

# Parker Tube Fabricating Equipment

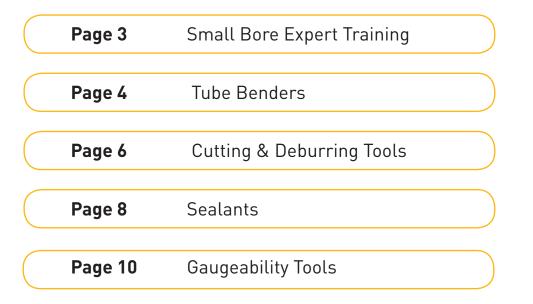
Catalog 4190 - TFE



ENGINEERING YOUR SUCCESS.

# Contents

# **Tube Fabricating Equipment**



# Introduction:

At Parker, we feel that the correct tube selection and installation are key ingredients to building leak-free, reliable systems. Within this catalog is a full compliment of tube cutters, deburring, bending, and assembly equipment for use in installing tubing systems in all types of materials.

Dedication to quality at Parker is second to none. Our resources and vast product line, supported by an ISO 9001 Certified Quality Management System, is available through our worldwide distribution network. For more information regarding our tube fabrication equipment and other products and services, please contact your nearest Parker Sales Office, details found on back page.

# 

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INIURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries or its authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its

subsidiaries at any time without notice

#### Offer of Sale

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).



IParker-Process-Control-Technology



Small Bore Expert training is Parker Instrumentation's training programme for small bore tubing systems.

The course has been developed as an upgrade and replacement to our industry leading Safety at Work Programme. It provides material that is relevant to your sales professionals to enable them to conduct their own training sessions with their customer base.

# Some of the advantages over our existing programme are:

- Greater knowledge of small bore tubing systems
- Increased product familiarity
- Improved selling and presentation ability
- Increased skills and confidence in dealing with small bore systems •
- Ability to deliver chargeable training

# The benefits that your nominated trainer can pass on to your customer base are:

- Increased understanding of their own systems and installation practices
- Improvements in the safety and integrity of their small bore tubing systems •
- Overall asset integrity improvement

# What does the Trainer get?

Five days of training, including two days of presentation training.

#### A comprehensive kit including:

- Spanners
- Tube benders
- Tube cutter
- De-burrer
- Vice grips
- Fittings samples
- Promotional clothing •
- License fee

The per delegate cost for the course is £1500 and includes all of the aforementioned items.

All ING distributors will need to have at least one certified trainer in their organisation. This will be the only licensed and certified training course that we will allow to be run with our support.

#### What else do you get?

- Access to the only certified IPDE training course
- A training program we can proudly market to our customers

If you would like further information relating to this training, please contact Parker Instrumentation: +44 (0) 1271 313131



# **Small Bore Expert Training**



# **Tube Benders**

# Heavy-Duty Instrument Tube Bender



Roller dies reduce force and tube flattening.



Clearly visible degree marks for accurate bending.

# e e and ROLL DIES FOR marks

# Features

- High quality bending performance on stainless steel, and other hard tubing such as steel and titanium.
- Two stage design allows for in-place bending from 90° to 180° without ever crossing handles. Lock/unlock with a half turn rotation of the bending handle.
- Extra long 16" (40 cm) handles increase leverage and roll dies in the bending form reduce force needed.
- Vice clamp built into bending form for extra stability.

