

MERKUR²

Presenting an unique wire mesh cable tray system

The leading cable support system in CZ

QUALITY
EFFICIENCY
RELIABILITY

10 year warranty

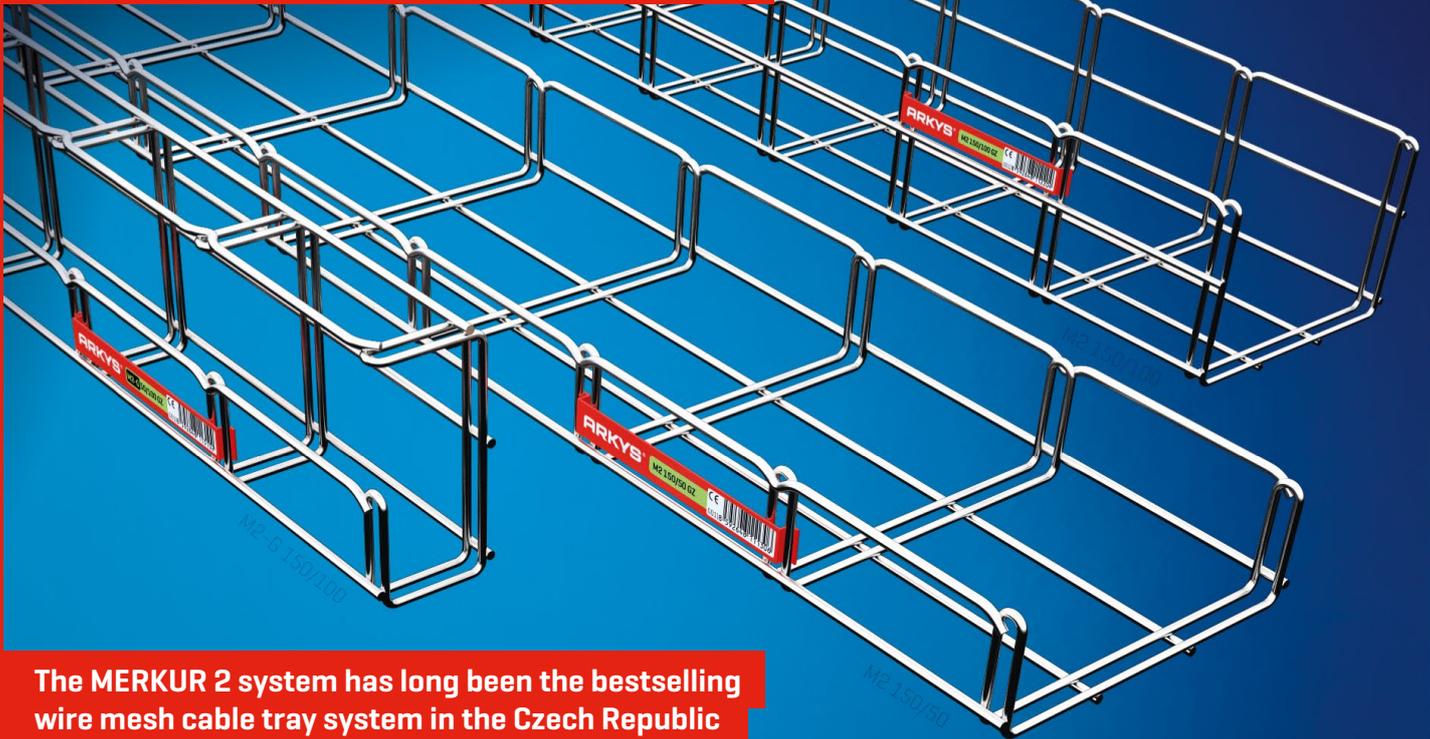


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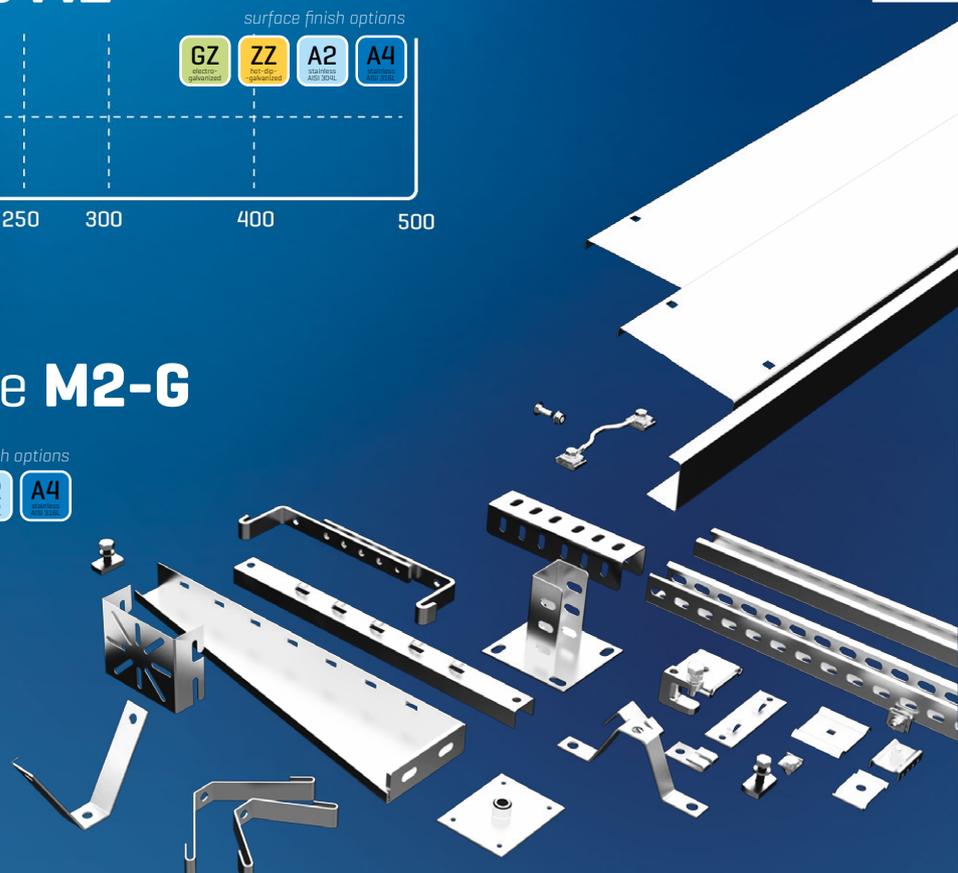
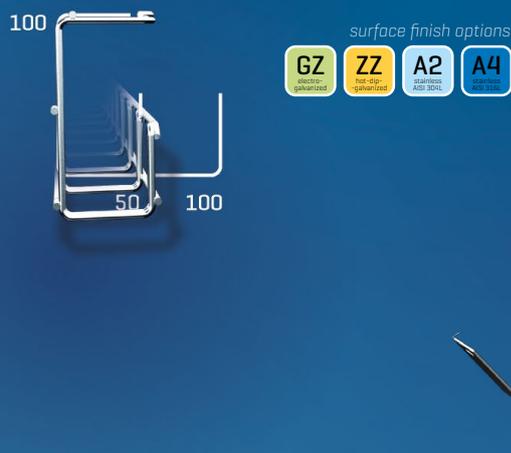


The MERKUR 2 system has long been the bestselling wire mesh cable tray system in the Czech Republic and "MERKUR" has gradually become synonymous with wire mesh cable tray systems on the Czech market.

MERKUR 2, type M2



MERKUR 2, type M2-G



Why choose MERKUR 2

> Efficiency and economy

Fast and easy installation

The low weight of MERKUR 2 wire mesh cable trays combined with their optimum production lengths, high variability and the flexibility of the system facilitate easy and quick installation of shaped cable routes elements as needed and directly at the installation site. These are the primary characteristics of the MERKUR 2 system that enable its very efficient installation. With the MERKUR 2 system, cable routes with complicated shapes can be resolved with minimal financial costs for shaped elements and using only common tools.

