

# Flat Bed CNC Lathe CKE Series



| Specification                         | Unit                      | CKE6136i                                  | CKE6140i                                  | CKE6150Z  | CKE6150i                                  | CKE6163Z  | CKE6180Z  | CKE61100Z   |
|---------------------------------------|---------------------------|---|---|---|---|---|---|---|
| Max. swing diameter over bed          | mm                        | Φ360                                      | Φ400                                      | Φ500  | Φ500                                      | Φ630  | Φ800  | Φ1000   |
| Max. swing diameter over cross slide  | mm                        | Φ180                                      | Φ200                                      | Φ280  | Φ280                                      | Φ320  | Φ490  | Φ700  |
| Max. workpiece length                 | mm                        | 750/1000                                  | 750/1000                                  | 750/1000/<br>1500/2000  | 750/1000                                  | 1000/1500/2000/<br>3000/4000/5000   | 1000/1500   | 1000/1500   |
| Max. cutting length                   | mm                        | 580/830                                   | 580/830                                   | 680/930/1430/1930   | 680/930                                   | 795/1245/1845/2745/3785/4745<br>(Vertical 6-position)<br>690/1140/2740/2640/3680/4640<br>(Horizontal 6-position)<br>700/1150/2750/2650/3690/4650<br>(Horizontal 8-position) | 795/1245<br>(Vertical 6-position)<br>690/1140<br>(Horizontal 6-position)<br>700/1150<br>(Horizontal 8-position) | 795/1245<br>(Vertical 6-position)<br>690/1140<br>(Horizontal 6-position)<br>700/1150<br>(Horizontal 8-position) |
| Max. turning diameter                 | Vertical 4-position       | mm  | Φ360                                      | Φ400  | Φ500                                      | Φ630  | Φ800  | Φ1000   |
|                                       | Opt-Horizontal 6-position | mm  | Φ300                                      | Φ300  | Φ400                                      | Φ620  | Φ620  | Φ620  |
|                                       | Opt-Horizontal 8-position | mm  | —   | —   | Φ370                                      | Φ620  | Φ620  | Φ620  |
| Spindle center height                 | mm                        | 186                                       | 200                                       | 250   | 250                                       | 315   | 400   | 515   |
| Bed guideway width                    | mm                        | 300                                       | 300                                       | 400   | 400                                       | 550   | 550   | 550   |
| <b>Spindle</b>                        |                           |   |   |   |   |   |   |   |
| Spindle motor power                   | KW                        | 5.5<br>(Servo motor)                      | 5.5<br>(Servo motor)                      | 7.5/11<br>(Servo motor)   | 11/15<br>(Servo motor)                    | 11<br>(inverter driven motor)   |   |   |
| Spindle type                          | r/min                     | Belt driven                               | Belt driven                               | Gear box  | Belt driven                               | Gear box  |   |   |
| Spindle bore                          | mm                        | Φ40                                       | Φ40                                       | Φ82   | Φ82                                       | Φ100  |   |   |
| Chuck size                            | mm                        | Φ165                                      | Φ165                                      | Φ250  | Φ254                                      | Φ315  | Φ400  | Φ500  |
| Taper of spindle bore                 |                           | MT 5                                      | MT 5                                      | Front end<br>Φ90 I:20   | Front end<br>Φ100 I:20                    | Front end<br>Φ120 I:20  |   |   |
| Type of spindle nose                  |                           | D8  | D8  | D8  | AL-8                                      | C11   |   |   |
| Spindle speed ranges                  | r/min                     | *200~3500<br>Single spindle               | *200~3500<br>Single spindle               | *7~2200<br>3 range<br>manual(auto)  | *30~3000<br>Single spindle                | 10~1000<br>4 range manual(auto)   |   |   |
