

# Products

## alpha 488 - Economical processing of twisted pairs



Twist head

With the alpha 488, the processing and twisting of individual wires plus all quality check units are integrated in a single machine. This product was designed for the economical processing of twisted pairs, consistently combining as it does state of the art technology with proven system elements like TopWin user interface, the mci 711 crimping module, the mci 761 seal module, etc.

The alpha 488 creates fully processed twisted pairs from endless wire. This automatic twisting machine can accommodate wires with cross sections of 2 x 0.22mm&le; to 2 x 2.5 mm&le; (optional). Four stations on side 1 and two on side 2 make for flexible processing possibilities such as double-ended seal application and crimping.

### User friendly

Maximum overall accessibility is achieved when the system is combined with the mci 761 seal module and the mci 711 crimping module. Rapid changing systems and integrated monitoring units are naturally a part of the design. The swivel radius of 400mm ensures optimum access to the stations.

### High quality wire draw-in





Wire sample

The linear wire draw-in unit has an integrated draw-in monitoring unit, the DLA (Delta Length Analyzer), so that the gentle draw-in of wires into processing is guaranteed.

### Dynamic twisting

The twisting head with AC drive is at the heart of the alpha 488 and provides the system with the requisite dynamics. An integrated TFA (Twist Force Analyzer) ensures the regularity of twisting. The TFA monitors the forces applied during twisting and controls the corrective motion of the twisting head. The standard unit also includes automatic post-production of defective wires and a wire deposit tray with integrated batch sorting.

### TopWin

Length of lay, open wire ends, tensile force and all other key parameters are easy and convenient to set and store with the TopWin user interface.

### Performance-based economy

With the parallel processing of two wires and a division into three optimally synchronized main processes, final lengths of one meter can be produced at a rate of 1000 twisted pairs per hour.

### ... and incredible flexibility

If the quantity of twisted pairs you produce does not utilize the full capacity of the alpha 488, you can benefit from its flexibility. Double-ended crimping and seal application are naturally also a possibility.

### Accessories

A wide range of accessories is available to adapt the komax alpha 488 to meet your specific requirements.

### Preliminary wire processing

- Ink jet marker
- Continuous wire feed

### Processing modules

- mci 711 crimping module
- Contact feed units with paper strip take-up unit
- Contact strip cutter
- mci 761 seal application module

### Process monitoring units

- Crimp force analysis
- Seal monitoring
- Twist Force Analyzer TFA
- Delta Length Analyzer DLA
- Splice detection

### Other accessories

- Height-adjustable wire drum cover
- Signal light
- Measuring stick
- Wire measuring table
- Operator's magnifying glass
- Pinch roll

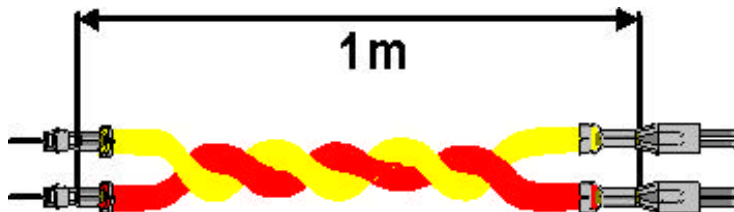
### Your benefits

- Complete processing of twisted pairs from endless wire
- Twisting with quality monitoring devices integrated into the basic machine (DLA, TFA, CFA ...)
- Use also as processing station for double-ended crimping and seal application of individual wires
- Central data input into the TopWin user interface, networking capabilities
- Gentle handling of outgoing product to ensure flawless end products
- Integration of the mci 711 and mci 761 modules

### Technical data

<b>Wire cross sections*:</b>	2&loz; 0,22mm <sup>2</sup> – 2&loz;1,5mm <sup>2</sup> AWG 26 – AWG 16 (Optional 2,5mm <sup>2</sup> or AWG 14) * Extremely hard and/or tough, wires even within this range can sometimes not be processed. If there is any doubt, please feel free to have us produce samples of your wire.
<b>Length range:</b>	700mm – 4000mm 700mm – 7000mm (end length of twisted pairs)
<b>Length repetition:</b>	+/- 1mm bzw. < 0,2% depending on wire length
<b>Stripping lengths:</b>	0,1–15mm
<b>Open wire ends:</b>	30–50mm, depending on material and lay
<b>Length of lay:</b>	10–80mm programmable
<b>Wire draw-in speed:</b>	max. 5m/s
<b>Noise level:</b>	< 75dB (not including crimping modules)
<b>Compressed air connection:</b>	4–6 bar
<b>Air consumption:</b>	12 m <sup>3</sup> /h
<b>Power connection:</b>	3x208 – 480V/50 – 60Hz 7kVA
<b>Dimensions (W&amp;loz;D):</b>	8250 x 1950mm (322.83in. x 76.77in.) Height with cover closed: 1790mm (70.5 in.) Height with cover open: 2670mm (105.1 in.)

### Reference data for piece output of alpha 488



1200 pieces / hour

### Setting values

- Wire FLK: 0,75mm
- Pressure: 5–6 bar
- Speed: 5m/s
- Crimpmodul: mci 711
- Quality check system: inactiv