

# Flexible holder system for Robotics

For universal use on different types of robots



**GERMAN  
INNO  
VATION  
AWARD '19  
WINNER**

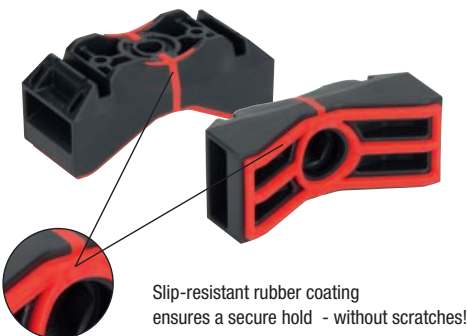
# FHS – THE FLEXIBLE HOLDER SYSTEM



## THE FLEXIBLE HOLDER SYSTEM FHS – FOR DIRECT FASTENING AT THE COBOT

The FHS flexible holder system is a unique modular holder system for dynamic energy supply to cobots. It provides a secure, non-slip grip and fits on different surfaces and radii. It can be installed quickly, easily, space-saving, subsequently and without tools.

With the use of holder systems, strain reliefs and ball joints, extensibility is guaranteed at all times. A special feature is the unique FHS-RS recirculation system, a complete set for length compensation of the energy supply system.



### APPLICATION

FHS with system holder (FHS-SH)



### APPLICATION

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



### APPLICATION

FHS without universal holder, with looped Velcro tape (FHS-C)



# READY TO USE ANYWHERE

## ACCESSORIES AND EXTENSIONS 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**  
(gliding)



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-SH ACCESSORIES

Special components for low loads.

#### UNIVERSAL HOLDERS

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



#### END GROMMETS

**ET-EN**



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

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

### EXTENSIONS

#### TENSION CLAMP

**R-SSR**



In case of higher loads, a tension clamp 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).

Application example



#### WIRE INSERTION TOOL

**KE**



**WE OFFER CUSTOMER-SPECIFIC COBOT SETS\* FOR:**



Assembly videos for the flexible holder system FHS can be found on our YouTube channel.

\*Cobot sets for other manufacturers on request

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



Application example

„We are a leading manufacturer of a modular holder system, which provides a secure hold, does not slip and fits anywhere!“

Request your information now!  
Give us a call ☎ +49 7191-4820 or visit us online at [www.mp.de](http://www.mp.de)

# THE MULTITASKING TALENT

## TWO BASE ELEMENTS – THREE DIFFERENT APPLICATIONS:



### FHS-C



Flexible holder system with looped Velcro tape (C), without universal holder

### INFINITELY VARIABLE DIRECT CONNECTION

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

### 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
- “Undetachable” clamping bracket, because of one-piece construction
- To prevent axial shift of the corrugated conduit
- For dynamic, easy applications

### FHS-SH



Flexible holder system with system holder (SH)

### FLEXIBLE CABLE ROUTING

- For routing and stabilising smaller cable packages
- For slow to mid-speed travel
- Initial equipment and subsequent installation
- For gliding or fixed assembly on the corrugated conduit
- Strain relief with low cable wear

### FHS-RS



Recirculation system (RS)



✓ User-friendly handling

✓ Subsequent assembly without tools

✓ Outstanding price/performance ratio

✓ Secure, non-slip grip



**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  
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



1101SW

MP89022834506