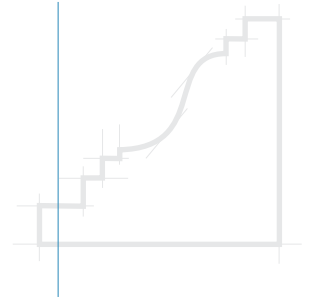


 The Hot Wire Cutting System for professional computercontrolled cutting of EPS and XPS Foam



Foam Cutting Systems **PROFI SERIE**

Outline cutting \oplus
and 3D working
of EPS and XPS
for a various range
of professional
industrial applications



PROFI
Profi DCC
Profi EDD
Profi DDE



Foam Cutting Systems GmbH

Parts of the machines at a glance

A Foam Cutting System "PROFI" consists of the following parts:

Machine:

Base frame consisting of a light-weight robust machine construction profile. The workpiece table moves in horizontal direction .

The wire mount is furnished in the standard version with ball and standard rails and moves in vertical direction
Emergency OFF switch, Ready to operate indicator,
Operating elements

Control and software

PC controller card ISA Long with power supply
Software pack 1

Wire heating

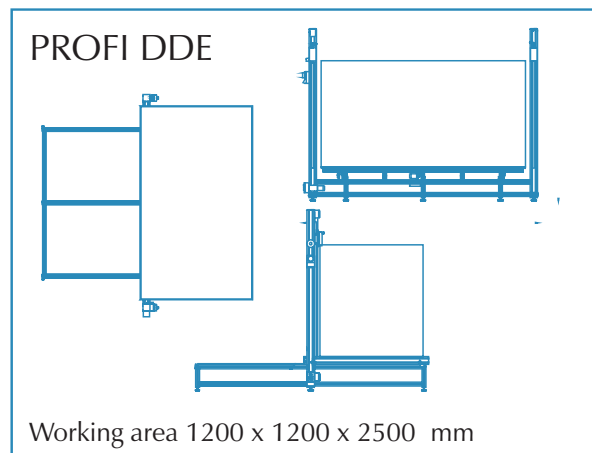
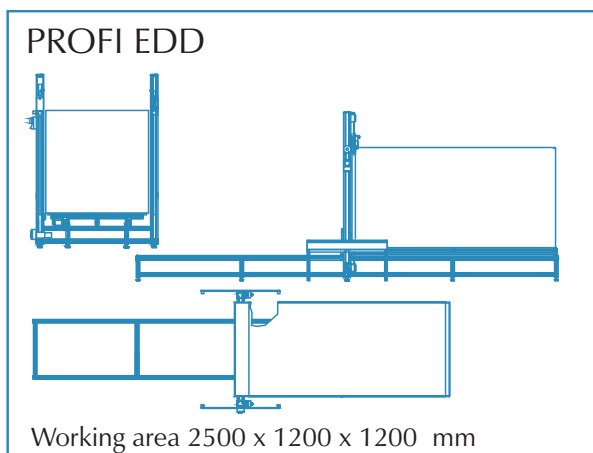
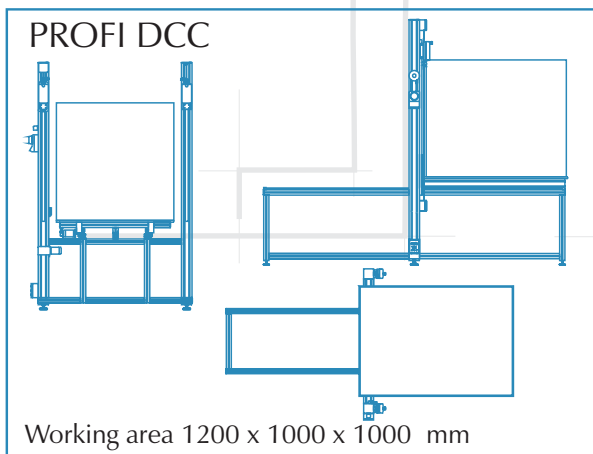
Hot wire power supply 2x0-40V-3A (DCC and EDD)
or 0-220V/6A (DDE) alternative for US and Canada
(110 V) possible