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Simple logistics

MERKUR 2 wire mesh trays do not require any special fittings like standard cable trays. No elbows, T-parts, crosses, reducers, vertical elbows or other similar elements are required. These parts are formed directly at the installation site from wire mesh tray components which are shaped as needed using simple well thought-out connecting components. Thanks to this, you are able to handle even unexpected situations on the spot. The tray components are used to create any necessary fittings and to adjust tray routing based on the current situation.

Easy cable branching

Simplicity is one of the basic features of MERKUR 2 trays. It is possible to exit the tray at any point, without the use of special tools and cable glands. This type of installation is much more cost effective and simpler in terms of logistics.

Minimum maintenance requirements

The open construction of the MERKUR 2 trays eliminates the accumulation of dust and the growth of microbes, which means regular cable routes maintenance requirements are minimised. This feature makes these trays very popular among others in the food industry.



> High-quality and well thought-out

High load capacity

MERKUR 2 wire mesh cable trays can take high loads by using patented double crossbeam technology and optimising the distribution of load-bearing wires. Their strength and durability make them perfect for a wide range of installations.

High current carrying capacity

Thanks to their open construction, MERKUR 2 wire mesh trays provide easy access to installed cabling and significantly better cable cooling compared to enclosed cable trays. This enables higher current carrying capacity in the cables themselves.

> Robust and durable

Galvanized or stainless-steel design

The MERKUR 2 system is supplied in an electro-galvanized finishing option, called GZ, suitable for standard indoor installations. A hot-dip galvanized version called ZZ is available for exposed, outdoor environments. The top of the range are two types of stainless-steel design. Type A2 [AISI 304L standard] for use in the chemical and food industries. Type A4 [AISI 316L standard] is designed for particularly aggressive types of environments. Both stainless steel versions are complemented by surface passivation of the finished parts, which further increases the anti-corrosion resistance of the stainless-steel materials by up to 4 times. The type of surface treatment corresponds to the provided warranty.

Gentle on more than just cables

The generally round design of wire mesh trays edges eliminates the risk of damage to the cables during their installation and at the same time contributes to convenience and safety during all phases of the wire mesh cable tray installation.

Solutions for every situation

The MERKUR 2 system offers solutions for all standard types of installation situations [wall, spatial routing, riser installations, etc.]. In addition, the system is very flexible in terms of non-standard installation types and requirements for special solutions such as lighting circuit installations, combined installations comprising different media together with power and low voltage trays, and more.

more on the next two pages >

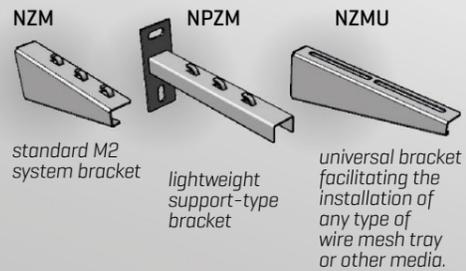
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MERKUR 2 system mounting options

Standard wall mounting

Applications
for horizontal cable route installations with one or more floors. The number of floors is not limited. Each floor of such a route is anchored separately and can therefore be considered as a separate duct.

Installation
the following types of brackets can be used for the wire mesh trays:



Combined wall mounting

Applications
for horizontal cable routes installations over several floors, or routes in situations where there is reduced load capacity of the masonry into which the wire mesh tray is anchored. The grouping of wall-mounted trays to the supporting element is effective in terms of multi-storey installations and ensures better anchoring, especially for trays with larger widths.

