

**HAVEL**  
***SPIRAL***

**HOSE PROTECTOR SPIRALS**





# HAVEL SPIRAL

Havel spiral hose protectors provides superior protection for hydraulic hoses and electrical wires against wear and tear with effortless binding and installation.

Havel spiral hose guards are produced by compression from robust, recyclable polyethylene. The spiral production method ensures durable structure and user-friendly round edges. Hose guard spirals are resistant to solvents and extreme temperatures (from -60 to + 85 'C).

We also provide binding spirals (6-10 mm diameter) for small hoses and wires that allow keeping fragile cables protected and bundled together.



Havel binding spirals and hose guards are shown in the table below. Binding spirals are available in black and spiral hose guards in yellow and black. Custom orders can be made upon request (colours, delivery length and thicker spiral wall).

## Binding spirals

External diameter	Internal diameter	Standard lengths
6mm	4mm	100m
8mm	6mm	50m
10mm	8mm	50m

## Hose protectors

External diameter	Internal diameter	Standard lengths
12mm	10mm	50m
15mm	12,5mm	50m
18mm	15mm	50m
20mm	16mm	1m, 6m, 25m, 50m
25mm	20mm	1m, 6m, 25m, 50m
32mm	27mm	1m, 6m, 25m, 50m
40mm	34mm	25m
50mm	43,5mm	1m, 6m, 25m, 50m
60mm	52mm	6m, 25m
75mm	66,5mm	1m, 6m, 25m
90mm	81mm	1m, 6m, 25m
110mm	100mm	1m, 6m, 25m
140mm	129mm	1m, 6m, 25m

The diameters of Havel spirals are nominal and the actual usage range of the spiral is larger than the diameter announced, this is due to HDPE material's flexibility.



## ***SPIRAL*** **BASIC**

Havel hose protector spiral protects hoses and pipes of all machines from forest and agricultural machines to mining and construction machines. In addition to standard colors black and yellow we produce any other color by order.

## ***SPIRAL*** **MULTICOLOR**

With multicolored Havel protector spiral needed visibility for hoses in challenging places is achieved. Multicolor spiral is also good way to promote company's own colors and thus increase brand recognition.

## ***SPIRAL*** **LOGO**

Havel hose protector spiral is also available with customer's own logo. The logos are stamped practically after every 25cm, which makes it easy to cut the spiral to the requested length. By pressing the logo onto the spiral the logo is not worn out easily but stays on the whole usage time of the spiral. Logo can be stamped on spiral of any color.



# HAVEL

*SPIRAL / MECHANICS*

Hassinen Veljekset Oy started over 50 years ago as a timber carrier company. Since 1989, Havel has been developing innovative products from metal and plastic in its own workshop. The products are tested with company's own heavy machinery.

From Havel's personal demand arose the idea for our main product: hose protector. Producing method and tools have been developed in the company during the years. Many leading manufacturers and distributors of heavy machines and equipment in Finland and abroad are our regular customers.

**Hassinen Veljekset Oy**

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