Documentation

Technical documentation, handbook, installation instructions

Our Standard Machines

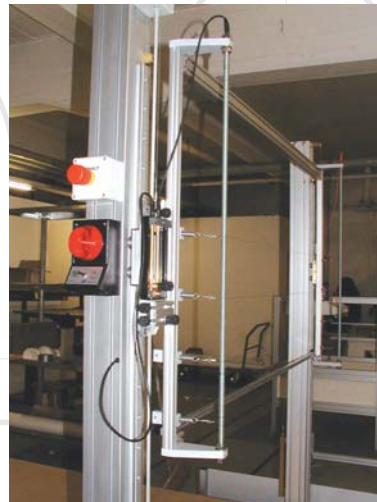
We offer the machine 3 standard variants,



⊕ The operating machine Profi DDE

Accessories:

Rotary plate unit with extension cross (TTU)
Form wire mount, 2 pieces each of 30 and 60 cm (WH)
Multi wire tool (MW 3)



⊕ Multi Wire tool for cutting with up to 3 wires



⊕ Turntable unit and form wire mounts for 3D working (e.g. producing spiral columns)



Standard equipment			
Modell	DCC	EDD	DDE
Dimensions of the machine in mm/ feet	2680 x 1380 x 1450/ 8.8 x 4.5 x 4.8	5270 x 1600 x 2100/ 17.3 x 5.3 x 6.9	2680 x 2000 x 2100/ 8,8 x 6,6 x 6,9
Total weight of the machine (without accessories and power supplies)	80 kg/ 177 pounds	190 kg/ 442 pounds	180 kg/ 398 pounds
Working size of the machine Width X/ Height Y/ Cutting length= wire length Z in mm/ feet	1200 x 1000 x 1000 4.0 x 3.3 x 3.3	2500 x 1200 x 1200 8.2 x 4.0 x 4.0	1200 x 1200 x 2500 4.0 x 4.0 x 8.2
Base frame	Mechanical engineering profile, aluminium anodized		
Work piece table	Wood in aluminium profile frame		
Distance of mobile work piece table to the floor	760 mm/ 30 inches	420 mm/ 16.5 inches	420 mm/ 16,5 inches
3 axes ISA control card	Available		
Controller power supply	Primary 220 V secondary 24 V normal operation 3 A short-term operation (<5 min) 5 A direct current		
Connection for 3 axes to the machine	Available		
Software Pack 1 driver 16 bit for Windows 95/98 control of 2 axes	standard		
Micro-step control of axes	350 steps/mm, 14 steps/ inch		
Hot wire power supply	Primary 220 V secondary 2 x 0 - 40 V 3 A DC	Primary 220 V secondary 2 x 0 - 40 V 3 A DC	Primary 220 V isolation transformer secondary 0-220V 6A AC
Driving speed of the machine	Max. 60 mm/sec, 2.34 inches/sec		
Transmission speed (EPS15)	Max. 15 mm/sec, 0.56 inch/sec		
Number of micro-step motors	2		
Power of step motors	2 Amperes		
Ready-to-operate indicator	Standard		
Power supply for control elements at the machine	220 V - 12V/ 1A		
Manual/setup instructions	German, English, Spanish		
Dimensions in cm of the shipping box	273x157x42 weight 55 kg	285 x 168 x 51 weight 60 kg	285 x 168 x 46 weight 60 kg
Dimensions in feet of the shipping box	9.0 x 5.1 x 1.5/ weight 122 pounds	9.5 x 5.5 x 1.7/ weight 133 pounds	9.5 x 5.5 x 1.5/ weight 133 pounds
Carriage with ball and standard rails	Standard	Standard	Standard
Carriage without mount (no later mount for preformed wire possible)	Standard	Standard	Standard
Documentation technical drawing of the machine and circuit diagram	Standard	Standard	Standard
Weight compensation per portal support	Standard	Standard	Standard
Movement synchronization of the wire mount support by Niro fine wire rope	Standard	Standard	Standard
Software Pack 1 driver 16 Bit for Windows 95/98 control of 2 axes	Standard	Standard	Standard
Necessary to dismantle the portal for transport	No	No	Yes
Alternative features			
Modell	DCC	EDD	DDE
Hot wire power supply * (Export: USA Canada)	P 110 S 0-110V 6A AC voltage	P 110 S 0-110V 6A AC voltage	P 110 S 0-110V 6A AC voltage
Controller power supply* (Export: USA Canada)	Primary 110V or 220 V 50 - 60 Hz secondary 24 V, 6 A DC	Primary 110V or 220 V 50 - 60 Hz secondary 24 V 6 A DC	Primary 110V or 220 V 50 - 60 Hz secondary 24 V 6 A DC
Power supply for control elements at the machine * (Export: USA Canada, Caribbean)	P 110 - 220 V S 12 V 1.3 A	P 110 - 220 V S 12 V 1.3 A	P 110 - 220 V S 12 V 1.3 A
Shafts, running wheels and linear guides of Nirosta alloy	Optional	Optional	Optional
Carriage with rollers and precision guides	Optional	Optional	Optional
Electrical connection for the hot wire mount 10A	Optional	Optional	Optional
Distance of the mobile work piece table to the ground	420 mm/ 16.5 inches	760 mm/ 30 inches	760 mm/ 30 inches
Carriage plate with bracket mount	Optional	Optional	Optional
Separate accessories			
Modell	DCC	EDD	DDE
Software package 2 incl. driver for Windows 98	Optional	Optional	optional
Mount for preformed wire AT-WH	Optional	Optional	optional
Power supply for preformed wire	S: 220V P:3 -15V 40A DC	S: 220V P:3 -15V 40A DC	S: 220V P:3 -15V 40A DC
Power supply for preformed wire * (Export: USA Canada)	S: 110V P:3 -12V 30A AC	S: 110V P:3 -12V 30A AC	S: 110V P:3 -12V 30A AC
Turn Table unit AT-TTU with connecting cable	Optional	Optional	Optional
Weight compensation for multi-wire mount	No	Optional	No
Multi-wire facility for max. 3 wires	No	Optional	No
Power supply for multi-wire facility	No	P: 220V S: 0 - 60V 12 A	No
Power supply for multi-wire facility * (Export: USA Canada)	No	P: 110V S: 0 - 60V 12 A	No
Lateral portal stabilization	No	Optional	Optional
Top portal reinforcement as traverse	No	Optional	Optional
Ground anchoring plates	No	Optional	Optional