Installation
the following strut channels can be used for the route:



the following types of brackets can be used for the duct:



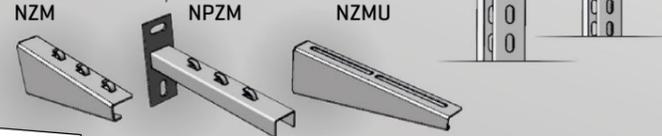
[*] wall installation

Suspended spatial mounting

Applications
for horizontal cable routes installations with one or more floors leading through the space and where greater cable routes load-bearing capacity is required

Installation
the wire mesh tray is installed on an STPM free-standing rail strut fixed to the ceiling using DZM, STP, or DZM STPU brackets.

the following types of brackets can be used for the wire mesh tray.



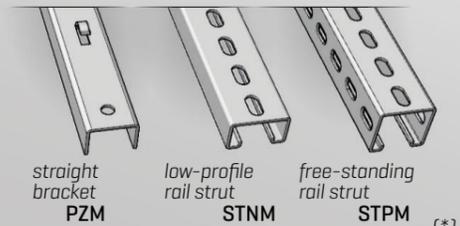
[*] free-standing installation

Suspended mounting

Applications
for simplified horizontal cable route installations with one or more floors through a space.

Installation
the wire mesh tray is installed on threaded rods anchored to the ceiling structure using anchors or the brackets supplied with the system.

the following types of load-bearing elements can be used for the wire mesh tray:

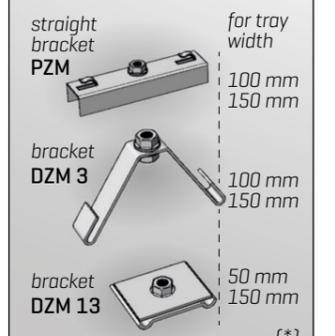


Suspended mounting

Applications
for horizontal cable routes installations with one or more floors through a space. Suitable for wire mesh trays with standard load capacity requirements.

Installation
the wire mesh tray is installed on threaded rods anchored to the ceiling structure using anchors or the system brackets.

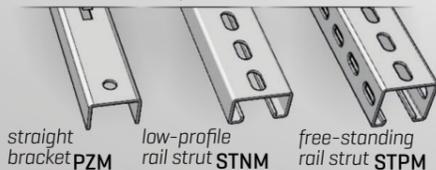
the following types of load-bearing elements can be used for the route:



Flat mounting

Applications
for vertical cable routes risers. At the same time, it can also be used for flat wall or ceiling surface-mounted wire mesh cable tray installations.

Installation
the following types of load-bearing elements can be used for the wire mesh trays:



[*] You will find complete installation instructions in the catalogue or can request them from our distributor.

surface-mounted installation

Ceiling surface-mount mounting

Applications
for simplified horizontal cable routes installations attached directly to the ceiling structure or anchored to the ceiling. A special construction of M2-G wire mesh trays designed specifically for this type of cable routes installation is used.

Installation
the wire mesh tray is installed directly using DZM 12 brackets.

