



EVOLUTION 4 CNC LATHES

AJEV 4 180 - AJEV 4 500



AJEV 4 225

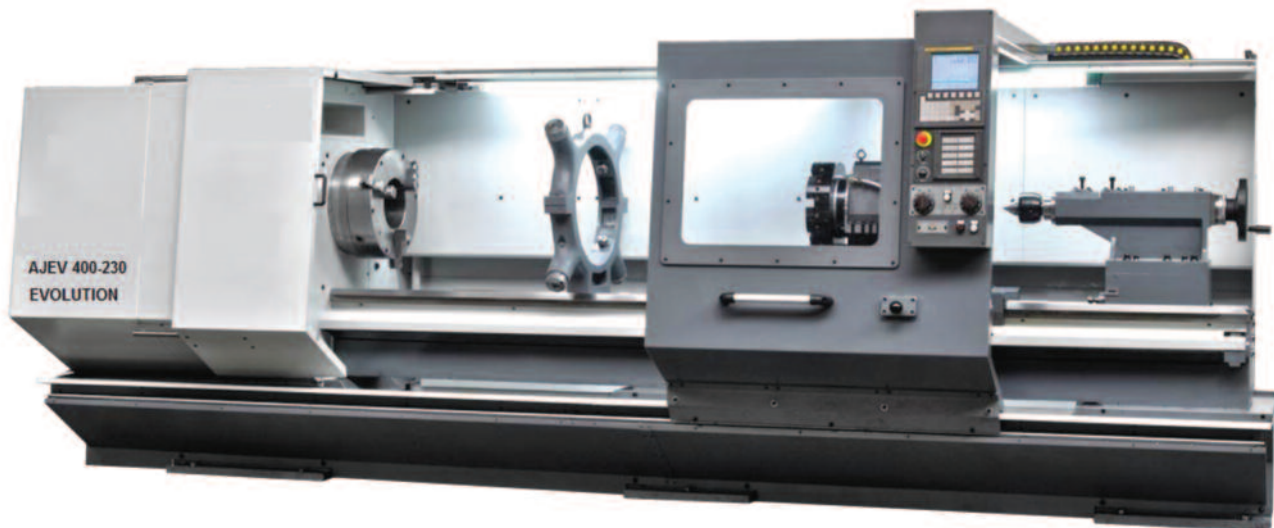
Machine Tool Exporters to the World since 1940

EVOLUTION 4 CNC LATHES

**AJEV 4 180
- AJEV 4 500**

The NEW AJAX EVOLUTION 4 CNC machines can be used as a manual lathe through electronic handwheels and the control used as a simple DRO positioning system. For one-offs and small batch production EVOLUTION 4 machines can be programmed, using the flexible canned cycles, with out the need for CNC training. Tapers, radii, grooving, multi point profiles and screwcutting are all programmed by answering simple questions direct from the Fanuc screen. These electronic generated cycles can then be linked together to give a complete ready torun programme.

For complicated shapes and batch production, full ISO programming can be carried out on the Fanuc Oi Turn Mate control.



AJEV 4 400-230

Standard features include:

- Powerful stock removal
- Twin electronic handwheels
- Ease of programming and operation
- Induction hardened and ground ways
- FANUC Oi TF Turn Mate touch screen control
- FANUC digital axis and spindle drives
- Variable spindle speeds with CSS
- 8 Station Automatic turret

Programme Cycles:

- Facing and turning with radius or chamfer
- Taper turning with radius or chamfer
- Thread cutting and thread repair
- Grooving
- Profiling of contour shapes
- Drilling and tapping
- Radius turning
- External and internal cycles
- Full ISO G Code programming

Options:

- Power chucks
- Power tailstocks
- Steadies
- Bar feed systems
- Tooling packages
- CAD CAM packages
- Live tooling & C axis
- 4 way automatic toolpost
- Many chuck options
- Fagor 8055 CNC control
- Siemens 828D shop turn control

| MODEL | AJEV 4 180 | AJEV 4 225 | AJEV 4 285 | AJEV 4 310 | AJEV 4 400 | AJEV 4 500 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-----------------------------|
| Centre Height (mm) | 180 | 225 | 285 | 310 | 400 | 500 |
| Swing Over Bed (mm) | 360 | 450 | 570 | 620 | 805 | 1010 |
| Swing Over Cross Slide (mm) | 190 | 260 | 360 | 410 | 515 | 718 |
| Distance Between Centres (mm) | 750/1000 | 1000/1500 | 1000/1500 2000/3000 | 1000/1500 2000/3000 | 1000/2000 3000/4000 | 1000/2000 3000/4000/5000 |
| Bed Width (mm) | 250 | 300 | 350 | 350 | 425 | 500 |

| HEADSTOCK | | | | | | |
|-------------------------------|--------|--------|--------|--------|-------------|-------------|
| Spindle Bore (mm) | 42 | 65 | 80 | 105 | 105/155/230 | 130/230/310 |
| Spindle Nose | A2-5 | A2-6 | A2-8 | A2-8 | A2-8/A2-15 | A2-11/A2-15 |
| Spindle Taper (MT) | 4 | 5 | 5 | 5 | 5 | 6 |
| Variable Speed (rpm) with CSS | 0-4000 | 0-3000 | 0-2500 | 0-2500 | 0-1700 | 0-1400 |

