

产品概览 · Programme overview



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PFLITSCH[®]
Passion for the best solution

<http://www.cfs-autos.com>

Passion for the best solution

Passion for the best solution

近百年来，家族企业 PFLITSCH 一直是在技术和服 务领域内的创新专家。这家注重未来发展的中型企业以“怀揣对探索最佳解决方案的激情”令其全球的客户信服。为客户提供最佳个性解决方案的热诚、强大的创新能力和客户至上的理念是这家坐落于德国许克斯瓦根的家族企业的成功之道。

PFLITSCH 产品以“德国制造”的高质量电缆接头和线槽在全球享负盛名。PFLITSCH 产品始终与品质承诺相伴：其六角形的以及具有典型特征的十二个凹槽的商标在业界众人皆知。PFLITSCH 被视为全球的技术带头人。这家中型企业将创新的产品技术、基础的 CAD 模型设计以及现场组装等一系列服务完美地结合起来。

PFLITSCH, a family-owned and managed company, has been an innovative technology and services expert for almost 100 years. Inspired by the catchphrase “Passion for the best solution”, the medium-sized future-oriented company continues to impress its global customer base. A passion for individual solutions, strength of innovation and customer-focus are the formula for success of the family firm from Hückeswagen.

The company is proud of its cable glands and trunking, which epitomise the quality associated with “Made in Germany” all over the world. PFLITSCH products carry a promise of quality: the hexagonal trademark with its characteristic twelve grooves is very well known in the industry. PFLITSCH has made a name for itself as an international leader in this field of technology. The medium-sized company offers innovative product solutions in combination with a range of services that extends from CAD planning and design right up to ready-to-install component assemblies.



图 1 - PFLITSCH 厂区
Fig. 1 - PFLITSCH premises

为客户量身定制的产品在世界各地随处可见。PFLITSCH非常了解该行业的不同要求。从要求抗振动，到耐化学品的腐蚀再到良好的可清洁性：PFLITSCH以极大的热忱与客户一起开发出适合的解决方案。

目标市场是：

- 铁路业
- 化工/油气
- 电气工业
- 能源
- 食品工业/制药
- 机械和设备制造/机器人和自动化行业
- 通讯业

PFLITSCH 通过其遍布全球的销售网络做到贴近客户。因此，在为客户做量身定制解决方案的过程中，PFLITSCH 扮演伙伴和专家的角色。我们会一如既往地理念和客户的要求逻辑性地结合起来实现市场真正所需要的方案。

通过贯彻始终的质量管理体系，PFLITSCH 一直保持着德国高品质的姿态，并且通过了一系列国内外著名的检测机构进行认证。企业自设的测试实验室里有丰富的设备可供使用。其中包括模拟气候舱、拉伸机、冲击和压力测试机，以及防尘和防水测试设备，PFLITSCH还可以按照客户的特定要求进行测试。我们在一个单独的电磁兼容性测量实验室内全面测试电磁兼容式电缆接头。

以上项目概览为 PFLITSCH 电缆接头和线槽项目的缩影。

Its customer-specific applications can be found all around the globe. PFLITSCH knows the specific requirements of each different industry. From resistance to vibration and chemicals to good cleanability: PFLITSCH works with its customers to arrive at a suitable solution. With passion.

Target markets include:

- Railway industry
- Chemical industry/oil and gas
- Electrical industry
- Energy
- Food industry/pharmacy
- Machine and equipment/robotics and automation
- Telecommunications.

PFLITSCH remains close to its customers through a worldwide network of sales partners. PFLITSCH works as a partner and an expert when developing individualised solutions with its customers. In this way, ideas and requirements are logically and consistently realised as market-ready solutions.

PFLITSCH guarantees a continuously high level of quality through its rigorously applied quality management system. Certification is by national and international accreditation and testing institutes. The company's in-house laboratory has an extensive range of equipment, including climate chambers, tensile, impact and compressive testing machines and dust and watertightness testing chambers, which is also the option for customer-specific tests. EMC cable glands are thoroughly put through their paces in a separate EMC laboratory.