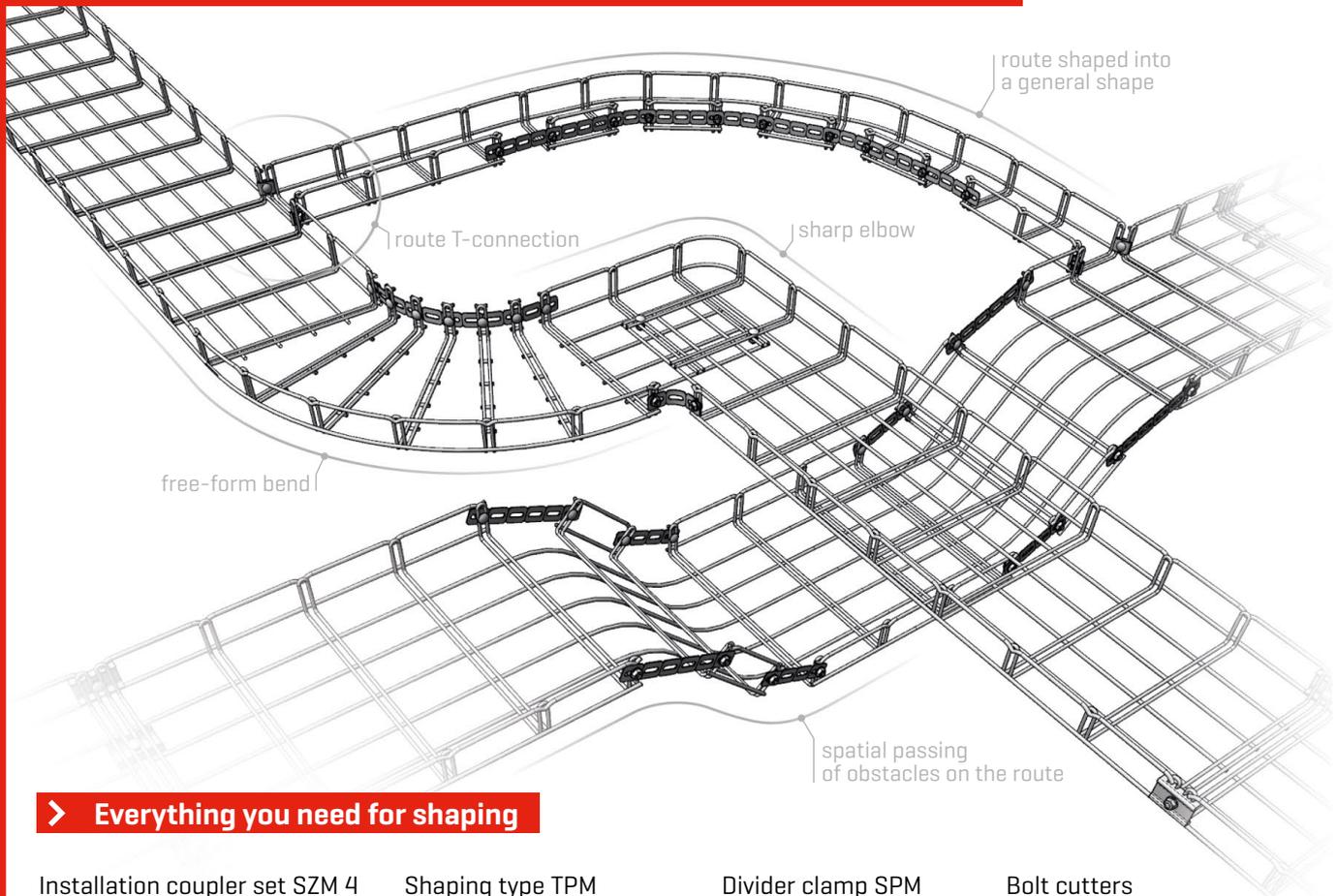
LIGHT wall mounting

Applications
for simplified wall cable routes installations attached directly to the wall. This mounting is suitable for wire mesh trays 50 and 100 mm wide.

Installation
the wire mesh tray is installed directly using DZM 12 brackets

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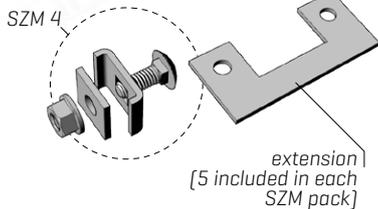
Shaping with extraordinary flexibility



