

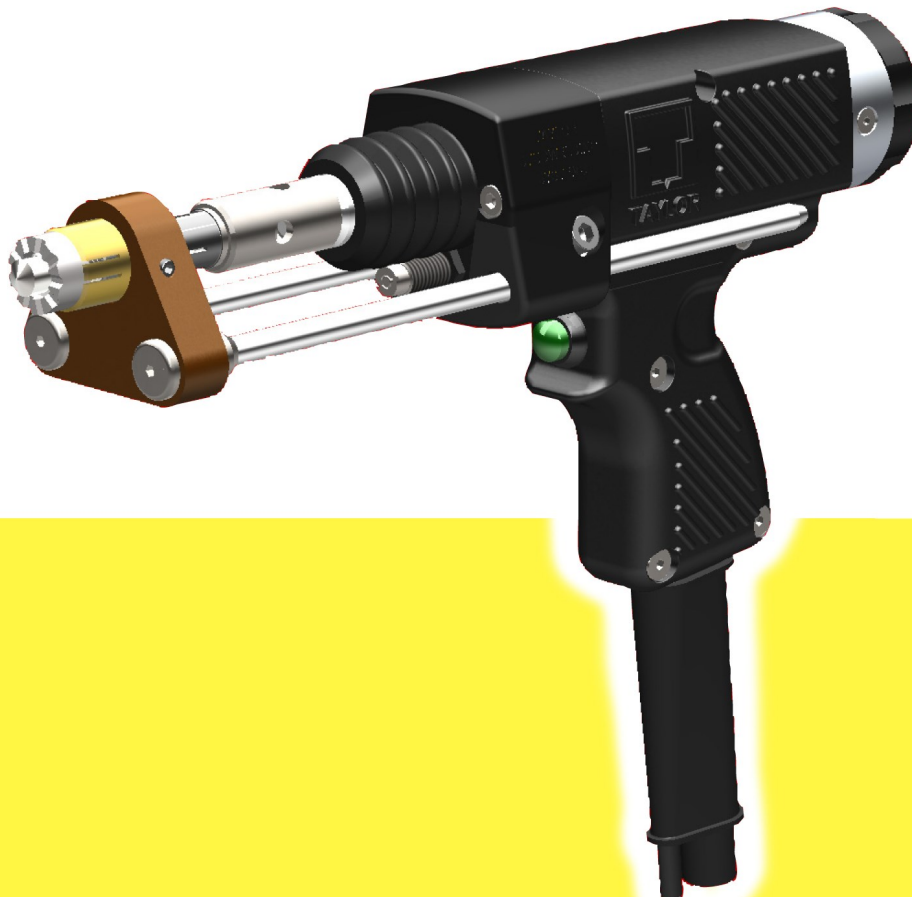
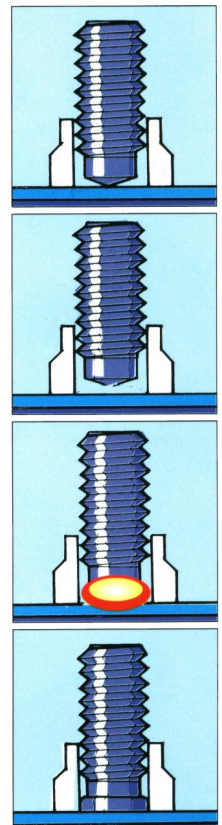
TAYLOR STUDWELDING SYSTEMS LIMITED



OPERATING GUIDE

FOR

TYPES DA1-A, DA2-A & DA3-A DRAWN ARC PISTOLS



A TAYLORMADE DRAWN ARC STUD WELDING PISTOL

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USEFUL INFORMATION

MANUFACTURERS DETAILS

TAYLOR STUDWELDING SYSTEMS LIMITED
COMMERCIAL ROAD
DEWSBURY
WEST YORKSHIRE
WF13 2BD
ENGLAND

TELEPHONE : +44 (0)1924 452123
FACSIMILE : +44 (0)1924 430059
email : sales@taylor-studwelding.com
WEB : www.taylor-studwelding.com

SALES DIRECT TEL : +44 (0)1924 487703
TECHNICAL HELPLINE : +44 (0)1924 487701

You may wish to record the details of your controller below as this information will help with any technical assistance you may require:

| | |
|--------------------------|--|
| PISTOL SERIAL No. | |
| DATE PURCHASED. | |

PURPOSE AND CONTENT OF THIS GUIDE

This guide has been written for :

- The personnel of the end-user responsible for the installation and maintenance of the pistol.
- The operator of the welding pistol.

This guide contains information relating to :

- Installation and connection.
- Operation.
- Technical specifications and parameters.
- Spare parts.

USEFUL INFORMATION

FURTHER INFORMATION

Should you require additional technical information, please contact us directly (details on previous page) or our local agent / distributor (details of agents etc. can be obtained from us).

This guide contains important information which is a pre-requisite for safe Operation of the pistol. The operating personnel must be able to consult this guide when necessary. In the interests of safety, make this guide available to your personnel in good time.

If the pistol is sold / passed on, please hand over this manual to the new owner and if possible please inform us of the name and address of the new owner, in case we need to contact him regarding the safety of the machine.



PLEASE READ THIS GUIDE CAREFULLY BEFORE INSTALLING OR OPERATING THE PISTOL.



PLEASE OBSERVE CAREFULLY ALL SAFETY PROCEDURES/INSTRUCTIONS.



