



# BT 88 F

twister



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BT 88 F is a 4-axis twister specially developed for the Asian market to meet the increasing demand of high-output with low cost per-lead. With this highlighted feature, the productivity is significantly increased without any reduction in processing quality. In addition, the modular system structure and newly developed smart options like auto-positioning and compensation speed control, offer the maximum flexibility to adapt to the specific needs and optimize the usability.

## Highly productive with minimal manpower

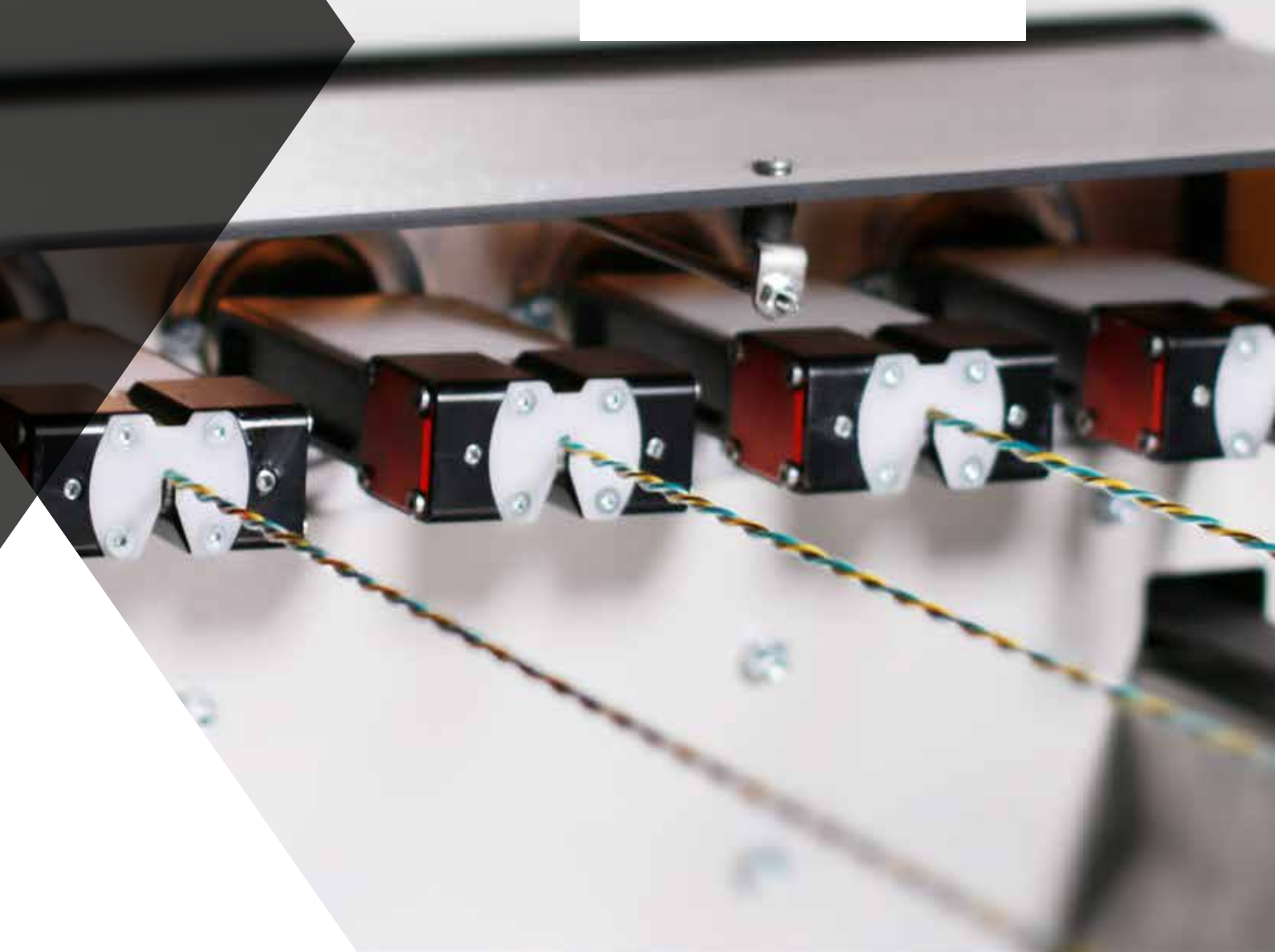
- Outstanding output thanks to 4 parallel twisting axis
- Only one operator needed for all kinds of wire length

