

Cutting Machines “AC30”, “AC60” and “AC100”

The “AC30”, “AC60” and “AC100” are software controlled cutting machines which are designed to the exact cut of different types of tubes with the outer diameter of 1-30 mm (AC30), 1-60 mm (AC60) and 1-100 (AC100). The cutting of extremely soft tubes and tubes with low inherent stability is no problem with the machines. Thanks to the precise guidance of both blade and tube, the cutting edges are at right angles, the tube remains in its original shape and the length of the tubes remains constant after the process is complete. The machines can be integrated assembly line and combined with other devices laser measurement (\emptyset) or marking systems.

Software

Principle

The including Software „SoftCut“ allows a freely and intuitive programming of the length, amount, feeding speed and acceleration, of the cutting process. The feeding speed is adjustable in a wide range to guarantee an optimal adjustment to every type of tube.

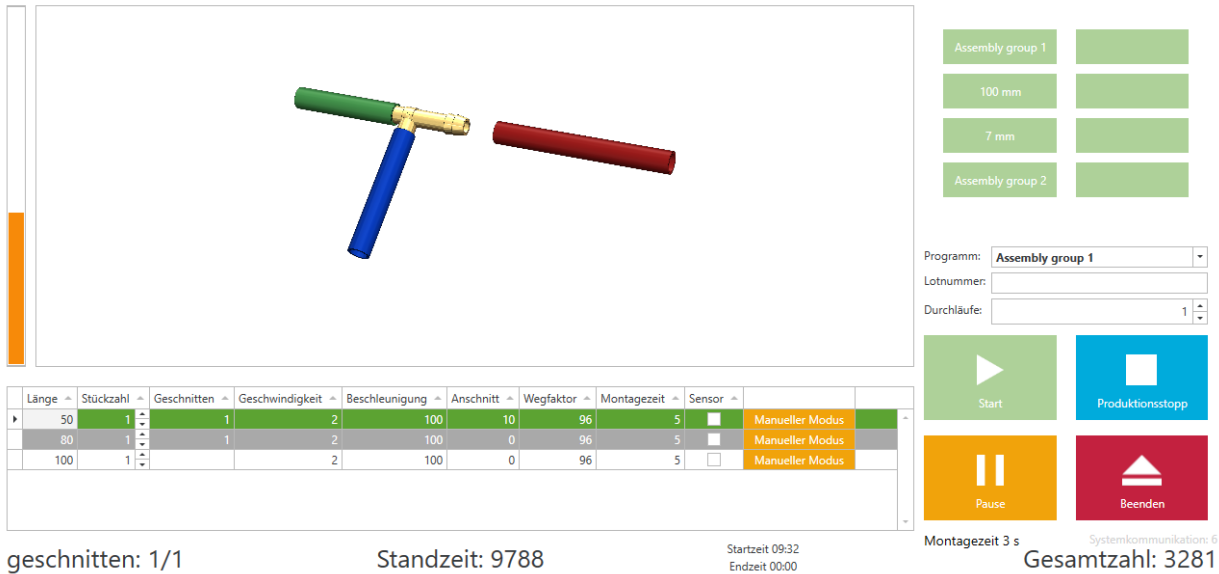
Assembly assistance system

Numerous programs and program combinations (Sets) can be set. This make it possible to automate the cutting of different tube length in succession. Every tube length could be assign a technical drawing, work instruction, video or animated image and also an assembly time after every cut. By this the machine can guide thru an assembly installation.



Tube Cutting Machine “AC30”

When required more cutting machines can be connected and be controlled with only one Software. This make it possible to cut different types of tubes and optimize the working process. The last used program is always stored in the machine, so the machine can also be used without a connected PC.



Länge	Stückzahl	Geschnitten	Geschwindigkeit	Beschleunigung	Anschnitt	Wegfaktor	Montagezeit	Sensor	Manueller Modus
50	1	1	2	100	10	96	5	<input type="checkbox"/>	Manueller Modus
80	1	1	2	100	0	96	5	<input type="checkbox"/>	Manueller Modus
100	1	1	2	100	0	96	5	<input type="checkbox"/>	Manueller Modus

geschnitten: 1/1 Standzeit: 9788 Startzeit 09:32 Endzeit 00:00
 Montagezeit 3 s Systemkommunikation: 6 Gesamtzahl: 3281

Process register of the Software „SoftCut“

Account management

The Software includes a program management, logbook, history and an account management. Only the administrator can add, delete or change programs. This minimize the user errors.

To every cutting process a Lotnumber can be added which is stored with all process-relevant parameters. This guaranties a full batch traceability.

Hardware

Tube feeding

The tube is fed by a strong band feeder, which can be adjust to every tube diameter. So the form of the tube is widely the same.

The tube is guided by a bushing that is changed in a few seconds. Whit one bushing could be covered a range of about 5 mm. To be sure that there is a cut square the blade is guided by a linear guidance. The commercial blades are fast and easy to change.



Winder "HA500" with "AC30" and Laptop on table.



Swivelling winder "HA1000", external tube feeder "BV30" and "AC30" mounted on work table.

Accessory

Our cutting machines can be equipped with a lot of different accessories.

The tube sense break the cutting process if there is no tube in the band feeder.

A laser diameter measurement systems transmit the values to the Software "SoftCut" which analyse the values and break the process if necessary.

The signal lamp shows you the actual status of the machine at the first glance.

A tube marking system can be integrated into the machine to freely mark the tubes by using the "SoftCut" Software.

An external band feeder can support the cutting machine by unwinding the tube from a winder and guarantee a draft free tube feeding at the cutting machine. This reduce the tube stretch by the feeding process and improve the cutting length.

We can offer you the machines on a stable workbench.

Directives

The machine is totally closed and the doors are lockable so that it is practically impossible to injure someone at the cutting process. The machines complies with CE regulations.



Technical Data

Standard materials:	PA, PE, PU, PUR, PTFE, EPDM, Silicone, ...
Tube diameter:	AC30: 1-30 mm, AC60:1-60 mm, AC100 1-100 mm Adjustable by replaceable bushing
Length:	Freely programmable from approx. 0.5 mm- 80 m, in 0.01 mm steps.
Reproducibility:	Is determined by length, material and feeding of the tube. Typically 1%.
Blade drive:	Pneumatic linear ball track
Control:	Controlled over PC by including software "SoftCut"
Speed of the tube feeder:	AC30: 0-34 m/sec AC60: 0-60 m/sec AC100: 0-60 m/sec
Dimensions (without PC)	AC30: L/W/H: 330 x 450 x 320 mm, Weight: 22 kg AC60: L/W/H: 961 x 800 x 1450 mm, Weight: 250 kg AC100: L/W/H: 961 x 800 x 1450 mm, Weight: 300 kg
Housing:	Clean room-compliant design, top made of stainless steel.
Connections:	AC30: 150W; AC60 2kW; AC100 2,2kW; USB-connector, remote, compressed air 6-8 bar filtered
Scope of supply:	Basic unit, 2 blades, Software, Dongle, Operating Instructions in English
Supply:	Guide bushings, Knife block, Laser integration, tube sensor, Signal lamp, winder, external tube feeder, working table, printer, PC for programming.
Miscellaneous:	Special sizes and customizations on request.



Made in Germany

All specifications and images are subject to change without notice.