C+M TRAMEC AG
measuring and sorting machines for the bearing industry

MS Speedy

conveyor unit with orientation unit for taper rollers

measuring station front view

measuring station back view

For Roller dimension
Ø = 3-20 mm
L = 5-45 mm
α = 1°-9°

www.tramec.li
Liechtenstein
Machine Type CENSOR MS SPEEDY
For cylindrical, spherical and taper rollers and needles

Technical Data

<table>
<thead>
<tr>
<th>Working range</th>
<th>Standard Diameter</th>
<th>Length</th>
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<tbody>
<tr>
<td></td>
<td>3 - 20 mm</td>
<td>5 - 45 mm</td>
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<tr>
<td>Option</td>
<td>Angle for taper rollers 1°- 9°, (only for L&gt; 8mm)</td>
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Output
Up to 4 pieces /s depending on diam. and length of part

Number of Sorting Groups
7/13 / expandable to 19

Sorting programs
1L Ok,10 Dia OK, 3 Groups for parts out of range
2L OK, 6 Dia OK, 1 Group for parts out of range

For 7/19 Groups on request / any other program could be customized upon request

Accuracy
Measuring accuracy of system 0.1 μm

Tolerance Group range
Adjustable, variable from 0.5 μm in steps of 0.1 μm both for Ø and L

Please note: as measurement is between 2 points eventual errors of roundness have to be added! (Scatter at sorting group limits)

Set up time
approx. 15 min.

Power requirements
Power supply unit 230VAC; 50/60 Hz 24V/DC / 1.5 KW

Dimensions
approx. 1800x1800 mm, Height 1600 mm
Weight
approx 350 kg

Modules

Measuring Station
Standard 2 specially designed probe holders for diameter and length
Option 2 additional probe holders for measuring angle

Feeder Ø400mm
for cylindrical, spherical and taper rollers, capacity approx. 7 kg
specially developed for cylindrical, spherical and taper rollers, little vibration to avoid damage of rollers

Sorting Station
Rotary table with transport disc with flaps and opening/closing solenoids for each group
Dimension of channels 100(W) x350(L) x150(H)
System specially developed to avoid that falling rollers get damages on surface of rollers

Options:

Roll device
for orientation of taper rollers/for version with taper angle

Hopper
Volume 30/40/50 liters for extended autonomous operation

Control unit

Manual operation / set up:
• Calibration cycle
• Infinitely adjustable drives via touch screen functions
• All movements and functions can be triggered manually by operating the push buttons etc.

Automatic mode:
• Fully automatic sequence with all control functions.
• Operation by pre selecting «Operation mode AUTOMAT» _ «START/STOP»
• Value entering / display on control unit «Touch screen»:
• Conditions of counters: Preselection and rated values, total sum
• Error display: Text in clear, partly graphic
• Operation modes: Set sorting programmes
• Set up and test functions, notes, permanent display of output etc.