Data are subject to change without prior notice



For a precise cut and rational production

The stable basic structure as well as the high performance of the motors installed in the machines of the PROFI SERIES allow professional processing of whole styrene blocks of up to 3.6 m³ in one single operation.

Due to the open structure of the machines they can be easily equipped with cutting material despite the enormous block dimensions.

It is not necessary to fix the material.

The special wire heated up to a temperature of 300 °C permits precise cuts.

Even in handling wire lengths of up to 2.5 m and more a perfect cut will be achieved at any position in the material.

After using the wire for cutting it is retracted to its original length. Depending on the wire thickness selected and an optimum adjustment of the voltage setting, step speed and material, it is possible to produce cuts with minimum slit.

The professional series operates with FoamCuT round wire with a thickness ranging between 0.25 and 0.4 mm

A various range of accessories allows lots of creative possibilities to work with foam

Our software is easy to operate. You will be provided with a software package which is tuned to the specific customer requirements including the appropriate program backup codes.

Compatibility with vector-based programs, such as AUTOCAD, Corel Draw or FreeHand is only one of the great advantages of our machine system.

Our products

MobilCutter MC-Serie

SuperCutter SC-Serie

Profi-Serie

Manual Cutting Machine

Turn Table Machine

Shredder

Special Accessories &

Machines for

Special Applications

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⊕ Cake as decorating object



⊕ Decorating facade parts



⊕ Logo types and letters

We garant a optimum price-performance ratio
The totally simple machine operation and short setup times make order volumes of only 1 piece nevertheless highly profitable.

The customer does not have to order large series or a certain form in high volumes

Our machines operate reliably for many years, almost maintenance-free.

Fields of applications

These machines are applied in all places where professional EPS and XPS are processed. The following sectors are stated as examples:

Construction industry: to manufacture individual facade elements, profiles, concrete stone moulds

Packaging industry: individual packaging solutions, corners, filling volumes, profiles

Automobile industry: chassis coating in the interior sector

Model construction, prototyping: manufacturing architectural models, prototypes, and experimental models

Advertising, decoration: letters, logos, designing leisure centres and discotheques, TV settings, event design.



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www.foamcutter.de