The accompanying summary of our product range gives a concise overview of PFLITSCH cable glands and trunking.



图 1 - PFLITSCH 公司厂区
Fig. 1 - Factory premises of PFLITSCH

图 2 - PFLITSCH 巡展车
Fig. 2 - The PFLITSCH show truck

图 3 - PFLITSCH 参展 2015 年德国纽伦堡工业自动化及元件展 (SPS) 时的展台
Fig. 3 - PFLITSCH trade fair stand at the SPS 2015 in Nuremberg

blueglobe® – 远高于标准，
能满足最高的保护要求

blueglobe® – Far better than
the standard for the most
exacting requirements



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图 1 – blueglobe® 电缆接头
Fig. 1 – blueglobe® cable gland

图 2 – 符合卫生型设计要求的 PFLITSCH 电缆接头
Fig. 2 – PFLITSCH cable gland complying with hygienic design

图 3 – blueglobe HT® 用于高温范围
Fig. 3 – blueglobe HT® for high temperature ranges

产品描述

- 产品种类虽少，但是应用范围极广
- 球形密封内塞，确保具有很高的抗拉力，可达欧洲标准 EN 62444 B 级
- 可分离的多孔内塞广泛用于密封领域
- 保护等级 IP 68 至 15 bar 和 IP 69K
- 由黄铜、不锈钢和塑料等制成的接头外壳
- 由 TPE 和硅胶制成的密封插件内塞
- M8 至 M85，电缆直径从 2 mm 至 76 mm
- 上盖和密封内塞上有明确的标记
- 适用于卫生条件要求极高的应用场合
- 其不同型号按照 EHDG 和 DGUV 标准通过测试认证
- 防爆和电磁兼容性解决方案 (参见第 6+7 页)
- 高压型号满足保护等级 IP 68 至 30 bar (直至一个小时) 的要求

Product description

- Low number of parts for a wide range of applications
- Spherical sealing insert ensures very high strain relief up to class B, EN 62444.
- Removable inlet for high sealing ranges
- Type of protection IP 68 up to 15 bar and IP 69K
- Cable gland bodies of brass, stainless steel and plastic
- Sealing inserts of TPE and high-temperature silicone
- M8 to M85, cable diameters from 2 mm to 76 mm
- Clear markings on the pressure screw and sealing insert
- Variant available for hygienic applications certified by EHDG and DGUV
- Explosion protection and EMC solutions (see pages 6+7)
- High pressure variant fulfils type of protection IP 68 up to 30 bar (up to one hour).

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UNI Dicht® – 利用模块标准
构件实现个性化的解决方案

UNI Dicht® – Individuality
thanks to the modular system



产品描述

- 包含 6000 个元件在内的系统标准构件可实现个性化的解决方案 (M4 至 M120/ Pg 7 至 Pg 48)
- 用于单根或多根电缆、扁形电缆和特种电缆以及预制组件电缆的密封内塞
- 由黄铜、不锈钢、PA 和 PVDF 塑料制成的接头外壳
- 由 TPE、TPE-V 和硅胶制成的密封内塞在很大的工作温度范围内具有良好的稳定性
- “软性挤压”确保能达到保护等级 IP 68 (至 10 巴)/IP 69K
- 公制和 Pg 制连接管螺纹以及 NPT 和英寸连接管螺纹
- 用于 90° 电缆路由器的弯头接头
- 可与软管配合使用 (参见第 8 页)
- 防爆和带屏蔽的解决方案 (参见第 6+7 页)
- 防火等级可达 EN 45545 的标准

Product description

- Modular system with more than 6,000 components facilitates allows individual solutions (M4 to M120/Pg 7 to Pg 48).
- Sealing inserts for single or multiple cables, flat and special cables and for preassembled cables
- Cable gland bodies of brass, stainless steel, PA and PVDF plastic
- Sealing inserts of TPE, TPE-V and silicone that are highly resistant and have a wide range of operating temperatures
- „Soft pinching“ ensures compliance with types of protection IP 68 (up to 10 bar)/IP 69K.
- Metric and Pg connection threads together with NPT and inch connection threads
- Elbow cable glands for routing cables through 90°
- Can be combined with hoses (see page 8)
- Explosion protection and EMC solutions (see pages 6+7)
- Fire protection complying with EN 45545