DUE TO THE POWER REQUIREMENTS AND ELECTROMAGNETIC EMISSIONS PRODUCED DURING NORMAL USE, THIS PISTOL MUST ONLY BE OPERATED IN AN INDUSTRIAL ENVIRONMENT.



NEVER REMOVE ANY PORTION OF THE UNIT HOUSING WITHOUT FIRST ISOLATING THE PISTOL FROM THE CONTROLLER.

IMPORTANT SAFETY INFORMATION !

PROTECT YOURSELF AND OTHERS !

Read and understand these safety notes.

1. ELECTRICAL

No portion of the outer cover of the welding pistol should be removed by anyone other than suitably qualified personnel and never whilst mains power is connected.



ALWAYS DISCONNECT THE MAINS LEAD BEFORE ATTEMPTING ANY MAINTENANCE.

BEWARE - RISK OF ELECTRIC SHOCK !

Do not use any fluids to clean electrical components as these may penetrate into the electrical system.

Installation must be according to the setting up procedure detailed on page 8 of this guide and must be in line with national, regional and local safety codes.

2. FIRE

During welding small particles of very hot metal are expelled. Ensure that no combustible materials can be ignited by these.

3. PERSONNEL SAFETY

Arc rays can burn your eyes and skin and noise can damage your hearing. Operators and personnel working in close proximity must wear suitable eye, ear and body protection.

Fumes and gases can seriously harm your health. Use the equipment only in a suitably ventilated area. If ventilation is inadequate, then appropriate fume extraction equipment must be used.

Hot metal spatter can cause fire and burns. Appropriate clothing must be worn. Clothing made from, or soiled with, combustible materials must NOT be worn.

Have a fire extinguisher nearby and know how to use it.

Magnetic fields from high currents can affect heart pacemakers or other electronically controlled medical devices. It is imperative that all personnel likely to come into the vicinity of any welding plant are warned of the possible risks before entering the area.

4. MAINTENANCE

All cables must be inspected regularly to ensure that no danger exists from worn or damaged insulation or from unsound electrical connections. Special note should be made of the cables close to the pistol, where maximum wear occurs. As well as producing inconsistent welds, worn cables can overheat or spark, giving rise to the risk of fire.

IMPORTANT SAFETY INFORMATION !

5. TRAINING

Use of the equipment must be limited to authorised personnel only who must be suitably trained and must have read and understood this manual. This manual must be made available to all operators at all times. Further copies of this manual may be purchased from the manufacturer. Measures must be taken to prevent the use of this equipment by unauthorised personnel.

6. INSTALLATION

Ensure that the site chosen for the equipment is able to support the weight of the equipment and that it will not fall or cause a danger in the course of its normal operation. Do not hang connecting cables over sharp edges and do not install connecting cables near heat sources or via traffic routes where people may trip over them or they may be damaged by the passage of vehicles (forklifts etc).

7. INTERFERENCE

During welding operations, intense magnetic and electrical fields are unavoidably produced which may interfere with other sensitive Electronic equipment.

All Taylor Studwelding equipment is designed, manufactured and tested to conform the current appropriate European standards and directives regarding electromagnetic emissions and immunity and as such is safe to use in any normal environment.

8. DISPOSAL

The equipment either wholly or any of its component parts may be disposed of as part of general industrial waste or passed to a scrap merchant. None of the components used in the manufacture are toxic, carcinogenic or harmful to health in their "as supplied" condition.

INTRODUCTION TO STUDWELDING

The Taylor Studwelding DA2-A studwelding pistol when matched with an appropriate controller and earth cables is intended for precision stud welding up to 20 mm diameter full base studs. The pistol is lightweight, ergonomic and has been designed to operate with a minimum amount of maintenance.

The energy required to carry out the welding operation is derived from an appropriate studwelding controller.

Taylor Studwelding Systems Ltd controllers are modern, robustly designed and offer maximum reliability combined with an easy to understand operator interface.

THE PROCESS

The process of drawn arc studwelding is long established and well proven. The basic steps are as follows :

- A measured amount of weld stud protrusion is set at the welding pistol.
- Once in position, the pistol lifts the stud away from the work-piece, simultaneously striking an arc between the two.
- Both the tip of the weld stud and the surface of the work-piece melt as the arc is sustained for a pre-determined interval.
- At the completion of the pre-determined interval, the pistol returns the weld stud to the molten pool on the work-piece, thus forming a weld.

The most common and traditional drawn arc welds have a weld duration greater than 100ms and employ the use of a single use ceramic arc shield, commonly referred to as a ferrule. This ferrule helps to protect the arc during the weld and assists in formation of the final fillet. Post welding the ferrule is removed and disposed of.

It is possible to stud weld without a ferrule. When using this method it is recommended practice to employ a suitable shielding gas to reduce the amount of porosity in the completed weld and improve weld quality.

SETTING UP AND WELDING

As standard, the DA2-A pistol comes fitted with standard legs and a standard foot adaptor. The pistol has a standard UK and American taper adaptor fitted to the M10 thread on the weld shaft. This enables the use of standard UK tapered DA chucks, enabling studs up to 20mm in diameter to be welded (see fig.1).

Other arrangements are available as shown in figs. 2 & 3.



In fig.2 the adapter is not fitted to the weld shaft to enabling standard European screw-on chucks to be used, enabling studs up to 20mm in diameter to be welded.



