

**CZMOOS**  
**TRADING s.r.o.**



**CNC**  
**lathes**

# CKE lathes in mechatronic version

## Invaluable tool for beginners with CNC machines

The design of CKE lathes in mechatronic or multi-functional version is a unique combination of traditional hand-operated lathes and CNC lathes. They are designed for efficient, repeatable piece short-run, in the CNC to moderate volume production.

Thanks very clever concept and design, these machines offer solutions to customers the fastest and cheapest way of transition from a manually controlled lathes classical approach to numerically controlled machines. The machine kept a number of useful properties of conventional machines, which are complemented by the advantages of mechatronic machine-driven. The control system controls the machine is designed so that its operation does not require almost no special programming knowledge, and so is the operator of classic machines very easy to switch to multifunction machine.

**CKE lathes are also available without mechatronic version.**

### CNC controls:

- FAGOR
- FANUC
- SIEMENS



CKE 6140Z

| Item                                           | CKE6130i | CKE6136Z        | CKE6136i  | CKE6140Z        | CKE6140i  | CKE6150i  | CKE6150Z            | CKE6156Z            | CKE6166Z            | CKE6163Z            | CKE6180Z            |
|------------------------------------------------|----------|-----------------|-----------|-----------------|-----------|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Max.swing over bed (mm)                        | 300      | 360             | 360       | 400             | 400       | 500       | 500                 | 560                 | 660                 | 630                 | 800                 |
| Width of bed                                   | 205      | 300             | 300       | 300             | 300       | 400       | 400                 | 400                 | 400                 | 550                 | 550                 |
| Max.length of workpiece (mm)                   | 600      | 750/1000        | 750/1000  | 750/1000        | 750/1000  | 750/1000  | 750/1000/1500/2000  | 750/1000/1500/2000  | 750/1000/1500/2000  | 1000/1500/2000/3000 | 1000/1500/2000/3000 |
| Max.swing over slide (mm)                      | 145      | 180             | 180       | 200             | 200       | 280       | 280                 | 330                 | 430                 | 320                 | 490                 |
| X travel (mm)                                  | 190      | 205             | 205       | 225             | 225       | 280       | 280                 | 305                 | 305                 | 320                 | 420                 |
| Z travel (mm)                                  | 550      | 620/870         | 620/870   | 620/870         | 620/870   | 680/930   | 680/930/1430/1930   | 680/930/1430/1930   | 680/930/1430/1930   | 785/1235/1835/2735  | 785/1235/1835/2735  |
| Spindle nose                                   | A2-5     | A2-6/D6         | A2-5      | A2-6/D6         | A2-5      | A2-8      | D8                  | D8                  | D8                  | C11                 | C11                 |
| Chuck size (mm)                                | 165      | 200             | 165       | 200             | 165       | 250       | 250                 | 250                 | 315                 | 320                 | 400                 |
| Taper of spindle bore                          | M5       | M6              | M5        | M6              | M5        | 1:20      | 1:20                | 1:20                | 1:20                | 1:20                | 1:20                |
| Spindle bore (mm)                              | 40       | 52              | 40        | 52              | 40        | 82        | 82                  | 82                  | 82                  | 100                 | 100                 |
| Steps of spindle speed                         | stepless | 2-step actuator | stepless  | 2-step actuator | stepless  | stepless  | 3-step actuator     | 3-step actuator     | 3-step actuator     | 4-step actuator     | 4-step actuator     |
| Frequency conversion motor power (kW)          | 4.0      | 5.5             | 5.5       | 5.5             | 5.5       | 11/15     | 7.5                 | 7.5                 | 7.5                 | 11                  | 11                  |
| Rapid traverse X/Z (m/min)                     | 4/5      | 4/5             | 4/5       | 4/5             | 4/5       | 6/10      | 6/10                | 6/10                | 4/8                 | 4/8                 | 4/8                 |
| Repeatability of toolpost (mm)                 | 0.008    | 0.008           | 0.008     | 0.008           | 0.008     | 0.008     | 0.008               | 0.008               | 0.008               | 0.008               | 0.008               |
| Vertical 4-position Toolpost changing time (s) | 2.1      | 2.4             | 2.4       | 2.4             | 2.4       | 2.4       | 2.4                 | 2.4                 | 2.4                 | 2.9                 | 2.9                 |
| Horizontal 6-position Toolpost changing time   |          | 3.0             | 3.0       | 3.0             | 3.0       | 3.0       | 3.0                 | 3.0                 | 3.0                 | 1.1 8-position      | 1.1 8-position      |
| Diameter of tailstock quill (mm)               | 42       | 63              | 63        | 63              | 63        | 75        | 75                  | 75                  | 75                  | 100                 | 100                 |
| Travel of tailstock quill (mm)                 | 110      | 130             | 130       | 130             | 130       | 150       | 150                 | 150                 | 150                 | 240                 | 240                 |
| Taper of tailstock quill                       | M3       | M4              | M4        | M4              | M4        | M5        | M5                  | M5                  | M5                  | M6                  | M6                  |
| Net weigh (kg)                                 | 1000     | 1800/1950       | 1800/1950 | 1800/1950       | 1800/1950 | 2550/2600 | 2550/2600/2700/2800 | 2600/2650/2750/2850 | 2700/2750/2850/2950 | 4700/4800/5300/5600 | 5200/5300/5800/6100 |

