## MACHINE SPECIFICATIONS

## SPACE GEAR 510 Mark II

| 3D Specifications |  | 2.5 kW | 4.0kW |
| :---: | :---: | :---: | :---: |
| Machine Structure |  | Hybrid |  |
| Maximum Workpiece Dimensions |  | 60.04 in $\times 120.08$ in (flat plate) / 46.26 in $\times 106.69$ in $\times 11.81$ in (solid) |  |
| Maximum Workpiece Weight |  | 1,543 lb | 1,785 lb |
| Machine Travels | $X$ axis | 120.87 in |  |
|  | Yaxis | 60.83 in |  |
|  | Z axis | 11.81 in |  |
|  | A axis | +/-360 degrees |  |
|  | $B$ axis | +/-135 degrees |  |
|  | Caxis | +/-360 degrees |  |
| Work Table Height |  | 35.43 in |  |
| Maximum Material Thickness * | Mild Steel | 0.750 in | 0.875 in |
|  | Stainless Steel | 0.312 in | 0.375 in |
|  | Aluminum | 0.250 in | 0.375 in |
| Motion Drive System Design | $X, Y$ axis | Ball Screw Drive |  |
|  | Z axis | Ball Screw Drive |  |
| Number of Control Axes |  | 6 |  |
| Rapid Travel Speed | $X, Y, Z$ axis | 944.68 ipm |  |
|  | $A, B$ axis | 9,600 degrees/min |  |
|  | Caxis | 12,000 degrees/min |  |
| Positioning Accuracy | $X, Y$ axis | 0.0004 in/19.68 in |  |
| Repeatable Accuracy | $X, Y, Z$ axis | 0.0002 in |  |
|  | $A, B, C$ axis | +/-0.01 degrees |  |
| Maximum Processing Feedrate | $X, Y$ axis | 591 ipm |  |
| Total Electrical Requirement |  | 59.9 kVA | 82.9 kVA |
| Installation Dimensions | WxD | 383 in $\times 196$ in |  |
| Machine Unit Dimensions | WxDxH | 302.2 in $\times 113.2$ in $\times 90.6$ in |  |
| Machine Unit Weight |  | 32,187 lb |  |
| CNC Type |  | Mazak FX |  |
| CPU |  | 64 bit |  |
| Display Screen |  | 15 in Color Liquid-Crystal Display |  |
| Memory Capacity |  | 2 MB |  |
| Position Detection System |  | Encoder |  |
| Minimum Command Unit |  | 0.0001 in/0.001 degree |  |

* Material cutting thickness is dependent on many factors including material specifications, condition and machine parameters.

All specifications are subject to change.

