



## KNOT A

KNOT A is a fully automatic machine. Thanks to its flexibility, it is ideal for start-up production needs of twisted knot segment and/or frequent model changes.

This machine is capable to run all sizes of twisted knot segment, typically found in the market. The machine automatically loads the discs in two ways:

- blank discs that need to be punched
- pre-punched discs.

KNOT A inserts the wires to be knotted from multi-wire spools or single-wire spools. After the knotting cycle is complete, the machine automatically ejects the knotted segment outside of the machine into a container. The machine is CNC controlled and can be programmed to produce a wide variety of knotted segment.

The machine includes in the software the control of the knot with rose end, straight or trim.

- ✓ 1 knot every 1.9 seconds (max.)
- ✓ Flexible
- ✓ Automatic fill material loading
- ✓ Automatic disc loading
- ✓ Knotting control by CNC
- ✓ Integrated punching station
- ✓ Mono-strand/multiwire compatible
- ✓ Wide production range
- ✓ Plug and play installation
- ✓ Wide range of wire accepted
- ✓ Short index time
- ✓ Remote assistance module

# TECHNICAL DATA

## METAL DISCS

O.D. Min.(mm)	34
O.D. Max.(mm)	400
Thickness Min.(mm)	2
Thickness Max.(mm)	3
Pitch Diameter Min.(mm)	28
Pitch Diameter Max.(mm)	<400

## DISC MAGAZINE/PUNCHING STATION

Disc Magazine Capacity (mm)	300
Hole or Slot Size Min. (mm)	3
Hole or Slot Size Max. (mm)	6
Automatic Transfer-Punching to Knotting station	yes

## WIRE

Material(s)	S,SS,B,BC,HD
Length Min. (mm)	90
Length Max. (mm)	280
Diameter Min. (mm)	0.15
Diameter Max. (mm)	0.8

Wires per knot is dependent upon wire diameter vs. hole diameter

## OTHER

Number of Axes	4/5
Installed Power (kW)	10
Dimensions (mm)	2700 x 2700 x 2300
Weight (Kg)	2900
(OPTIONAL) Industry 4.0 Software	
(OPTIONAL) Spinning Station	
(OPTIONAL) Rack with single wire reel	

## KNOTTED SEGMENT

O.D. Min. (mm)	75
O.D. Max. (mm)	230

[For smaller/larger products including this product size range, please request Custom Sizing Quote]

## PRODUCTION

Max. Knotting Speed	1 knot every 1.9 seconds
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### Material(s) Legend

**S:** STEEL **SS:** STAINLESS STEEL **C:** COPPER **B:** BRASS  
**BC:** BRASS COATED **HD:** HARD DRAWN **N:** NATURAL  
**SY:** SYNTETIC **ALL:** ALL THE MATERIALS MENTIONED

