

# METZNER CORRUGATED TUBE PROCESSING

PRECISION CUTTING MACHINES FOR SLIT AND NON-SLIT CORRUGATED TUBES





## CORRUGATED TUBE PROCESSING

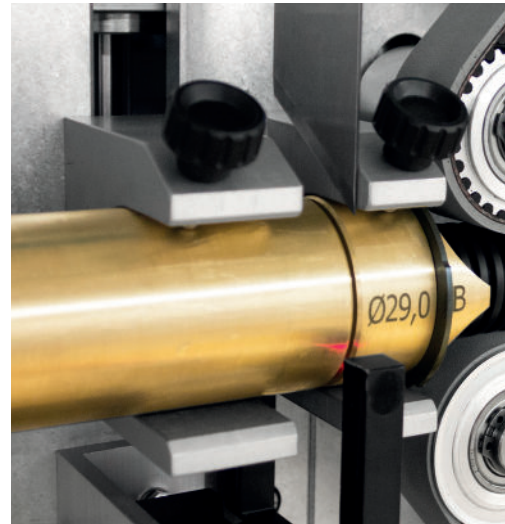
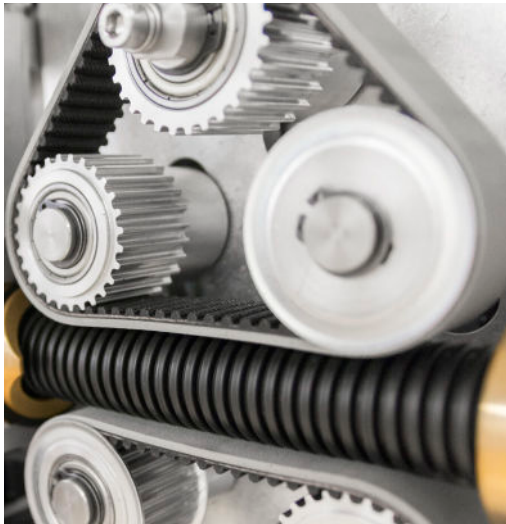
Standard, split or corrugated tubes with muffs and flexible conduits are used for protecting cables and wiring harnesses. Cutting these protective coverings to length depends on cutting accurately on the crest of the ridge. Otherwise sharp cut edges are formed which results in damage to the cables.

Metzner corrugated tube cutting machines offer absolute precision with the cut on the crest of the corrugation. All types of unslit corrugated tube are cut reliably and precisely. This wide spectrum is unique and makes these models a future-proof investment. High-performance sensors guarantee reliable reading of the tube profile and place the cut precisely on the top or in the valley – providing just the processing result you expect.

## METZNER CT 4100

### THE SOLUTION FOR NON-SLIT CORRUGATED TUBES

The entry-level model cuts corrugated tubes exactly on the crest and guarantees optimal processing results. For corrugated tubes from 7.5 mm to 40 mm.





## INCREASED COMFORT BY AUTO-SETTING

The three electric engines of the CT range automatically adjust to the inserted material via pre-set and stored recipes. Therefore, no manual operating of the sensor nor the material inlet is needed.



## OUTSTANDING PRODUCTIVITY

The unique combination of outstanding feed speeds of up to 90 m/ min and short cutting times makes the CT series a means of increasing productivity in your processing line. This saves on staff deployment as the production quantity is reached in shorter time.



## FAST CHANGEOVER

When frequent material changes are necessary, short changeover times are particularly important. Thanks to the Metzner »Quick Change System«, which assists in rapid guide changing, material changes are performed easily and without significant downtime.



## UNIQUE DIAMETER RANGE

Metzner CT Machines offer versatility, with a processing range from 7.5 mm to 40 mm (outer diameter) accurately and reliably. This makes the machine capable of cutting a wide range of products, for present production and future needs.



## PRECISE TUBE CUTTING

The CT Range is equipped with a tube cutting module. This cutting method is ideal for pressure resistant tubes and small diameters. The tube cut offers as well the benefit of the shortest cutting time providing the highest output.

