



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Hydraulic Hoses, Fittings and Equipment

Catalogue



ENGINEERING YOUR SUCCESS.

Compact Spiral™ Hose

The next evolution in hydraulic hose



Unprecedented 35.0 and 42.0 MPa hose performance in a compact design.

Compared with conventional spiral hose, Parker's Compact Spiral™ 787TC/797TC hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. A world first, this development is the most significant advance in hydraulic hose since the introduction of Parker's No-Skive™ technology more than 25 years ago. Compact Spiral was developed in concurrence with the industry trend toward high-pressure hose manufactured to ISO specifications. Its many innovative and proprietary features set new standards in value and deliver hose characteristics deemed most important by OEM and aftermarket customers.

Just one series of hose ends, Parker's 77 series, covers all sizes of both 787TC and 797TC

Compact Spiral hoses, simplifying fitting selection and reducing hose-end inventory.



For more information about Compact Spiral hoses please refer to pages Da-16 and Da-17

Advancing the Industry

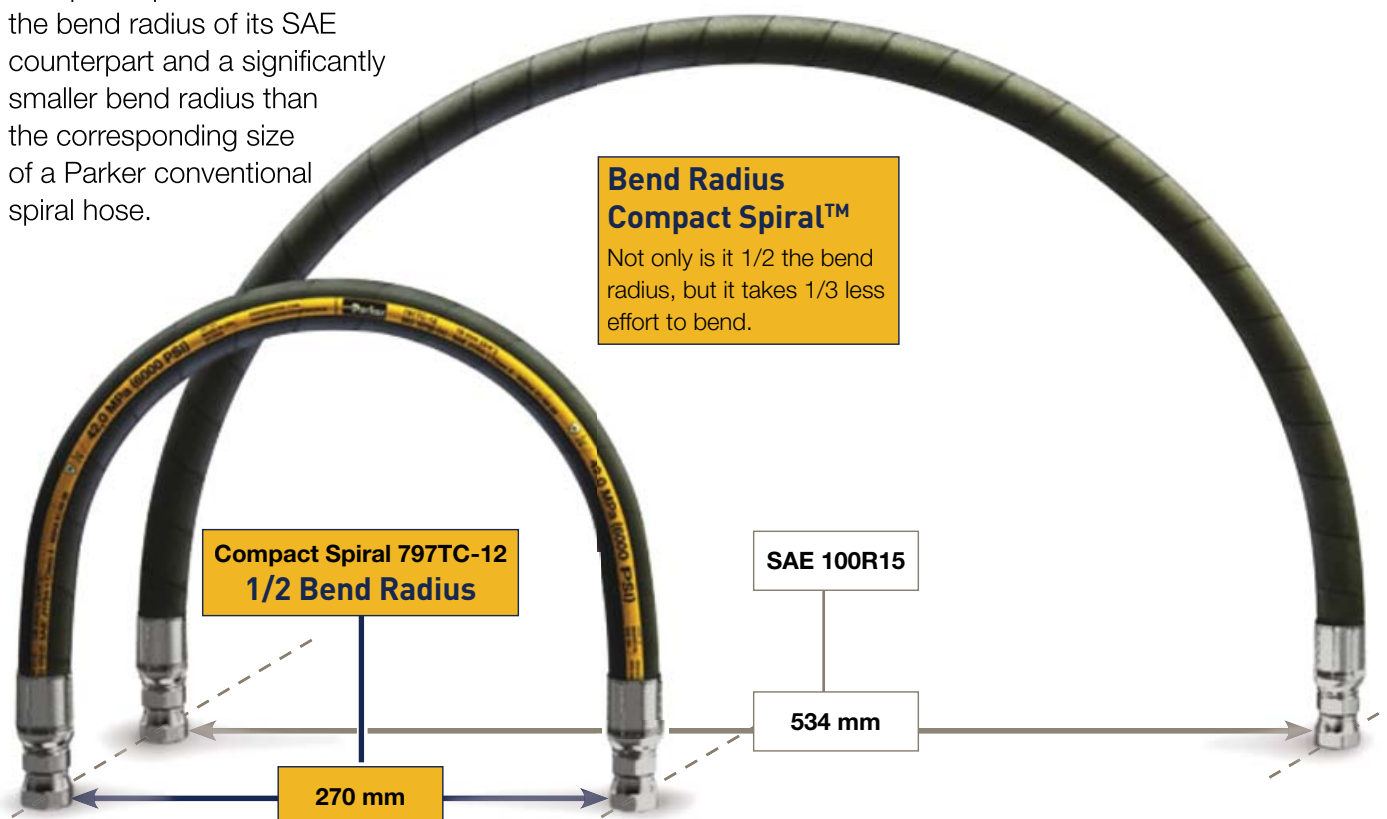
Compact Spiral hose delivers substantial performance and value for systems with high-pressure and high-impulse applications. These include large mobile equipment (off-highway, construction, forestry and mining), oil and gas applications and injection moulding equipment.