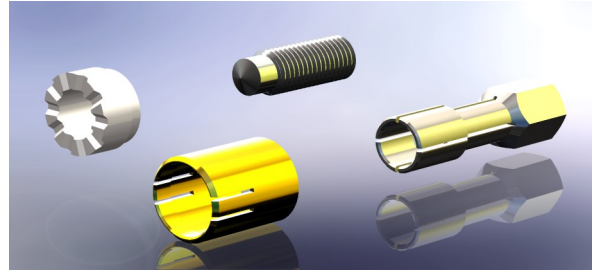
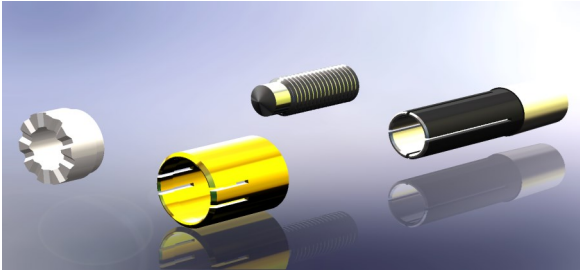
In fig.3 a 35mm gas foot arrangement using long legs and an extended form of screw-on chuck allows for welding, with or without gas.



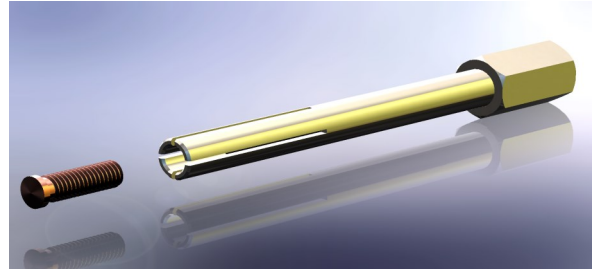
Please refer to the accessories section of this guide for information regarding chucks and other accessories for the pistol.

The DA2-A pistol is commonly referred to as a “ring lift” pistol. This means the pistol has an internal clutch, allowing for moderate inconsistencies in the length of the studs being welded, without affecting weld quality.

SETTING UP AND WELDING

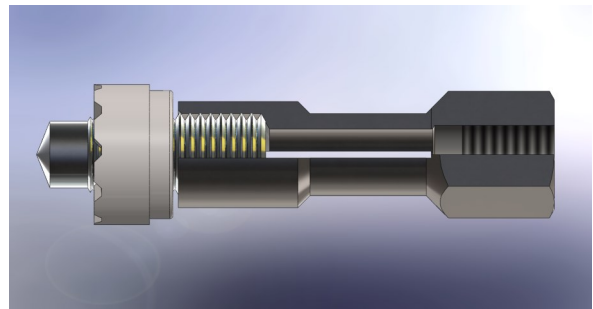


Once you have selected the type and size of stud you wish to weld and obtained the correct chuck (see the accessories section of this guide for a list of available sizes), you will need to set up the chuck and fit it to the pistol.

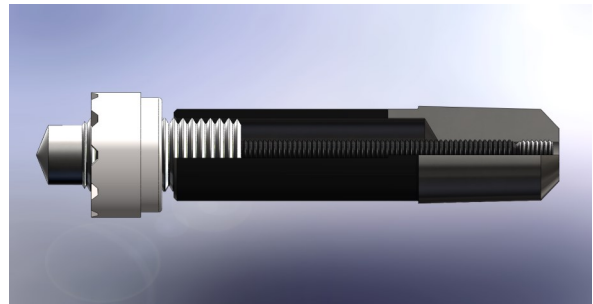


On the page “An introduction to studwelding”, under the heading “The Process” it explains that a measured amount of stud protrusion is set at the welding pistol.

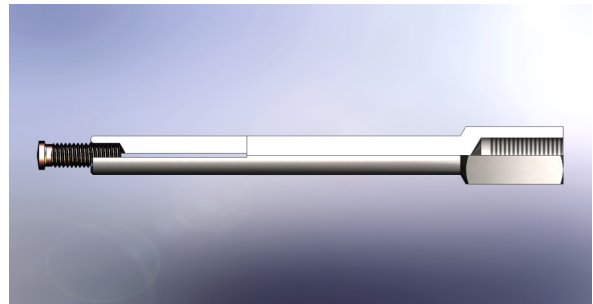
To ensure that the correct amount of protrusion will be available once the chuck is fitted to the pistol, it is important to set the chuck correctly in the first place. Some chucks have a pre-determined depth (see right) which will only allow a certain amount of the stud to be inserted.



Other chucks have a backstop arrangement that allows the depth of engagement to be adjusted.



Regardless of which type of chuck is employed, when welding with ceramic ferrules, it is important that sufficient stud length is exposed to allow more than the “burn-off” allowance of the stud to pass completely through the ferrule. Insufficient allowance may result in the leading edge of the chuck hitting the back of the ferrule during welding. This would result in failed welds.

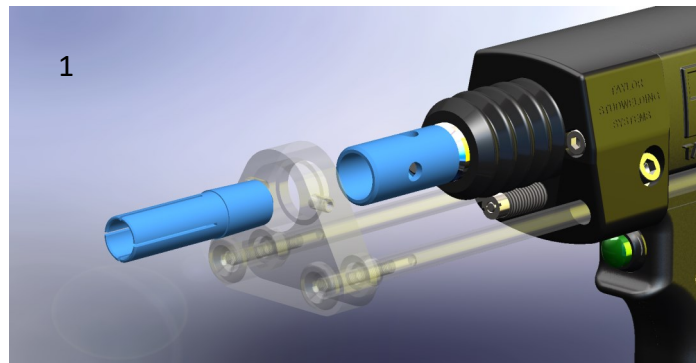


In non-ferrule welding it is only necessary to set the chuck so that sufficient stud length is exposed to prevent damage to the leading edge of the chuck during welding.