| <b>Tallstock</b>                      |                           |   |   |   |   |   |   |   |
| Tallstock quill diameter              | mm                        | Φ63                                       | Φ63                                       | Φ75   | Φ75                                       | Φ100  |   |   |
| Tallstock quill travel                | mm                        | 140                                       | 140                                       | 150   | 150                                       | 240   |   |   |
| Tallstock quill taper                 |                           | MT 4                                      | MT 4                                      | MT 5  | MT 5                                      | MT 6  |   |   |
| <b>Travel</b>                         |                           |   |   |   |   |   |   |   |
| Max. travel of X-axis                 | mm                        | 240                                       | 240                                       | 280   | 280                                       | 320   | 400   | 400   |
| Max. travel of Z-axis                 | mm                        | 580/830                                   | 580/830                                   | 685/935/1435/1935   | 685/935                                   | 800/1250/1850/<br>2750/3730/4750  | 800/1250  | 800/1250  |
| Rapid traverse of X/Z axis            | m/min                     | 4/6                                       | 4/6                                       | 4/8/10/15/20/30/40/50   | 4/8                                       | 4/7.5/10/15/20/30/40/50   | 4/7.5/10/15/20/30/40/50   | 4/7.5/10/15/20/30/40/50   |
| <b>Tool post</b>                      |                           |   |   |   |   |   |   |   |
| Tool Shank size (Vertical 4-position) | mm                        | 20×20                                     | 20×20                                     | 25×25   | 25×25                                     | 32×32/32×25 Horizontal 8-position   |   |   |
| <b>Accuracy</b>                       |                           |   |   |   |   |   |   |   |
| X/Z axis positioning accuracy         | mm                        | 0.018/<br>0.021(1750)<br>0.024(1000)      | 0.018/<br>0.021(750)<br>0.024(1000)       | 0.015/<br>0.021(750)<br>0.026(1500/2000)  | 0.018/<br>0.021(750)<br>0.024(1000)       | 0.018/0.024(1000)<br>0.026(1500/2000)<br>0.030(3000/4000/5000)  | 0.018/<br>0.024(1000)<br>0.026(1500)  | 0.018/<br>0.024(1000)<br>0.026(1500)  |
| X/Z axis repeatability accuracy       | mm                        | 0.006/<br>0.008(750)<br>0.011(1000)       | 0.006/<br>0.008(750)<br>0.011(1000)       | 0.006/<br>0.008(750)<br>0.011(1000)<br>0.014(1500/2000)                                 | 0.006/<br>0.008(750)<br>0.011(1000)       | 0.006/0.011(1000)<br>0.014(1500/2000/3000/4000/5000)  | 0.006/<br>0.011(1000)<br>0.014(1500)  | 0.006/<br>0.011(1000)<br>0.014(1500)  |
| <b>General</b>                        |                           |   |   |   |   |   |   |   |
| Machine dimensions(L×W×H)             | mm                        | 2300×1800×1500(70)<br>2200×1800×1500(100) | 2300×1800×1500(70)<br>2200×1800×1500(100) | 2300×1750×1620(70)<br>2300×1750×1620(100)<br>2300×1750×1620(130)<br>2300×1750×1620(160) | 2300×1750×1620(70)<br>2300×1750×1620(100) | 3455×2020×1895(1000)<br>3365×2020×1895(1500)<br>4565×2020×1895(2000)<br>5465×2020×1895(2500)<br>6465×2020×1895(3000)<br>7565×2020×1895(3500)                                | 3455×2020×2000(1000)<br>3365×2020×2000(1500)  | 3455×2020×2000(1000)<br>3365×2020×2000(1500)  |
| Machine weight                        | kg                        | 1800 (750)<br>1900 (1000)                 | 1850 (750)<br>1950 (1000)                 | 2501 (530/2000/1000)<br>2600 (1500/2000/2000)   | 2550 (750)<br>2600 (1000)                 | 4800 (5100/5800/6300/6500/6100)<br>5400 (7100/8100/14400/1600/1800)   | 5600/6000   | 5600/6000   |

### Standard configurations

- 3-Jaw manual chuck
- Manual tailstock
- FANUC 0i-TF (5) Plus system
- Vertical 4-position turret
- Heat exchanger
- Manual speed shift

### Optional

- 4-Jaw manual chuck
- Horizontal 6-position turret
- Hydraulic tailstock
- Follow rest
- GSK system
- Automatic speed shift
- Hydraulic chuck
- Horizontal 8-position turret
- Hydraulic station
- Steady rest
- Siemens system
- Air conditioner