## Increased usability by innovative set-up

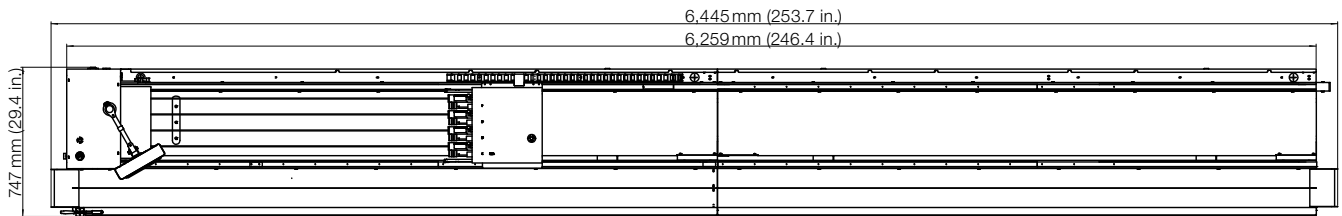
- Optional automated extraction and transfer
- Flexible and customizable machine setup by modular design
- Automatic single axis compensation allows higher twisting speed without compromising pitch quality
- Interconnectivity and networking with MES

## User-friendly

- Optimized display for better ergonomic and faster setup
- Enables smooth wire conveying thanks to the wire separate unit
- Flexible options to fit your specific requirements



## Machine layout (Standard)



### Automated compensation carriage







The innovative automated compensation carriage enables automatic positioning according to article definition, which allows quick set up during product changeover. With the automatic and active compensation, the wire ballooning is effectively reduced and maintains the consistent twisting quality in the whole process. In addition, the new movable options are easily accessible to the operator without the need to change position. This increases production efficiency.



## Technical data

Wire cross sections	2 × 0.13 – 2 × 2.5 mm <sup>2</sup> (AWG26 - AWG14) < 0.13 mm <sup>2</sup> and > 2.5 mm <sup>2</sup> on request Twisting of multiple wires (3 and 4 wires) possible on request
Pitch	5mm – 100mm (0.2 in. – 3.9 in.) Accuracy ±10%, max. ± 5 mm (± 0.2 in.) Depending on process parameters and processing speed
Open wire ends	Twisting side: 25 mm – 90 mm (0.9 in. - 3.5 in.) Holding side for manual loading from above: 30 mm – 90 mm (1.2 in. - 3.5 in.) Holding side for manual loading from below: 30 mm – approx. 500 mm (1.2 in. - approx. 19.7 in.) Depending on the application Holding side with automatic loading: 55 mm – 112 mm (2.2 in. - 4.4 in.)
Different open ends	max. 65 mm (2.6 in.)
End length of twisted wires (defined as the length between the copper ends)	Basic machine, manual loading: approx.100 mm - approx.5'300 mm (approx. 3.9 in.- approx. 208.7 in.) 12 m machine, automatic loading: approx. 650 – 11'300 mm (approx. 25.6 in. - 444.9 in.)
Wire end processing	Manual loading: any Automatic loading: wire end processing one-sided, double-sided upon consultation
Piece output (one operator)	approx. 460 - 540 units / h *with automatic loading. (depending on process parameters and speed)
Electrical connection	Single-phase 220 V, 50 / 60 Hz
Compressed-air connection	4 - 6 bar (58 - 87 psi)
Air consumption	3 m <sup>3</sup> / h (105.9 ft <sup>3</sup> / h)
Noise level	< 80 dB
Dimensions (LxWxH)	6,445 mm x 747 mm x 1,383 mm (254 in. x 19 in. x 54 in.)
Working height of wire line	1,000 mm (39.4 in.)
Weight of basic machine	approx. 270 kg (595 lb)
Weight extension 3 m	approx. 90 kg (198 lb)
Article definition storage	No restrictions

## Processing examples

Initial situation	Final product
	
	
	

\* Settings:

Conductor: FLRY 2 × 0.50 mm<sup>2</sup> (AWG30), end length twisted: approx. 4,500 mm (177.2 in.), pitch: 25 mm (0.9 in.), open ends: 40 mm (1.6 in.), overtwisting: 25%, wire end processing: one-sided with terminal and seal

## Komax – leading the field now and in the future

As a pioneer and market leader in automated wire processing, Komax provides its customers with innovative solutions. Komax manufactures series and customer-specific machinery, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent software and networking solutions complete the portfolio, and ensure safe, flexible, and efficient production.

Komax is a globally active Swiss company with highly qualified employees and development and production facilities on several continents. It provides local support to customers worldwide through its unique sales and service network and offers services that help them get the most out of their investments.

Komax AG  
Industriestrasse 6  
6036 Dierikon, Switzerland  
Phone +41 41 455 04 55  
sales.din@komaxgroup.com

**komax**  
komaxgroup.com