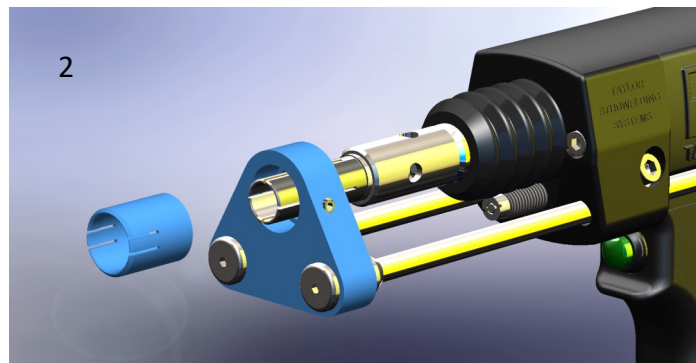
Having set up the chuck, you are now ready to fit it into the pistol.

SETTING UP AND WELDING

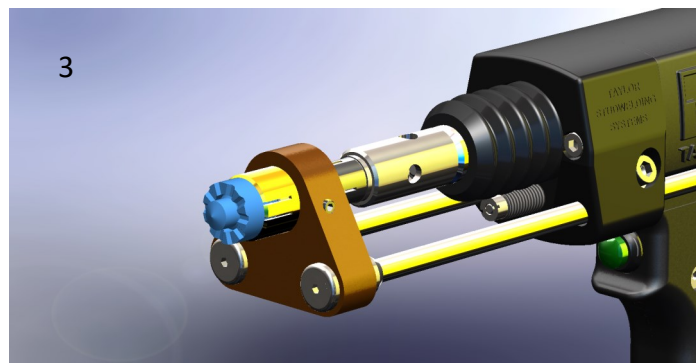
Fit the chuck into the tapered shaft adaptor (fig.1) and secure in place by gently tapping the chuck to lock the taper. The chuck may be subsequently removed using a twist drift (see page 22 for tools) inserted through the cross-drilled holes in the taper adaptor.



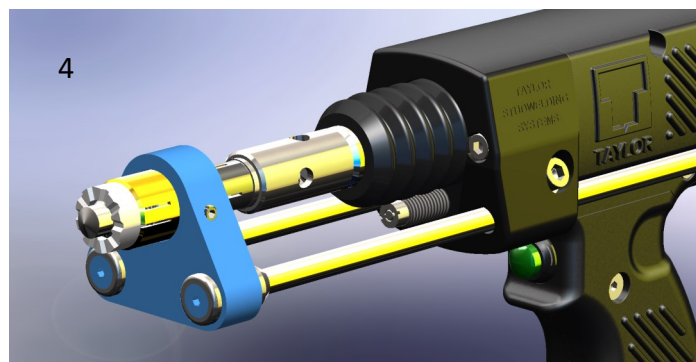
Fit the ferrule grip into the foot adaptor (fig.2) and secure in place using the 2 set screws in the foot adaptor. Do not over-tighten the set screws as this may result in damage to either the ferrule grip or the foot adaptor or both.



Place a stud and ferrule into the chuck and grip (fig.3). Ensure the stud is pressed fully home and that the ferrule is properly seated in the grip.



Centre the ferrule over the stud (fig.4). Use the 2 countersunk socket screws set in the foot washers to loosen and adjust the position of the foot adaptor on the pistol legs. It is very important that the ferrule does not bind on the stud as this will cause poor, inconsistent and failed welds.



SETTING UP AND WELDING

Set the correct protrusion (fig.5) by loosening the two socket cap screws fitted at an angle in the sides of the front end cap.

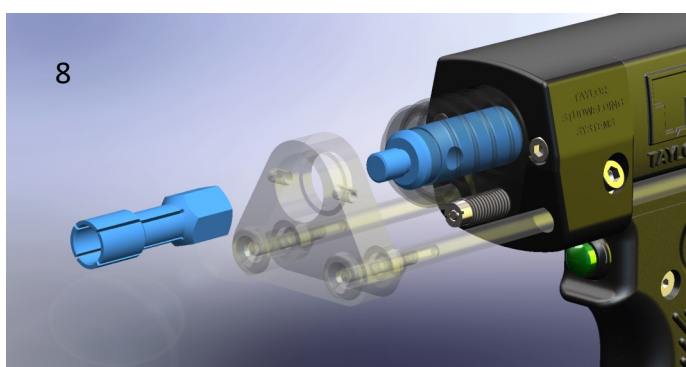
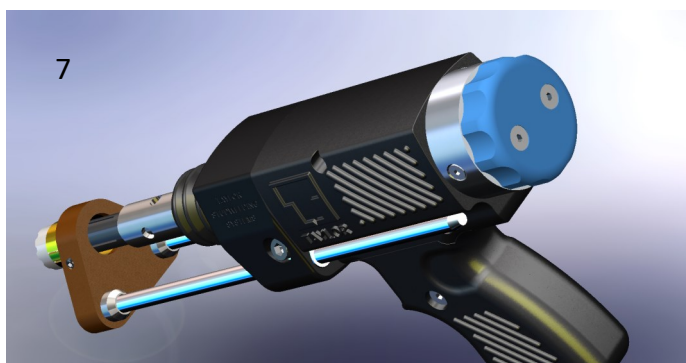
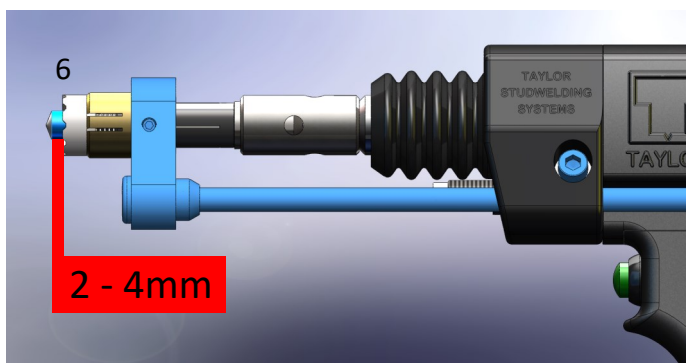
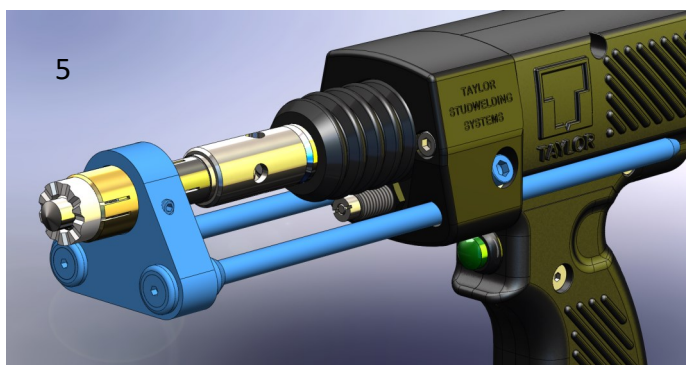
Slide the foot/leg assembly in/out (fig.6) to achieve the desired stud protrusion, which should be around 2 - 4mm depending on the diameter of stud being welded. Protrusion is the distance from the front face of the ferrule to the front edge of the stud, not including the coned tip.