图 1 – UNI Dicht® 电缆接头，配有开缝多孔式密封插件
Fig. 1 – Cable gland UNI Dicht® with slit multiple sealing insert

图 2 – UNI Wellrohr 制电缆接头
Fig. 2 – UNI corrugated conduit cable gland

图 3 – UNI Dicht® PVDF 制电缆接头
Fig. 3 – UNI Dicht® cable gland made of PVDF

防爆型电缆接头-在防爆区域内可保证最高的安全性

EX cable glands – Maximum safety in potentially explosive areas



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产品描述

- 允许用于 II 级仪器 (气体、粉尘) 和点火保护等级 "e" (提高了的安全性) 和 "d" (耐压防火罩)
- 可用于区域 1、2、21 和 22
- UNI Dicht® 和 blueglobe® 的产品性能保持不变 (第 4+5 页)
- M8 至 M85/ Pg 7 至 Pg 48
- 根据 EN 60079-0、EN 60079-7 和 EN 60079-31 标准规定通过了认证
- 保护等级 IP 68 (至 15 巴)
- 由黄铜和不锈钢制成的接头外壳
- 通过了 IECEx 和 EAC 认证
- 多种带屏蔽的方案
- 多功能电缆接头

Product description

- Certified for equipment class II gases, dusts and for ignition protection categories "e" (increased safety) and "d" (explosion/ flame-proof)
- Can be used in potentially explosive zones 1, 2, 21 and 22
- The product characteristics of UNI Dicht® and blueglobe® remain unaffected (pages 4+5).
- M8 to M85/ Pg 7 to Pg 48
- Certified in accordance with EN 60079-0, EN 60079-7 and EN 60079-31
- Type of protection IP 68 (up to 15 bar)
- Cable gland bodies of brass and stainless steel
- IECEx and EAC certified
- EMC variants
- Multiple cable glands

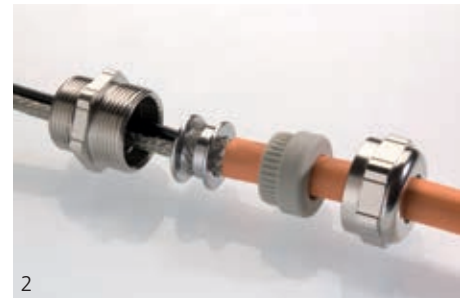
图 1 – UNI Ex Dicht – 带有多孔式密封插件的电缆接头
Fig. 1 – UNI Ex Dicht – cable gland with multiple cable sealing insert

图 2 – 防爆型电缆接头 UNI Ex Dicht 2M
Fig. 2 – Ex cable gland UNI Ex Dicht 2M

图 3 – blueglobe TRI® Ex-e II
Fig. 3 – blueglobe TRI® Ex-e II

电磁兼容式电缆接头 屏蔽衰减性能优异

EMC cable glands for exceptional screening attenuation



产品描述

- 用于不同应用领域的各种带屏蔽的电缆接头
- M12 至 M85/ Pg 9 至 Pg 48
- 安全的 360°弹簾屏蔽接触
- 根据 IEC 62153-4-40 标准通过检测，具有很高的衰减值
- 电流承载能力高
- 采用“软性挤压”式密封技术
- 有多款规格型号和款式的UNI Dicht® 和 blueglobe® 产品可供选择
- 由黄铜和不锈钢制成的接头外壳
- 防爆解决方案
- KoKeT® – 由 PFLITSCH 按照 IEC 62153-4-10 标准研发的用于测定屏蔽效应的测量方法
- 航海业应用解决方案
- 电磁兼容式转换器，作为标准电缆接头和用于刚性能源电缆的可分拆式电磁兼容式接线座的扩展件

