Goniometers

Series TSW

Application: TSW goniometers are precision devices to orient a sample in a limited range, usually ±20° in the vertical plane. Each goniometer is designed in such a manner that when it is mounted on the next larger size the rotational axes of both goniometers have a common section point. Where several tables are combined they are fastened from top through the holes provided for this purpose. The attachment from the bottom by the clamping elements which are shown in the sketch (not contained in the scope of delivery), with the PWM 270/390 the attachment is also effected by fastening holes.

Resolution: 0.004° with transmission ratio 180:1; 0.002° with 360:1 each with 5 phase stepping motor in full step operation.

Load capacity: See “Load rating” in the table above. We are gladly prepared to calculate loads and lifetime for you.

Seal: Antifriction bearing and gear are covered by the protruding table plate.

Mounting position: Optional

Limit switches: Mechanical and inductive. Integrated in the table body, with adjustable control cams.

Load rating

| 60/106 | 450 | 60 | 106 | 110 | 130 | 75 | 142 | 80 | 34 | - | 34 | - | 10° | 4xM4 | B8 | 22 | 26 | 28,5 | 18,0 | 24 | 24 | M4 | -2 | 0,9 | 1,5 | 91031B | 91035H |
| 106/160 | 600 | 106 | 160 | 160 | 180 | 100 | 192 | 80 | 30 | 60 | 30 | 90 | 6° | 10° | 8xM5 | B8 | 22 | 26 | 28,5 | 19,0 | 24 | 24 | M4 | -2 | 1,5 | 2,5 | 91032B | 91036H |
| 160/270 | 3500 | 160 | 270 | 250 | 266 | 163 | 300 | 110 | - | 90 | - | 90 | 6° | 10° | 4xM8 | B8 | 24 | 52 | 40 | 34,0 | 50 | 32 | M4 | 16 | 24 | 27 | 91033B | 91037H |
| 270/390 | 4000 | 270 | 390 | 400 | 429 | 231 | 448 | 344 | 135 | 80 | 80 | 135 | - | 10° | 8xM8 | B8 | - | 38 | 69,5 | 18,5 | 26 | 45 | M5 | 10 | 42 | 47 | 91034B | 91038H |

Dimensions [mm], Weight [kg], Load rating [N], Moments [Nm]

Nominal dimensions A/B [mm] 60/106 106/160 160/270 270/390

- Load rating

Order number

- Weight

- without Motor

- with Motor

Further information: Technical information see page 83.