# The powerful Slant Bed CNC lathes

## Serie CL a DL

CNC lathes series CL and DL are productive, efficient and reliable high-precision lathes particularly suitable for mass production of shafts and flanges. Thanks to continued development and advanced design you will be able to apply latest technology in metal machining on these lathes

## Control system

FANUC 0i TC



DL 30M

| SPECIFICATION                                 | CL-15/250    | CL-15/320    | CL-15/250    | DL-15/290     | DL-20M(600)   | DL-20M(1000)  | DL-25M(1500)  | DL-30M        | DL-30M        | DL-32M        | DL-32M        |
|-----------------------------------------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Max. swing over bed (mm)                      | Ø400         | Ø400         | Ø400         | Ø470          | Ø460          | Ø460          | Ø520          | Ø635          | Ø635          | Ø680          | Ø680          |
| Max. turning length (mm)                      | 250          | 320          | 250          | 290           | 600           | 1000          | 1500          | 1000          | 1500          | 1000          | 2000          |
| Max. turning dia. (various shafts) (mm)       | Ø160         | Ø160         | Ø160         | Ø210          | Ø260          | Ø260          | Ø310          | Ø300          | Ø300          | Ø400          | Ø400          |
| Max. turning dia. (discs) (mm)                | Ø200         | Ø200         | Ø200         | Ø250          | Ø400          | Ø400          | Ø500          | Ø600          | Ø600          | Ø630          | Ø630          |
| Chuck size                                    | 6"           | 6"           | 8"           | 6"            | 8"            | 8"            | 10"           | 12"           | 12"           | 15"           | 15"           |
| Spindle nose                                  | ISOA2-5      | ISOA2-5      | ISOA2-5      | ISOA2-5       | ISOA2-6       | ISOA2-6       | ISOA2-8       | ISOA2-10      | ISOA2-10      | ISOA2-11      | ISOA2-11      |
| Spindle speed(r/min)                          | 50-5000      | 50-5000      | 45-4500      | 60-6000       | 45-4000       | 45-4000       | 35-3500       | 30-3000       | 30-3000       | 20-2000       | 20-2000       |
| Main spindle motor power(kw)                  | 5.5/7.5kw    | 5.5/7.5kw    | 5.5/7.5kw    | 5.5/7.5kw     | 11/15kw       | 15/18kw       | 18.5/22kw     | 18.5/22kw     | 18.5/22kw     | 22/30kw       | 22/30kw       |
| Dia. Of spindle through hole(mm)              | Ø46          | Ø46          | Ø62          | Ø57           | Ø76           | Ø76           | Ø87           | Ø88           | Ø88           | Ø100          | Ø100          |
| Max. Bar dia.(mm)                             | Ø32          | Ø32          | Ø5232        | Ø45           | Ø65           | Ø65           | Ø74           | Ø74           | Ø74           | -             | -             |
| X/Z axis traver(mm)                           | 120/260      | 120/330      | 120/260      | 150/320       | 220/700       | 265/1040      | 260/1600      | 335/1110      | 335/1600      | 375/1030      | 375/2030      |
| Rapid travers X and Z (m/min)                 | 15/18        | 15/18        | 15/18        | 24/24         | 16/20         | 16/20         | 12/12         | 24/30         | 24/30         | 13/13         | 13/13         |
| Cutting feed X and Z axis (mm/min)            | 0-5000       | 0-5000       | 0-5000       | 0-5000        | 0-5000        | 0-5000        | 0.01-9000     | 0-5000        | 0-5000        | 0-5000        | 0-5000        |
| X/Z servo motor torque(N. M)                  | 8/8          | 8/8          | 8/8          | 8/8           | 12/12         | 12/12         | 22/22         | 22/22         | 22/22         | 22/22         | 22/22         |
| Turret type/Number of stations                | Hydraulic 8  | Hydraulic 8  | Hydraulic 8  | Hydraulic 10  | Hydraulic 12  | Hydraulic 12  | Hydraulic 12  | Hydraulic 12  | Hydraulic 12  | Hydraulic 12  | Hydraulic 12  |
| Tool shank size(mm)                           | 20X20        | 20X20        | 20X20        | 20X20         | 25X25         | 25X25         | 25X25         | 25X25         | 25X25         | 32X25         | 32X25         |
| Indexing time (one step/full step)(s)         | 0.3/1.3      | 0.3/1.3      | 0.3/1.3      | 0.35/1.2      | 0.3/1.3       | 0.3/1.3       | 0.3/1.3       | 0.3/1.3       | 0.3/1.3       | 0.45/1.45     | 0.45/1.45     |
| Quill dia.(mm)                                | Ø60          | Ø60          | Ø60          | Ø70           | Ø85           | Ø85           | Ø100          | Ø140          | Ø140          | Ø160          | Ø160          |
| Quill traver(mm)                              | 80           | 80           | 80           | 80            | 139           | 139           | 139           | 150           | 150           | 180           | 180           |
| Spindle taper                                 | MT.3         | MT.3         | MT.3         | MT.4          | MT.5          | MT.5          | MT.5          | MT.5          | MT.5          | MT.5          | MT.5          |
| CNC system                                    | Fanuc 0i-TC  | Fanuc 0i-TC  | Fanuc 0i-TC  | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   | Fanuc 0i-TC   |
| Inclining angle of bed guideway to horizontal | SEPARATE 60° | SEPARATE 60° | SEPARATE 60° | One piece 45° | One piece 45° | One piece 45° | One piece 45° | One piece 45° | One piece 45° | One piece 45° | One piece 45° |
| Machine length(mm)                            | 2085         | 2350         | 2085         | 2100          | 3270          | 3500          | 4406          | 5024          | 5500          | 5740          | 6740          |
| Machine width(mm)                             | 1555         | 1555         | 1555         | 1575          | 1805          | 1797          | 1830          | 1905          | 2000          | 2040          | 2040          |
| Machine height(mm)                            | 1880         | 1880         | 1880         | 1760          | 1760          | 1795          | 1977          | 2050          | 2050          | 2240          | 2240          |
| Net machine weight(kg)                        | 3000         | 2900         | 2900         | 2800          | 4500          | 5500          | 8300          | 8500          | 8500          | 11000         | 13000         |
| Gross machine weight(kg)                      | 3800         | 3400         | 3400         | 3600          | 5500          | 6500          | 9500          | 9500          | 9500          | 12000         | 14000         |