Product description

- Various EMC cable glands for different applications
- M12 to M85/Pg 9 to Pg 48
- Secure 360° contact
- High screening attenuation level certified to IEC 62153-4-40
- High current-carrying capacity
- „Soft pinching“ sealing principle
- Variants from the UNI Dicht® and blueglobe® range
- Cable gland bodies of brass and stainless steel
- Explosion protection solutions
- KoKeT® – a measurement method developed by PFLITSCH to determine the shielding effect in accordance with IEC Standard 62153-4-10
- Solutions for marine applications
- EMC adapter as extension for standard cable glands and splittable EMC connection bracket for rigid cables

图 1 – 黄铜制 blueglobe TRI®
Fig. 1 – blueglobe TRI® made of brass

图 2 – UNI EMV Dicht – 屏蔽编织物位于内锥体上
Fig. 2 – UNI EMC Dicht – braided shield on the inner cone

图 3 – KoKeT® – 符合 IEC 62153-4-10 标准的测量法
Fig. 3 – KoKeT® – measuring process referred to IEC 62153-4-10

KoKeT® – 符合 IEC 62153-4-10 标准测量法的带软管接头

Hose cable glands and hose glands for mechanical and thermal protection



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产品描述

- 配有各种软管的电缆接头
- 与 UNI Dicht® 系统兼容
- 适用于波纹管和各种不同的软管
- UNI Dicht® 密封技术确保电缆达到保护等级 IP 68
- 用于光滑软管、钢丝编织软管、波纹管及很多其它各类型套管的转换器
- 带电磁兼容性保护功能的软管电缆接头
- 公制和 Pg 制连接管螺纹、英寸及 NPT
- 用于保护软管的不带密封插件的软管接头 (保护等级 IP 54)
- 可根据其它的软管类型进行个别调整
- 安装简便

Product description

- Cable glands with hose adapters
- Compatible with the UNI Dicht® system
- Suitable for corrugated hoses and different types of tube
- The UNI Dicht® sealing principle ensures cable sealing to type of protection IP 68.
- Adapter for smooth hoses, hoses with steel braiding, corrugated hoses and much more
- Hose cable glands with EMC protection
- Metric and Pg connection thread, inch and NPT
- Hose glands without sealing inserts for protective hoses (type of protection IP 54)
- Individual adaptation to other types of hose possible
- Simple to install

图 1 – UNI HF-UL Dicht 用于带裸露的屏蔽编织物的电缆上
Fig. 1 – UNI HF-UL Dicht on a cable with stripped shielding

图 2 – UNI SVD 制软管电缆接头
Fig. 2 – UNI SVD hose cable gland

图 3 – UNI Wellrohr PVDF 制电缆接头
Fig. 3 – UNI corrugated conduit cable gland made of PVDF

UNI Split Gland® – 完全分拆式
电缆接头，安装简便

*UNI Split Gland® – The fully
splittable cable gland for easy
installation*



产品描述

- 塑料和金属制完全分拆式电缆接头
- 多款来自 UNI Dicht® 产品项目的开缝式密封内塞
- 可利用整个孔径让成型电缆通过
- 防护等级 IP 67
- 抗拉力强，符合 EN 62444 标准
- 因为只有几个部件，所以容易安装
- 拆卸简便
- 应用领域适用温差范围从 -20 °C 到 +80 °C

Product description

- Fully splittable plastic and metal cable gland
- Large selection of split sealing inserts from the UNI Dicht® system
- Use of the complete diameter of the bore for the penetration of assembled cables
- Type of protection IP 67
- High strain relief in accordance with EN 62444
- Easy installation thanks to its few components
- Easy disassembly
- Operating temperature range from -20 °C up to +80 °C

图 1 – UNI Split Gland® 和 UNI Split Gland® HD，规格为 M25
Fig. 1 – UNI Split Gland® and UNI Split Gland® HD in size M25

图 2 – UNI Split Gland® 安装在电缆束上
Fig. 2 – UNI Split Gland® installed on a cable bundle

