

## V-FSWC1060 HIGH-PERFORMANCE FRICTION STIR WELDING UNIT

## **STIR**TEC

## **Specifications**

The Stirtec V-FSWC1060 is seen as high-productive Friction Stir Welding center following the production of application within the automotive industry for midsize battery systems for PHEV and cooling system e.g. heat sinks. The machine type of V-FSWC1060 is a globally unique solution that synthesizes latest FSW technology with upgradeable milling functionality in a single production center (Stirtec 2-in-1 concept).

- ▶ STIRlytics process software for 100% traceability
- ▶ FSW force and position control system for optimum welding results
- suitable for all aluminum alloys and die casting components
- automatic tool change system for 24 tool pockets
- upgradeable milling functionality in a single production center

| MACHINE INFORMATION                  |   |
|--------------------------------------|---|
| machine dimensions                   | 2750 x 2120 x 3100 mm                     |
| spindle orientation                  | vertical                                  |
| OPERATING TRAVELS (3-AXIS FSW UNIT)  |   |
| X-axis binder                        | 1016 mm                                   |
| Y-axis cross slide                   | 610 mm                                    |
| Z-axis slide ram                     | 760 mm                                    |
| FSW WELDING FORCES & FEED RATES      |   |
| max. welding force in Z-direction    | 11,5 kN; spindle rotation speed 6.000 rpm |
| rapid traverse in X, Y, Z-axes       | 40.000 mm/min                             |
| positioning accuracy in X, Y, Z-axes | 0,008 mm                                  |
| CONTROL SYSTEM                       |   |
| control system                       | SIEMENS 840D sl / Sinumerik one           |
| MACHINING TABLE (DIMENSIONS)         |   |
| table dimensions                     | 1270 x 590 mm                             |
|                                      |   |

