

# ROBODRILL $\alpha$ -D21LiB5ADV Plus Mechanical specifications



| ROBODRILL $\alpha$ - D21LiB5ADV Plus                                       |             |  |                 |
|----------------------------------------------------------------------------|-------------|--|-----------------|
| Travel X/Y/Z                                                               | mm          |  | 700 x 400 x 400 |
| Table size                                                                 | mm          |  | 850 x 410       |
| Max. table load                                                            | kg          |  | 400             |
| Machine mass/with DDR-TiB                                                  | t           |  | 2.3/2.5         |
| Max. tool length (0–24,000 rpm)                                            | mm          |  | 250             |
| Max. tool diameter                                                         | mm          |  | 80              |
| Max. tool mass (0–24,000 rpm)                                              | kg          |  | 4               |
| Total mass                                                                 | kg          |  | 30              |
| Number of tools                                                            |             |  | 21              |
| Spindle holder BT30/SK30 DIN 69871A                                        |             |  | ○               |
| Spindle holder BBT30                                                       |             |  | ●               |
| Distance from spindle nose to table (with HC200)                           | mm          |  | 280-680         |
| Controller                                                                 |             |  | 31i-B5 Plus     |
| Spindle speed                                                              | rpm         |  | 10000   24000   |
| Spindle load 10,000 rpm (1 min)                                            | Nm   kW     |  | 80   14.2       |
| Spindle load 10,000 rpm (continuous operation)                             | Nm   kW     |  | 13.6   4        |
| Spindle load 24,000 rpm (1 min)                                            | Nm   kW     |  | 35   26         |
| Spindle load 24,000 rpm (continuous operation)                             | Nm   kW     |  | 7.5   5.5       |
| Rapid traverse in all axes                                                 | m/min       |  | 54              |
| Maximum programmable cutting feed                                          | mm/min      |  | 30000           |
| Acceleration X/Y/Z [G] (100kg table load, 2kg-tool)                        |             |  | 1.4/1.0/1.6     |
| Tool change time [2 kg-tool] (cut to cut)                                  | s           |  | 1.3             |
| Bidirectional accuracy of positioning of an axis (ISO230-2:1988)           | mm          |  | < 0.006         |
| Bidirectional repeatability of positioning of an axis (ISO230-2:1997,2006) | mm          |  | < 0.004         |
| Air pressure consumption                                                   | L/min   Mpa |  | 160   0.35–0.55 |
| - Not available      ● Available      ○ Optional                           |             |  |                 |

# ROBODRILL $\alpha$ -D21LiB5Adv Plus Dimensions