图 3 – 用聚碳酸酯制成的分拆式电缆接头 UNI Split Gland®

UNI FLANSCH – 灵活性强、安全可靠的线路安装，也可用于成型(已接线)电缆

UNI Flange® – Secure cable entry, even for preassembled cables



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产品描述

- 分离式的法兰系统，用于成型接好线的电缆的穿插及安装
- 适用于从 2.0 mm 至 20.5 mm 的电缆直径
- UNI Dicht® 密封技术能可靠地保护电缆并确保具有很高的抗拉力
- 可与 UNI Dicht® 系统的密封内塞组合使用
- 四周密封，确保达到保护等级 IP 66。
- 用PA 塑料或压铸锌制成的框板和压力螺钉，适用于恶劣的工业环境
- 可安装在 24 极插接器的开口中

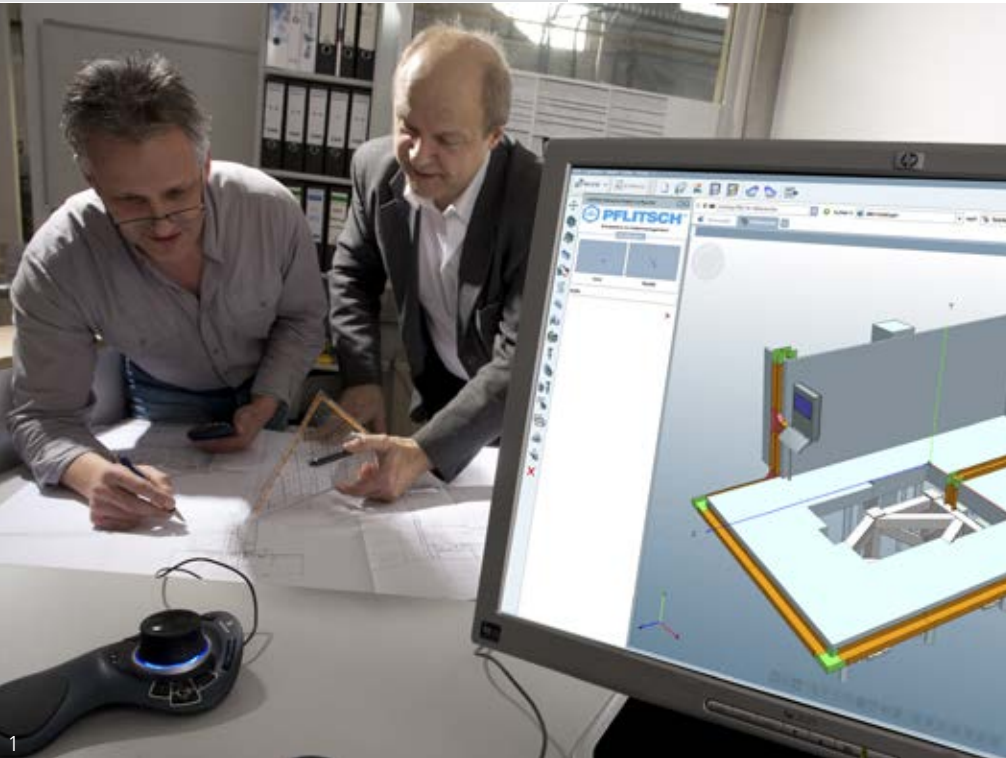
Product description

- Splittable flange system for the insertion of preassembled cables
- For cable diameters of 2.0 mm up to 20.5 mm
- UNI Dicht® sealing principle ensures secure cable protection and a high degree of strain relief.
- Can be combined with the sealing inserts from the UNI Dicht® system
- Circumferential seal ensures that the type of protection IP 66 is achieved.
- Frame plate and pressure screws made of PA plastic or zinc die casting for rough environments
- Fits in cut-outs for 24 pole plug connectors

