

# Operation guide



| TYPE  | MSR   |      |      |  |  |  |  |  |  |  |  |  |
|---|---|------|------|--|--|--|--|--|--|--|--|--|
| Features  | - Fast clamping range adjustment using the pin system |      |      |  |  |  |  |  |  |  |  |  |
| Clamping system                                       | mechanical  |      |      |  |  |  |  |  |  |  |  |  |
| Force amplification                                   | *   |      |      |  |  |  |  |  |  |  |  |  |
| Set-up options  | Base  |      |      |  |  |  |  |  |  |  |  |  |
| Machining centers with high working accuracy          | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| Universal milling machines with high working accuracy | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| Universal milling machines standard version           | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| Jig boring machines                                   |   |      |      |  |  |  |  |  |  |  |  |  |
| 5-axis machining                                      |   |      |      |  |  |  |  |  |  |  |  |  |
| Grinding machines                                     | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| Series production                                     | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| For limited space                                     | <input checked="" type="checkbox"/>                   |      |      |  |  |  |  |  |  |  |  |  |
| Jaw width mm  |   | 150  | 175  |  |  |  |  |  |  |  |  |  |
| Clamping range (max.)                                 |   | 300  | 400  |  |  |  |  |  |  |  |  |  |
| Length (opened) mm                                    |   | 587  | 701  |  |  |  |  |  |  |  |  |  |
| Width mm  |   | 125  | 145  |  |  |  |  |  |  |  |  |  |
| Height mm   |   | 100  | 118  |  |  |  |  |  |  |  |  |  |
| Clamping force (max.) kN                              |   | 50   | 60   |  |  |  |  |  |  |  |  |  |
| Weight kg   |   | 29,5 | 51,2 |  |  |  |  |  |  |  |  |  |
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\*Constant clamping force for each clamping process and high repeatability in combination with a torque wrench