- 1/2 the bend radius of SAE 100R13/SAE 100R15
 - 1/3 less effort to bend
 - Nearly 30 % smaller O.D.
 - Tested to 2,000,000 cycles
 - High abrasion resistance
 - Constant pressure
- Simplified fitting selection with 77 series in Interlock No-Skive design
 - 25 % less hose weight



Bend Radius

Compact Spiral hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than the corresponding size of a Parker conventional spiral hose.



PowerLift 477

No-Skive 2 wire braided hose
for lifting and materials handling machines



The new **PowerLift 477** hose exceeds the EN required working pressure and the impulse cycles by a factor of two.

PowerLift is the ideal choice where lower weight, high pressure and tight bend radii are the driving factors influencing product selection. In addition to the standard **PowerLift** the **PowerLift 477ST** (Super Tough version) is also available. Ideal applications for the **PowerLift** hose are lifting and materials handling machines such as fork lift trucks, aerial lifts, cranes, telehandlers and lifting platforms.

The Super Tough cover increases the hose service life when hoses are exposed to extreme mechanical wear.

The Super Tough cover offers up to 450 times the abrasion resistance specified in the ISO 6945 standard for rubber hoses and provides the perfect alternative to expensive protective sleeves.



For more information about **PowerLift 477** please refer to pages **Ca-27** and **Ca-28**

RemoFlex 412

No-Skive 1 wire braided hose for pilot lines

RemoFlex 412 pilot line hose is a highly flexible 12.0 MPa constant pressure hose, ideally suited to the compact build requirements of modern equipment.

The combination of a highly abrasion and ozone resistant cover with its small outside diameter and the excellent fluid compatibility of the hose, through its nitrile inner tube, results in a pilot line hose that meets the demands of a wide customer base.

The **RemoFlex 412** is ideal for many industrial and mobile applications especially in mobile construction equipment.



For more information about RemoFlex 412 please refer to page Ca-25

Ultra High Pressure 761

No-Skive 6 spiral hose with constant working pressure of 56.0 Mpa



Ultra High Pressure 761 is ideal for high-performance and high-pressure applications such as construction, hydrostatic drive lines, agriculture, mining and test stands.

The new 761 hose has a constant working pressure of 8000 psi (56.0 MPa) and creates new design possibilities for high pressure applications.

The flexibility is comparable to SAE 100R15.

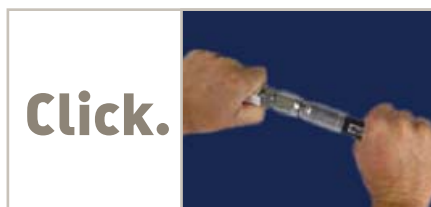
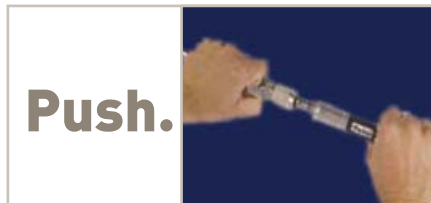
For easy and longer lasting identification the hose is marked with a durable colour layline.

