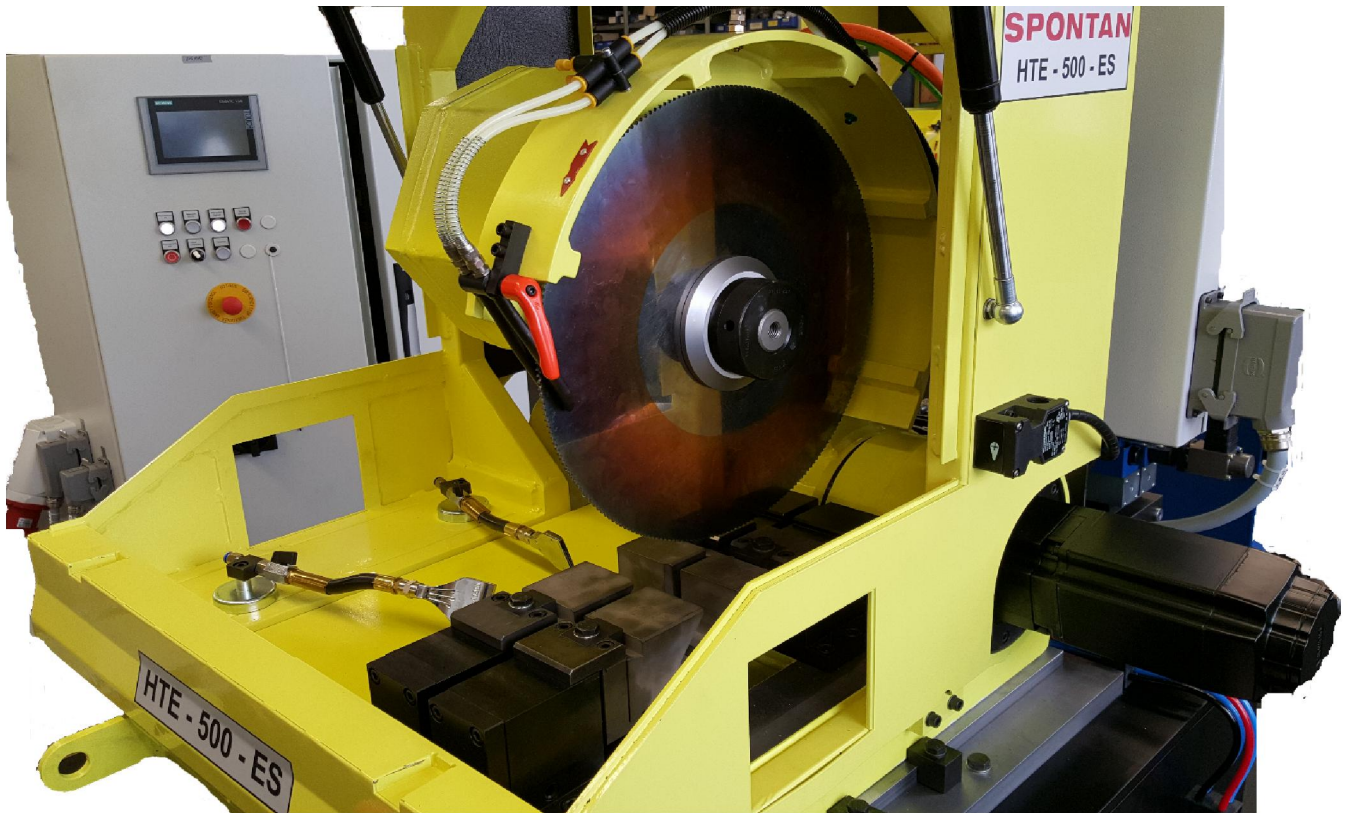


HTE - 500-ES „flying“ saw unit with electrical control



Description **Spontan HTE-500-ES:**

Spontan has developed its new generation of **saw units** and has had the HTE-500-ES system.

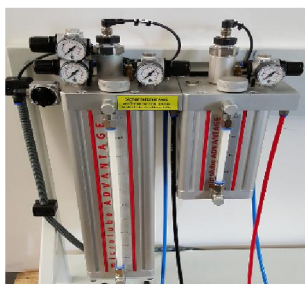
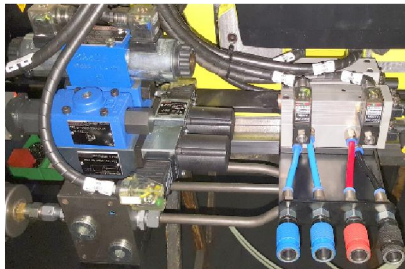
This saw unit is equipped with its **own electrical control system** and a **Minimum Quantity Cooling Lubrication system**, German abbreviation **MMKS** (manufacturer Spontan).

The associated cable set can be connected on both sides. The supply lines for the hydraulic and MMKS-System are fitted with quick-release couplings and will be integrated either into the existing or into an additional energy-chain of the pipe welding or profiling system. This means the **HTE-500-ES** “flying” saw unit can be flexibly used in-house on different pipe welding or profiling systems.

Laborious and costly modernization of the existing electrical control on pipe welding or profiling systems is no longer needed.

The HTE-500-ES saw unit, the switch cabinet and the MMKS system are equipped with transport devices to achieve fast replacement on existing machines.

HTE - 500-ES „flying“ saw unit with electrical control



Technical Data:

1. Saw gearbox

Gearbox type:	500 – servo
Saw shaft backlash:	<0,04
Saw blade drive:	Siemens servo motor
Saw blade mount:	Ø 50 mm; 4 X Ø 15 mm; pitch circle Ø 80 mm
Saw shaft flange:	Ø 128 mm
Saw blade attachment:	M42 x 3 hydraulic clamping nut
Transmission:	i = 12,94
Saw shaft speed:	40-263 rpm with Ø500 saw blade approx. 413m/min
Saw blade:	Ø 275mm – Ø 500 mm in HSS or HM

2. Saw feed

Saw feed:	Siemens servo motor
Feed speed:	max. approx. 350mm/s
Return stroke speed:	max. approx. 350mm/s
Input resolution:	approx. 0.01 mm

3. Clamping technology

Hydraulic clamping:	Proportional valves control
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4. Workpiece

Pipes and profiles:	e.g. Ø 10–Ø120mm
Rectangular and open C profiles:	e.g. 10x10 – 150x150mm
Wall thicknesses:	e.g. 0,75 – 10,00mm
Geometries:	virtually independent
Material:	steel, stainless steel and non-ferrous metal

5. Electrical control

Supply:	CEE socket 63A
Operating panel:	Siemens KTP-700-Comfort
Control System:	Siemens Simatic - S7 – 1200
Frequency converter:	Siemens Sinamics

6. Minimal-Quantity-Cooling-Lubrication system MMKS

Design:	network version and distributor on the saw unit with quick-change system
Container size:	5 liters of coolant and 2 liters of lubricant
Container pressure:	air pressure 6 bar
Activation:	valves 24 V DC
Nozzle:	double cooling nozzle and oil nozzle