

MACHINE SPECIFICATION

# LT580





LT580

# CNC LATHES

| STANDART MACHINE SPECIFICATION |                               | UNIT   | LT580                             |
|--------------------------------|-------------------------------|--------|-----------------------------------|
| CAPACITY                       | Height of centers             | mm     | 290                               |
|                                | Swing over bed                | mm     | 580                               |
|                                | Swing over cross slide        | mm     | 380                               |
|                                | Width of bed                  | mm     | 400                               |
|                                | Distance between centers      | mm     | 885; 1385; 1885; 2885; 3885; 4885 |
| SPINDLE                        | Spindle nose DIN 55027        | No     | 8                                 |
|                                | Front bearing diameter        | mm     | 120                               |
|                                | Spindle bore                  | mm     | 72                                |
|                                | Spindle taper                 | Metric | 80                                |
| HEAD STOCK                     | Number of spindle speeds      |        | 3                                 |
|                                | I - Range                     | rpm    | 25 - 100                          |
|                                | II - Range                    | rpm    | 100 - 400                         |
|                                | III - Range                   | rpm    | 500 - 2000                        |
| TRAVELS AND FEEDS              | Longitudinal feed (Z-axis)    | m/min  | 8 (max)                           |
|                                | Lateral feed (X-axis)         | m/min  | 8 (max)                           |
|                                | Rapid traverse (Z and X-axis) | mm     | 8 (max)                           |
|                                | Cross slide maximum travel    | mm     | 290                               |
| BALL SCREW                     | Z-axis                        | mm     | 50 x 10                           |
|                                | X-axis                        | mm     | 32 x 5                            |
| TAILSTOCK                      | Quill diameter                | mm     | 90                                |
|                                | Quill travel                  | mm     | 230                               |
|                                | Quill taper                   | Morse  | 5                                 |
| DRIVES                         | Main drive power              | kW     | 11kW (AT160M4)                    |
|                                | Z-axis servo drive power      | kW/N.m | 16 N.m (3,3kW) (1FK7083)          |
|                                | X-axis servo drive power      | kW/N.m | 11 N.m (2,29kW) (1FK7063)         |
|                                | Spindle maximum torque        | N.m    | 1120                              |
|                                | Z-axis tow strength           | daN    | 1450                              |
|                                | X-axis tow strength           | daN    | 1050                              |
| TOOL HOLER                     | Quick change type             |        | MC                                |
| CNC SYSTEM                     |                               |        | Siemens                           |
| WEIGHT                         | For DBC 1885 mm               | kg     | 3800                              |

CNC System and servo drives available also: Heidenhain; Fanuc; Fagor

# LATHE MACHINE OPTIONAL ACCESSORIES

| N  | OPTIONAL ACCESSORY                     | SPECIFICATIONS                     | CU325 CU325RD | C400TM C400TMS  | CU400  | CU500   | CU400M CU400MRD | CU500M CU500MRD | CU580M CU580MRD | C11MT C11MTS | CU500MT CU500MTRD | CU630 CU630RD |
|----|--|------------------------------------|---------------|-----------------|--------|---------|-----------------|-----------------|-----------------|--------------|-------------------|---------------|
| 1  | 3-JAW SELF-CENTERING CHUCK             | Diameter (mm)                      | 160           | 200             | 250    | 250     | 250             | 250             | 250             | 250          | 315               | 315           |
| 2  | INDEPENDENT 4-JAW CHUCK                | Diameter (mm)                      | 250           | 320             | 400    | 500     | 400             | 500             | 500             | 500          | 500               | 600           |
| 3  | FACE PLATE                             | Diameter (mm)                      | 296           | 320             | 400    | 480     | 400             | 480             | 480             | 480          | 500               | 600           |
| 4  | FOLLOWE REST                           | Range (mm)                         | 10-70         | 10-80           | 15-160 | 15-200  | 15-160          | 15-200          | 15-200          | 15-200       | 15-200            | 15-200        |
| 5  | STEADY REST, SMALL SIZE                | Range (mm)                         | 10-70         | 10-100          | 15-150 | 15-160  | 15-160          | 15-160          | 15-200          | 15-200       | 15-160            | 15-200        |
| 6  | STEADY REST, BIG SIZE                  | Range (mm)                         | No            | No              | No     | 140-280 | No              | 140-280         | 180-340         | 180-340      | 140-280           | 180-340       |
| 7  | TAPER TURNING ATTACHM.                 | +10°                               | Yes           | Yes             | Yes    | Yes     | Yes             | Yes             | Yes             | Yes          | Yes               | Yes           |
| 8  | ONE-POSITION LONG. STOP                |                                    | Yes           | Yes             | Yes    | Yes     | Yes             | Yes             | Yes             | Yes          | Yes               | Yes           |
| 9  | THREAD DIAL                            |                                    | Yes           | Yes             | Yes    | Yes     | Yes             | Yes             | Yes             | Yes          | Yes               | Yes           |
| 10 | DRIVE PLATE FOR SPINDLE NOSE DIN 55027 |                                    | Yes           | Yes             | Yes    | Yes     | Yes             | Yes             | Yes             | Yes          | Yes               | Yes           |
| 11 | SET OF LATHE DOGS                      | Ø20; Ø30; Ø40; Ø50; Ø60; Ø80; Ø100 | 20; 50;       | 20;30;40; 50;60 | Full   | Full    | Full            | Full            | Full            | Full         | Full              | Full          |
| 12 | LIVE CENTER                            | Morse                              | M3            | M4              | M5     | M5      | M5              | M5              | M5              | M5           | M5                | M5            |
| 13 | DRILL CHUCK WITH ARBOR                 | Drill diam. (mm)                   | 13            | 20              | 20     | 20      | 20              | 20              | 20              | 20           | 20                | 20            |

