

MODEL RWS MICRO - PC

The RWS MICRO-PC is a PC controlled floor model with an up-to-date miniature PC and incorporates the famous RUFF modular system with 11 heavy duty heads. It is designed with modern hi-tech components: PLC control, 3-phase electronic motor for head drive, servomotor for core drive, Pentium III PC, interface for printer and much more... After input of the winding data the PLC will automatically set up the winding program: the pitch and turns are first calculated for each single layer, then displayed on the PC-window and finally automatically changed from layer to layer during the production. The very sophisticated software fulfills the highest operator requirements whatsoever. The floppy disc-system enables flexible data management. Teach-in buttons and an operator joystick enable fast and easy improvement of the winding program at any time. Typical jobs for the RWS MICRO-PC are all general and especially difficult taping and winding applications.



TECHNICAL DATA:

CONTROLLER:
PLC WITH MINIATURE PC,
SOFTWARE LANGUAGES: D, GB, I, CZ

DISPLAY:
6,5" COLOUR MONITOR

PRESETS:
200 PROGRAMS, FLOPPY DISC DRIVE
PROGRAM LINKING FACILITY

PROGRAMMING:
AUTOMATIC SET UP WITH
TEACH-IN SYSTEM

DATA MEMORY:
8 MB FLASH DISC
DATA INPUT/OUTPUT WITH 3,5" FLOPPY DISC

WINDING SPEED:
UP TO 160 RPM
AUTO CONTROL

WIRE PITCH CONTROL:
FULLY AUTOMATIC PITCH CHANGE,
PROGRAMMABLE IN STEPS OF 0,01 MM

CORE INDEX AND REVERSE CONTROL:
AUTOMATIC

ACCELERATION:
AUTOMATIC

DECELERATION:
AUTOMATIC

STOPS FOR TAPS:
AUTO CONTROL OF TAP POSITION
AUTO CONTROL OF START AND
END POSITION OF WIRE LEAD

SECTOR / BANK WINDING CONTROL:
AUTOMATIC

TAPING OPERATION:
AUTOMATIC

CORE DRIVE POWER:
AC SERVO MOTOR

WINDING HEAD DRIVE:
3 HP ELECTRONIC CONTROLLED
3-PHASE MOTOR 5,5 AMP

SUPPLY VOLTAGES:
230 (110 AND 240) VOLT, 50 HZ AC

MACHINE SIZE AND WEIGHT:
1.100 X 700 MM
200 KG NET, 300 KG GROSS

COMBINATION CAPABILITY:

11 HEADS

7 GEAR HEADS
RW33,44,44-V,45,45-V,45-EH,45-380

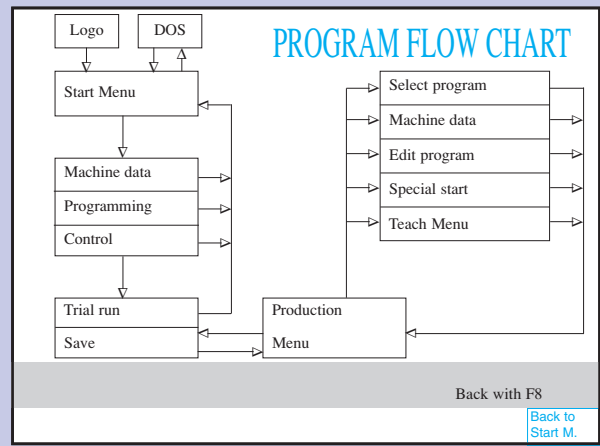
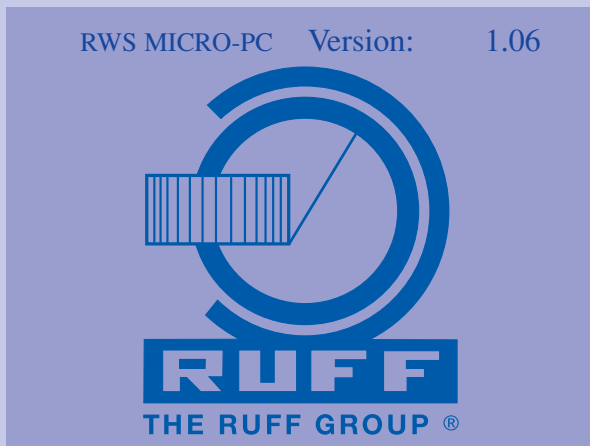
4 TAPING HEADS
RW33/B,44/B,45/B,45-380/B-U

