

Convolute Winder KSR 22-160

for winding of cylindrical, convolute wound paper tubes.

The machine is equipped with:

- Operation Terminal on swivel arm to enter machine speed and number of tubes required
- PLC – control Siemens S7 with self-diagnostic-system.
- Servo controlled advance of paper to program the tube length
- Cross Cutting Device for cutting off the paper sheet according to the programmed tube length
- Roller gluing device to apply glue on the paper web
- Paper Sheet orientation to guarantee rectangular feeding of the paper sheet into the mandrel.
- Needle Carrier for forwarding the paper sheet to the winding mandrel



- Conveyor to transport the tubes out of the machine
- Drive for mandrel for 10 revolutions per tube (14 revolutions on demand)
- Support of the winding mandrel
- Winding mandrel chromium plated
- Protective Covers with Safety Switches.

Technical Data:

Tube inner diameter		
min	appr	4 mm
max	appr	15 mm
Tube external diameter		
max	appr	17 mm
Tube Length variable		
standard	appr	80 – 176 mm
recut	max	170 mm
Paper reel width up to	appr	220 mm
Machine speed infinitely variable	appr	120 tubes/min
Speed recommended	appr	100 cycles/min
Setup-Time	appr	15 – 30 min
Electrical installation		400 Volt, 50 Hz 3-phase current with N and PE Siemens Control
Main Drive		
electric motor with converter	appr	1,5 kW
Pneumatic Installation		60 NL/min at 6 bar
PLC - Control		Siemens S7
Standard paint		RAL 5010 blue
Net weight	appr	920 kg
Machine dimensions (LxWxH)	appr	2,0 x 1,4 x 1,5 m

Optional Equipment:

Cutting Device

with 3 knife holders and circular knives
Using this device the machine speed
is reduced to 80 cycles/min.

- Each knife is spring-loaded
for easy adjustment.

Glue Pump

for filling the glue basin

Knee-Lever Printing Unit

for one-colour print
printing area 40 x 160 mm

Additional Toolsets

tooling needed for each ID

Winding Mandrel

Cutting Mandrel with Stripper

Paper Web Grinding Machine AS II-220

for grinding one side of the paper web,
installation together with Convolute Winder KSR 22-160

The machine is equipped with:

- Unwinding stand
- Bevelling unit with motor
- Guiding rollers for correct feeding of paper web into winding machine

Technical Data:

Paper reel width up to	appr	220 mm
Paper reel ID	appr	70 or 100 mm
OD	max	1.300 mm
Feeding Speed	max	20 m/min
Electrical installation		400 Volt, 50 Hz 3-phase current with N and PE Siemens Control
Drive for Paper Transportation grinding		0,18 kW 0,55 kW
Machine dimensions (LxWxH)	appr	2,5 x 0,7 x 1,1 m
Net weight	appr	250 kg

Optional Equipment:

Dust Suction System Modell HA 2600

to remove the paper dust
with motor 0,55 kW, dust bag and filter

Flexo-Printing Unit

for dyeing of the paper
which forms the surface of the tube.

Ink Pump

driven by compressed air

Drying Tunnel SL 1800

with variable speed control
(temperature controlled up to 250°C)