

# Flexible holder system for Robotics

For universal use on different types of robots

# FHS – THE FLEXIBLE HOLDER SYSTEM FOR DIRECT FASTENING



## THE DESIGN MAKES ALL THE DIFFERENCE

The FHS flexible holder system consists of two base bodies and a Velcro strip, available in various lengths. It is suitable for direct and secure mounting of lines, cables or protective conduits for dynamic loads on robots. Two base body options are available, which are suitable for use in three different applications:

Both base bodies are equipped with a red non-slip coating on the surface touching the robotic arm. This coating runs all the way from the bottom to the top side for the FHS-UHE and FHS-C bodies. Ensuring gentle support and slip resistance for the inserted conduits, lines and cables as well.

FHS-SH base body



### APPLICATIONS

FHS  
with system holder  
(FHS-SH)



FHE base body



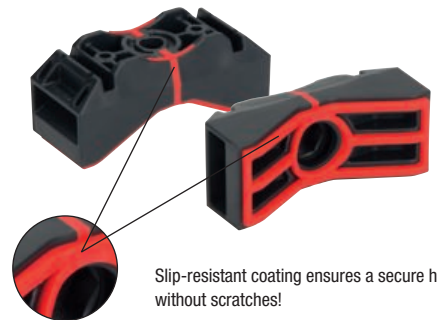
### APPLICATIONS

FHS  
with one-piece universal  
holders (FHS-UHE)



### APPLICATIONS

FHS  
without universal holder,  
with looped Velcro strip (C)



# THE MULTITASKING-TALENT

## TWO BASE BODIES – THREE DIFFERENT APPLICATIONS:

### FHS-SH

Flexible holder system with system holder (SH)



### FLEXIBLE LINE ROUTING

- For routing and stabilizing smaller cable packages
- As original equipment and for retrofitting
- For sliding or fixed assembly on the corrugated conduit
- Strain relief with reducing cable wear

### FHS-UHE

Flexible holder system with one-piece universal holders (UHE)

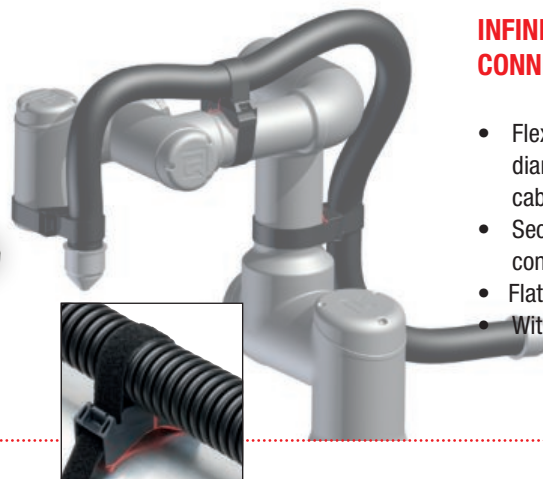


### RELIABLE AND QUICK ASSEMBLY

- Easy replacement of the corrugated conduit
- Retrofitting, with low cable wear
- “Captive” clamping bracket, because of one-piece construction

### FHS-C

Flexible holder with looped Velcro strip (C)



### INFINITELY VARIABLE DIRECT CONNECTION

- Flexible lengths for various diameters of the robot arm, lines, cables and protective conduits
- Secure and low cable wear direct connection without holder
- Flat, compact design
- Without tools and loose components

# READY TO USE ANYWHERE

## ACCESSORIES AND ADD-ONS FOR EASY AND SECURE ASSEMBLY ON DIFFERENT

### FHS-SH ACCESSORIES

Specially designed components for dynamic applications make them suitable for a wide range of uses.

#### STRAIN RELIEF

**KEG-ZL**  
(with cable ties)



**KEG-K**  
(with cable star)



#### BALL JOINTS

**KMG-F**  
(fixed)



**KMG-G**  
(sliding)



The FHS-SH system, with the SH system holder M25/M32, is suitable for M25/P21 and M32/P29 corrugated conduit sizes.

The flexible holder system can be individually equipped by using the system holder inlays.

### FHS-UHE ACCESSORIES

Special components for light loads.

