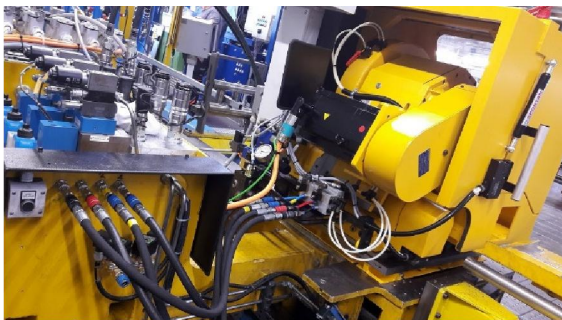


HTE - 315...500-ES „flying“ saws



1. Application

For cutting pipes and profiles in welding and profiling systems or as a stationary unit for sample cuts, etc.

2. System description

The pipe saw unit is built onto the carriage of a flying cutting device.

All supply lines or connections can be designed as plug-in connections.

The saw gearbox is designed as a swivelling unit and has a **low backlash (<0.04°)**

The saw feed drive acts directly on the swivelling axis of the saw gearbox and comprises a servo motor with a pulse generator and a special high transmission ratio gearbox with **zero backlash bearing**.

An alternative drive via hydraulic or an electromechanical cylinder is possible.

Disabling of the upper and lower switching point can be requested via electrical control devices.

3. Workpieces

Pipes and profiles	: Ø 10 - Ø 120 mm
Open C-profiles / rectangle	: 10x10 - 150x150 mm
Wall thicknesses	: 0,75 – 10,00 mm
Geometries	: virtually independent
Materials	: steel, stainless steel and non-ferrous metal

4. Tools

Saw blades	: HSS coated / HM tipped
Saw blade Ø	: 275 - 500 mm
Saw blade width	: 1,6 - 4 mm
Mount Ø	: according to customer requirements

5. Design depending on saw blade Ø 275 – Ø 500 mm

20.0 - 500 m/min cutting speed

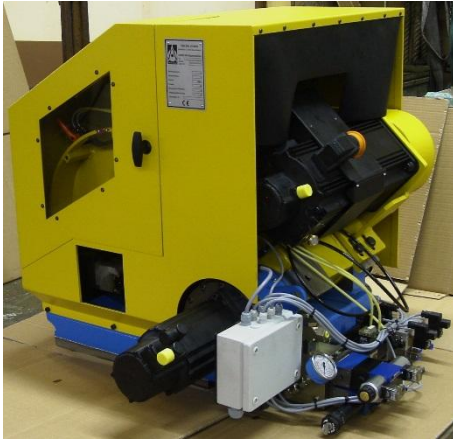
2.2 - 20 kW saw blade drive power

Type ... Fu	: Feed drive via servo motor
	: infinitely variable speed via frequency drive

Type ... HY	: Feed drive via hydraulic cylinder
	: infinitely variable speed

Type ... Servo	: Feed drive via servo motor
	: infinitely variable speed

HTE - 315...500-ES „flying“ saws



Type ... ES : With its own electrical control system. The drive control, calculations and control system for sawing the pipes or profiles are supplied in a compact switching cabinet and saves any modification to the profiling and pipe welding systems.

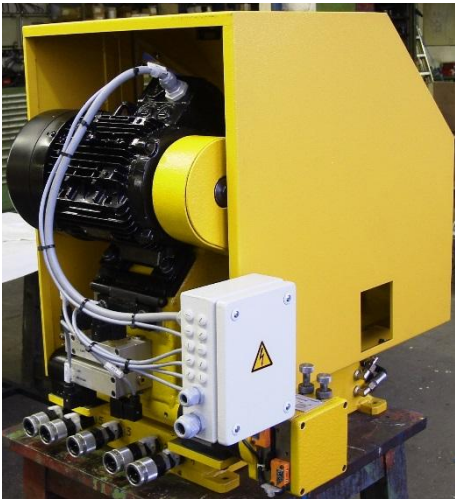
6. Equipment features and components

- Saw gearbox bearings in welded steel design
- Low-backlash saw gearboxes in swivelling design
- Hydro. double clamping device with 4 cylinders
- Clamping jaw quick-change system
- Servo motors for feeding and speed
- Saw stroke limitation via electrical control device



7. Accessories available as an option

- Hydraulic clamping nut for saw blade attachment
- Protective hood with safety switch
- Hydraulic block with valve technology
- Microlube Advantage MMKS systems
- Aircooler for extra saw blade cooling
- Clamping jaws for special profiles
- Centring mechanism / adapter plate for table mounting
- Quick release couplings for hydraulic supply
- Pulse generator modules for saw stroke control



and much more