图 1 – UNI FLANSCH 的各个零件
Fig. 1 – Individual components of the UNI Flange®

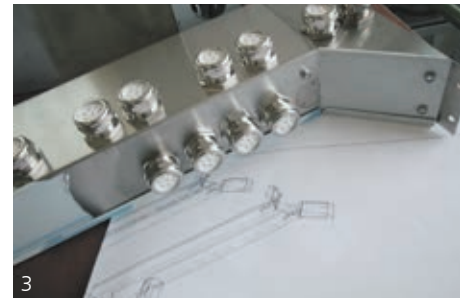
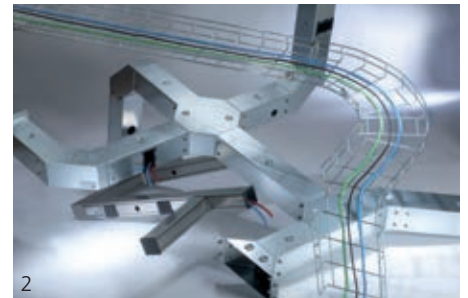
图 2 – 由压铸锌制成的 UNI FLANSCH HD
Fig. 2 – UNI Flange® HD made of zinc die casting

图 3 – 安装在壳体上的 UNI FLANSCH
Fig. 3 – UNI Flange® installed on a housing



组件 4.0 – 以固定价格提供即可安装的系统

Assemblies 4.0 – Ready-to-install trunking systems at fixed prices



产品描述

- 咨询、规划、成型和安装 – 一站式服务
- 以固定价格按时提供电缆线槽组件
- 按照客户的要求加工切口、固定件或按照客户的要求进行喷漆
- 价格透明，且总成本的节省潜力超过 20 %
- CAD 系统 easyRoute 可为个性化线槽走向设计有助于布线设计，并可生成零件表和订购单
- 可载入客户的3D设计图后再进行线槽的选型

Product description

- *Advice, design, preassembly and installation – all from under one roof*
- *Component assemblies that are ready to install on-time, for a fixed price.*
- *Customised cut-outs, mounting components or customer-specific paintwork*
- *Transparent costs and potential saving up to 20 % in terms of overall costs*
- *The easyRoute CAD system supports individual trunking routing and generates part and order lists.*
- *Drawing can be integrated into the customer's CAD system*

图 1 – 用 3-D 规划工具 easyRoute 来规划一个组件
Fig. 1 – Design of component assemblies using easyRoute 3D system

图 2 – 工业、PIK 和网状线槽的组件
Fig. 2 – Component assemblies of Industrial, PIK-Trunking and wire tray

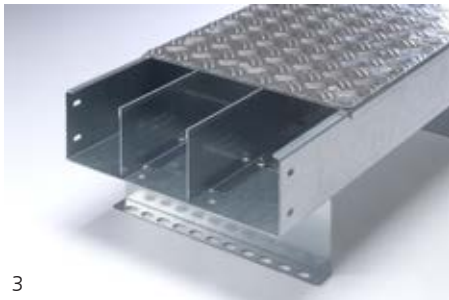
图 3 – 客户定制的电导线槽组件
Fig. 3 – Customised component assemblies

工业线槽 – 既经济又安全的电缆桥架系统

Industrial-Trunking – The economic and secure cable routing solution



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产品描述

- 通过模制件如弯头、分支或交叉可实现个性化的线槽走向 横截面为 50 mm x 50 mm 至 600 mm x 150 mm
- 可在整条线槽上门的不同位置打开线槽盖板。优点：可将电缆放入
- 通过模制件实现三维线路走向
- 结构牢固、毛刺少
- 可提供各种盖板锁紧件
- 线槽和盖板由钢板、不锈钢和铝制成
- 可在网上线槽设计软件 **easyRoute** 中规划路径
- 适用于地板上面安装的汽车制造业应用线槽，其负载重量可以承受 1.200 N 的防滑脚踏面盖
- 种类齐全的剪切机械工具按不同长度剪切和打开切口 (参见第 15 页)
- 以组件的形式提供

Product description

- Individual trunking routing using accessory fittings such as angles, outlets or crossings
- Cross-sections from 50 mm x 50 mm up to 600 mm x 150 mm
- The trunking can be opened in various cover positions over the entire length. Benefit: The cables can be inserted.
- Three-dimensional routing using accessory fittings
- Robust and low-burr construction
- Different cover latches are available
- Trunking and covers are made of sheet steel, stainless steel and aluminium and can be painted according to the customer's specifications
- The trunking routing can be designed using the online **easyRoute** tool.
- Automobile-Trunking for floor-mounted installation with walk-on loading of up to 1,200 N
- Comprehensive range of machines and tools for cutting trunking to length and making cut-outs (see page 15)
- Available as component assemblies

