

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.