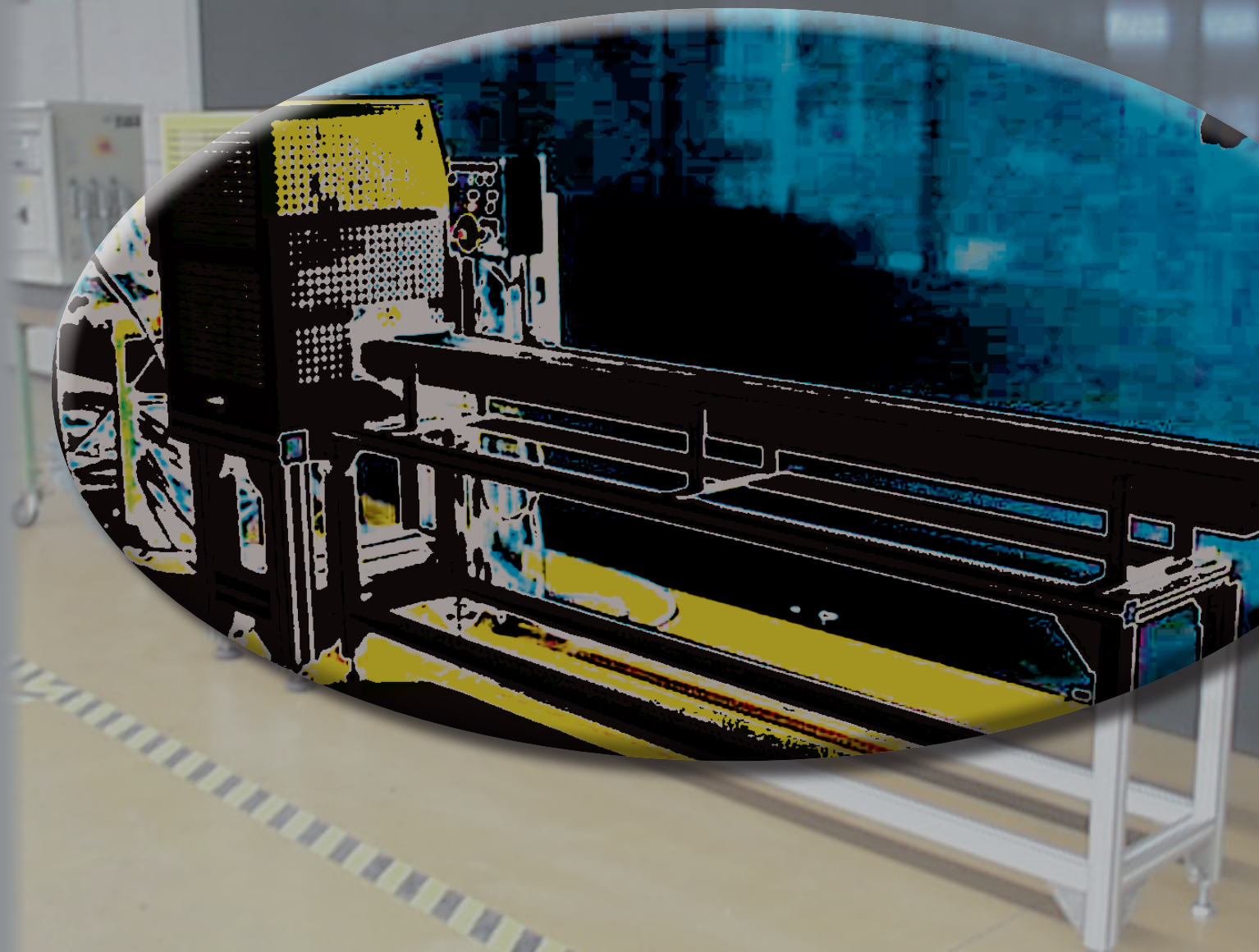
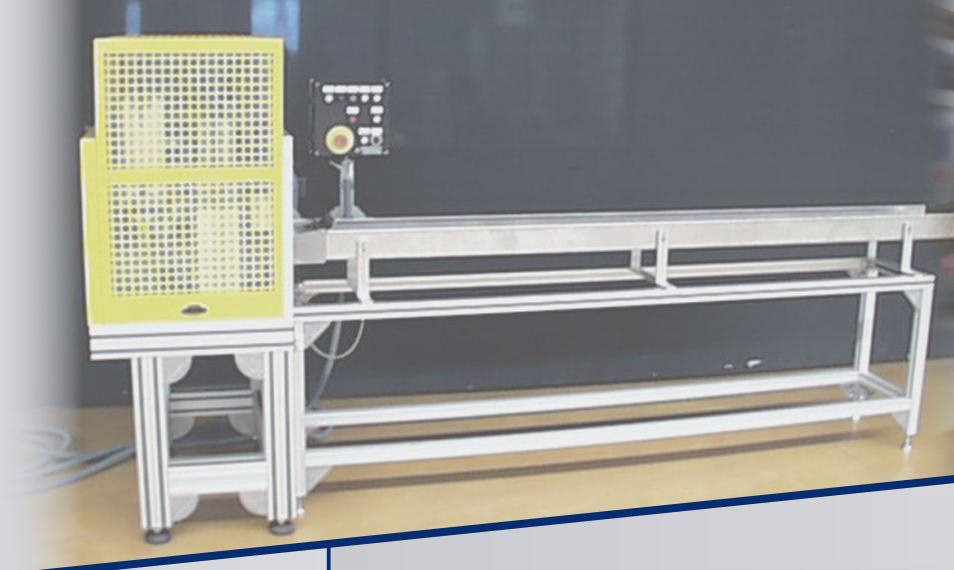


bowas^{ag}

CUTTING MACHINE FOR FINE STRANDS

Pneumatically driven design
(Design for mechanical excentric drive
system in progress)





CUTTING MACHINE FOR FINE STRANDS

The high cutting quality achieved with the offered machines, is in the first line due to the fact that feeding is stopped for a short moment during every cut.