| SADDLE | | | | | | |
|---------------------------|---------|---------|---------|---------|--------|--------|
| Working Feed Rates mm/min | 0-7500 | 0-7500 | 0-7500 | 0-7500 | 0-7000 | 0-7000 |
| Rapid Feeds M/min | X12/Z15 | X12/Z15 | X12/Z15 | X12/Z15 | 10 | 10 |

| TAILSTOCK | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|-----|
| Tailstock Diameter (mm) | 58 | 68 | 95 | 95 | 96 | 120 |
| Tailstock Quill Travel (mm) | 180 | 200 | 220 | 220 | 215 | 300 |
| Tailstock Quill Taper (mm) | 4 | 4 | 5 | 5 | 6 | 6 |

| MOTORS | | | | | | |
|-----------------------|------|------|------|------|------|------|
| Main Motor Power (kW) | 7.5 | 9 | 11 | 11 | 17 | 22 |
| Pump Motor Power (kW) | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |

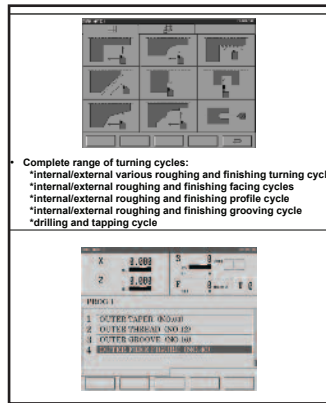
| SIZES | | | | | | |
|------------------------|-----------|-----------|-----------|-----------|-----------|------------|
| Width of Machine (mm) | 1035 | 1165 | 1140 | 1140 | 1800 | 2300 |
| Length of Machine (mm) | 2140/2417 | 2580/3080 | 2590-4624 | 2590-4624 | 3630-7630 | 4325-7325 |
| Height of Machine (mm) | 1870 | 1908 | 2150 | 2150 | 2230 | 2250 |
| Weight of Machine (kg) | 1476/1755 | 1750/2050 | 2588-4125 | 2685-4185 | 5460-9060 | 6400-10000 |

TECHNICAL SPECIFICATIONS

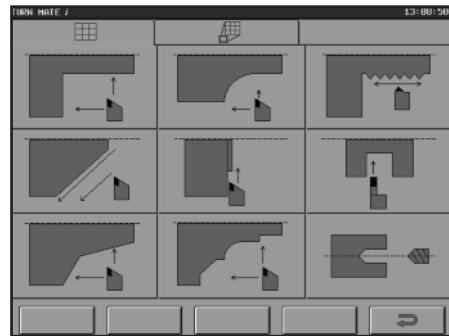
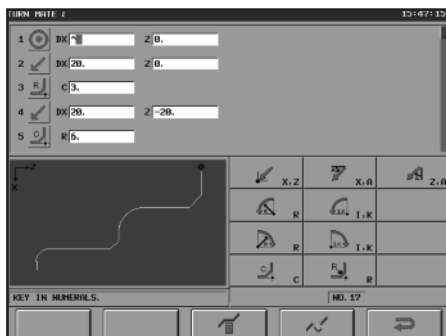
The AJAX EVOLUTION 4 machines include fully enclosed guarding, that meets CE regulations, automatic 8 station turret, automatic speed range change and latest Fanuc touch screen control and mounted on a sliding pendant. Machine programmes can be up and downloaded through the RS232 port or saved directly to the PMCIA card.

Turn those complicated shapes easily, quicker, and more accurately – saving you TIME AND MONEY.
An experienced lathe operator will be confident to operate the EVOLUTION lathe range in a matter of hours.

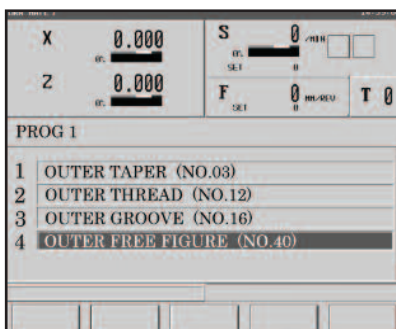
- Fully enclosed (CE) guarding
- Automatic 8 station turret or 4 way
- Automatic change of ranges on 400 & 500
- Touch screen monitor
- Dual programming system:
 - easy to use conversational touch screen programming
 - standard ISO programming using G & M codes
- Large programme memory storage via the PMCIA card
- Automatic toopost



**As quick as a full CNC on production
 Up to 10 times faster than a manual lathe on one-offs**



- Easy to use workpiece profile cycle



- Complete range of turning cycles:
 - internal/external various roughing and finishing turning cycle
 - internal/external roughing and finishing facing cycles
 - internal/external roughing and finishing profile cycle
 - internal/external roughing and finishing grooving cycle
 - drilling and tapping cycle



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