# CNC lathes with driven tools

DL-MH Series is also equipped with a C axis and driven tools with quality brands Barufaldi or Sauter allows the machine to perform extra operations such as milling, drilling, threading, etc. in one pass

- live tools + 3 driven axes: serie DL MH (driven axes: X, Z and C)
- live tools + 4 driven axes: serie DL MY (driven axes: X, Y, Z and C)

## CNC CONTROL

- FANUC 0i TC for series DL MH
- FANUC 18i for series DL MY



| SPECIFICATION                          | DL-20MH         | DL-25MH        | DL-30MH(1000)  |
|----------------------------------------|-----------------|----------------|----------------|
| Max. swing over bed (mm)               | Ø460            | Ø520           | Ø635           |
| Max. turning length (mm)               | 500             | 1000           | 1000           |
| Max. turning dia.(various shafts) (mm) | Ø260            | Ø310           | Ø300           |
| Max. turning dia.(discs) (mm)          | Ø380            | Ø500           | Ø600           |
| Chuck size                             | 8"              | 10"            | 12"            |
| Spindle nose                           | ISOA2-6         | ISOA2-8        | ISOA2-10       |
| Spindle speed(r/min)                   | 45-4000         | 35-3500        | 30-3000        |
| Main spindle motor power(kw)           | 11/15kw         | 18.5/22kw      | 18.5/22kw      |
| Dia. Of spindle through hole(mm)       | Ø76             | Ø87            | Ø88            |
| Max. Bar dia.(mm)                      | Ø65             | Ø74            | Ø74            |
| X/Z axis traver(mm)                    | 265/700         | 265-110        | 335/1110       |
| Rapid traveres X and Z (m/min)         | 24/24           | 12/12          | 24/30          |
| Cutting feed X and Z axis (mm/min)     | 0-5000          | 0-5000         | 0-5000         |
| X/Z servo motor torque(N. M)           | 12/12.          | 12/22          | 22/22          |
| Tool shank size(mm)                    | 25X25           | 25X25          | 32X25          |
| Quill dia.(mm)                         | Ø85             | Ø100           | Ø140           |
| Quill traver(mm)                       | 139             | 139            | 150            |
| Spindle taper                          | MT.5            | MT.5           | MT.5           |
| Max. tail stock traver(mm)             | 490             | 650            | 650            |
| CNC system                             | Fanuc 0i-TC     | Fanuc 1i-TC    | Fanuc 0i-TC    |
| Guideway of saddle side                | Linear guideway | LINER GUIDEWAY | LINER GUIDEWAY |
| Net machine weight(kg)                 | 4500            | 7800           | 8500           |

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