

## Convolute winding machine

# KSR 22-160

for production of convolute winded paper cores.



The machine is equipped with:

- Siemens Touch Panel to program the length of the core and the speed of the machine.
- PLC Siemens S7 with self diagnostic-system.
- Servo driven feed rolls for the paper web – the length of the core can be freely entered on the control panel.
- The glue is applied onto the paper web through glue roller or jet gluing device.
- cross cutting device for cutting the paper web into the programmed lengths.
- Sheet orientation device guarantee rectangular feeding of the paper sheet to the winding mandrel.
- Needle bar for transportation of the paper sheet.
- Hard chrome plated winding mandrel.
- Drive for mandrel for either 10 or 14 turns per core.
- Transportation belt to move out the finished cores.
- Ink-jet printer for a clean print image at high speeds.
- CE – safety devices.

**Technical data:**

Core inside diameter		
min.	approx.	4 mm
max.	approx.	15 mm
Core outside diameter		
max.	approx.	17 mm
Tube length		
standard	approx.	80 - 176 mm
Cutting length		
min.	approx.	27 mm
max.	approx.	170 mm
Paper web width		
max.	approx.	220 mm
Machine speed		
infinitely variable	approx.	120 cores/min
recommended	approx.	100 cores/min
Setting time	approx.	15 – 30 min
Electrical installation		400 Volt, 50 Hz 3 phase current with N and PE
Main drive		
with frequency converter		1,50 kW
Pneumatic installation		60 NL/min at 6 bar
Standard painting		
machine	signal white-structure	RAL 9003
Machine dimensions (LxWxH)	approx.	2,4 x 1,0 x 1,8 m
Net weight	approx.	920 kg

**Paper web grinding machine**

# AS 2-220

for grinding the paper web.

for extension of the convolute winding machine KSR 22-160.

The machine is equipped with:

- Unwinding device with diameter controlling system.
- Grinding device for grinding the edge of the paper web.
- Guiding rollers for correct positioning of the paper web.

**Technical data:**

Paper reel width max.	approx.	220 mm
Paper reel diameter ID	approx.	70, 76 or 100 mm
OD	approx.	1300 mm
Unwinding speed	approx.	22 m/min
Electrical installation		400 Volt, 50 Hz 3 phase current with N and PE
Main drive grinding motor		0,55 kW
Machine dimensions (LxWxH)	approx.	2,2 x 0,7 x 1,4 m
Net weight	approx.	200 kg

## **Additional features KSR 22-160:**

### **Glue pump**

with glue roller device  
for filling the glue tank.

### **Cutting unit**

With 3 knife holders incl. circular knife and carbide cutting mandrel.  
With this option the machine speed is reduced to max. 80 cores/min.  
This option is only available at 14 spindle turns.

- Each knife is spring loaded for easy adjustment.

### **Additional toolsets**

for each core ID one toolset is required.

Winding mandrel hard chrome plated.  
Carbide cutting mandrel with pusher and ejector.

### **Inkjet printing unit**

for one coloured printing of the paper web.  
Printing area approx 25,4 x 172 mm.

## **Additional features AS 2-220:**

### **Vacuum dust collector model HA 2600**

to take away the dust caused by the grinding device.  
Including motor, 0,55kW, dust filter and bags.

### **Drying tunnel SL 1800**

with variable speed control.  
Temperature controlled up to 250 degree.