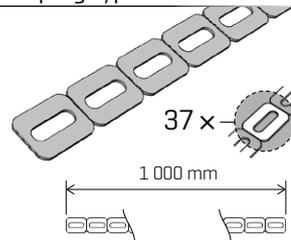
> Everything you need for shaping

Installation coupler set SZM 4

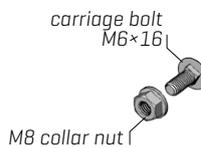
Basic forming connector



Shaping type TPM



Divider clamp SPM



Bolt cutters

Lever-action cutters with side blade



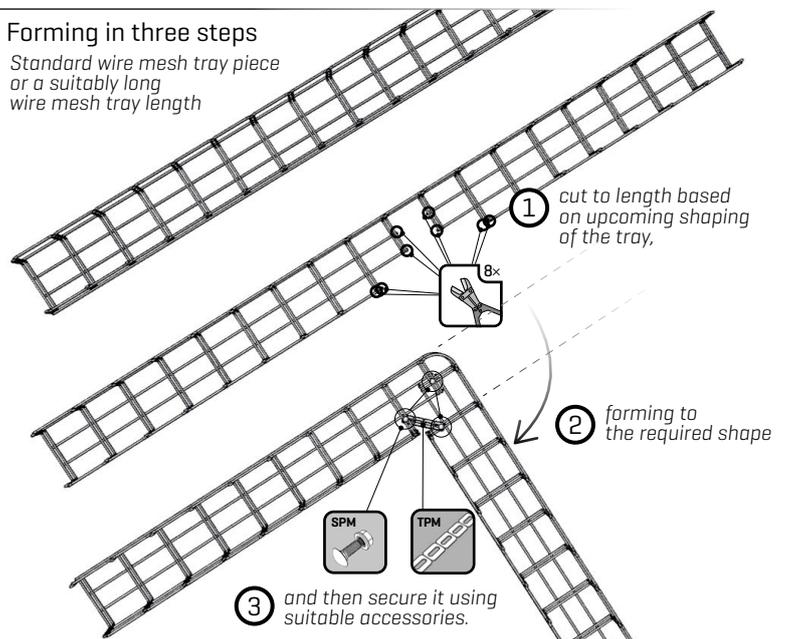
[suitable cutters are offered for the MERKUR 2 system]

> Forming is easy

Forming MERKUR 2 wire mesh cable trays is very simple. SZM 4 coupler set and TPM shaping type [and even the SZM 4 coupler set can be replaced with TPM shaping type] are all that are required to create a cable route in practically any shape [wire mesh cable trays offer incomparable freedom in terms of possible shapes and configurations]. Bolt cutters are the only less common tool required [MERKUR lever-action cutters with side blades suitable for separating wire mesh trays at the cross welds are delivered with the system]. A clear manual covering the design of basic shape elements is also available. The manual covers a right-angled bends, successive bends [rectangular bend with a larger radius], and T-forms for every wire mesh tray size. The manual also describes the design of cable routes crossings, connections and spatial passing of obstacles]. The manual covers all standard situations, but as mentioned, there are no limits to your imagination and it is possible to create practically any shape from ordinary MERKUR 2 wire mesh trays.

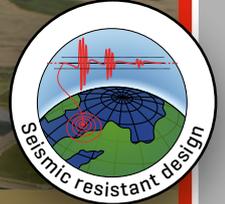
Forming in three steps

Standard wire mesh tray piece or a suitably long wire mesh tray length



MERKUR²

excellent choice for durable
wire mesh cable trays



> Mechanical resistance in extreme situations

The MERKUR 2 system has passed seismic suitability tests per ČSN standards for use in the Temelín and Dukovany nuclear power plant buildings.

Based on the results of these tests, MERKUR 2 system is approved for wire mesh cable tray installations with seismic functionality requirements. Successful completion of tests of this type testifies to the exceptional durability and functionality of the MERKUR 2 system, which can be used in a number of applications.

Cable routes CONFIGURATOR

Smart assistant for the preparation
and implementation
of cable ducts

helps with cable routes sizing
provides cable routes installation options
creates a list of materials
sends a pricing inquiry



You can find
the Cable Route
Configurator
application at:
www.merkur2.eu



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Information and details about the individual elements of the system and its options for wire mesh trays installations are provided in our publications:

MASTER CATALOGUE

complete overview of system elements and their use for the installation of MERKUR 2 system



FORMING MANUAL

pocket format manual with an overview of wire mesh trays shape elements and instructions for their implementation



Current catalogues can be found on our website:

Request them in print from our distributors.



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