

CHAMFERING + LENGTH MEASURING

FM SERIES

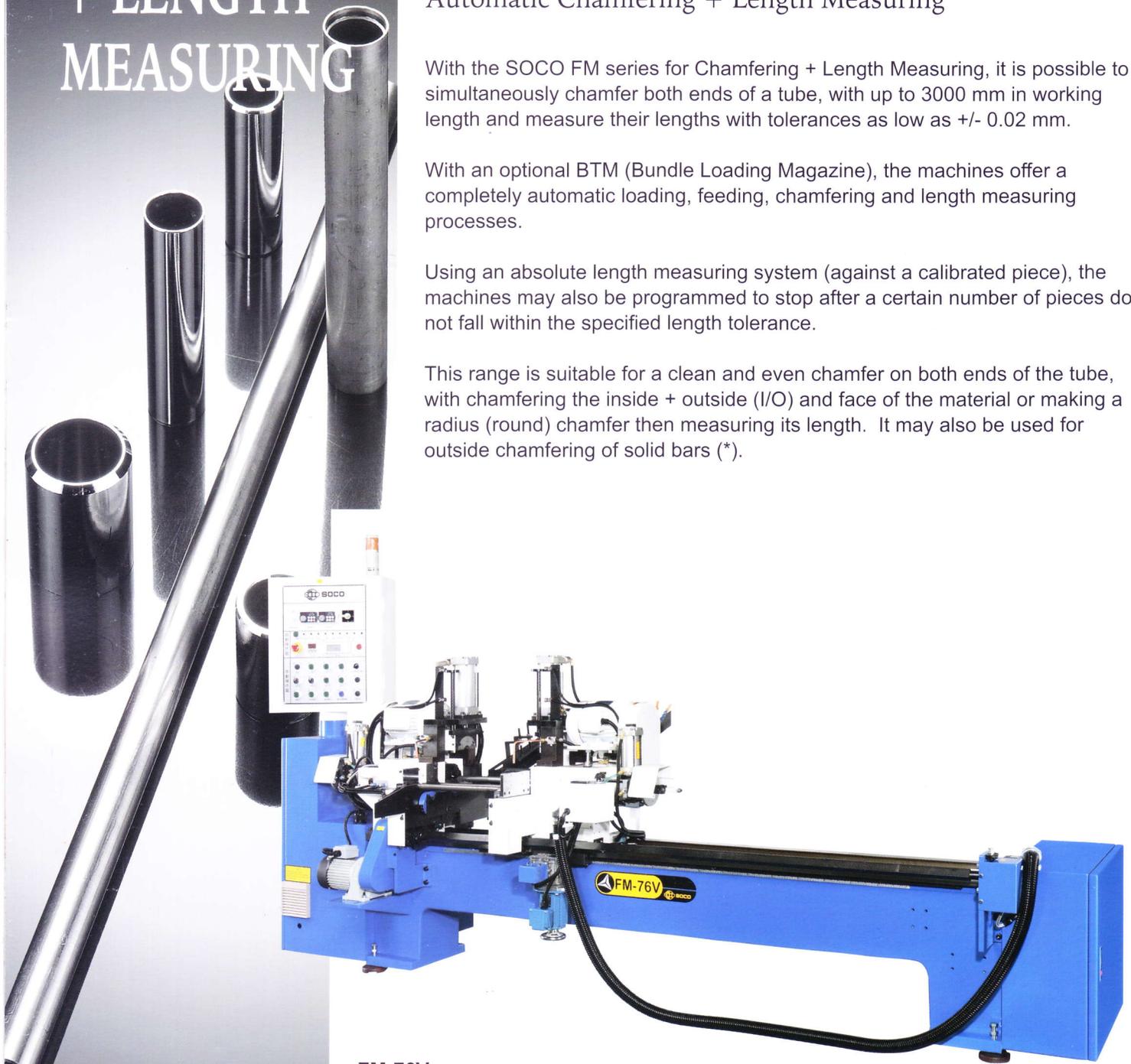
Double Tube Ends Chamfering + Length Measuring
Automatic Chamfering + Length Measuring

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.



• Optional Motorized Length Adjusting



• Chamfering + 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

Specifications / Model	FM-76V
Working Length (mm)	Standard 250 ~ 1000 (**) Extension 250 ~ 2000 (**) Extension 250 ~ 3000 (**)
Working Capacity (mm) (Mild Steel)	1. Tube : Ø16 ~ Ø76 (Wall Thickness : 3) 2. Solid Bar : Ø16 ~ Ø30 (***)
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/cm ² , 120ml/min
Gross Weight (Kg)	1470
Dimension (mm) (L x W x H)	2560 x 1650 x 1800

(*) 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.