Ultra High Pressure 761 No-Skive multispiral hose is approved with new 76 series fittings.

For more information about Ultra High Pressure 761 please refer to page Da-11

Universal Push-to-Connect (UPTC) Assembly

The quick, simple, truly universal advantage for your product's design, manufacture and maintenance.



“Push, click, done” literally describes how quick and simple it is to achieve reliable leak-free connections with Parker's UPTC hose and tube assembly. Yet unprecedented speed and simplicity are only part of the total advantage.

Unlike other push-to-connect assembly designs, with Parker's patent-pending assembly you also achieve the “U”—that is, the genuine universality that ensures maximum compatibility and simple global sourcing. So from your equipment's design and production to its maintenance in the field, the UPTC assembly delivers savings never before possible, for everyone up and down the line.

Simply universal economics. Parker's universal, economic UPTC assembly utilizes standard O-Lok (ORFS) or EO (24° DIN cone) fitting bodies, and is suited for hydraulic hose (rubber or thermoplastic) and tube (inch or metric) assemblies. Also, while other push-to-connect couplings require changeovers to new male and female-end fitting designs, any existing Parker O-Lok or EO fitting system can be converted to a push-to-connect design. Thus, the number of UPTC connections is virtually unlimited.

Specifying Parker UPTC in product designs, particularly where space is limited, provides immediate savings in time and cost associated with the assembly process. Plus, UPTC reliability and simplicity extend to the field – helping to significantly reduce errors associated with rework and warranty claims. Here, its key advantages include standard wrench disassembly and no special connector needed for replacement of a damaged hose. Because the fitting body has not changed, a standard ORFS (or UPTC) assembly may be used for replacement, which greatly helps to minimize costly equipment downtime.



- Assembly time savings
- Guaranteed correct connection
- Elimination of hose twist
- Leak-free performance
- Wide range availability
- Easy design implementation
- Excellent field serviceability



For more information about UPTC please refer to intro-pages medium pressure and pages Cb-47 – Cb-48

Full Flange System

Provides full flange mounting option for Code 61 and 62 ports. System flexibility reduces inventory investment.



Reliability, Ease of Use, Performance, Flexibility

Parker's Hose Products Division introduces a one-piece flange option for Code 61 and Code 62 connections. The patent-pending design enables the flange to be attached to the hose after the hose fitting has been crimped to the hose.

Once the fitting is crimped, an SAE J 518 Code 61 or a Code 62 full flange can be attached using a highly tensile stainless steel retaining ring. The versatile fitting design enables greater flexibility by reducing the number of potential hose fittings in your inventory.

Hose Fittings

A variety of hose fittings are now available with more to come. Contact your Parker representative or go to www.parkerhose.com for the latest list of fittings.

- One-piece full flange connection
- Fittings are compatible with both Code 61 and Code 62 flanges
- All Code 61 sizes rated to 5000 psi



For more information about the Full Flange System please refer to intro-pages high pressure and Df-9 – Df-10, Dk-19 – Dk-20 and Eb-2

Parker Hose Products

A short summary of a long history

Parker Hose Products Division, established in 1948, is both a pioneer and market leader in the hose business.

With its history of success as a world leader in the flexible rubber hose market, Parker now more than ever continues to pursue aggressively new technologies and business, and because of this, offers its customers the best solution for each and every hose application.

Parker has built a strong relationship with the OEM and aftermarket sectors, tailoring its products and services to the special requirements of both markets.

