WITH THE SOCO FM SERIES FOR CHAMFERING + LENGTH MEASURING, IT IS POSSIBLE TO SIMULTANEOUSLY CHAMFER BOTH ENDS OF A TUBE, WITH UP TO 3000 MM IN WORKING LENGTH AND MEASURE THEIR LENGTHS WITH TOLERANCES AS LOW AS +/- 0.02 MM.

WITH AN OPTIONAL BTM (BUNDLE LOADING MAGAZINE), THE MACHINES OFFER A COMPLETELY AUTOMATIC LOADING, FEEDING, CHAMFERING AND LENGTH MEASURING PROCESSES.

USING AN ABSOLUTE LENGTH MEASURING SYSTEM (AGAINST A CALIBRATED PIECE), THE MACHINES MAY ALSO BE PROGRAMMED TO STOP AFTER A CERTAIN NUMBER OF PIECES DO NOT FALL WITHIN THE SPECIFIED LENGTH TOLERANCE.

THIS RANGE IS SUITABLE FOR A CLEAN AND EVEN CHAMFER ON BOTH ENDS OF THE TUBE, WITH CHAMFERING THE INSIDE + OUTSIDE (I/O) AND FACE OF THE MATERIAL OR MAKING A RADIUS (ROUND) CHAMFER THEN MEASURING ITS LENGTH. IT MAY ALSO BE USED FOR OUTSIDE CHAMFERING OF SOLID BARS (*).

FM-76V
AUTOMATIC CHAMFERING + LENGTH MEASURING FOR WORKING LENGTHS FROM 250MM ~ 3000MM AND CAPACITY UP TO Ø76MM. FULLY AUTOMATIC LOADING, FEEDING, CHAMFERING AND LENGTH MEASURING.
**FM Series Machine Features:**

**AUTOMATION**
- Fully automatic chamfering and Length Measuring system, with 2 types of loading magazine:
  - Rack – Sliding Magazine (Standard)
  - BTM – Bundle Loading Magazine (Optional)
- External and internal chamfering facing with length measuring in 1 process for both sides of the tube, with optional radius (round) chamfering
- Optional motorized length adjusting

**VERSATILITY AND RANGE**
- Working length can be as short as 250mm, and up to 3000mm
- Diameter ranges from 16mm ~ 76mm
- Programmable Rejection Rates – the operator may choose for the machine to stop after a certain number of pieces (continuous or separate) does not fall within the specified length tolerances.
- Suitable for Tube and Solid Bars, and materials such as steel, stainless. (with optional Speed Inverter)
- Ability to inside + outside (I/O) chamfer as deep as 15mm or angles as small as 15 degrees.
- Suitable for inside + outside (I/O) Chamfering, Facing, Centering, Deep Chamfering, Radius Chamfering and Length Measuring

**PERFORMANCE**
- Cycle Times as short as 6 seconds
- Patented feeding system for the work piece, ensuring a smooth process throughout
- The rigid tool seat has been designed for durability, with easily fixable tool bits for longer working life
- 2 steps chamfering process:
  - First step ---- Fast approach for time saving
  - Second step ---- Infinitely adjustable chamfering speed for smooth finish
- The length tolerance of each working piece can be controlled within +/- 0.05 mm ~ +/- 0.1 mm
- The length tolerance can be measured down to +/- 0.02 mm
- The “Walking Beam” system ensure that the work pieces are not damaged or scratched through the entire machining process.
- The machine bed’s heavy casting and head stock can absorb working vibrations, providing a continuous and stable operation

<table>
<thead>
<tr>
<th>Specifications / Model</th>
<th>FM-76V</th>
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<tbody>
<tr>
<td>Working Length (mm)</td>
<td>Standard 250 ~ 1000 (<strong>), Extension 250 ~ 2000 (</strong>), Extension 250 ~ 3000 (<strong>), 1. Tube : Ø16 ~ Ø76 (Wall Thickness : 3) 2. Solid Bar : Ø16 ~ Ø30 (</strong>*), Operation Interface: Push Buttons / Digital Counter, Feeding Way (Chamfering): Pneumatic (Hydraulic Type is Optional), Chamfering Tolerance (Length): +/- 0.1 mm, BTM (mm): #1) Ø16 ~ Ø26, #2) Ø18 ~ Ø32, #3) Ø24 ~ Ø46, #4) Ø40 ~ Ø57, #5) Ø50 ~ Ø76, Length Measuring Tolerance: +/- 0.02 mm, Pressured Air: 6~8 kg/cm², 120ml/min, Gross Weight (Kg): 1470, Dimension (mm): (L x W x H): 2560 x 1650 x 1800</td>
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</table>

(*) Depending on material's weight and tensile strength
(**) Optional Motorized Length Adjusting
(***) Optional Functions
Due to continuous improvements and designs; the manufacturer reserves the right to modify or make any changes of all models without notice.