

HAKKO HOSE ORIGINAL ACCESSORY/ Prevents from Kinking and Crushing

Spring Guards

[Model Number: E-HSL-(I.D.)]

Applications • Fluids

- To reinforce the hose in a case where the temperature of air or fluid is high and the hose becomes softened.
- In case the hose is dropped from a height, the spring guards can protect the hose from crushing.
- To protect the hose from kinking when the hose is bended sharply in a small space.
- To protect the surface of the hose from scraping against other components.
- To prevent the hose from bending when you handle the hose from side to side (ex. for cleaning purpose).

Specification



By installing the spring guards to the hose

Prevents bending

Secure

Safety

Model Number	Inch (Inside Diameter) (※1)	Outside Diameter of the Applicable Hose (mm)	Spring Length (mm)	Recommended Spring Pitch (mm)	Diameter of Spring Wire (mm)	Product Weight Gram/Piece	Material
E-HSL-12	1/2	18	250	4	φ1.2	57	
E-HSL-15	5/8	22	250	5	φ1.5	74	
E-HSL-19	3/4	26	300	5	φ1.5	93	
E-HSL-25	1	33	300	6	φ1.5	96	SUS304
E-HSL-32	1 1/4	41	350	7	φ2.0	203	
E-HSL-38	1 1/2	48	400	7	φ2.0	263	
E-HSL-50	2	62	500	10	φ2.0	320	

*1: Please note that inch size is approximate, which is not equal to millunit.

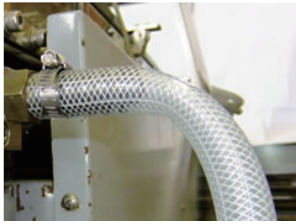
Characteristics and Functions

- Flat band is attached to one side of the spring.
- Made of rust-proof stainless steel.
- Can make fluid flow through the hose at ease by protecting from crushing.
- Can protect the part where the hose needs reinforcement.
- If the hose is prevented from bending, the life of the hose can become longer.

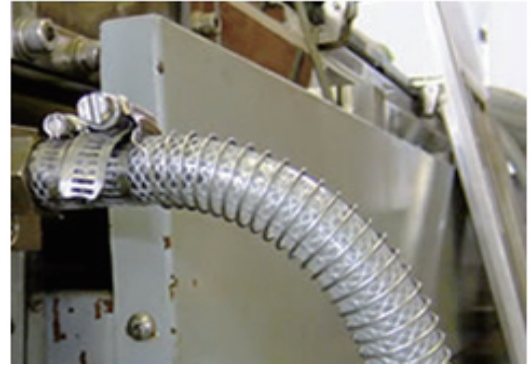
Yarn-reinforced hose is easy to kink and crush.

Prevents from kinking and crushing

It can be attached to and protect any part of the hose.



When protective spring guards are installed



EASY CHART for Spring Guards

Model Number	Hose Size (I.D. × O.D.) (mm)	Applicable Hoses										
		PRESSURE HOSE	OIL-PRESSURE HOSE	SPRING HOSE	SUNFOODS HOSE	KY SUNFOODS HOSE	KY COIL	KY SOFT BRAID HOSE	Flexible Fluorine (PVDF) Resin Yarn Reinforced Hose	Flexible Fluorine (ETFE) Resin Yarn Reinforced Hose	Flexible Fluorine (ETFE) Resin SUS Spring Wire Hose	Flexible Fluorine (ETFE) Resin SUS Spring Wire Hose (Dissipative Type)
E-HSL-12	12 × 18	E-TB-12	E-STB-12	E-SP-12	E-SF-12	E-KYS-12	E-KYC-12	—	E-PDB-12	E-SJB-12	E-SJSP-12	E-SJSD-12
E-HSL-15	15 × 22	E-TB-15	E-STB-15	E-SP-15	E-SF-15	E-KYS-15	E-KYC-15	—	E-PDB-15	E-SJB-15	E-SJSP-15	E-SJSD-15
E-HSL-19	19 × 26	E-TB-19	E-STB-19	E-SP-19	E-SF-19	E-KYS-19	E-KYC-19	—	E-PDB-19	E-SJB-19	E-SJSP-19	E-SJSD-19
E-HSL-25	25 × 33	E-TB-25	E-STB-25	E-SP-25	E-SF-25	E-KYS-25	—	E-OHB-25	E-PDB-25	E-SJB-25	E-SJSP-25	E-SJSD-25
E-HSL-32	32 × 41	E-TB-32	E-STB-32	E-SP-32	E-SF-32	E-KYS-32	—	—	E-PDB-32	E-SJB-32	E-SJSP-32	
E-HSL-38	38 × 48	E-TB-38	E-STB-38	E-SP-38	E-SF-38	E-KYS-38	—	E-OHB-38	E-PDB-38	E-SJB-38	E-SJSP-38	
E-HSL-50	50 × 62	E-TB-50	E-STB-50	E-SP-50	E-SF-50	E-KYS-50	—	E-OHB-50	E-PDB-50	—	—	

⚠ In order to use HAKKO EIGHTRON products safely, please read the following instructions carefully.
If the instructions are not observed, property damage and injuries to human body might occur.
We do not owe any responsibility, so please follow the instructions.

- "Spring Guards" prevent a flexible hose from kinking. Do not use "Spring Guards" for other purposes. Do not directly attach "Spring Guards" to food.
- Hoses should not be used below the minimum bend radius.
- "Spring Guards" extend or contract. Please be careful when handling.
- When fixing a flat band, do not tighten the band extremely. That may lead to crushing the hose.
- When you handle or install "Spring Guards," be sure to wear a pair of gloves.
- Do not place heavy object on "Spring Guards." Also, "Spring Guards" should not be running over by vehicles.
- If the high-insulated fluids, which are likely to give out static electricity, high-inflammable fluids, which are flown inside the hose, or "Spring Guards" are used under environments where there are high inflammable things around, please make sure you take out the build-in spring wires to eliminate static electricity. In case "Spring Guards" are not grounded, the Stainless Steel will become suspended conductors to accumulate and discharge static electricity, resulting in danger of causing fire.

Contact us if you have any inquiries about HAKKO products.

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HAKKO CORPORATION

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