Mounting Technology

Mounting technology is the art of guiding hoses and piping and securing a wide variety of components to a frame in the design of mobile and industrial equipment. HYDAC understands the unique needs of the different types of conduits, reservoirs, machine architecture and environments needed to act as an expert consultant.

HYDAC’s wide range of mounting products that go from standard to completely customized combined with our know-how can give you the tools to complete your build in an economical, reliable, and efficient manner. Explore the HYDAC offerings below!

Ask your HYDAC representative about our Mounting Technology Best Practices guide or contact us here for more information:

Accessories.ATS@HYDAC-NA.COM

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
OVERVIEW OF MOUNTING TECHNOLOGY

Band Straps

- Flat
- Round
- Round with Pipe Mount
- Prebent

Standard Clamps

- HRBGS
- HUB
- HRRBS
- HSPN

DIN 3015 & Series Strips

- HRL
- HREL
- HRZ
- HRL

Custom Clamps

- HY-ROFLEX

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Band Straps

Flat Straps - Mounting Reservoirs to Your Frame
Mounting for non-cylindrical objects such as plastic fuel tanks
Options for:
- Material
- Fasteners
- Length, Width, Thickness
- Rubber Inserts

Swivel Bolt Clamps - Mounting Cylindrical Components to Your Frame
Formed Band Straps to hold cylindrical pieces such as reservoirs, accumulators, and pipes.
Options for:
- Material
- Bases
- Length, Width, Thickness
- Rubber Inserts

Swivel Bolt Clamps - Mounting Pipes to Cylindrical Components
Formed band straps with a variety of bases with other clamps attached in order to mount additional pipes/cables.

Special Straps - Prebent Straps Tailored to Your Needs
Special pre-bent band straps with options to weld custom attachment points formable to almost any geometry

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Band Straps

In addition to the material type and dimensional qualities of our clamps, many options exist for other aspects, such as:

Fastening Method

Attachments and Fixtures for guiding and mounting other components

Band Straps are highly customizable. For non-standard applications consult the experts at HYDAC to see if band straps could be viable for you!

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Clamps Overview
HYDAC manufactures a complete line of hose, tube, and pipe mounting components according to the DIN 3015 standard. Our clamps assure a simple, reliable dampening support for lines which absorb shock, dampen vibration, and reduce noise in plumbing systems.

HRL Series – Standard Duty
• Available to 2” tube outside diameter.
• Recommended for systems with less than 1500 PSI operating pressure and no dynamic loads.

HRS – Heavy Duty
• Available to 16” nominal pipe size
• Recommended for systems with greater than 1500 PSI operating pressure, operations with pressure surges and applications with wide temperature fluctuations.

HRZ – Twin
• Available to 1-1/4” nominal pipe size
• Recommended for systems with less than 1500 PSI operating pressure and no dynamic loads

HREL – Standard Duty w/ Rubber Insert
• Available to 2” tube outside diameter
• Recommended for systems with less than 1500 PSI operating pressure and no dynamic loads
• Provide for greater noise reduction and resistance to axial movement

HRES – Heavy Duty w/ Rubber Insert
• Heavy duty available to 5 1/4” bore diameter
• Provide for greater noise reduction and resistance to axial movement

Bore Styles
Standard duty, heavy duty, and twin series are available with either ribbed bores (standard) or smooth bore (special order). When ordering a smooth bore arrangements or clamp pairs, a “G” is inserted in the code directly after the “HR” i.e. HRGL, HRGS and HRGZ

Arrangements
Various arrangements are available in each series.

Materials
Metal components are carbon steel (standard). Stainless steel is also available. Metal components to be welded (weld plates and c-rails) and heavy duty top plates size 5-8 are phosphate coated, while all other metal components are zinc plated. Clamp pairs are polypropylene (standard). Polyamide and aluminum clamp pairs are also available.

Ordering
Clamps can be ordered as complete arrangements, or separate components. See each series for details.


