

THE SPIRIT OF EXPERTISE



# SIDANUS FIBRE

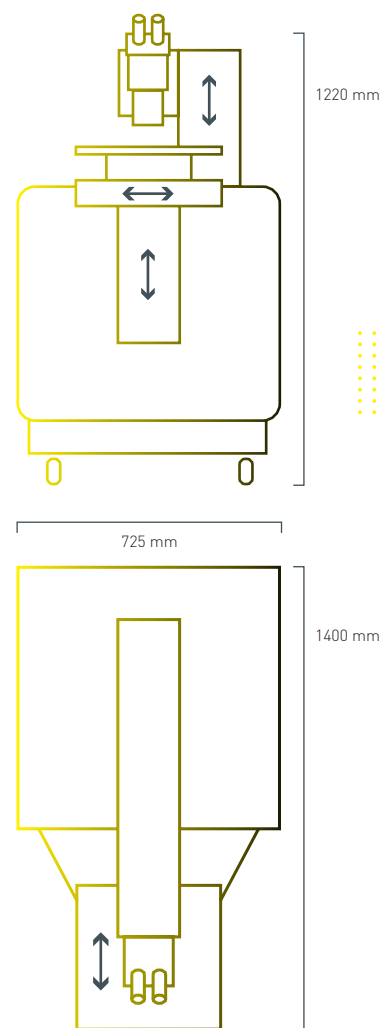
STATIONARY SYSTEMS WITH FIBRE LASER FROM 300 TO 450 WATT

These devices are compact, energy-efficient systems for machining components up to 250 kg and are ideal for continuous operation in industrial environments. Due to the modular structure, additional automation options can be retrofitted. The systems can thus be adapted to changing requirements at any time.



## SIDANUS FIBRE: TECHNICAL DATA

| Mittlere Leistung<br>Mean power                                                       | 300 W                                                                                                                                                                 | 450 W            |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Ytterbium-Faserlaser</b><br>Ytterbium fibre laser                                  | Wellenlänge 1070 nm Wavelength 1070 nm                                                                                                                                |                  |
| Max. Pulsenergie<br>Max. pulse energy                                                 | 30 J                                                                                                                                                                  | 45 J             |
| Betriebsmodus<br>Operating mode                                                       | cw / gepulst pulsed                                                                                                                                                   |                  |
| Pulsspitzenleistung<br>Pulse peak power                                               | 3 kW                                                                                                                                                                  | 4,5 kW           |
| Pulsdauer<br>Pulse duration                                                           | 0,05–50 ms                                                                                                                                                            | 0,05–50 ms       |
| Pulsfrequenz<br>Repetition rate                                                       | bis up to 100 Hz                                                                                                                                                      | bis up to 100 Hz |
| Fokus-Durchmesser<br>Focus diameter                                                   | 0,1–2,0 mm                                                                                                                                                            |                  |
| Fokus-Änderung<br>Beam expander                                                       | motorisch<br>motor-driven                                                                                                                                             |                  |
| Pulsformung<br>Pulse shaping                                                          | nein<br>no                                                                                                                                                            |                  |
| <b>Programmspeicher</b><br>Memory function                                            | 50 Speicherplätze (erweiterbar auf 100)<br>50 storage places (upgradeable to 100)                                                                                     |                  |
| <b>Beobachtungsoptik</b><br>Controlling optics                                        | Leica Binokular mit Brillenträgerokularen<br>Leica Binocular with large oculars                                                                                       |                  |
| <b>Gewicht</b><br>Weight                                                              | 300 kg                                                                                                                                                                |                  |
| <b>B × L × H</b><br>W × l × h                                                         | 725 × 1400 × 1220 mm                                                                                                                                                  |                  |
| <b>Verfahrweg (X, Y, Z)</b><br>Traverse path                                          | 200 × 200 × 300 mm<br>Tisch mit 250 kg Traglast<br>Erweiterbar auf X 400 mm und Y 200 mm<br>Table with 250 kg load capacity<br>Extendable up to X 400 mm and Y 200 mm |                  |
| <b>Maximal zu bearbeitende Bauteilhöhe</b><br>Maximum component height to be machined | 450 mm                                                                                                                                                                |                  |
| <b>Netzspannung</b><br>Supply voltage                                                 | 380 V / 3Ph / 50 Hz                                                                                                                                                   |                  |
| <b>Kühlsystem</b><br>Cooling system                                                   | Luft/Luft integriert<br>air/air intern                                                                                                                                |                  |



Schematic representation of the possible axis movements.