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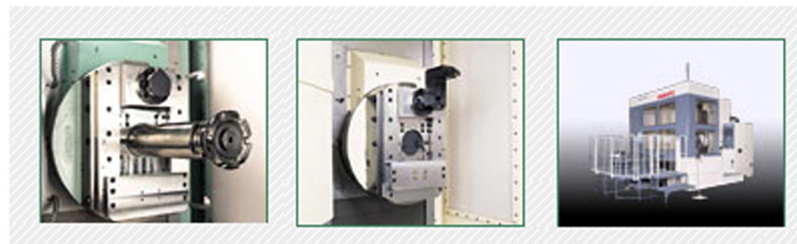
## Facing center model HN80D-II FC/100D-II FC/130D-II FC

| ITEM                               |                                    | HN80D-II FC            |                        | HN100D-II FC           |                        | HN130D-II FC           |                        |
|------------------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                    |                                    | Metric                 | Inch                   | Metric                 | Inch                   | Metric                 | Inch                   |
| TRAVEL<br>&<br>WORK CAPACITY       | X axis travel (longitudinal table) | 1530mm                 | 60.2"                  | 2030mm                 | 79.92"                 | 3050mm                 | 120.1"                 |
|                                    | Y axis travel (vertical head)      | 900mm                  | 35.4"                  | 1300mm                 | 51.1"                  | 1850mm                 | 76.8"                  |
|                                    | Z axis travel (column in & out)    | 1020mm                 | 40.2"                  | 1200mm                 | 47.24"                 | 1420mm                 | 55.9"                  |
|                                    | W axis travel (spindle quill)      | 300mm                  | 11.8"                  | 300mm                  | 11.8"                  | 300mm                  | 11.8"                  |
|                                    | U axis travel (facing slide)       | 130mm                  | 5.1"                   | 130mm                  | 5.1"                   | 130mm                  | 5.1"                   |
| TABLE                              | Table working surface              | 800 x 800mm            | 31.5 x 31.5"           | 1000 x 1000mm          | 39.37 x 39.37"         | 1320 x 1320mm          | 52.0 x 52.0"           |
|                                    | Table increments[OP]               | 1° [0.001°]            | 1° [0.001°]            | 1° [0.001°]            | 1° [0.001°]            | 0.001°                 | 0.001°                 |
|                                    | Maximum mass on pallet             | 2500 kg                | 5500 lbs               | 3500 kg<br>[5000kg]    | 7700lbs<br>[11000lbs]  | 8000kg<br>[10000kg]    | 17600lbs<br>[22000lbs] |
| SPINDLE                            | Spindle speeds                     | 2500min <sup>-1</sup>  | 2500rpm                | 2500min <sup>-1</sup>  | 2500rpm                | 2500min <sup>-1</sup>  | 2500rpm                |
|                                    | Spindle drive motor                | AC26/22kW              | AC35/30HP              | AC26/22kW              | AC35/30HP              | AC26/22kW              | AC35/30HP              |
|                                    | Spindle max. Torque                | 659.5Nm                | 487ft.lbs              | 659.5Nm                | 487ft.lbs              | 659.5Nm                | 487ft.lbs              |
|                                    | Facing head speeds                 | 600min <sup>-1</sup>   | 600rpm                 | 600min <sup>-1</sup>   | 600rpm                 | 600min <sup>-1</sup>   | 600rpm                 |
|                                    | Spindle taper                      | No.50                  | No.50                  | No.50                  | No.50                  | No.50                  | No.50                  |
| FEEDRATE                           | Rapid traverse X axis              | 32m/min                | 1260 ipm               | 20m/min                | 787 ipm                | 18m/min                | 709 ipm                |
|                                    | Rapid traverse Y axis              | 15m/min                | 591 ipm                | 15m/min                | 591 ipm                | 12m/min                | 472 ipm                |
|                                    | Rapid traverse Z axis              | 20m/min                | 787 ipm                | 15m/min                | 591 ipm                | 12m/min                | 472 ipm                |
| AUTOMATIC<br>TOOL CHANGER<br>(ATC) | Tool magazine capacity             | 62<br>[88/128/175/255] | 62<br>[88/128/175/255] | 62<br>[88/128/175/255] | 62<br>[88/128/175/255] | 62<br>[88/128/175/255] | 62<br>[88/128/175/255] |
|                                    | N/A                                | N/A                    | N/A                    | N/A                    | N/A                    | N/A                    | N/A                    |
| MAXIMUM WORK<br>PIECE              | Swing diameter inside machine      | φ1750mm                | φ68.9"                 | φ2300mm                | φ90.6"                 | φ3200mm                | φ126.0"                |
|                                    | Height                             | 1400mm                 | 55.1"                  | 1850mm                 | 72.8"                  | 3000mm                 | 118.1"                 |

Figures in [ ] indicate optional features.