**Mounting Technology**

**HRRL & HRRLE Series**

**Series Strip Clamps**

**Description**

For OEM's requiring solutions for multiple line runs HYDAC offers customized series strips. These clamps reduce inventory and installation time, while providing a more compact solution than multiple DIN 3015 clamps. The design and dimensions are based on the DIN 3015 specifications set forth for single and twin clamps. The Series Strip Program, echoes that of the DIN 3015 Clamps in that it offers similar arrangements, sizes, options, and model coding.

**Arrangements**

**HRRL Series:** Standard Duty

**HRRL Series:** Heavy Duty with Rubber Inserts

![HRRL Series Diagram](image)

![HRRLE Series Diagram](image)

**Number of Lines & Bolts**

**HRRL Series:** Standard Duty  
*(diameter range: 6 to 25.4 mm)*

2 Lines / 2 Bolts (HRRL...2 X.../2...)

3 Lines / 2 Bolts (HRRL...3 X.../2...)

4 Lines / 2 Bolts (HRRL...4 X.../2...)

4 Lines / 3 Bolts (HRRL...4 X.../3...)

6 Lines / 3 Bolts (HRRL...6 X.../3...)

10 Lines / 5 Bolts (HRRL...10 X.../5...)

**HRRLE Series:** Heavy Duty with Rubber Inserts  
*(diameter range: 6 to 56.4 mm)*

2 Lines / 1 Bolt (HRRLE...2 X.../1...)

2 Lines / 2 Bolts (HRRLE...2 X.../2...)

3 Lines / 2 Bolts (HRRLE...3 X.../2...)

4 Lines / 2 Bolts (HRRLE...4 X.../2...)

4 Lines / 3 Bolts (HRRLE...4 X.../3...)

6 Lines / 3 Bolts (HRRLE...6 X.../3...)

**Ordering**

Series Strip Clamps are a custom product which must be quoted on an individual project basis. As with DIN 3015 Clamps, the Series Strip Clamps can be ordered as complete arrangements or as individual components. Series Strip Clamps are available with differing bore sizes. Contact HYDAC at 1.877.GO.HYDAC (1.877.464.9322) with your specifications to request a quotation.

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Standard Clamps

In addition to the DIN 3015 Clamps HYDAC offers other standard products that assure a simple, reliable dampening support for lines which absorb shock, dampen vibration, and reduce noise in plumbing systems. Please contact HYDAC to discuss what product is right for you and your application.

HRBGS Series
Buegu Clamps

Flying Clip Clamp

HUB Series
U-Bolt with Cushion Clamps

HRRBS Series
U-Bolt Clamps

HOM Series
Flat Cushion Clamps

CUSH Series
Cushion Clamps

HSVW & HLVZ Series
“P” Style Loop Clamps (Vinyl Dipped Galvanized Steel)

HROS Series
Oval Clamps

HSPN & HSPW Series
“P” Style Clamps

Details and ordering information for all standard clamps listed above can be found in the full Accessories Catalog.
Custom Clamps
HY-ROFLEX Series
Power Cable Clamps

Features
- Quick and easy installation of power cables “one click”
- Non-damaging and secure clamping of the power cable
- HR-ROS clamping bands provide a secure hole in the event of a short circuit.
- Ensures easy maintenance due to clear distribution of cable bundles and excellent accessibility to individual cables.
- Quick replacement
- Up to 27 power cables (max. 9 segments with 3 cables in each) can be installed in modular or flexible combinations of clamps segments
- Compensation of manufacturing tolerances in the cables achieved by means of spring-action fastening.

Technical Specification

Diameter
Variable to suit all commonly-used cable diameters up to ø73 mm (individual cables)

Materials
- PPVO
- HY-ROFLEX Clamping band in stainless steel
- HY-ROS Support set in zinc-plated steel

Temperature range
-40°F (functional) up to +194°F

Subject to technical modifications

Segments and Inserts

This is a custom clamp. For new projects contact HYDAC for design and ordering information.

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