



### SNSR-3

- Forming eye stop sensor
- Openable mechanism
- Inserts with different diameter



### SNSR-4

- Forming eye stop sensor
- Inserts with different diameter



### FXTN-1 Thermal

- Small termo fixation unit suitable for the thin products
- Located right above the braiding point



### FXTN-2 Thermal

- Termo fixation tunnel for final product fixation
- Quick cool down when the braider stops
- Precise temperature control up to 180°C



### GRD-5 Horn gear Cover

- Basic safety cover of the horn gear mechanism



### CPSN-2 Electronic

- Fully electronically controlled take up mechanism, with the take off discs up to 1200 mm



### CPSN-3 Wheel Set

- 6 wheel take up mechanism, suitable for the technical applications



### HC-OP 9 (12) Threads Lay Out Stand

- Applied to copper and other metal wires
- Max drum capacity: 16 pcs
- Easy operation & quick drum load
- Dimension 1400 x 500 x 1450 mm



### CH-24 Creel Holder

- 24 bobbins, 12 + 12 bobbins (mirrored position)
- Max. bobbin diameter 400 x 400 mm
- Electronic yarn sensors
- Material is tangentially unwound from the spindle



### CPSN-1 Mechanical

- Mechanical take off system regulated with the gears
- 440 mm take off disc diameter



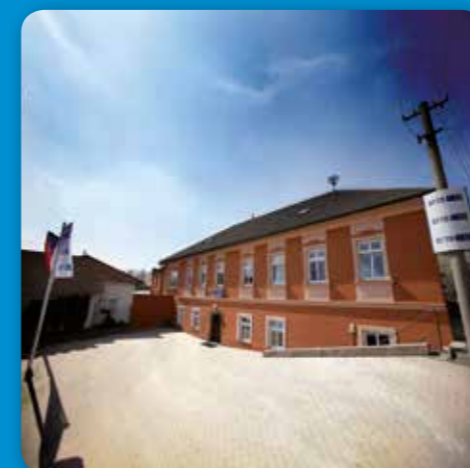
### HC-OP 8 Beehive Lay Out

- Applied to copper and other metal wires
- Easy for stacking & space saving
- Dimension 670 x 540 x 700 mm
- Tension controller from USA



### HC-W200 Semi-Automatic Copper Winding Machine

- Two winding heads
- Stable, traverse length adjustable
- Simple operation
- Smart broken wire sensor
- Equipped with counter
- Max bobbin size 65 x 210 mm



**BTTO**

**BTTO s.r.o**  
 Kladská 1082 | 500 03 Hradec Králové  
 office: Na Lánech 1 | 570 01 Litomyšl  
 Czech Republic

[www.btto.cz](http://www.btto.cz) | [sales@btto.cz](mailto:sales@btto.cz)