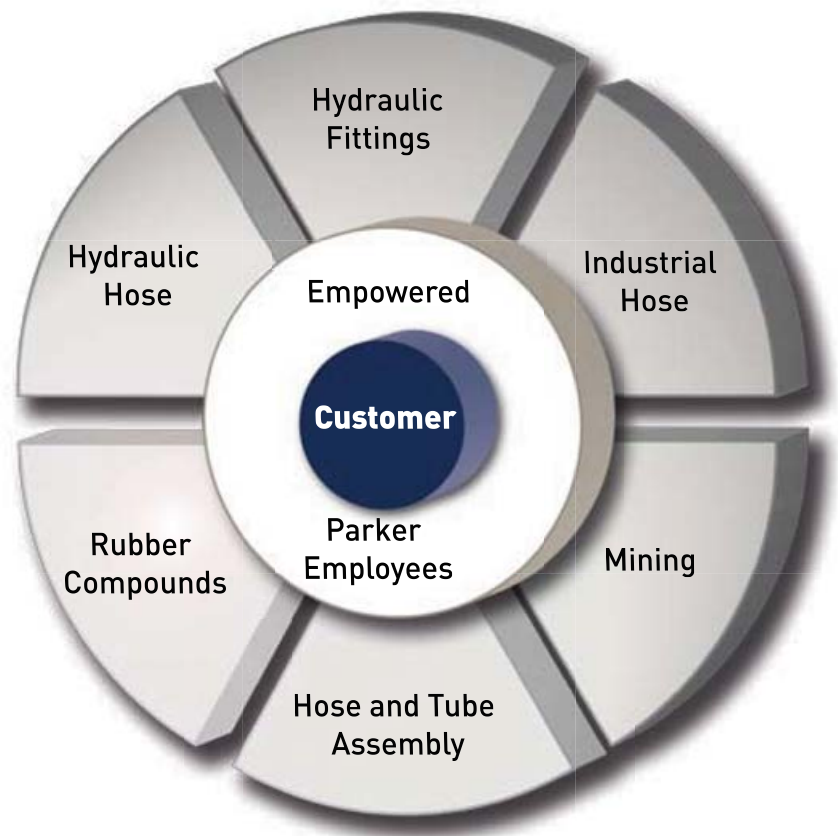
Parker's goal is constant success. Co-operation with customers brings about confidence and reliability, mutual respect, open communication and prompt problem solving responses.

Hose Products Division Europe has its headquarters in Veniano, Italy and can supply the hoses and services you need for your particular business.

Customer Focused

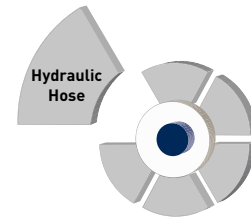
Hose Products Division Europe is customer focused, serving selected European markets with hydraulic and industrial hose products and services.

By maximising value for our customers through quality and service, we can contribute to their and our own long-term profitability. As an easy-to-deal-with organization, we see the empowerment of everyone involved as the key success factor in remaining the preferred source for our markets.



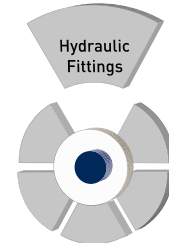
Hydraulic Hose

Low pressure, medium pressure and high pressure braided and spiral hoses



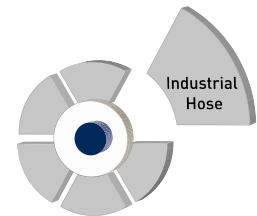
Hydraulic Fittings

Permanent crimp fittings and Push-Lok reusable fittings



Industrial Hose and Couplings

Long length hoses, mandrel-made hoses, PVC-PU hoses and couplings



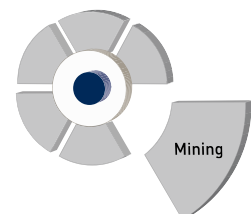
Hose and Tube Assembly

Hose assemblies, rigid tubes, hose/tube combinations, Tech. Services, Kanban, and Kitting supported by a range of Value Added Services.



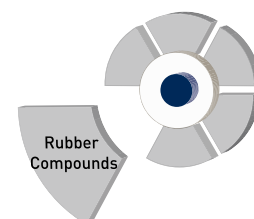
Mining Products

Mining hoses, adaptors, valves, filters, pipelines, couplings, manifolds



Rubber Compounds

Standard compounds and customer specific formulations. All compounds available in black and a range of other colours.