IMPORTANT! Please note that it is necessary to check/reset the protrusion when changing the stud length/diameter.

Adjustment of the pistol lift is achieved by turning the rear end cap of the pistol (fig.7). The cap has a “click” detent where one “click” is approx’ equal to a 0.25mm change in lift. Turning the cap clockwise (CW) will reduce lift, whilst turning the cap anti-clockwise (ACW) will increase lift. Upon first use when the lift position is unknown, it is good practice to zero the pistol by turning the adjuster fully CW, then in stages turning the adjuster ACW, pulling the trigger between adjusts to observe the lift, adjust until the pistol begins to lift. Once the pistol begins to lift, one click CW is the zero position and the desired lift can be set from this point.

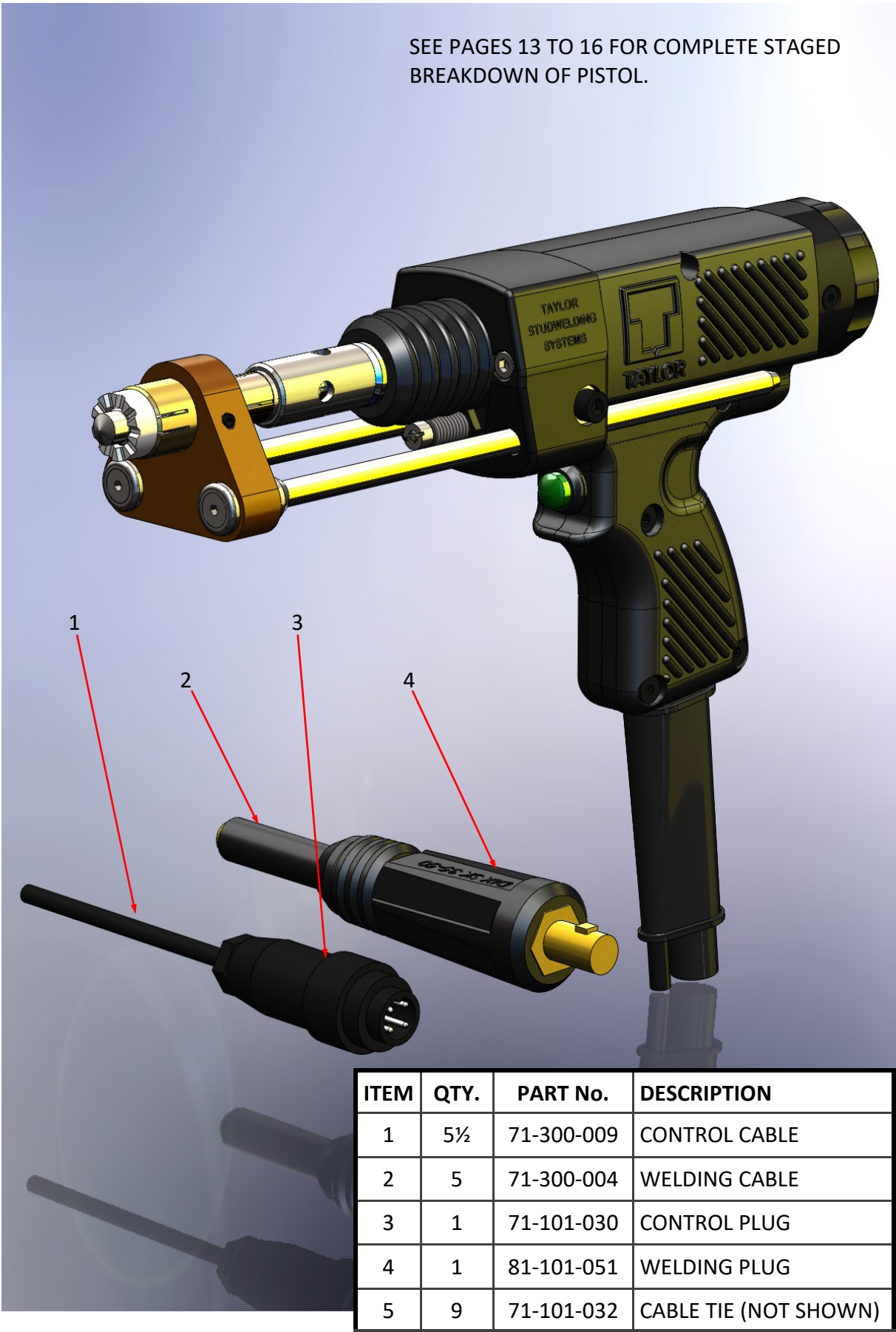
PLEASE NOTE! It is possible to use European type screw-on chucks with this pistol. This is achieved by removing and discarding the tapered chuck adaptor. The adaptor can be removed by using a pair of bars through the cross-drilled holes in the adaptor and the front shaft adaptor (check under the rubber protection bellows for the shaft hole). Likewise the chuck is then fitted (fig.8) by bracing the shaft using this hole and an appropriate wrench. It is IMPORTANT that the shaft is properly braced when fitting or removing screw-on chucks. Failure to do so may result in damage to the pistol.