图 1 – 工业线槽组件
Fig. 1 – Industrial-Trunking component assemblies

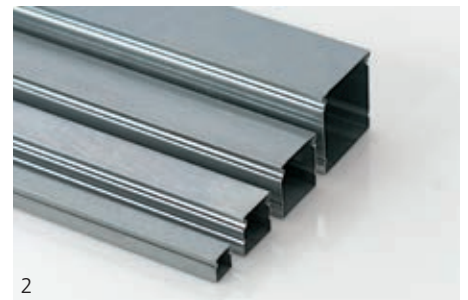
图 2 – 带有压入的安全盖形螺母和棘轮齿防松螺钉的连接
Fig. 2 – Coupler with pressed-in safety lock nuts and pawl safety screws

图 3 – 汽车线槽
Fig. 3 – Automobile-Trunking



PIK 线槽 – 适用于少量电缆的电缆布线系统

PIK-Trunking – Small volume cable routeing



产品描述

- 适用于电缆数量较少情况下的线槽安装
横截面为 15 mm x 15 mm 至 200 mm x 60 mm
- 可以在整个长度的任何位置装入
- 可与工业线槽组合使用
- 可方便地用卡式盖封闭
- 可在整条线槽上面任何位置随意打开
- 用于三维线路路由的模制件
- 侧面电缆分支和线槽终端有边角护套
- 可提供由钢板、不锈钢制成的 PIK 线槽，并可按照客户要求颜色的要求喷漆
- 用于加工线槽的机器和工具 (参见第 15 页)
- 以组件的形式提供

Product description

- *Installation trunking for a small number of cables*
- *Cross-sections of 15 mm x 15 mm up to 200 mm x 60 mm*
- *Can be opened over the whole length*
- *Can be combined with the Industrial-Trunking*
- *Can be closed with the practical snap-on cover.*
- *Can be opened along its whole length*
- *Accessory fittings can be used to achieve a three-dimensional trunking routeing.*
- *Edge protection for lateral cable outlets and at the end of the trunking*
- *The PIK-Trunking is available in sheet steel and stainless steel and can be painted according to the customer's specifications.*
- *Machines and tools for working with the trunking (see page 15)*
- *Available as component assemblies*

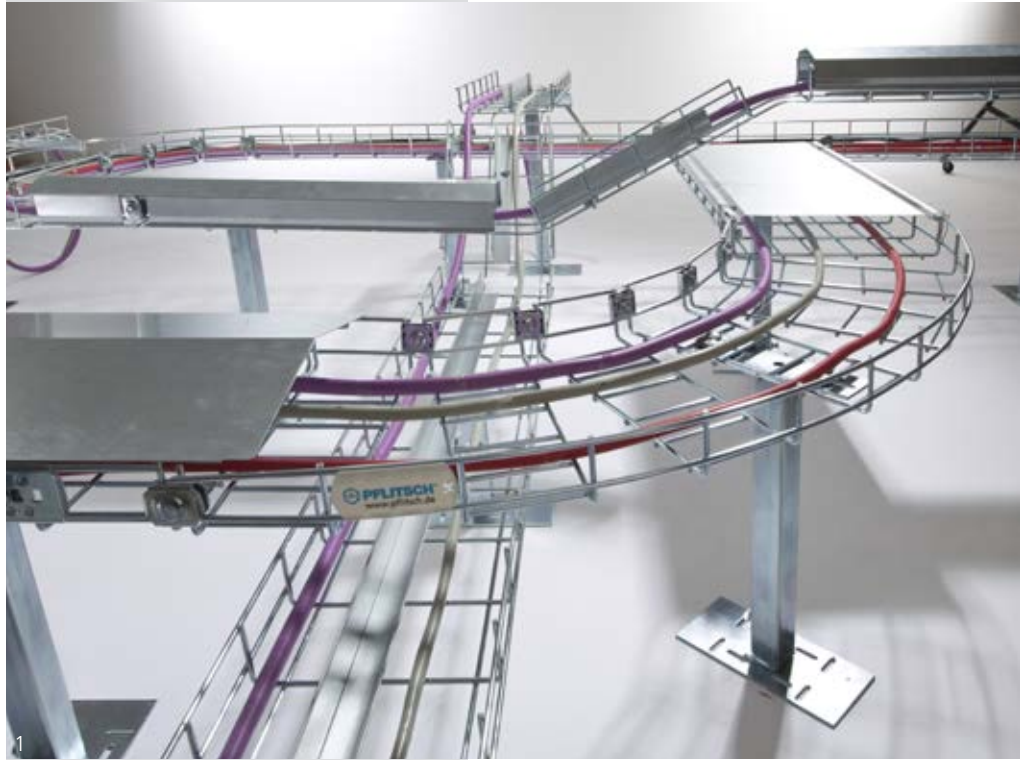
图 1 – PIK 线槽组件
Fig. 1 – PIK-Trunking component assemblies