For more details about Parker Hose Products please contact HPDE_Helpdesk@parker.com

Non Standard and Customised Hose Fittings

Short runs or special applications are met by Parker's Rapid Service Unit (RSU)



The Rapid Service Unit (RSU) is part of the Manufacturing Unit Fittings of Hose Products Division Europe and is a dedicated unit for the manufacture of customised and prototype hose fittings. The unit is responsible for both checking the technical possibilities of the customer request from an engineering perspective as well as establishing the most economic production process. Because of close cooperation

between Parker's Manufacturing Units and the Parker Sales Companies (PSC) the Rapid Service Unit (RSU) can live up to its name by reacting, quoting and supplying rapidly.

After receiving the order, the RSU team will promptly and carefully process the order – from its receipt to the shipping of the fittings. For the production of such fittings, we have dedicated resources in a state-of-the-art manufacturing cell with CNC machinery and tools.



The Rapid Service Unit (RSU) can provide:

- Jump sizes
- Specific end configurations
- Specific drop lengths
- Fitting/tube combinations
- Customised prototypes
- Any batch size upwards from a single piece

Material options include steel, stainless steel, brass and special materials on request.

Going Green

The implications for hoses

Protecting the environment and controlling pollution are gaining momentum in response to priorities being set by governments and local authorities; it is becoming an important factor in the production of many products. Whether in municipal vehicles, construction equipment, agricultural machinery or forestry vehicles, the trend towards using biodegradable oil in hydraulic systems is increasing.

The Hose Products Division Europe offers a full range of hoses with pure nitrile inner tubes, from 1 and 2 wire braided through up to 6 layer multi-spiral hoses. These hoses offer exceptional hydraulic oil and biodegradable oil compatibility up to 100 °C together with the advantage of no loss in pressure capability.



Hybrid Push-Lok

The excellent combination of two basic materials



Through interactive development of both materials and manufacturing processes, the combination of polyurethane and synthetic elastomer has successfully resulted in the creation of a hybrid Push-Lok hose with exceptional technical properties.

- Hose cover made of high-quality polyurethane, featuring high resistance to welding spatter and abrasion.
- The highly tensile textile braid reinforcement ensures a firm grip of the hose onto the fitting and prevents it from pulling off.
- Synthetic elastomer core tube resistant to hydraulic fluids, dry air, water, water emulsions, etc.

Environmentally Friendly Plating Process

Chromium-6 has been classified in the EU Directive 67/548/EWG as Category 2, which means that this material may be carcinogenic under certain circumstances. Skin contact can bring about allergic reactions. Since 2006, all Parker steel fittings have been manufactured using trivalent chromate (chromium-6-free) plating. This new process enhances the

corrosion resistance of the fittings, and is more environmentally friendly than the previous hexavalent chromate plating. While the fitting function will not change, the fitting colour will. Fittings plated with trivalent chromate will be silver in colour, not gold. The Chromium-6 free plating process is implemented worldwide at all Parker facilities.

Chromium-6 Free



Where corrosion resistance is vital stainless steel is the perfect solution

For pneumatic and hydraulic applications in demanding environments, your connection requirements will be met by Parker's range of stainless steel products. Parker offers a complete system of stainless steel products such as tubes, tube fittings

or 1- or 2-piece hose fittings for low, medium and high-pressure hydraulic hoses – everything from one source and approved by well known international classification bodies. It goes without saying that Parker's stainless steel components are produced

using superior quality stainless steel grade 1.457. Thanks to their resistance to corrosion and acids, all components are suitable for tough environments. However, some special applications require special materials and here you can rely on Parker as well – we have the resources to produce customised hose fittings for even the most demanding customer requirements.

Power in Stainless Steel

- Premier customer service
- Single-source solution
- Worldwide availability
- One team for all requirements
- Customized products
- Special materials
- Complementary design of tube & hose fittings



For more information about our stainless steel range please refer to catalogue CAT/4400.1/UK

We offer more

than just innovative products and solutions

Training in Hose Products

The extensive training programme of the Hose Products Division Europe contains theoretical and practical training sessions. Training takes place on a regular basis in the different Parker locations. Beside standard training Parker offers the possibility for customized in-house training. The main goal of Parker's product training is to acquire special knowledge about hose products, fittings, connectors and catalogues and will enable you to select efficiently and handle safely all Parker hose products.



