

| Item  | Unit                     | VB-14 Series  |      |      | VB-18 Series                |      |  |       |                            | VB-21 Series              |                           |       | VB-24 Series              |  |       | VB-28 Series               |   |       |       | VB-32 Series   |       |       |       | VB-36 Series   |       |       | VB-42 Series |       |       |
|---|--------------------------|---|------|------|-----------------------------|------|--|-------|----------------------------|---------------------------|---------------------------|-------|---------------------------|--|-------|----------------------------|---|-------|-------|----------------|-------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| Model   | VB-                      | 1422  | 1427 | 1432 | 1822                        | 1827 | 1832   | 1842  | 1852                       | 2132                      | 2142                      | 2152  | 2432A                     | 2442A                                    | 2452A | 2832                       | 2842  | 2852  | 2860  | 3232           | 3242  | 3252  | 3260  | 3642           | 3652  | 3660  | 4242         | 4252  | 4260  |
| Distance between Columns (without splash guard) | mm                       | 1400  |      |      | 1850                        |      |  |       |                            | 2150                      |                           |       | 2450                      |  |       | 2850                       |   |       |       | 3250           |       |       |       | 3650           |       |       | 4250         |       |       |
| Table Size                                      | Length                   | 2000  | 2500 | 3000 | 2000                        | 2500 | 3000   | 4000  | 5000                       | 3000                      | 4000                      | 5000  | 3000                      | 4000                                     | 5000  | 3000                       | 4000  | 5000  | 6000  | 3000           | 4000  | 5000  | 6000  | 4000           | 5000  | 6000  | 4000         | 5000  | 6000  |
|   | Width                    | 1300  |      |      | 1500                        |      |  |       |                            | 1800                      |                           |       | 2000                      |  |       | 2200                       |   |       |       | 2600           |       |       |       | 3000           |       |       |              |       |       |
| Maximum Table Load                              | ton                      | 8   | 9    | 10   | 12                          | 13   | 15   | 18    | 20                         | 15                        | 18                        | 20    | 15                        | 18                                       | 20    | 18                         | 18  | 20    | 22    | 18             | 18    | 20    | 22    | 20             | 22    | 24    | 20           | 22    | 24    |
| T-slot  | Width x Pitch x No.      | 22 x 150 x 7  |      |      | 22 x 150 x 9                |      |  |       |                            | 22 x 150 x 11             |                           |       | 22 x 150 x 13             |  |       | 28 x 180 x 11              |   |       |       | 28 x 2000 x 13 |       |       |       | 28 x 2000 x 15 |       |       |              |       |       |
| Travel  | X - axis                 | 2200  | 2700 | 3200 | 2200                        | 2700 | 3200   | 4200  | 5200                       | 3200                      | 4200                      | 5200  | 3200                      | 4200                                     | 5200  | 3200                       | 4200  | 5200  | 6000  | 3200           | 4200  | 5200  | 6000  | 4200           | 5200  | 6000  | 4200         | 5200  | 6000  |
|   | Y - axis                 | 1300  |      |      | 1800                        |      |  |       |                            | 2100                      |                           |       | 2400                      |  |       | 2800                       |   |       |       | 3200           |       |       |       | 3600           |       |       | 4200         |       |       |
|   | Z - axis                 | 800   |      |      | 800 (Optional 1100)         |      |  |       |                            | 800 (Optional 1100)       |                           |       | 1100 (Optional 1400)      |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Spindle   | Nose to table            | 100 ~ 900   |      |      | 200 ~ 1000<br>(200 ~ 1300)  |      | 100 ~ 900<br>(100 ~ 1200)                              |       | 200 ~ 1000<br>(200 ~ 1300) |                           | 100 ~ 900<br>(100 ~ 1200) |       | 100 ~ 900<br>(100 ~ 1200) |  |       | 300 ~ 1400<br>(300 ~ 1700) |   |       |       |                |       |       |       |                |       |       |              |       |       |
|   | Center to Column         | 380   |      |      | 430                         |      |  |       |                            | 430                       |                           |       | 430                       |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
|   | Taper / Speed / Power    | RPM / kW  |      |      | BT50 / 6,000 - 18.5K / 22kW |      |  |       |                            | BT50 / 6,000 - 22K / 26kW |                           |       |                           |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Feedrate  | Cutting                  | mm/min  |      |      | 5 ~ 12,000                  |      |  |       |                            | 5 ~ 10,000                |                           |       |                           |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
|   | X - axis G00             | 24  | 22   | 22   | 24                          | 22   | 20   | 18    | 15                         | 20                        | 18                        | 15    | 20                        | 18                                       | 15    | 15                         | 12  | 10    | 10    | 15             | 12    | 10    | 10    | 12             | 10    | 10    | 12           | 10    | 10    |
|   | Y / Z - axis G00         | m/min   |      |      | 24/20                       |      |  | 20/15 |                            |                           | 15/15                     |       |                           | 12/15                                    |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Accuracy (JIS 6338)                             | mm                       | Positioning ±0.015 / full travel; Repeatability ±0.003                          |      |      |                             |      | Positioning ±0.015 / full travel; Repeatability ±0.003 |       |                            |                           |                           |       |                           |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| ATC & Tool Magazine                             | Capacity / Dia           | Cam type ATC 24pcs / Max. Dia. Ø110 (full tools); Ø200 (adjascent pocket empty) |      |      |                             |      |  |       |                            |                           |                           |       |                           | Cam type ATC 24pcs                       |       |                            | Chain type ATC 32pcs / Max. Dia. Ø125 (full tools); Ø220 (adjascent pocket empty) |       |       |                |       |       |       |                |       |       |              |       |       |
|   | Max tool weight / Length | Kg/mm   |      |      |                             |      |  |       |                            |                           |                           |       |                           | 18kg / 350mm                             |       |                            | 20kg / 400mm  |       |       |                |       |       |       |                |       |       |              |       |       |
|   | Tool selection           | Take shortest direction / M24 P3.0 - 45°  |      |      |                             |      |  |       |                            |                           |                           |       |                           | Take shortest direction / M24 P3.0 - 45° |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Power / Pneumatic                               |                          | 40 ~ 50 KVA / 6.5 kg/cm <sup>2</sup>  |      |      |                             |      |  |       |                            |                           |                           |       |                           | 50 ~ 60 KVA / 6.5 kg/cm <sup>2</sup>     |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Machine Size                                    | Length                   | 6400  | 7400 | 8400 | 6400                        | 7400 | 8400   | 11100 | 13100                      | 8400                      | 11100                     | 13100 | 8400                      | 11100                                    | 13100 | 9400                       | 11400   | 13400 | 15400 | 9400           | 11400 | 13400 | 15400 | 11400          | 13400 | 15400 | 11400        | 13400 | 15400 |
|   | Width                    | 3450  |      |      | 4550                        |      |  |       |                            | 4850                      |                           |       | 5150                      |  |       | 6000                       |   |       |       | 6400           |       |       |       | 7400           |       |       |              |       |       |
|   | Height                   | 4050  |      |      | 4570 (5470)                 |      |  |       |                            | 5500 (6400)               |                           |       |                           |  |       |                            |   |       |       |                |       |       |       |                |       |       |              |       |       |
| Machine Weight (app.)                           | ton                      | 20  | 22   | 25   | 25                          | 28   | 32   | 38    | 43                         | 33                        | 38                        | 43    | 35                        | 42                                       | 45    | 47                         | 52  | 57    | 62    | 50             | 55    | 60    | 65    | 58             | 63    | 68    | 63           | 68    | 73    |