



AD25 AD25M AD35 Slant Bed CNC Lathe

These lathes are semi-closed loop CNC machine tools suitable to turn various complicated shaft, sleeve and disk-like work-pieces, such as turning of internal and external cylindrical, conical and other circumgyration surface as well as various metric, inch, modular and diametric pitch threads. They can also be used for oil grooves and keyways broaching, end-facing, grooving and chamfering etc. Besides turning applications, high speed and high efficiency turning center AD-25M can also be used to drill and mill for various complicated work-piece machining by its X/Z/C 3-axis combined motion. The unique construction developed using FEA techniques to provide maximum stiffness under the heaviest cutting conditions. The machining accuracy is about IT5–IT6, and the surface roughness is about Ra0.4um for nonferrous metal cutting and Ra0.8um for ferrous metal's. As universal CNC lathes, they are especially suitable for the machining of high precision work-pieces, and also widely used to machining parts in batches in the fields of automobile, motorcycle, railroad, aero-craft, home-appliance, bearing, hardware, etc. So they are highly reputed in machine building industry

| Item | Unit | AD-25 | AD-25M | AD-35 |
|-----------------------------------|--------|--------------------|-----------|--------------------|
| Swing over bed | mm | 520 | 520 | 660 |
| Max.turning dia | mm | 420 | 420 | 550 |
| Max.turning dia over carriage | mm | 360 | 300 | 420 |
| Max.turning length | mm | 530/905/1405/1905 | 530 | 780/1530/1890/2890 |
| Distance between centers | mm | 625/1000/1500/2000 | 625 | 890/1640/2000/3000 |
| Max.bar capacity | mm | 70 | 72 | 80 |
| X-axis travel | mm | 230 | 230 | 305 |
| Z-axis travel | mm | 590/965/1465/1965 | 590 | 855/1605/1965/2965 |
| Rapid traverse(x-and z-axis) | m/min | 12.0/15 | 12.0/15 | 12.0/15 |
| Cutting feed(x-and z-axis) | mm/min | 5000 | 5000 | 5000 |
| Hand feed(x-and z-axis) | mm/min | 1260 | 1260 | 1260 |
| Spindle speed | rpm | 35-3500 | 35-3500 | 25-2500 |
| Spindle nose | mm | A2-8 | A2-8 | A2-8 |
| Size of chuck | inch | 10" | 10" | 12" |
| Spindle front end bearing(dia) | mm | 130 | 130 | 160 |
| Spindle bore(dia) | mm | 87 | 87 | 92 |
| C-axis indexing(incrementle unit) | | — | 0.001 | — |
| Number of stations | | 12 | 12 | 12 |
| Indexing time | s | 1 | 0.4 | 1 |
| Tool shank size | mm | 25×25 | 25×25 | 25×25 |
| Boring bar shank dia | mm | 40 | 40 | 50 |
| Tool speed | rpm | — | 40-4000 | — |
| Main spindle motor | kw | 18.5/15 | 18.5/15 | 30/22 |
| X-axis servo motor | kw | 1.6 | 3 | 3 |
| Z-axis servo motor | kw | 3 | 3 | 4 |
| Tool driving motor | kw | — | A3/10000I | — |
| Max travel of tailstock | mm | 490/865/1365/1865 | 490 | 760/1500/1900/2900 |

| | | | | |
|---|----|---------------------------------------|-----------|--|
| Tailstock quill dia | mm | 85 | 85 | 110 |
| Tailstock travel | mm | 80 | 80 | 100 |
| Tailstock quill taper hole | | MT-5 | MT-5 | MT-5 |
| Coolant capacity | L | 200/230/280/330 | 200 | 200/250/280/350 |
| Power | kw | 30 | 38 | 46 |
| Machine weight | kg | 5000/5500/6500/7500 | 5000 | 8000/10000/11000/15000 |
| Machine height | MM | 1950 | 1950 | 2130 |
| Floor space | | 3000/3380×1545 4550×1630 4960×1900 | 3000×1545 | 3620×1820 4725×1840 5825×1900 7000×2200 |
| X-axis positioning accuracy R | MM | 0.01 | 0.01 | 0.01 |
| X-axis positioning accuracy B | MM | 0.012 | 0.012 | 0.012 |
| X-axis positioning accuracy A | MM | 0.025 | 0.025 | 0.025 |
| Z-axis positioning accuracy R | MM | 0.007 | 0.007 | 0.007 |
| Z-axis positioning accuracy B | MM | 0.006 | 0.006 | 0.006 |
| Z-axis positioning accuracy A | MM | 0.016 | 0.016 | 0.016 |
| CNC system:FANUC SERIES OR SIEMENS SERIES MITSUBISHI SERIES | | | | |