| N  | OPTIONAL ACCESSORY                     | SPECIFICATIONS                     | C10T C10TS | CU730 CU730RD | C10TM C10TMS    | C10TH C10THS    | C10T.10 C10TS.10 | C10T.12 C10TS.12 | CU800 CU800RD | CU1000 CU1000RD | CU1250 CU1250RD        | CU1410RD                 |
|----|--|------------------------------------|------------|---------------|-----------------|-----------------|------------------|------------------|---------------|-----------------|------------------------|--------------------------|
| 1  | 3-JAW SELF-CENTERING CHUCK             | Diameter (mm)                      | 315        | 315           | 400             | 400             | 500              | 500              | 500           | 500             | 500                    | 630                      |
| 2  | INDEPENDENT 4-JAW CHUCK                | Diameter (mm)                      | 600        | 600           | 760             | 760             | 580 Standard     | 630 Standard     | 760           | 1000            | 1000                   | 1250                     |
| 3  | FACE PLATE                             | Diameter (mm)                      | 600        | 600           | 760             | 760             | x                | x                | 760           | 1000            | 1000                   | No                       |
| 4  | FOLLOWE REST                           | Range (mm)                         | 15-200     | 20-200        | 20-200          | 20-200          | 20-200           | 20-200           | 80-300        | 80-300          | 80-300                 | 80-300                   |
| 5  | STEADY REST, SMALL SIZE                | Range (mm)                         | 15-200     | 20-200        | 20-200          | 50-250          | 20-200           | 20-200           | 50-300        | 50-300          | 50-300                 | 80-300                   |
| 6  | STEADY REST, BIG SIZE                  | Range (mm)                         | 180-430    | 180-430       | 180-430 200-520 | 220-450 420-620 | 180-430          | 180-430          | 270-520       | 270-520 480-720 | 50-300 480-720 700-950 | 270-520 470-720 700-1000 |
| 7  | TAPER TURNING ATTACHM.                 | +10°                               | Yes        | Yes           | Yes             | Yes             | Yes Standard     | Yes Standard     | Yes           | Yes             | Yes                    | Yes                      |
| 8  | ONE-POSITION LONG. STOP                |                                    | Yes        | Yes           | Yes             | Yes             | Yes              | Yes              | No            | No              | No                     | Yes                      |
| 9  | THREAD DIAL                            |                                    | Yes        | Yes           | Yes             | Yes             | Yes Standard     | Yes Standard     | Yes           | Yes             | Yes                    | No                       |
| 10 | DRIVE PLATE FOR SPINDLE NOSE DIN 55027 |                                    | Yes        | Yes           | Yes             | Yes             | No               | No               | No            | No              | No                     | No                       |
| 11 | SET OF LATHE DOGS                      | Ø20; Ø30; Ø40; Ø50; Ø60; Ø80; Ø100 | Full       | Full          | Full            | Full            | No               | No               | No            | No              | No                     | No                       |
| 12 | LIVE CENTER                            | Morse                              | M5         | M6            | M6              | M6              | M6               | M6               | M6            | M6              | M6                     | MK 7                     |
| 13 | DRILL CHUCK WITH ARBOR                 | Drill diam. (mm)                   | 20         | 20            | 20              | 20              | No               | No               | No            | No              | No                     | No                       |

Remarks : Yes = Available for this model; No = Not available for this model

Steady rest Ø720mm for lathe CU1000 - open type only

Steady rest Ø700-1000 for lathe CU1410RD - open type only