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### Bar spindle model HN80D-II BAR/100D-II BAR/130D BAR

| ITEM                         |                                    | HN80D-II BAR             |                          | HN100D-II BAR            |                          | HN130D-BAR               |                          |
|------------------------------|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                              |                                    | Metric                   | Inch                     | Metric                   | Inch                     | Metric                   | Inch                     |
| TRAVEL & WORK CAPACITY       | X axis travel (longitudinal table) | 1530mm                   | 60.2 "                   | 2030mm                   | 79.92"                   | 3050mm                   | 120.1 "                  |
|                              | Y axis travel (vertical head)      | 1100mm                   | 43.3 "                   | 1500mm                   | 59.06"                   | 2050mm                   | 80.7 "                   |
|                              | Z axis travel (column in & out)    | 1020mm                   | 40.2 "                   | 1200mm                   | 47.24"                   | 1420mm                   | 55.9 "                   |
|                              | W axis travel (bar in&out)         | 535mm                    | 21.1 "                   | 535mm                    | 21.1 "                   | 535mm                    | 21.1 "                   |
| TABLE                        | Table working surface              | 800 x 800 mm             | 31.5 x 31.5 "            | 1000 x 1000 mm           | 39.37 x 39.37"           | 1320 x 1320 mm           | 52.0 x 52.0 "            |
|                              | Table increments                   | 1° [0.001°]              | 1° [0.001°]              | 1° [0.001°]              | 1° [0.001°]              | 0.001°                   | 0.001°                   |
|                              | Maximum mass on pallet             | 2500 kg                  | 5500 lbs                 | 3500 kg                  | 7700 lbs                 | 8000 kg                  | 17600 lbs                |
| SPINDLE                      | Spindle speeds                     | 3500min <sup>-1</sup>    | 3500rpm                  | 3500min <sup>-1</sup>    | 3500rpm                  | 3500min <sup>-1</sup>    | 3500rpm                  |
|                              | Spindle drive motor                | AC30/22kW<br>[AC45/37kW] | AC40/30HP<br>[AC60/50kW] | AC30/22kW<br>[AC45/37kW] | AC40/30HP<br>[AC60/50kW] | AC30/22kW<br>[AC45/37kW] | AC40/30HP<br>[AC60/50kW] |
|                              | Spindle max. Torque                | 1836Nm                   | 1354ft.lbs               | 1836Nm                   | 1354ft.lbs               | 1836Nm                   | 1354ft.lbs               |
|                              | Spindle taper                      | No.50                    | No.50                    | No.50                    | No.50                    | No.50                    | No.50                    |
| FEEDRATE                     | Rapid traverse X axis              | 32m/min                  | 1260 ipm                 | 20m/min                  | 787 ipm                  | 18m/min                  | 709 ipm                  |
|                              | Rapid traverse Y,Z axis            | 20m/min                  | 787 ipm                  | 20m/min                  | 787 ipm                  | 12m/min                  | 472 ipm                  |
| AUTOMATIC TOOL CHANGER (ATC) | Tool magazine capacity             | 62<br>[88/128/175/255]   | 62<br>[88/128/175/255]   | 62<br>[88/128/175/255]   | 62<br>[88/128/175/255]   | 62<br>[88/128/175/255]   | 62<br>[88/128/175/255]   |
|                              | Matrix type ATC                    | N/A                      | N/A                      | N/A                      | N/A                      | [126/178/230/308]        | [126/178/230/308]        |
| MAXIMUM WORK PIECE           | Swing diameter inside machine      | φ1750mm                  | φ68.9"                   | φ2300mm                  | φ90.6"                   | φ3200mm                  | φ126.0"                  |
|                              | Height                             | 1400mm                   | 55.1"                    | 1850mm                   | 72.8"                    | 3000mm                   | 118.1"                   |

Figures in [ ] indicate optional features.