# METZNER CT 4200

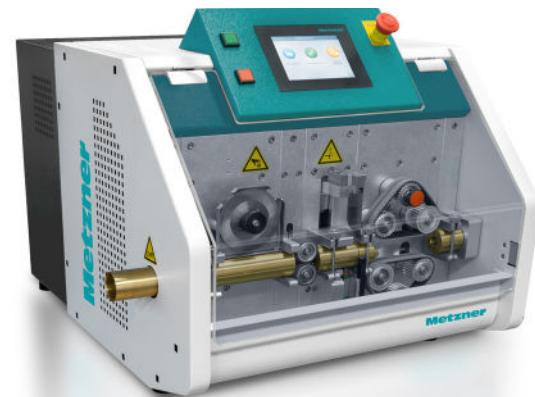
## FOR LENGTHWAYS SLITTING OF NON-SLIT CORRUGATED TUBES

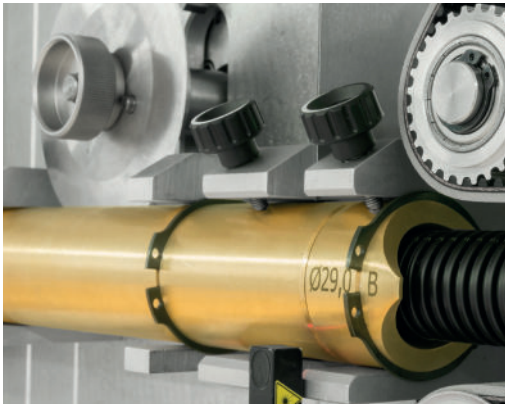
The Metzner CT 4200 offers in addition an integrated lengthways slitting unit for automatic lengthways slitting of non-slit corrugated tubes. For corrugated tubes from 7.5 mm to 40 mm.



### LENGTHWAYS SLITTING UNIT

The Metzner CT 4200 provides an integrated lengthways slitting unit for automatic slitting along the length of unsplit corrugated tubes. With the height adjustment for the circular blade the cutting depth is adjusted to different tube diameters in no time.





## FEATURES LENGTHWAYS SLITTING UNIT

- Electric drive of the circular blade
- Program-controlled positioning of the circular blade

**BEFORE**



**AFTER**



# METZNER SM 4000

## THE SOLUTION FOR PRE-SLIT CORRUGATED TUBES

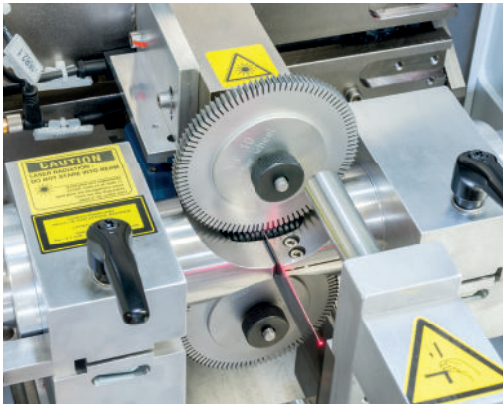
The patented Metzner SM 4000 with »Laser toothed wheel« system is the only solution available in the market to process pre-slit corrugated tube. The material specific feed wheels guarantee a form-fit and twist proof feed of the pre-slit material. The laser sensor controls the position of the feed wheels and releases the blade precisely on the crest of the ridge - with precise repeatability and up to 8000 cuts per hour.

### FEATURES SM 4000

- For corrugated tubes from 4.5 mm to 40 mm diameter
- Patented Metzner »Toothed wheel laser system« guarantees slip-free, rotation-free material transport
- Laser sensors monitor the position of the gear wheels
- »Toothed wheel« transport system as standard





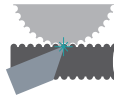


## CHARACTERISTICS SM 4000



### OUTSTANDING PRODUCTIVITY

The unique combination of outstanding feed speeds up to 200 m/min and short cutting times makes the CT series a means of increasing productivity in your processing line.



### TOOTHED WHEEL – LASER SYSTEM

The patented Metzner “Laser toothed wheel” system is the only solution available in the market to process pre-slit corrugated tube. The material specific feed wheels guarantee a form-fit and twist proof feed of the pre-slit material.



### UNIQUE DIAMETER RANGE

Metzner corrugated tube machines offer versatility, with a processing range from 4.5 mm to 40 mm (outer diameter) accurately and reliably. This makes the machine capable of cutting a wide range of products, for present production and future needs.