IMPORTANT! Information contained in this operating guide is intended to assist in setting up the pistol. The suggested settings are intended as a starting point only. Fine tuning the settings to achieve the most satisfactory results is essential and is the responsibility of the user of the pistol.

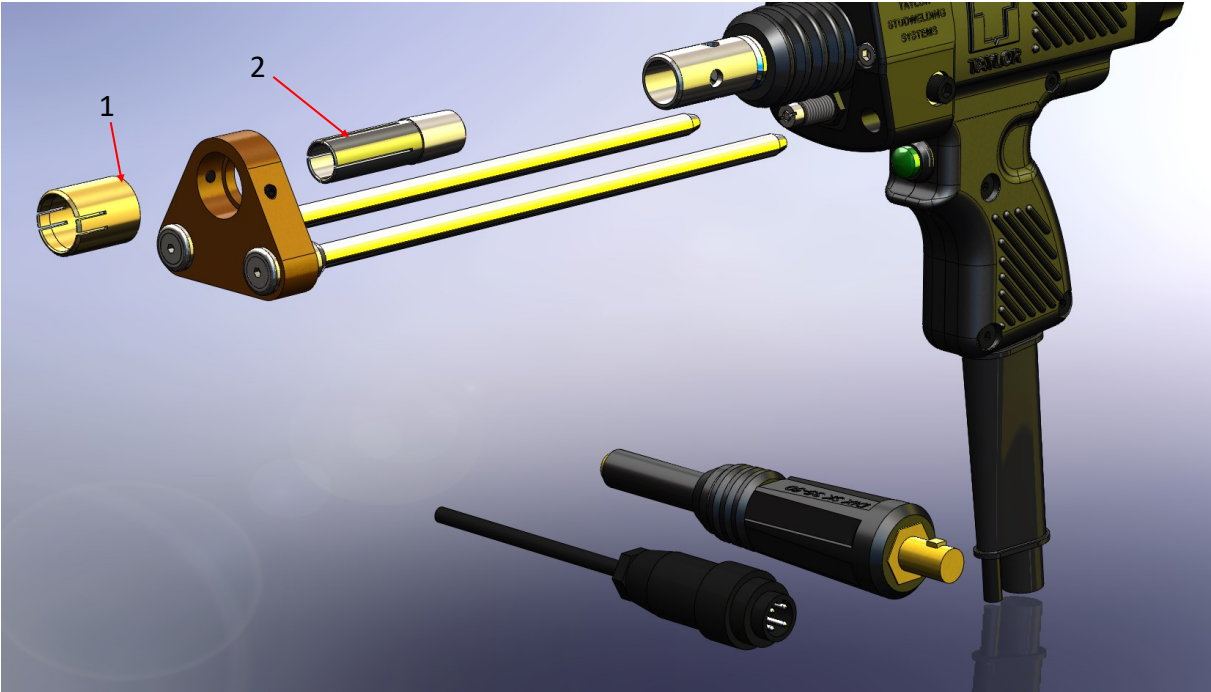


EXPLODED DIAGRAMS & PARTS LISTINGS

SEE PAGES 13 TO 16 FOR COMPLETE STAGED
BREAKDOWN OF PISTOL.