# Specifications and How to Order

| Tube<br>O.D. | Bend<br>Radius | Weight<br>(Kg) | Part Number |  |  |  |  |
|--------------|----------------|----------------|-------------|--|--|--|--|
| Imperial     |                |                |             |  |  |  |  |
| 1/4"         | 5/8"           | 0.76           | PTB-4T      |  |  |  |  |
| 5/16"        | 15/16"         | 1.84           | PTB-5T      |  |  |  |  |
| 3/8"         | 15/16"         | 1.84           | PTB-6T      |  |  |  |  |
| 1/2"         | 1 1/2"         | 2.76           | PTB-8T      |  |  |  |  |
|              |                | Metric         |             |  |  |  |  |
| 6 mm         | 16 mm          | 0.76           | PTB-6M      |  |  |  |  |
| 8 mm         | 24 mm          | 1.84           | PTB-8M      |  |  |  |  |
| 10 mm        | 24 mm          | 1.84           | PTB-10M     |  |  |  |  |
| 12 mm        | 38 mm          | 2.76           | PTB-12M     |  |  |  |  |



#### ERGONOMIC CUSHIONED GRIPS



5

# **Cutting & Deburring Tools**

# Screw Feed Tubing Cutter with X-CEL Features







#### Features

- A contoured frame allows for easy alignment while adjusting the cutter to make a cut.
- X-CEL Knob for quick and easy cutting.
- Specially designed stainless steel cutter wheel contains bearings in the hub, to decrease drag around the tube for a smoother cut.
- 6 (in PT-C) or 12 (in PT-CL) individual bearings replace traditional rollers. The bearings create a smoother cut, and allow for increased speed around the tube.

#### Specifications and How to Order

| Tube                    | O.D.      | Weight | Part   |  |
|-------------------------|-----------|--------|--------|--|
| Imperial                | Metric    | (Kg)   | Number |  |
| 1/4" - 1 3/8" 6 - 35 mm |           | 0.40   | PT-C   |  |
| 1/4" - 2 5/8"           | 6 - 67 mm | 0.68   | PT-CL  |  |

Replacement wheel - Part number: PT-CS

# Deburrer

A quick twist of the wrist will deburr either the 0.D. or the I.D. of the tube end.

Insert the tube into the convexed end of the duburrer for inside deburring and the opposite end for outside deburring. Rotate in either direction.

#### Features

- 45 cutting edges on interior cone allow for fast, clean, inner reaming and outer deburring/ beveling of copper and stainless steel tubing.
- Hardened steel construction.
- Machined outer surfice for ease of grip.

# Parker PT-V Tru-Kut Sawing Vice

#### **Features**

- Hacksaw guide will accommodate tube, pipe and hose from sizes 3 (3/16" 0.D.) to 32 (2" 0.D.).
- Assures square cut-offs within ± 1°. Use a fine tooth hacksaw blade for smoother cuts.

#### How To Use

Mount in vice or bolt to bench. Clamp tubing, pipe or hose into the Tru-Kut vice and cut off; guide ensures accurate square cuts.

#### How to Order

Vice - Part number: PT-V



# Specifications and How to Order

| Tube                 | O.D.      | Weight | Part   |  |
|----------------------|-----------|--------|--------|--|
| Imperial             | Metric    | (Kg)   | Number |  |
| 1/4" - 11/4"         | 6 - 40 mm | 0.34   | PT-D   |  |
| 1/2" - 2" 12 - 50 mm |           | 0.56   | PT-DL  |  |



# **Sealants**

**Features** 

# Parker PSL LOCTITE<sup>®</sup> 567<sup>™</sup>

A high performance sealant that locks and seals metal, tapered pipe threads and fittings. Ideal for stainless steel, aluminum, galvanized metal and other inert metals, 567™ has excellent solvent resistance and withstands temperatures to 204°C (400°F).

# 1 56747 HREAD SEAL NET 1.69 FL. 0Z./CONT. 50 ml DESIGNED FOR THE LOCKING AND SEALING OF METAL TAPERED THREADS AND FITTINGS.