# CUTTING TECHNIQUE

## FOR CORRUGATED TUBE PROCESSING

### METZNER CT 4100



#### TUBE CUT

For a precise cut of non-slit tubes on the material top

### METZNER CT 4200



#### TUBE CUT + LENGTHWAYS SLITTING

For cutting and lengthways slitting of non-slit tubes

### METZNER SM 4000



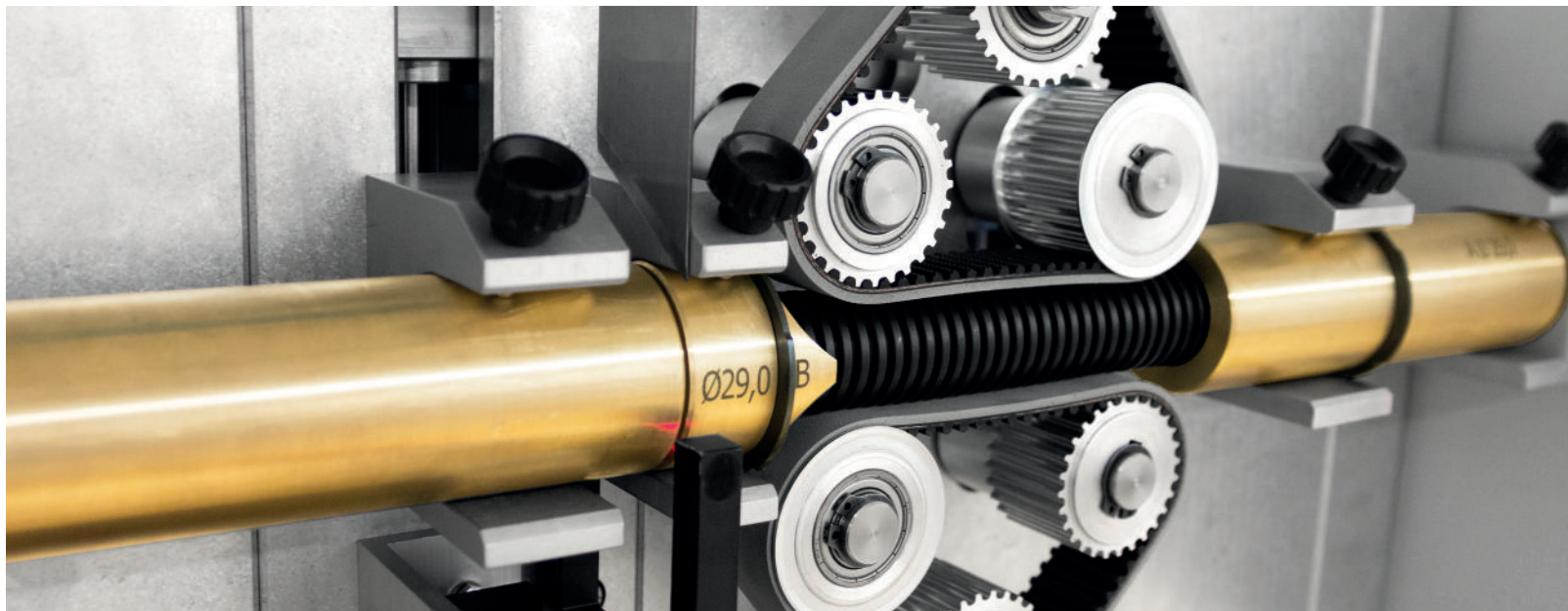
#### TUBE CUT

For cutting of slit tubes on the material top

## TECHNICAL DATA

Model	CT 4100	CT 4200	SM 4000
Corrugated tube outer diameter min. <sup>1</sup>	7.5 mm   0.30"	7.5 mm   0.30"	4.5 mm   0.18"
Corrugated tube diameter max. <sup>1</sup>	40 mm   1.57"	40 mm   1.57"	40 mm   1.57"
Feeding speed max. <sup>2</sup>	90 m/min   5 ft/s	90 m/min   5 ft/s	200 m/min   11 ft/s
Electrical connection	230 V, 50/60 Hz, 1.2 A	230 V, 50/60 Hz, 1.2 A	230 V, 50/60 Hz, 1.5 A
Power source	electro-pneumatic	electro-pneumatic	electro-pneumatic
Compressed air connection	6 bar   87 PSI	6 bar   87 PSI	6 bar   87 PSI
Dimensions (LxWxH)	667 x 600 x 840 mm	791 x 600 x 840 mm	1215 x 1175 x 1400 mm
	26 x 23 x 33"	31 x 23 x 33"	47 x 46 x 55"

<sup>1</sup> depending on material | <sup>2</sup> infinitely adjustable



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