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Brodbeck Maschinen

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machines
macchine
máquinas

Paper Core Cutter

CombiCut

for burr-free cutting of paper tubes and cores made of soft plastic material.

➢ Mode of Operation:

Manually the tube
is pushed into the machine.

By the driving belt installed below the cutting head
the tube is powered to rotate.

For cutting the core, the tube is moved by hand (Model CombiCut M) against the pre-positioned limit stop.

Pressing the push-button releases the cutting sequence. The core then is cut off according the setup cutting length.

This safe 2-hand-operation guarantees secure operation!

Cutting of heavy walled cores is assured by the integrated powered knife-drive.

In addition to the manual operated CombiCut M the machine is available as CombiCut A including the PLC-controlled drive, that enables the operator to simple program the cutting length. In combination with the graphic display the ease-of-use therefore is highly improved.

Cut off tubes directly fall into a box. Longer cutting sections remain on the V-prism for comfortable removal.

The CombiCut is available for parent lengths of 1600mm or 2500mm.

The CombiCut is equipped with:

- V-Prism for supporting the tube
  including the limit stop for setting up the cutting length.
- Tube Lifting Rollers
  to simplify the feeding and positioning of the core.
- Safety relevant 2-hand-operation.
- Pneumo-hydraulic controlled knife penetration.
  The knife penetrates the core at constant speed.
  Cutting quality is improved significant.
- Powered knife-drive by e-motor
  for cutting heavy walled cores.
- Knife lubrification for smooth cutting surfaces.
  In addition paper dust is reduced.
- Toolset for one ID of cores
- Circular Knife 120 x 40 x 2 mm HSS
- CEE – Safety Devices

Technical Data CombiCut:

Technical Data	CombiCut			
	CombiCut M manual setup of cutting length		CombiCut A cutting length programable	
	CombiCut M 1600	CombiCut M 2500	CombiCut A 1600	CombiCut A 2500
Parent Core Length	ca. 1.650 mm	ca. 2.550 mm	ca. 1.650 mm	ca. 2.550 mm
Cutting Length				
min	25 mm		2 mm	
max	1.600 mm	2.500 mm	1.600 mm	2.500 mm
Wall Thickness				
without driven knife	ca. 6mm			
with driven knife	ca. 15mm			
Core ID min	ca. 50 mm			
Core OD max	ca. 230 mm			
Cutting Tolerances	ca. +/- 0.25 mm		ca. +/- 0.15 mm	
Cutting Speed				
Cyclespeed max	na		ca. 30 Takte/min	
Recommended Speed of working	appr. 10 cuts/min ID 76 with w=6mm at Lc=100mm		appr. 25 cuts/min ID 76 with w=6mm at Lc=50mm	
Set-Up Time	appr. 2 - 10 min			
Circular Knife	HSS 120 x 40 x 2 mm			
Electrical Connection	400 Volts, 50 Hz 3 Phase AC with N and PE			
Pneumatical Connection	ca. 20 NL/min at 6 bar			
Drive Tube Rotation	0.75 kW			
Drive Knife	0.75 kW			
Drive Positioning Axes	na		0.75 kW	
Floor Space				
CombiCut 1600	4.2 x 1.3 m			
CombiCut 2500	8.0 x 1.3 m			
Varnishing	RAL 9003 signalwhite-structure			
Net Weigth	425 kg		575 kg	
CEE - Conformity	approved			

Machine Extension up to 2500mm

Alternatively to the standard parent core length of 1600mm
the machine could be build as CombiCut 2500.

- Elongated machine frame
- V-prism enlarged

Programable Cutting Length

Alternatively to the manual positioning of the tube
the machine could be designed as PLC-programable CombiCut A.

- PLC - control for automatic tube positioning
- TouchPanel for entering parameters
- Coverings
- Extended Safety Features

Multi-Lengths - Software

for cutting one tube up into 4 different lengths.
Length of the remaining part is indicated.

Toolsets
with Nylon - Cutting Head

including cutting disc and cone for clamping the tube.
For each ID of cores, one toolset is required.

Prices for following ranges of Core-ID's:

up to 80 mm ID
81 – 160 mm ID
161 – max. mm ID