# How to Order

| • | High lubricating properties of this compound     |  |  |  |  |  |
|---|--|--|--|--|--|--|
|   | prevent galling on stainless steel, aluminum and |  |  |  |  |  |
|   | all other metal pipe threads and fittings        |  |  |  |  |  |

• Recommended for industrial applications in the chemical processing, petroleum refining, pulp/ paper, waste treatment, textile, utilities/ power generation, marine, automotive, industrial equipment, gas compression and distribution industries.

| Size<br>(ml) | Part<br>Number |  |  |
|--------------|----------------|--|--|
| 50           | PSL-50         |  |  |
| 250          | PSL-250        |  |  |

# **PHinder Liquid Leak Detector**

PHinder provides the user the ability to easily find suspected leaks in industrial gas applications. Simply apply the solution to the fitting, valve or system connection and observe if bubbles form to demonstrate a leak's actual location.

#### **Features**

- Excellent bubble action on all surfaces
- Non corrosive, non flammable liquid solution
- Flexible PHinder tube included for hard to reach areas
- Two formulas for applications from -20°F to 200°F in temperature

#### How to Order

The correct part number is easily derived from the following number sequence. The three product characteristics required are coded as shown.

| PHinder | GAL                          | LOW                      |          |
|---------|------------------------------|--------------------------|----------|
|         |                              |                          | ı r      |
| Series  | Size                         | Formula                  |          |
|         |                              |                          |          |
| PHINDER | GAL Gallon<br>80z 8 Fluid Oz | LOW Cold<br>STD Standard | 4C<br>12 |

# **PTFE Tape**

Polytetrafluoroethylene, or PTFE tape is cut to specified widths for use in sealing pipe threads. The tape is wrapped around the exposed threads of a pipe before it is screwed into place.

The tape is commonly used commercially in pressurised water systems as well as in air compression equipment and thread joints with coarse threads.

One of the defining characteristics of PTFE is how good it is at defeating friction. The use of PTFE tape in tapered pipe threads performs a lubricating function, which more easily allows the threads to be screwed together, to the point of deformation, which is what creates the seal.

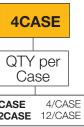


# How to Order

PTFE Tape - Part Number: PS - PTFE

8





# **Gaugeability Tools**

# Parker PTM Tube Marker

This tube marker burnishes a mark on the tube quickly and accurately. This visible mark helps the installer ensure the correct depth of tube is inserted into the fitting body.

The tool can also be used to check the burnish mark position. The Tube Marker is available from 1/8" to 1" SAE sizes and from 6 mm to 25 mm Metric sizes.

# Features/Benefits:

- Compact, lightweight design
- Custom sized to tubing used
- Mark is burnished, not scribed on tube surface



#### How to Order

The correct part number is easily derived from the following number sequence.

The two product characteristics required are coded as shown below.

| PTM - |      |                      | 4                            | т                      |             |                                |
|-------|------|----------------------|------------------------------|------------------------|-------------|--------------------------------|
| Sei   | ries |                      | Si                           | ze                     |             |                                |
| PTM   |      | 2T<br>4T<br>6T<br>8T | 1/8"<br>1/4"<br>3/8"<br>1/2" | 6N<br>8N<br>10N<br>12N | Л<br>Л<br>Л | 6 mm<br>8 mm<br>10 mm<br>12 mm |
|       |      | 10T<br>12T<br>16T    | 5/8"<br>3/4"<br>1"           | 16N<br>20N<br>25N      | Λ           | 16mm<br>20mm<br>25mm           |

# Parker PPT Preassembly Tool

Parker's Preassembly Tool is an easy-to-use manual tool to ensure the correct preassembly of compression tube fittings on instrumentation tubing.

This preassembly will assist in proper initial make-up in tight installation spaces.

All preassembly tools have a wrench flat on the bottom so they can be easily mounted in a vice.

# How to Use

Slide nut and ferrule(s) onto tube. Set the tube into presetting tool, and bottom tube against shoulder tool. Finger tighten the nut and then tighten the nut 1 turn with a wrench. Remove tube from tool.

Advance the nut so it is finger-tight in your fitting assembly. Then you advance the nut 1/2 turn. If torque rise is not felt in 1/4 turn, turn the nut to torgue rise. loosen the nut to finger-tight, and makeup nut 1/2 turn.