图 2 – 各种尺寸的 PIK 线槽
Fig. 2 – Different sizes of the PIK-Trunking

图 3 – PIK 电缆线槽，带侧面切口和 blueglobe® 电缆接头
Fig. 3 – PIK-Trunking with lateral cut-out and blueglobe® cable gland

网状线槽 – 用于高要求行业的 开放式系统

Wire tray – The open system for
demanding industries



产品描述

- 由镀镍钢、热镀锌钢和不锈钢制成的开放式网状线槽系统
- 组件少
- 稳定性高
- 一目了然且灵活性强
- 易于清洁
- 线路成型无需模制件
- 可选用不同类型的盖板进行封闭
- 有多种不同的网格式电缆线槽形状
- 尺寸：40 mm x 20 mm 至 620 mm x 110 mm
- 电线横截面牢固、稳定性高且悬挂点少
- 用于加工线槽的机器和工具 (参见第 15 页)
- 以组件的形式提供

Product description

- Open cable trunking system made of hot-dip galvanized steel, electroplated with nickel and stainless steel
- Low part count
- High stability
- Clarity and flexibility
- Easy to clean
- Trunking can be routed without using accessory fittings
- Can be closed using a variety of cover variants
- Large numbers of wire tray shapes
- Sizes: 40 mm x 20 mm up to 620 mm x 110 mm
- Robust wire cross-sections of high strength and with few suspension points
- Machines and tools for working with the trunking (see page 15)
- Available as component assemblies

图 1 – 网格式线槽组件
Fig. 1 – Wire tray component assemblies

图 2 – 网格式线槽，带成型的 T 形件
Fig. 2 – Wire tray with formed T piece

图 3 – 开放式电缆路由器，带房顶形盖
Fig. 3 – Open cable routing with roof-shaped cover

机器和工具 – 工作专业、省时

*Machines and tools –
Working professionally and
expeditiously*



产品描述

- 用于加工电缆线槽的机器和工具，也可用于已安装好的线槽
- 工业和 PIK 线槽的剪切和冲压工具
- 液压和手动驱动装置
- 可精确地按照要求长度设置剪切、侧面切口加工或钻孔
- 用于侧面切口的便携式工具
- 用于切除侧壁的便携式网格式线槽剪刀
- 省时又节约成本
- 切口毛刺少

Product description

- *Machines and tools for working on the cable trunking, even on installed trunking*
- *Cutting and stamping tools for Industrial and PIK-Trunking*
- *Hydraulically and manually operated drives*
- *Precise cutting to length, making lateral cut-outs and holes*
- *Mobile tools for lateral notching*
- *Mobile wire tray cutter for notching the side walls*
- *Rapid return on investment through time savings*
- *Low-burr cutting and cut-outs*

图 1 – 用于加工线槽的 PFLITSCH 工具
Fig. 1 – PFLITSCH tools for working on trunking

图 2 – 用于 PIK 线槽的切口工具
Fig. 2 – Notching punch for PIK-Trunking

图 3 – 可以很方便地用微型网状槽剪分离
Fig. 3 – Simple cutting with the Mini wire tray cutter



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