6 ROLLER TABLES
RW333,333-V,333-VSO,333-VS1,
333-VS2, 333-V13

PRODUCTION CAPABILITY

	inch/AWG	mm
- SINGLE WIRE SIZE:	5 - 26	0,4 - 4,5
- BIFILAR WIRE SIZE:	up to 2x9 1/2	up to 2x2,8
- FINISHED CORE O.D.:	2,55 - 40	65 - 1000
- FINISHED CORE I.D.:	from 1,0	from 25
- FINISHED CORE HEIGHT:	up to 14,96	up to 380
- TAPE SIZES:	0,35 - 1,0	9 - 25

RWS-MICRO-PC TYPICAL INPUT AND PRODUCTION SCREENS



START MENU

START MENU

F1 - HELP FILE
 F2 - WINDING PROGRAM WITH CALCULATION
 F3 - TAPING PROGRAM WITH CALCULATION
 F4 - WINDING PROGRAM WITHOUT CALCULATION
 F5 - TAPING PROGRAM WITHOUT CALCULATION
 F6 - PRODUCTION MENU

DOS - Menu

Select with function keys
 F1 - F6

Help	Wind prg W.Calc.	Tape prg W. calc.	Wind prg w/o calc.	Tape prg w/o calc.	Product menu	Flow chart
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INPUT MACHINE DATA

Programming of Machine data

Product number: _____
 winding head type: RW2
 Table type: RW222-V

LOADING:

Acceleration	20 %	Rubber roller O.D.	67.00 mm
Speed	95 %	Core speed auto index	10%
Slowdown turns	2	Mag. speed pushbutton	15%
Deceleration	97 %	Core speed rockerswitch	5%
Finishing speed	20 %		

WINDING:

Acceleration	25 %
Speed	85 %
Slowdown turns	2
Deceleration	90 %
Finishing speed	20 %

Enter machine data.
 Select with cursor keys.

Help	Head Type	Table Type	Special Heads	Special Tables	Product List	Forw. to Wind prg	Back to Start M.
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PROGRAM WINDING DATA

Winding Program with Calculation

Core O.D.	80.0 mm
Core I.D.	40.0 mm
Core height	25.0 mm
Overall wire dia	1.150 mm
No. of windings	1
W 1 Winding method	Layer
W 1 No. of turns	500
W 1 Core start dir.	CCW
w 1 Wire layering system W/W on ID	
W 1 Stop between layers	Yes
W 1 Distance wire leads	355°
W 1 Stop after winding	Yes
W 1 Core index	CW
W 1 Index angle	180°
W 1 Stop after index	Yes

Enter the winding data with automatic calculation.
 Select with cursor keys.

Help	Wire Chart	Previous Winding	Next Winding	View W. Method	Forward Calc.	Back to Start M.
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CALCULATED WINDING PROGRAM

Product number: 999999 Winding program

No. of windings	1	Loading turns				84
Winding No.	1					
Winding method	Layer	Layer	Layer	Layer	Layer	
Turns per winding	500					
Start dir. for core rot.	CCW	CCW	CCW	CCW	CCW	
Pitch per turn	2.370	2.611	2.857	3.137	3.502	
Layer number	1	2	3	4	5	
Turns per layer	106	99	93	87	80	
CW turns						
CCW turns						
Winding stop	Yes	Yes	Yes	Yes	Yes	
Start dir. for core index					CW	
Distance of core index					143.7	
Stop after core index					Yes	

Check calculated winding figures.
 Select with cursor keys.

Help	Previous Winding	Next Winding	Previous Layer	Next Layer	Forw. to Product.	Back to Start M.
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PRODUCTION MENU FOR TRIAL RUN

Production menu ENTER = change production screen

Product number	999999	Current:	Program End	Start
Loading turns	84	0	Waiting to Start Loading	
No. of winding	1	1	Current speed	0%
Winding No.	1	1	Programed speed	95%
Winding method	Layer	Layer	Acceleration	20%
Turns per windings	500	0	Deceleration	97%
Core start direction	CCW	CCW	Auto index speed	10%
Pitch per turn	2.370	2.370	Core rotation	On
Layer number	1	1	Mag. rotation	Backw.
Turns per layer	106	0	Production time	57 s
CW turns			Production pieces	0
CCW turns			Wire diameter	1.150 mm
Stop after winding	Yes	Yes	Winding head	RW2
Core index direction	No	No	Roller table	RW222-V
Core index distance			Rubber roller	67.00 mm
Stop after core index				

Help	Core ON/OFF	Core CW	Core CCW	Special start	Machine data	Select program	Back to Start M.
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PRODUCTION MENU FOR OPERATOR

Production menu ENTER = change production screen

Winding

Product number: 999999

Program End

Total turns	84	Program Reset
Turns per layer	0	
Current turns	0	Counter Reset
Current pitch	2.370	
Current speed	0%	Teach Menu
		Edit Program

Help	Core ON/OFF	Core CW	Core CCW	Special start	Machine data	Select program	Back to Start M.
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