle time

3.0 seconds

Index time

1.7 seconds

Machine maximum dimensions with stock carriage (approximatley)

6200 (l), 2250 (h), 1400 (w)

Machine weight (approximatley)

8100 kgs



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MACHINE OPTIONS

- Spindle stopping facility
- High pressure coolant facilities
- Automatic bar loader – Pietro or Giovanni Cucchi, lemca
- Quick change collet system
- Short feed, diameter, broken drill or tap detection units
- Screw type, drag type or slat type conveyor
- Automatic component catching, transfer belts and chutes

MACHINE ATTACHMENTS

Pick Up

standard, CNC, No cam, hydraulic, pneumatic, 2 speed and brake, back tap, back slot, back mill. **Back working slides** standard, hydraulic or CNC.

Threading

Single point CNC internal and external thread cutting, internal threading, thread milling, thread chasing, thread rolling.

High Speed Drilling

Standard and high pressure coolant attachments.

Recessing

Ramp, pushover, swing, rotary ramp, rotary pushover and rotary swing type attachments.

Flat Generating

Plunge, end working, quill and reverse type attachments.

Synchronous attachments

Synchronous slotting, synchronous radial drilling and milling, phased milling and slotting, synchronous drilling, driven milling.

Slow reaming, accelerated reaming, driven broaching.

Roll marking, frontal marking, phased marking.

Cross drilling, cross drill and trepan, cross tapping, cross milling (for spindle stop machines).

Toolholders & Collets

All standard Wickman toolholders and collets can be used with this machine.

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