

## MORI SEIKI Brand CNC Lathe (Chucker Type)

Model: NL2000/500 Mfg: 2005

Controller: MSX-850III (MELDAS)

S/No. NL201FI1405

### 《Specifications》

Swing over bed: 923 mm

Swing over cross slide: 755 mm

Max. turning diameter: 356 mm

Std. turning diameter: 275 mm

Max. turning length: 510 mm

Travel X: 260 Z: 590 mm

Spindle speed: 1,800 rpm (option)

Min. indexing: C: 0.001°

Through-spindle hole diameter:  $\phi$  73 mm

Spindle taper: JIS A2-6

Turret: 12 stations

Required floor space: 2,695 × 1,923 mm

Machine height: 2,120 mm

Machine weight: 5,400 kg

### 《Options》

8-inch 2-jaw solid hydraulic chuck (HOWA H024M8)

In-machine tool presetter

No tailstock

**1-4 NL2000/500, NL2000MC/500**

| 項目<br>Item                                     |                                                          | NL2000/500        | NL2000MC/500                                                                                |
|------------------------------------------------|----------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------|
| 能力・容量<br>Capacity                              | ベッド上の振り<br>Swing Over Bed                                | mm (in.)          | 923.8 <前カバーと干渉 : 579.8 ><br>923.8 (36.37) <Interference<br>With Front Cover: 579.8 (22.83)> |
|                                                | クロススライド上の振り<br>Swing Over Cross Slide                    | mm (in.)          | 755 (29.72)                                                                                 |
|                                                | 最大加工径<br>Max. Turning Diameter                           | mm (in.)          | 356 (14.02)                                                                                 |
|                                                | 標準加工径<br>Standard Turning Diameter                       | mm (in.)          | 275 (10.83)                                                                                 |
|                                                | 最大加工長さ<br>Max. Turning Length                            | mm (in.)          | 510 (20.27)                                                                                 |
|                                                | 棒材作業能力*1<br>Bar Work Capacity*1                          | mm (in.)          | 65 (2.56)                                                                                   |
| 移動量<br>Travel                                  | X 軸移動量<br>X-Axis Travel                                  | mm (in.)          | 260 (10.24)                                                                                 |
|                                                | Z 軸移動量<br>Z-Axis Travel                                  | mm (in.)          | 590 (23.23)                                                                                 |
| 第 1 主軸<br>Spindle 1                            | 主軸回転速度*2<br>Spindle Speed Range*2                        | min <sup>-1</sup> | 5000                                                                                        |
|                                                | 主軸変速レンジ数<br>Number of Spindle Speed Ranges               | 段<br>Step         | 2                                                                                           |
|                                                | 主軸端<br>Spindle Nose Type                                 |                   | JIS A <sub>2</sub> -6                                                                       |
|                                                | 主軸貫通穴径<br>Through-Spindle Hole Diameter                  | mm (in.)          | 73 (2.87)                                                                                   |
|                                                | 主軸の最小割出し角度<br>Min. Spindle Indexing Angle                | °                 | — 0.001                                                                                     |
|                                                | 主軸軸受内径<br>Spindle Bearing Inner Diameter                 | mm (in.)          | 120 (4.72)                                                                                  |
|                                                | 使用チャック<br>Chuck                                          |                   | 8 インチソリッド & ホロー<br>8" Solid Chuck & Hollow Chuck                                            |
| 刃物台<br>Turret                                  | 刃物台の形式<br>Turret Type                                    |                   | 12 角 [10 角]<br>12 Stations [10 Stations]                                                    |
|                                                | 刃物台の工具取付け本数<br>Turret Tool Mounting Capacity             | 本<br>Tools        | 12 [10]                                                                                     |
|                                                | 角バイトのシャンク部の高さ<br>Height of Angled Tool Shank Section     | mm (in.)          | 25 (1)                                                                                      |
|                                                | ボーリングバーのシャンク部の直径<br>Diameter of Boring Bar Shank Section | mm (in.)          | 50 [32] *3<br>50 (2) [32 (1.25)] *3                                                         |
| 刃物台<br>回転工具主軸<br>Turret Rotary<br>Tool Spindle | 回転工具主軸回転速度<br>Rotary Tool Spindle Rate                   | min <sup>-1</sup> | — 6000 [10000]                                                                              |
|                                                | 回転工具加工能力<br>Rotary Tool Machining Capacity               | mm (in.)          | —<br>ドリル : φ20<br>タップ : M16<br>Drill: φ20 (40.75)<br>Tap: Max. M16                          |