The correct part number is easily derived from the following number sequence.

The two product characteristics required are coded as shown below.

| PPT    |   | <b>4</b> T       |                                 |  |
|--------|---|------------------|---------------------------------|--|
| Series |   | Size             |                                 |  |
| PPT    | 2T 1/8<br>3T 3/1<br>4T 1/2<br>5T 5/1              | 16"<br>4"<br>16" | 3M<br>4M<br>6M<br>8M            | 3mm<br>4mm<br>6 mm<br>8 mm             |
|        | 6T 3/8<br>8T 1/2<br>10T 5/8<br>12T 3/4<br>14T 7/8 | 2"<br>3"<br>1"   | 10M<br>12M<br>14M<br>16M<br>18M | 10 mm<br>12 mm<br>14mm<br>16mm<br>18mm |
|        | <b>16T</b> 1"                                     |                  | 20M<br>22M<br>25M               | 20mm<br>22mm<br>25mm                   |

# **Parker PT Inspection Gauges**

# **PT Combination Gauge**

Using this unique Parker combination gauge together with the tube marker will guarantee precise and accurate tubing connections.

Use the No Go gap gauge to ensure that correct turns from finger tight have been achieved.

#### How to Use

Insert the gauge lip under the nut - the tube mark should be in line with the polished line on the tubing made by a marker. This proves that the tubing has remained fully bottomed through the installation process.





Correct verification of tube bottoming.

# PT Gap Gauge

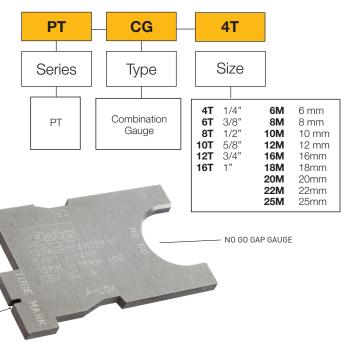
This compact C-Ring gap gauge is for imperial and metric sizes. It effectively checks the gap dimensions for correct initial make-up. All sizes can be combined on a key ring for easy handling.



# How to Order

The correct part number is easily derived from the following number sequence.

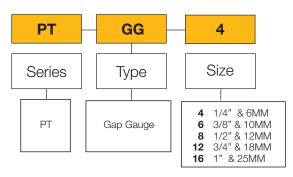
The three product characteristics required are coded as shown below.



# How to Order

The correct part number is easily derived from the following number sequence.

The three product characteristics required are coded as shown below.



# Parker Worldwide

#### Europe, Middle East, Africa

**AE – United Arab Emirates,** Dubai Tel: +971 4 8127100 parker.me@parker.com

**AT – Austria,** Wiener Neustadt Tel: +43 (0)2622 23501-0 parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt Tel: +43 (0)2622 23501 900 parker.easteurope@parker.com

