**SB-20R TYPE G**

**INFORMATION**

The SB-20R Type G offers impressive machining versatility within a compact footprint. The SB series main spindle platen includes six turning tools, two fixed high-speed ER11 spindles for cross working plus a further three modular cross power driven stations that accept a variety of cartridge attachments.

The flexibility of the SB-20R Type G is further enhanced by its ability to switch between guide bush mode (Swiss type) and non-guide bush mode.

The fully independent sub-spindle with C axis control coupled with driven tool capability across all four back working stations further enhances the machining capability of the SB series.



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| **WORKPIECE** |
| DIAMETER | Diameter | 20MM / 22.2MM (OPT) |
| LENGTH | Length | 205MM / 50MM |
| GEOMETRY |  | Geometry |
| C AXIS | C Axis | MAIN + SUB SPINDLE |

**BENEFITS**

* Standard machining diameter 20mm (22.2mm optional)
* Maximum Z1 stroke of 205mm in Swiss mode (Guide Bush)
* Switchable between guide bush and non-guide bush modes
* Main spindle speed 10,000 rpm, sub-spindle speed 9,000 rpm
* C-axis control on main and sub spindles
* Up to 7 power tools on main spindle
* 4 Back-working power tools available
* Fully independent sub spindle for maximum overlapping
* 3 Modular (cartridge) stations on main platen

[DOWNLOAD FULL SPECIFICATION](https://stargb.com/wp-content/uploads/2016/04/SB-20RG.pdf)[STAR TOOLING](http://star-tools.eu/halter/ergebnis/en?schnellsuche=1&SchnellsucheFirmen=63&SchnellsucheMaschinen=942&P01=)[STAR TV CASE STUDIES](https://stargb.com/tv)[SEND AN ENQUIRY](https://stargb.com/contact/#gitb)

**SPECIFICATION**

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| **MAIN SPINDLE SIDE** |
| NUMBER OF AXES | 7 |
| MAIN SPINDLE (HEADSTOCK) | Z1 / C1 AXIS |
| MAIN SPINDLE PLATEN | X1 / Y1 AXIS |
| MAX. MACHINING DIAMETER | 20 MM / 22.2 MM (OPTION) |
| HEADSTOCK STROKE (SWISS TYPE / NGB MODE) | 205 MM / 50 MM |
| MAIN SPINDLE POWER | 3.7 KW |
| MAIN SPINDLE SPEED | 10,000 RPM |
| MAIN SPINDLE TOOLING |  |
| TURNING TOOL | 6 TOOLS @ 12 MM SQ |
| DRILLING ARM SLEEVE HOLDER CAPACITY | 4 X Ø 22 MM SLEEVES (ER16) |
| POWER DRIVEN TOOL (PDT) POSITIONS | 2 + 3 MODULAR STATIONS |
| MAX (PDT) SPEED | 10,000 RPM (ER11) / 6,000 RPM (ER16) |
| **KINEMATIC DIAGRAM** |
| Star SB-20R Type G - Kinematic Diagram |

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| **SUB SPINDLE SIDE** |
| SUB SPINDLE | X2 / Z2 / C2 AXIS |
| MAX. CHUCKING DIAMETER | 20 MM / 22.2 MM (OPTION) |
| SUB SPINDLE POWER | 1.1 KW |
| SUB SPINDLE SPEED | 9,000 RPM |
| SUB SPINDLE TOOLING |  |
| BACK-WORKING PLATEN POSITIONS | 4 |
| MAX DRILL SLEEVE CAPACITY | ER16 |
| POWER DRIVEN TOOL (PDT) POSITIONS | 4 (ER16) |
| MAX (PDT) SPEED | 8,000 RPM |
| **FMB** | **BAR FEED DIMENSION A (MM)** |
| MICROMAG 08-20 | 3415 (1.6M) | 5015 (3.2M) | 6015 (4.2M) |
| MINIMAG 2-20 | 3415 (1.6M) | 5015 (3.2M) | 6015 (4.2M) |
| TURBO 2-20 | 3215 (2.2M) | 4215 (3.2M) | 5215 (4.2M) |
| TURBO 3-36 | 3320 (2.2M) | 4320 (3.2M) | 5320 (4.2M) |



**MORE INFORMATION**