#### UNIVERSAL HOLDERS

**UHE M32/P29**  
**UHE M25/P21**  
(not shown)



#### END SLEEVES

**ET-EN**



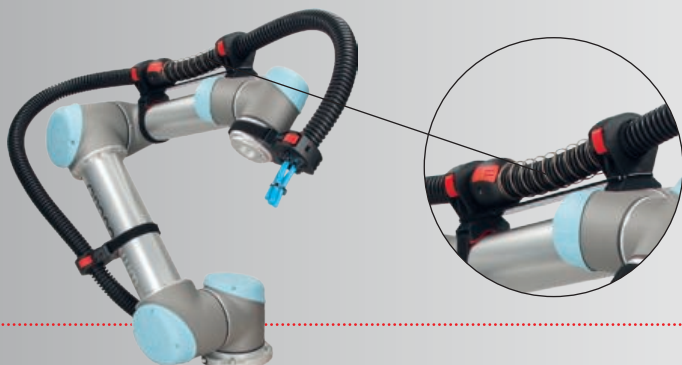
The one-piece universal holder UHE is available for two different corrugated conduits: UHE M32/P29 and UHE M25/P21.

The end sleeve serves as closure on the open end of the corrugated conduit or as centring device for protruding lines. It has the advantages of an easy installation and a variable opening.

### FHS EXTENSIONS

#### RECIRCULATION SYSTEM

**FHS-RS**



The recirculation system can be installed as a simple and space-saving solution with a length compensation of 150 mm. Quick and easy installation of the flexible holder system, for instance on a small robot without mounting options such as holes or threads.

**WRIST SUPPORT**

**R-SSR**



In case of higher loads, a wrist support can be installed on axis 6 - instead of the flexible FHS holder system, which can then hold a system holder with strain relief (M25/P21 or M32/P29).



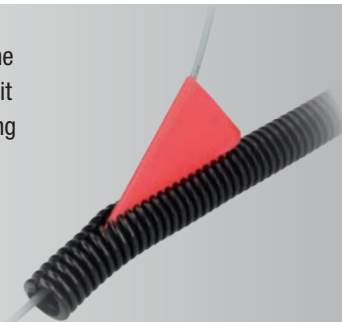
**WIRE INSERTION TOOL**

**KE**



The Murrplastik KE wire insertion tool facilitates the subsequent insertion of cables into slotted and split cable protection conduits and features the following advantages:

- Fast insertion of cables
- Very easy handling
- No unnecessary deformation of the conduit



Murrplastik, as the industry leader, offers a modular holder system, which provides a secure hold, doesn't slip and fits anywhere!

Request your information now! Give us a call or visit us online at [www.murrplastik.de](http://www.murrplastik.de)



**www.mp.de**

**Germany (Headquarters)**

Murrplastik Systemtechnik GmbH  
Postfach 1143  
71567 Oppenweiler  
☎ +49 7191 4820  
www.murrplastik.de  
info@murrplastik.de

**America (North/South)**

Murrplastik Systems, Inc.  
1175 US Highway 50  
Milford, OH 45150  
☎ +1 513 201 30 69  
www.murrplastik.com  
cablemgmt@murrplastik.com

**China**

Murrplastik Asia Co., Ltd.  
1802 Rm. No. 218  
Hengfeng Rd.  
200070 Shanghai  
☎ +86 21 512 869 25  
www.murrplastik.com.cn  
info@murrplastik.com.cn

**Denmark**

Filial af  
Murrplastik Systemtechnik GmbH  
Tyskland, Stenager 2  
6400 Sønderborg  
☎ +45 2347 00 24  
www.murrplastik.dk  
info@murrplastik.dk

**France**

Murrplastik S.à.r.l.  
Zone industrielle Sud,  
6 rue Manurhin B.P. 62  
68120 Richwiller  
☎ +33 389 570 010  
www.murrplastik.fr  
info@murrplastik.fr

**Italy**

Murrplastik Italia S.r.l.  
Via Circo, 18  
20123 Milano  
☎ +39 02 856 805 70  
☎ +39 392 3456 456  
www.murrplastik.it  
info@murrplastik.it

**Austria**

Murrplastik Systemtechnik GmbH  
☎ +43 732 660 870  
www.murrplastik.at  
info@murrplastik.at

**Russia**

Офис компании  
Murrplastik в Москве  
Gilyarovskogo 57, building 1  
129110 Moscow  
☎ +7 495 684 17 37  
www.murrplastik.ru  
info@murrplastik.ru

**Switzerland**

Murrplastik AG  
Ratihard 40  
8253 Willisdorf  
☎ +41 52 646 06 46  
www.murrplastik.ch  
info@murrplastik.ch

**Spain**

Murrplastik S.L.  
Paseo Ubarburu, 76  
Pabellón 34, polígono 27  
20014 San Sebastián  
☎ +34 943 444 837  
www.murrplastik.es  
info@murrplastik.es