**AZ – Azerbaijan,** Baku Tel: +994 50 2233 458 parker.azerbaijan@parker.com

**BE/LU – Belgium,** Nivelles Tel: +32 (0)67 280 900 parker.belgium@parker.com

BG – Bulgaria, Sofia Tel: +359 2 980 1344 parker.bulgaria@parker.com

**BY – Belarus,** Minsk Tel: +48 (0)22 573 24 00 parker.poland@parker.com

**CH – Switzerland,** Etoy Tel: +41 (0)21 821 87 00 parker.switzerland@parker.com

**CZ – Czech Republic,** Klecany Tel: +420 284 083 111 parker.czechrepublic@parker.com

**DE – Germany,** Kaarst Tel: +49 (0)2131 4016 0 parker.germany@parker.com

**DK – Denmark,** Ballerup Tel: +45 43 56 04 00 parker.denmark@parker.com

**ES – Spain,** Madrid Tel: +34 902 330 001 parker.spain@parker.com

**FI – Finland,** Vantaa Tel: +358 (0)20 753 2500 parker.finland@parker.com

FR – France, Contamine s/Arve Tel: +33 (0)4 50 25 80 25 parker.france@parker.com

**GR – Greece,** Athens Tel: +30 210 933 6450 parker.greece@parker.com

© 2017 Parker Hannifin Corporation. All rights reserved



HU – Hungary, Budaörs Tel: +36 23 885 470 parker.hungary@parker.com

**IE – Ireland,** Dublin Tel: +353 (0)1 466 6370 parker.ireland@parker.com

IL – Israel Tel: +39 02 45 19 21 parker.israel@parker.com

IT – Italy, Corsico (MI) Tel: +39 02 45 19 21 parker.italy@parker.com

**KZ – Kazakhstan,** Almaty Tel: +7 7273 561 000 parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal Tel: +31 (0)541 585 000 parker.nl@parker.com

**NO – Norway,** Asker Tel: +47 66 75 34 00 parker.norway@parker.com

PL – Poland, Warsaw Tel: +48 (0)22 573 24 00 parker.poland@parker.com

**PT – Portugal** Tel: +351 22 999 7360 parker.portugal@parker.com

**RO – Romania,** Bucharest Tel: +40 21 252 1382 parker.romania@parker.com

**RU – Russia**, Moscow Tel: +7 495 645-2156 parker.russia@parker.com

**SE – Sweden,** Spånga Tel: +46 (0)8 59 79 50 00 parker.sweden@parker.com

**SK – Slovakia,** Banská Bystrica Tel: +421 484 162 252 parker.slovakia@parker.com

SL – Slovenia, Novo Mesto Tel: +386 7 337 6650 parker.slovenia@parker.com

**TR – Turkey,** Istanbul Tel: +90 216 4997081 parker.turkey@parker.com

**UA – Ukraine,** Kiev Tel: +48 (0)22 573 24 00 parker.poland@parker.com **UK – United Kingdom,** Warwick Tel: +44 (0)1926 317 878 parker.uk@parker.com

**ZA – South Africa,** Kempton Park Tel: +27 (0)11 961 0700 parker.southafrica@parker.com

#### **North America**

**CA – Canada,** Milton, Ontario Tel: +1 905 693 3000

**US – USA,** Cleveland Tel: +1 216 896 3000

#### **Asia Pacific**

**AU – Australia**, Castle Hill Tel: +61 (0)2-9634 7777

**CN – China,** Shanghai Tel: +86 21 2899 5000

**HK – Hong Kong** Tel: +852 2428 8008

**IN – India,** Mumbai Tel: +91 22 6513 7081-85

**JP – Japan,** Tokyo Tel: +81 (0)3 6408 3901

**KR – South Korea,** Seoul Tel: +82 2 559 0400

**MY - Malaysia,** Shah Alam Tel: +60 3 7849 0800

**NZ – New Zealand,** Mt Wellington Tel: +64 9 574 1744

**SG – Singapore** Tel: +65 6887 6300

**TH – Thailand,** Bangkok Tel: +662 186 7000

**TW – Taiwan,** Taipei Tel: +886 2 2298 8987

#### **South America**

**AR – Argentina,** Buenos Aires Tel: +54 3327 44 4129

**BR – Brazil**, Sao Jose dos Campos Tel: +55 800 727 5374

**CL – Chile,** Santiago Tel: +56 2 623 1216

**MX – Mexico,** Toluca Tel: +52 72 2275 4200

Catalog 4190-TFE TTP 01/17

EMEA Product Information Centre Free phone: 00 800 27 27 5374 (from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA) US Product Information Centre Toll-free number: 1-800-27 27 537 www.parker.com

Parker Hannifin Manufacturing Ltd Instrumentation Products Division Europe Riverside Road Pottington Business Park Barnstaple, Devon, EX31 1NP United Kingdom Tel.: +44 (0) 1271 313131 www.parker.com/ipd