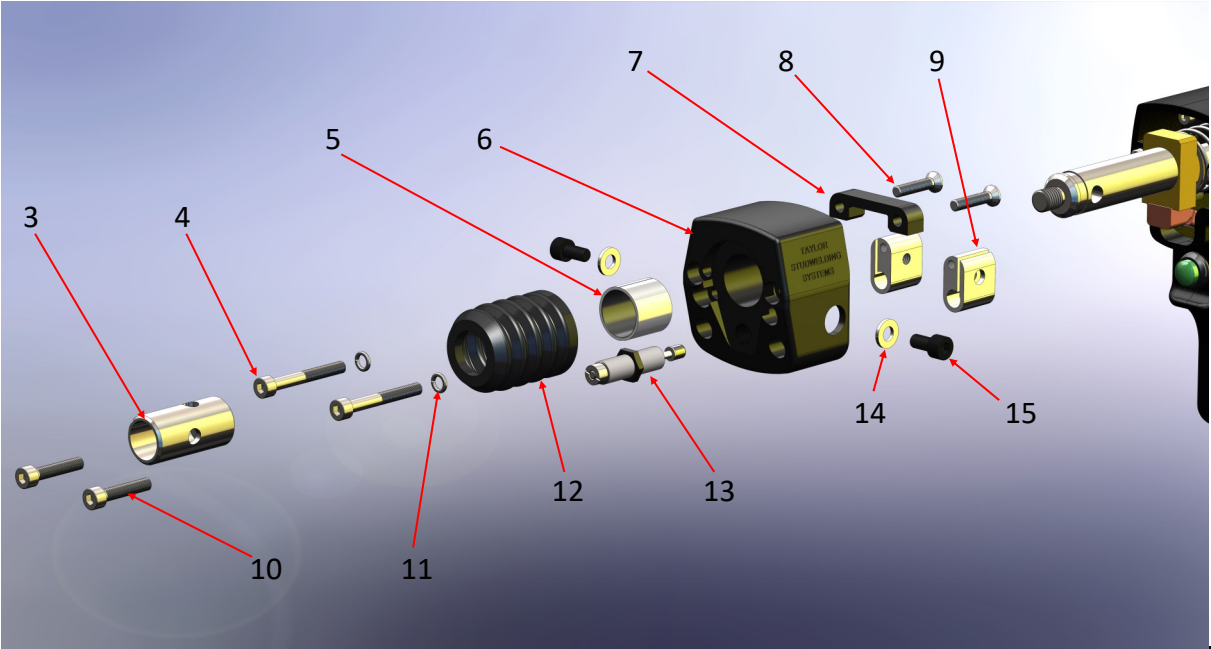


EXPLODED DIAGRAMS & PARTS LISTINGS

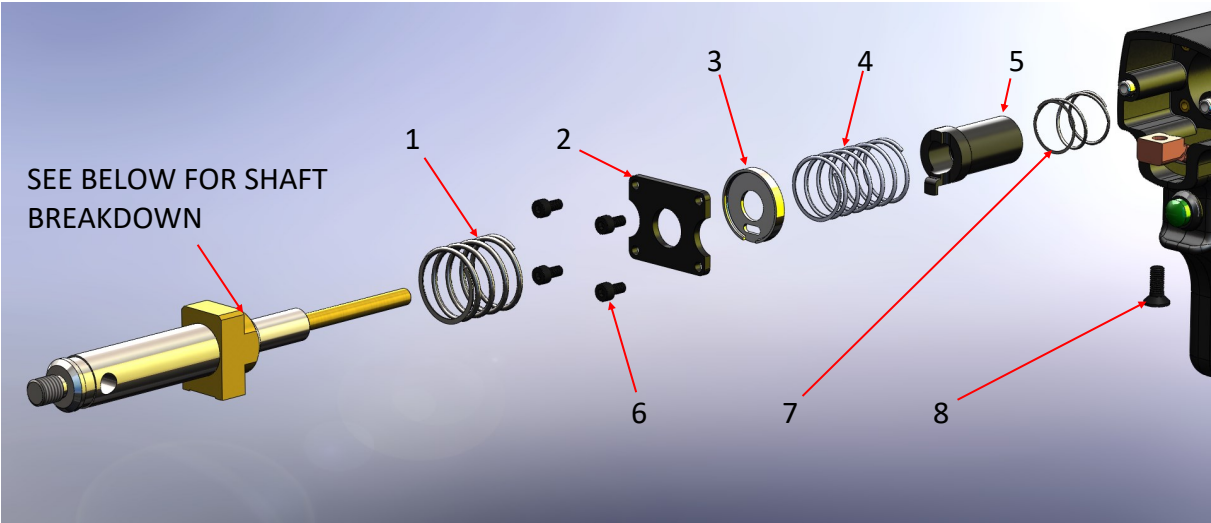


| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|---------------|
| 1 | | SEE PAGE 18 | FOOT ASSEMBLY |
| 2 | | SEE PAGE 18 | CHUCK & GRIP |
| 3 | 1 | 81-101-005 | CHUCK GRIP |
| 4 | 2 | Z105-05-040 | SCREW |
| 5 | 1 | 81-101-298 | BEARING BUSH |
| 6 | 1 | 81-101-190 | FRONT END CAP |
| 7 | 1 | 81-101-297 | A R PLATE |

| | | | |
|----|---|-------------|----------|
| 8 | 2 | Z120-05-025 | SCREW |
| 9 | 2 | 81-101-191 | LEG GRIP |
| 10 | 2 | Z100-05-025 | SCREW |
| 11 | 2 | Z615-05-000 | WASHER |
| 12 | 1 | 81-111-044 | BELLOWS |
| 13 | 1 | 81-101-293 | DAMPER |
| 14 | 2 | Z600-06-000 | WASHER |
| 15 | 2 | Z105-06-010 | SCREW |