This will result in an absolutely neat area of cut perpendicular to the strand axis.

Moreover, accumulations of feed material caused by the strand being pressed against the blade surface are excluded.

This feature considerably adds to the safety of the cutting process.

The cutting machine is a desk-top model requiring no stationary installation on a foundation.

Cables have been provided with plug connections.

- PLC controlled cutting machine
- Conveying system for the propellant strands with upper and under teathed feed rollers
- Feeding system activated by servo drive
- Digital adjustment for feeding motion
- Digital adjustment of cutting length
- Adjustment of pressure for the conveying system
- Shear cut (development of mechanical excentric drive system in progress)
- (Ex)-proof control panel





Electrical Controller

■ The control panel in explosion-proof design is directly located at the cutting machine and integrates the buttons and control signals for the following operational functions:

- Start Button, Stop Button
- Emergency Stop Button
- Feed Rollers up/down Button
- Indicator Control Voltage

Switch-Cabinet

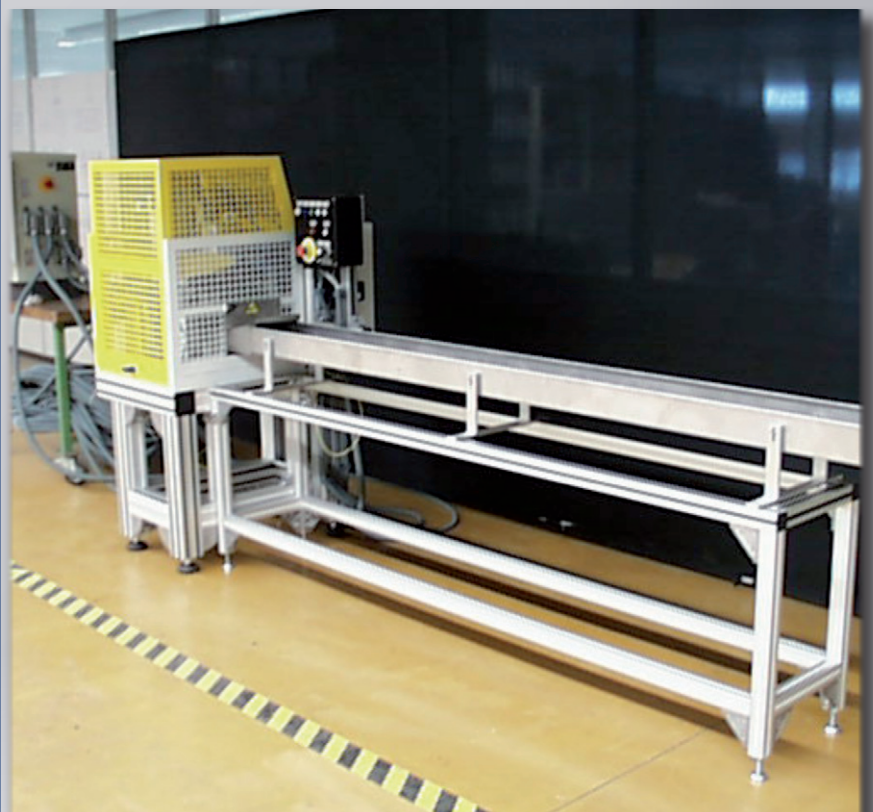
■ The switch-cabinet installed outside of the hazardous zone. For the connection between switch-cabinet and cutting machine 15 m cables are provided.

Safety Devices:

- Emergency Stop on the machine
- Water inlet (for optional fire fighting device)
- Safety locks
- Temperature control knife wheel housing
- Explosion Protected ATEX II D Ex tb III C T 135° GB/ II G Ex de II c T4


Technical Data Cutting Machine for Fine Strands

Weight of machine including switch-board:	approx. 400 kg
Dimensions of cutting machine including feeding channel:	L x W x H 3800 x 1300 x 1500 mm
Strands diameter:	from 1 mm to 2,5 mm
Max. bundle width:	200 mm
Max. bundle height:	60 mm
Theoretical Adjustment of the cutting length:	0.2 up to 999.9 mm recommended 1,0 up to 30 mm
Accuracy of the adjustment:	0.1 mm
Power consumption of cutting system:	2 kW
Cutting speed:	max. 100 cuts/min.
Type of cut:	Guillotine
Electricity:	A.C. 380 V, 50 Hz
Air supply:	Air ring feed system must be provided
Air pressure:	min. 6 bar
Air consumption at 6 bar:	4000 NI/min.
Cutting capacity:	approx. 240 kg/8 h at strands of diameter 1 mm and a cutting length of 1 mm





Bowas AG für Industrieplanung
Industriestrasse 13b · CH-6300 Zug

 +41417112722

Fax +41417110817

e-mail: office@bowas.ch