tel./phone: +420 464 609 850

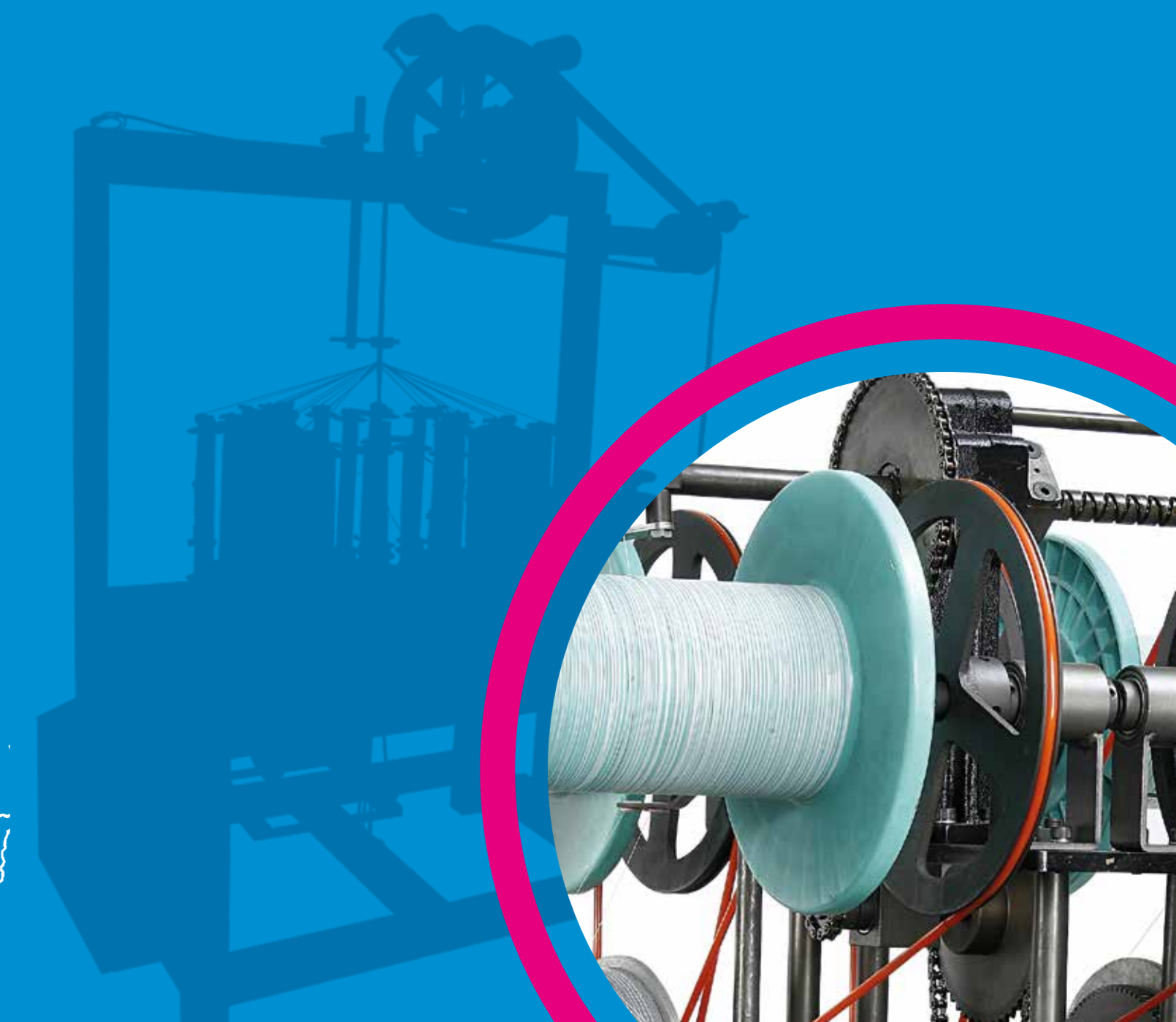


BRAIDING MACHINES SINCE 1970



EXCLUSIVE PARTNER FOR EUROPE

# OPTIONAL devices



### HC-OP 1 (4) Parallel winder

- Variants for 1, 2 and 4 heads machines
- Standard drum size  $\phi 250 \times 210$  mm
- Drum size customized, max  $\phi 370 \times 210$  mm



### HC-OP 2 Parallel winder

- Drum size  $\phi 600 \times 385$  mm
- Friction brake
- Uhing device for rope diameter setting
- Fixed mounted on the machine



### HC-OP 15 Parallel winder

- Drum size  $\phi 600 \times 385$  mm or customized
- Dancer tensioner device
- Uhing device for rope diameter setting
- Flexible device, can be connected to any machine



### HC-OP 15 / heavy

- Drum size up to  $800 \times 600$  mm
- Ready for termo fixation tunnel installation
- Modified dancer for the constant tension up to 50 kg



### HC-OP 4 cross winder

- Max winding length 300 mm, max diameter 400 mm
- Customized to customer demands
- Flexible device, can be connected to any machine



### HC-OP 3 (4) Threads Coiler



### HC-OP 5 Rubber feeder



- Width variants: 60, 90, 150 mm

### HC-OP 6 Half cover

- Standard on EU specification machines
- Sliding doors with the safety sensors



### HC-OP 14 High cover

- Safety high covers above the braiding point
- Solid front doors with safety sensors
- External ON/OFF button placed on the machine frame



### HC-OP 7 Full cover

- Anti-noise foam placed on the side and roof plates
- Including fan, LED light, door sensor, alarm light and external on/OFF button



### HC-OP 10 Individual Take Up Drum

- Drum Dimension:  $\phi 1250 \times W950$  mm or customized
- Electronically controlled lifting
- Simple Tension Adjustment
- Customised size available
- Guiding cube for ascending speed setting



### HC-OP 11 Individual Coiling Drum

- Drum Dimension:  $\phi 1000 \times W850$  mm or customized
- Electronically controlled lifting
- Guiding cube for ascending speed setting



### HC-OP 12 Meter Counter

- Total length counter
- Stop at the target length



### HC-OP 13 Alarm light

- Turns ON when the machine stops



### HC-OP 16 Touch Panel

- Optional touch panel for machine with the electrical take up
- Easy lay length setting, meter counter, statistics



### CPSN-4 Caterpillar

- Placed on the take up bridge or individually
- Suitable for technical braiding



### TU-4 Individual

- Take up unit, up to 6 drums
- Can be connected to any machine



### TU-7 Coiler

- Individual take up coiling device with the constant tension
- Can be connected to any machine



### PO-1 Individual / Constant Tension

- Individual pay off device with the constant tension



### PO-2 Individual / electronic

- Individual pay off device
- Can be connected to any machine
- Unwinding controlled electronically



### HC-OP17 Electronic platform

- Electronically controlled height of the eye stop device platform via touch panel
- Easy change of the braiding point height



### PO-4 Electronic

- Electronically controlled pay off unit, suitable for the unwinding cables used as a core in the technical applications.



### PO-3 Individual

- Can be customized to accept customers drum