For further information about the Hose Products Division Europe, please visit our website

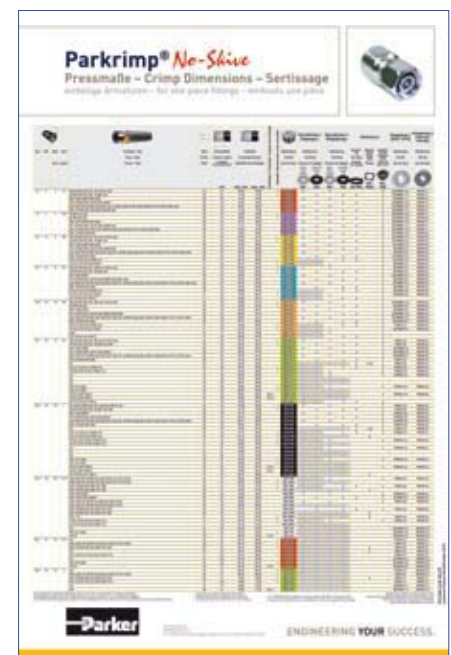
www.parker.com/euro_hpd and for further information about other Parker products, please call

the European Product Information Centre free of charge on 0800 27 27 5374

Promotion Material about Parker Hose Products

If you are interested in promotion material about Parker Hose Products, please contact the relevant Parker Service Centre or visit the website www.parker.com/euro_hpd.

Under the menu bar „Literature“ a library can be found containing the current catalogues, sales & marketing bulletins/brochures, service manuals/user guides, certificates/approvals, technical articles, safety instructions.



Value Added Services

to save customers' time and money

ParkerStore™

At Parker, we're continually looking for ways to deliver more products, more efficiently.

The Global ParkerStore™ network enables Parker to provide:

- Prompt, efficient, professional in-store services while you wait
- Expert local services and support
- A safe, friendly and convenient shopping environment
- A greater range of parts options so you get exactly what you're looking for.



Customers trust ParkerStores to provide OEM and MRO customers with direct access to:

- Custom-made hydraulic hose assemblies and complementary products to support their applications and decrease their downtime

- Expert technical support
- Professional, personalized services, including 24/7/365 support
- The convenience, comfort and amenities of a local service provider.

ParkerStore™ Container Service



The ParkerStore container is a transportable workshop, providing on-site maintenance and product support for large construction projects such as roadworks, tunnels, railways, underground systems, etc. Provides an on-site product and hose replacement service. With this service on your site, you can reduce your downtime keeping your project on time and on budget!

HOSE DOCTOR®

Parker HOSE DOCTORS® are a network of independently-owned, mobile service technicians built around the commitment to identify and replace hose assemblies wherever their customers need them, with the fastest response times possible.

HOSE DOCTORS® are an extension of the worldwide Parker distribution network, coupling their service commitment with Parker products – the highest quality hoses and fittings available in the market today.



Kitting

Multiple components are supplied under a single part number

- Reduced number of suppliers
- Reduced stocks and no obsolete items
- Optimized management (stock and supplies)
- Simplified and optimised order handling
- Reduced assembly costs
- Greater productivity



Tech Services

Optimises the performance of your hydraulic and pneumatic circuits



- With Parker Tech Services involved, your time to market is shorter, which saves on development costs
- The 3 year no-leak guarantee enhances your reputation and lowers your warranty costs
- More reliable operation lowers your customer's operating costs
- More efficient performance and no-leak guarantee is beneficial to the environment
- Parker worldwide coverage ensures you can use the service and save costs wherever you are

Breadman

Lean logistics and delivery of Parker products and kits directly to the customer's assembly line, work stations or warehouse



- 100 % parts availability minimises downtime, increases production and reduces costs
- Elimination of stock checking reduces manpower and maintains production levels
- Daily delivery reduces inventory and overheads
- Electronic order processing eliminates paperwork and reduces administration costs

