

# NC-rotary tables fast turning for drilling and turning applications

| Type   |                     | RTA 3TD<br>300 | RTA 3TD<br>400 | RTA 3TD<br>520 | RTA 4TD<br>520/630 |                     | RTA 4TD<br>800 | RTA 5TD<br>850                   | RTA 5TD<br>1000                  | RTA 5TD<br>1250                  | RTA 6TD<br>1600/1800 |
|--|---------------------|----------------|----------------|----------------|--------------------|---------------------|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------|
| <b>Base</b>  |                     |                |                |                |                    |                     |                |                                  |                                  |                                  |                      |
| Face plate   | [mm]                | 300            | 400            | 520            | 520 / 630          | [mm]                | 800            | 850                              | 1000                             | 1250                             | 1600 / 1800          |
| Weight   | [kg]                | 340            | 380            | 430            | 530 / 595          | [kg]                | 725            | 840                              | 1000                             | 1650                             | 4160 / 4560          |
| Centre height<br>(horizontal rotation axis)  | [mm]                | 250            | 250            | 280            | 280 / 330          | [mm]                | -              | -                                | -                                | -                                | -                    |
| Overall height<br>(vertical rotation axis)   | [mm]                | 335            | 335            | 335            | 380                | [mm]                | 380            | 170 (from flange<br>plate) / 470 | 170 (from flange<br>plate) / 470 | 170 (from flange<br>plate) / 470 | 570                  |
| Max. table inside diameter   | [mm]                | 80             | 80             | 80             | 110                | [mm]                | 110            | 200                              | 200                              | 200                              | 200                  |
| Accuracy measuring system <sup>3</sup><br>(absolute)   | ["]                 | ± 5            | ± 5            | ± 5            | ± 5                | ["]                 | ± 5            | ± 3                              | ± 3                              | ± 3                              | ± 1                  |
| Max. operating pressure  | [bar]               | 43             | 43             | 43             | 43                 | [bar]               | 43             | 43                               | 43                               | 43                               | 60                   |
| <b>Torque</b>  |                     |                |                |                |                    |                     |                |                                  |                                  |                                  |                      |
| Max. torque<br>(by main drive)   | [Nm]                | 500            | 500            | 500            | 700                | [Nm]                | 700            | 2000                             | 2000                             | 2000                             | 3000                 |
| <b>Torque curve</b>  |                     |                |                |                |                    |                     |                |                                  |                                  |                                  |                      |
| For 0 rpm  | [Nm]                | 500            | 500            | 500            | -                  | [Nm]                | -              | -                                | -                                | -                                | -                    |
| For 300 rpm  | [Nm]                | 250            | 250            | 250            | -                  | [Nm]                | -              | -                                | -                                | -                                | -                    |
| For 500 rpm  | [Nm]                | 80             | 80             | 80             | -                  | [Nm]                | -              | -                                | -                                | -                                | -                    |
| For 0 rpm  | [Nm]                | -              | -              | -              | 700                | [Nm]                | 700            | -                                | -                                | -                                | -                    |
| For 300 rpm  | [Nm]                | -              | -              | -              | 500                | [Nm]                | 500            | -                                | -                                | -                                | -                    |
| For 350 rpm  | [Nm]                | -              | -              | -              | 300                | [Nm]                | 300            | -                                | -                                | -                                | -                    |
| From 0 to 150 rpm  | [Nm]                | -              | -              | -              | -                  | [Nm]                | -              | 2000                             | 2000                             | 2000                             | 3000                 |
| For 250 rpm  | [Nm]                | -              | -              | -              | -                  | [Nm]                | -              | -                                | -                                | -                                | 1500                 |
| For 300 rpm  | [Nm]                | -              | -              | -              | -                  | [Nm]                | -              | 1000                             | 1000                             | 1000                             | -                    |
| Max. tangential moment<br>(by hydraulic clamping)  | [Nm]                | 4000           | 4000           | 4000           | 6000               | [Nm]                | 6000           | 10000                            | 10000                            | 10000                            | 20000                |
| <b>Positioning operation</b>   |                     |                |                |                |                    |                     |                |                                  |                                  |                                  |                      |
| Max. loading<br>(with vertical rotation axis <sup>1</sup> )  | [kg]                | 800            | 800            | 800            | 1500               | [kg]                | 1500           | 3000                             | 3000                             | 3000                             | 5000                 |
| Max. loading<br>(with horizontal rotation axis <sup>1</sup> )  | [kg]                | 300            | 300            | 300            | 800                | [kg]                | -              | -                                | -                                | -                                | -                    |
| Permitted mass moment of inertia<br>(consisting of workpiece,<br>equipment and face plate <sup>2</sup> ) | [kgm <sup>2</sup> ] | 80             | 80             | 80             | 300                | [kgm <sup>2</sup> ] | 300            | 1000                             | 1000                             | 1000                             | 2500                 |
| Max. speed range   | [rpm]               | 20             | 20             | 20             | 20                 | [rpm]               | 20             | 20                               | 20                               | 20                               | 10                   |
| <b>Turning operation</b>   |                     |                |                |                |                    |                     |                |                                  |                                  |                                  |                      |
| Max. loading<br>(with vertical rotation axis <sup>1</sup> )  | [kg]                | 250            | 250            | 250            | 500                | [kg]                | 500            | 1500                             | 1500                             | 1500                             | 2500                 |
| Max. loading<br>(with horizontal rotation axis <sup>1</sup> )  | [kg]                | 150            | 150            | 150            | 250                | [kg]                | -              | -                                | -                                | -                                | -                    |
| Permitted mass moment of inertia<br>(consisting of workpiece,<br>equipment and face plate <sup>2</sup> ) | [kgm <sup>2</sup> ] | 20             | 20             | 20             | 80                 | [kgm <sup>2</sup> ] | 80             | 300                              | 300                              | 300                              | 1500                 |
| Max. speed range   | [rpm]               | 500            | 500            | 500            | 350                | [rpm]               | 350            | 300                              | 300                              | 300                              | 250                  |

<sup>1</sup> Permitted transport weight also limited by installation situation, machine and kind of application

<sup>2</sup> Adaptation of acceleration and speed parameter dependent on mass moment of inertia

For all specifications centred, balanced loading is required!

<sup>3</sup> Other measuring system accuracies on request!