SPIRAL WINDING MACHINE MODEL KWM-PLE-MINI

WITH SMALL DISPLAY WITH 2 PROGRAMMING LINES AND TEXT INFORMATION.

This automatic high speed spiral winding machine for continuous winding onto endless carrier material with permanent wire pitch or with several different lenghts with each independent pitch.

FEATURES

- Versatile applications
- Many standard accessories
- Non stop operation
- Virtually maintenance free
- PLC control
- · LCD display with 2 text lines
- Programming with user friendly windows

WINDING MATERIALS

- · Round or flat wire · Copper, aluminium, chrome-nickel and more
- Wire diam. 0,015 0,4 mm,
- AWG 35 26
- Wire supply spools up to DIN 125 (250) Also tape wrapping

CARRIER MATERIALS

- Flat- or round carriers up to 8 (10) mm
- in size (larger on request) · Steel, glass fibre, plastic fibre, Nomex, cables and more
- Tube shaped materials
- Material supply spools
- up to DIN 400 (1000)
- · Multi-strands from several suppl cones



MACHINE SPECIFICATION

- Power supply:
- 230 Volt AC, 50/60 Hz
- Motor power: 400 Watt
- Net weight: 140 kg
- Machine size: 2700 mm x 900 mm

MACHINE CONSISTING OF:

- 1 machine base with servo motor for pitch drive 0 - 5,0 mm per turn, servomotor for winding head drive up to 6.000 RPM, plexiglass security cover
- 1 winding nozzle and one set of flver arms
- 1 PLC controller with
- 2 programming lines • 1 Signal lamp for operation
- status
- Memory capacity of 10 programmes with each 20 independent lengths
- Interface for PC
- Optional software for data exchange

PROGRAMMING CAPABILITY

- PROGRAMMABLE WINDING DATA:
- Production quantity (No. of Products)
- Winding material Ohm Value
- No. of lengths with independent pitch
- Distance per length
- Pitch of turns per length
- **PROGRAMMABLE MACHINE FUNCTIONS:**
- · Auto control of winding speed (acceleration, deceleration)
- Auto control of winding pitch (stepless 0 5,0 mm per turn)
- Auto control of wire tension (electromagnetic)
 - Auto control of speed adjustment when pitch changes
 - · Auto Ohm control when resistance controller is used
 - · Auto carrier material brake control
 - Auto winding material brake control
 - PRODUCTION DATA DISPLAY:
 - Current program No. and length No.
 - Current winding speed (in RPM)
 - Current winding pitch (in mm)
 - Current wire tension value (in %)
 - Current Ohm control
 - · Current production quantity
 - · Programmed quantity reached

ACCESSORIES

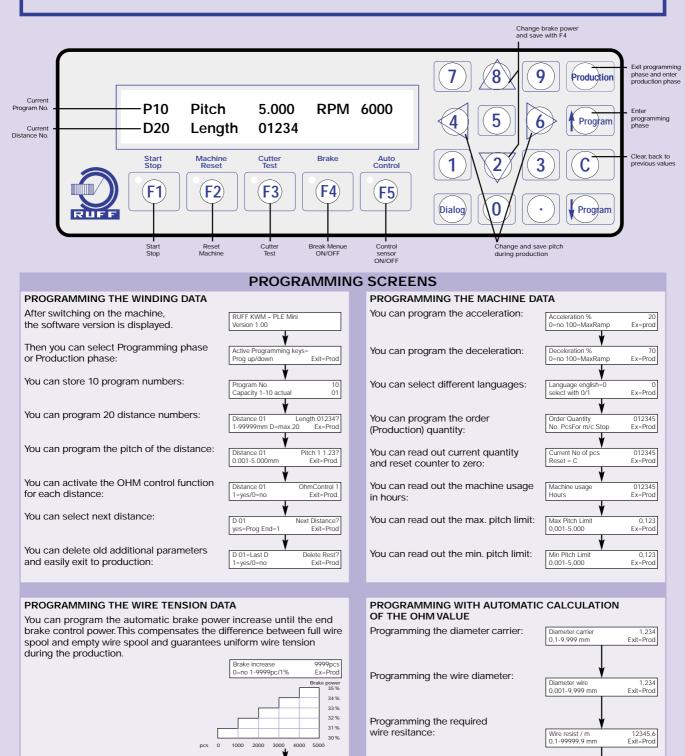
- KWM-PLE-Z01: Standard take off unit for carrier material
- KWM-PLE-Z0: Overhead take
- off unit for fibre carrier material • KWM-PLE-Z05: Brake tension
- unit for fibre carrier material • KWM-PLE-Z13: Wire straigh-
- material
- KWM-PLE-Z03: Standard take up unit with traverse fixture
- KWM-PLE-Z10: Motorized take up with auto speed control
- KWM-PLE-Z12: Winding head and software setup for music
- KWM-PLE-Z02: Standard take up unit without traverse
- KWM-PLE-Z11: Motorized take
- KWM-PLE-Z06: Detwisting unit w. take up and traverse device
- KWM-PLE-Z08: Resistance controller (tolerance +/- 1%)
- KWM-PLE-Z07: Cutting device for finished product
- KWM-PLE-Z09: Separate transport machine for carrier material

- - - - tening unit for metal carrier

 - strings

 - off with auto speed control

KWM-PLE-MINI PLC DISPLAY MODUL



control power: You can select the pitch control mode, either with automatic resistance-controlwinding or with automatic gapless-

You can program the start brake

control-winding: The controller can also count the length of the wound material or the no. of wound windings: Display of the automatic calculated pitch value: Shows the calculated new pitch and the last old pitch. Prod. resist / m 10-999999 mm

New pitch Old _,___ 123456

Exit=Prod

Exit=Prod

Programming the required

product resitance:

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1000pcs

S=1 U Ex=Prod

Winding=1 0 Ex=Prod

Programmed= Brake=30%

-Control=0

Select with 0/1

Millimeter=0 Select with 0/1