Parker® Tracking System – PTS

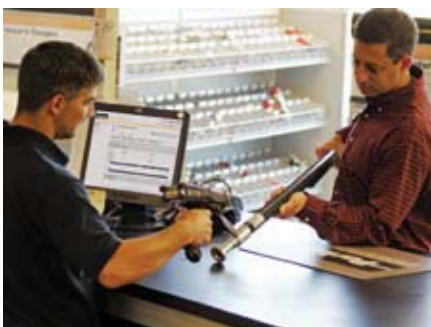
Global asset tagging and identification system

The Parker® Tracking System (PTS) is designed to help customers reduce vehicle or asset downtime through increases in the speed, timing and accuracy of necessary repairs. PTS provides a unique 8 digit identification code and bar code printed on a durable label for each hose assembly. PTS labels are specifically engineered to withstand harsh chemicals, temperatures, UV exposure and other challenging conditions.

- PTS captures, records and recalls unique hose assembly information – on demand
- Provides fast and accurate product identification to speed up replacement regardless of where the original assembly was made.
- Assembly can be replaced with only the 8 digit PTS ID number/bar code eliminating the need to remove hoses prior to replacement. This can provide critical machine uptime and enable more conveniently scheduled repair.
- PTS includes additional reporting tools to assist in continuous improvement programmes and preventative maintenance initiatives.

i'm unique.

PARKER.COM/PTS



Whatever application you have

we have the best solution

Hose Products Division Europe supplies premier customer service by focussing on customer needs and analysing the entire business environment in which our customers operate.

Macro-market analysis is an important aspect of business planning to engineer and produce the best solution for our customers' requirements and help them to achieve higher levels of profitability.

- What are customers' needs and desires
- What hose technology do customers prefer
- How to advance customers' brand loyalty



Off Highway Mobile Equipment

Agricultural Equipment, Construction Equipment, Material Handling, Oilfield Equipment, Forest Equipment



Industrial Equipment

Robots, Machine Tools, Injection Moulding, Metal Processing, Air & Gas Compressors, Other Industrial Equipment



Transportation

Trucks, Buses, Railways, Military Vehicles



Processing Industry

Industrial Chemicals Processing, Oil & Gas Processing, Paper Mills



Marine

Ship Building, On-Shore, Off-Shore



Power Generation

Wind Power, Power Generation Equipment



Mining

Underground and Surface Mining, Hard Rock Drilling, Tunneling



Parker Hose Products Division

A market leader in the hose business

Parker provides proven leak-free fluid conveying systems around the globe and has the power to support them!

- **Low-Pressure Push-Lok**

The intelligent Push-Lok System covering different types of rubber, thermoplastic as well as a hybrid hose version and a wide selection of reusable fittings made from steel, brass and stainless steel. **Pressure range: Up to 2.4 MPa**

- **Low-Pressure (Transportation, Air Conditioning, Others)**

This low pressure range follows the No-Skive concept and can be assembled on Parkrimp machines. **Pressure range: Up to 20.7 MPa**

- **Medium-Pressure Hydraulics**

Hose and fitting product range for applications in mobile and industrial hydraulics.

The perfect range for the more demanding market requirements with a broad selection of Parkrimp No-Skive fittings, with over sixty end configurations, combined with Parker hoses and crimpers allows simple and safe assembly – whenever and wherever needed.

Pressure range: Up to 42.5 MPa

- **High-Pressure Hydraulics**

Heavy-duty products for heavy-duty applications with a full range of Parkrimp No-Skive multispiral hoses and fittings and of ParLock skive type hoses and fittings

Pressure range: Up to 56.0 MPa

- **Assembly Machines / Accessory Products**

The perfect complement to the largest range of hoses and fittings in the market. Parker crimping technology is recognised throughout the industry as the easiest and most accurate crimping system available.

- **Technical Handbook**

- **Low Pressure Push-Lok**

- **Low Pressure (Others)**

- **Medium Pressure Hydraulics**

- **High Pressure Hydraulics**

- **Assembly Machines**
- **Accessory Products**