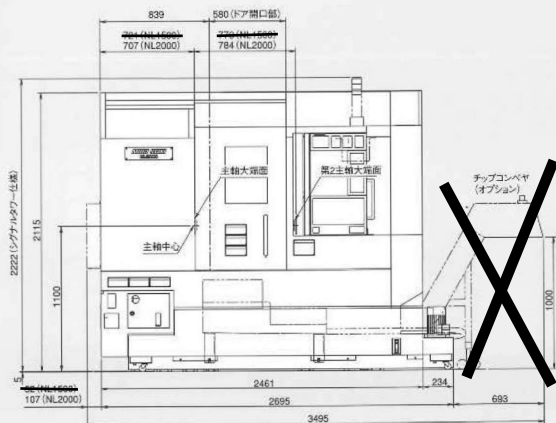
仕様

| 項目<br>Item             |                                                                                          | NL2000/500                                                                                   | NL2000MC/500        |
|------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------|
| 送り速度<br>Feedrates      | 早送り速度<br>Rapid Traverse Rate mm/min (ipm)                                                | X, Z: 30000、心押 : 7000<br>X, Z: 30000 (1181.10),<br>Tailstock: 7000 (275.59)                  |                     |
|                        | ジョグ送り速度<br>Jog Feedrate mm/min (ipm)                                                     | X, Z、心押 : 0 ~ 5000<br>X, Z, Tailstock: (0 to 196.85)                                         |                     |
| 心押台<br>Tailstock       | 心押台の移動量<br>Tailstock Travel mm (in.)                                                     | 564 (22.20)                                                                                  |                     |
|                        | 心押軸の直径<br>Tailstock Spindle Diameter mm (in.)                                            | 80 (3.15)                                                                                    |                     |
|                        | 心押軸のテーパ穴の形式<br>Tailstock Spindle Taper Hole                                              | MT4 <回転センタ><br>MT4 <Live Center>                                                             |                     |
|                        | 心押軸の移動量<br>Tailstock Spindle Travel mm (in.)                                             | —                                                                                            |                     |
|                        | 第1主軸用電動機 (30分/連続)<br>Spindle 1 Drive Motor (30 min./Continuous Rating) kW (HP)           | 15/11 (20.1/14.74)                                                                           |                     |
| 電動機<br>Motors          | 回転工具主軸用電動機 (5分/連続)<br>Rotary Tool Spindle Drive Motor (5 min./Continuous Rating) kW (HP) | —                                                                                            | 5.5/3.7 (7.37/4.96) |
|                        | 送り軸用電動機<br>Feed Motors kW (HP)                                                           | X, Z: 3.5 (4.69)                                                                             |                     |
|                        | 油圧用電動機<br>Hydraulic Pump Motor kW (HP)                                                   | 0.75 (1.01)                                                                                  |                     |
|                        | 潤滑用電動機<br>Lubricant Pump Motor kW (HP)                                                   | 0.02 (0.03)                                                                                  |                     |
|                        | クーラント用電動機<br>Coolant Pump Motor kW (HP)                                                  | 0.52 (0.70) <0.325 (0.44)>                                                                   |                     |
|                        | 冷却油用電動機<br>Oil Cooler Pump Motor kW (HP)                                                 | コンプレッサ : 0.5、循環ポンプ : 0.4<br>Compressor: 0.5 (0.67),<br>Circulating Pump: 0.4 (0.54)          |                     |
|                        | 所要動力源<br>Required Power/ Air Sources                                                     |                                                                                              |                     |
| タンク容量<br>Tank Capacity | 電源 (連続定格)<br>Electrical Power Supply (Continuous Rating) kVA                             | 18.6 [22.8]                                                                                  | 23.1 [26.8]         |
|                        | 空気圧源 *4<br>Compressed Air Supply *4 MPa (psi), L/min                                     | —                                                                                            |                     |
|                        | 油圧ユニットタンク容量<br>Hydraulic Oil Tank Capacity L (gal.)                                      | 10 (2.64)                                                                                    |                     |
|                        | 潤滑油タンク容量<br>Lubricant Tank Capacity L (gal.)                                             | 4 (1.06)                                                                                     |                     |
|                        | クーラントタンク容量<br>Coolant Tank Capacity L (gal.)                                             | 235 (62.04)                                                                                  |                     |
| 機械の大きさ<br>Machine Size | 冷却油温度コントローラタンク容量<br>Oil Temperature Controller Capacity L (gal.)                         | 10 (2.64)                                                                                    |                     |
|                        | 機械の高さ<br>Machine Height mm (in.)                                                         | 2120 (83.46)                                                                                 |                     |
|                        | 所要床面の大きさ<br>(チップコンベヤ含む)<br>Floor Space (Chip Conveyor Included) mm (in.)                 | 2695 <チップコンベヤ : +693 > × 1922<br>2695 (106.1) <Chip Conveyor: +693 (+27.3)><br>× 1922 (75.7) |                     |
|                        | 機械質量<br>Machine Mass kg (lb.)                                                            | 5300 (11660)                                                                                 | 5400 (11880)        |

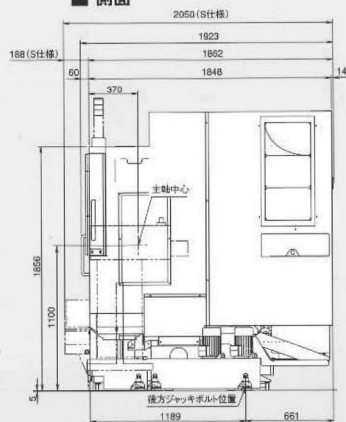
# 機械姿図 (NL1500・NL2000)

(単位: mm)

■ 正面



■ 側面



■ 平面