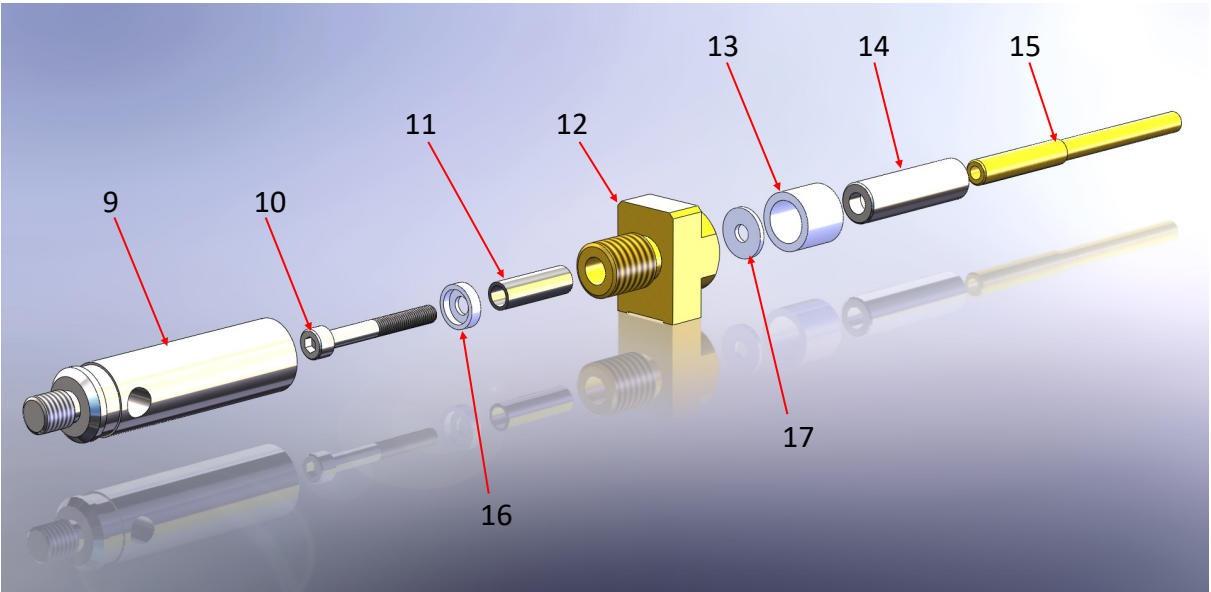
EXPLODED DIAGRAMS & PARTS LISTINGS



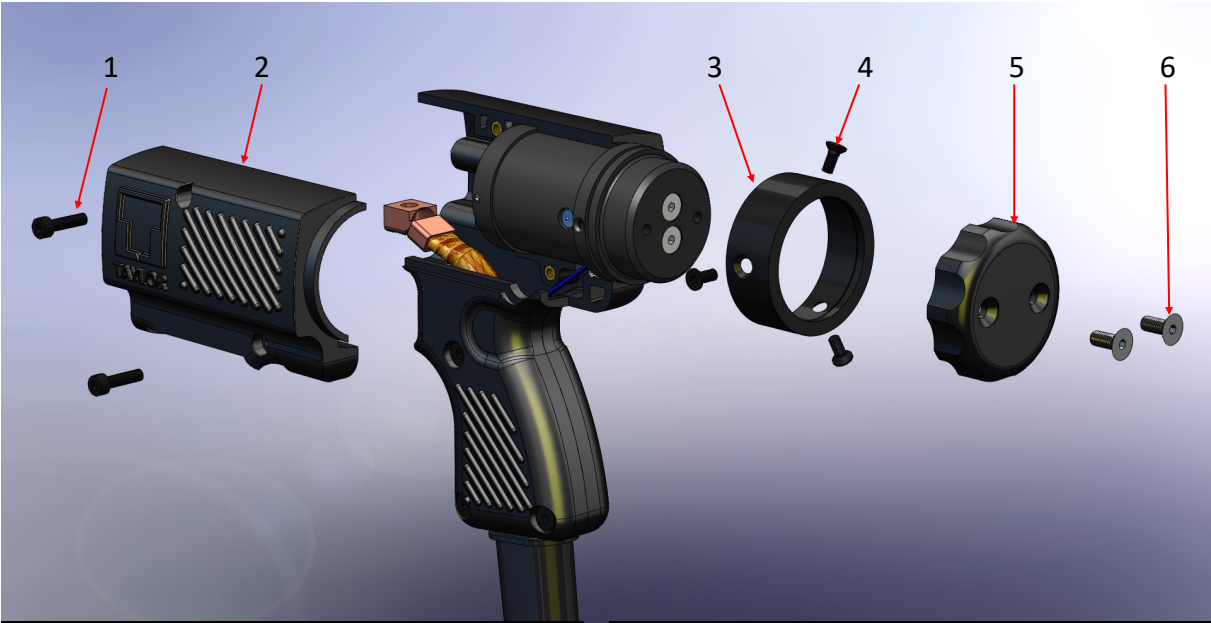
| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|-----------------|
| 1 | 1 | 81-101-299 | SHAFT SPRING |
| 2 | 1 | 81-101-014 | RING RET. PLATE |
| 3 | 1 | 81-101-015 | LIFTING RING |
| 4 | 1 | 81-101-018 | RING SPRING |
| 5 | 1 | 81-101-286 | LIFTING HOOK |
| 6 | 4 | Z100-04-008 | SCREW |
| 7 | 1 | 81-101-345 | HOOK SPRING |
| 8 | 1 | Z120-06-016 | SCREW |

| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|----------------|
| 9 | 1 | 81-101-192 | SHAFT ADAPTOR |
| 10 | 1 | Z105-05-040 | SCREW |
| 11 | 1 | 81-101-194 | INSULATOR |
| 12 | 1 | 81-101-195 | SHAFT BLOCK |
| 13 | 1 | 81-101-197 | INSULATOR |
| 14 | 1 | 81-101-073 | LIFTING SLEEVE |
| 15 | 1 | 81-101-269 | GUIDE ROD |
| 16 | 1 | 81-101-193 | INSULATOR |
| 17 | 1 | 81-101-196 | INSULATOR |

COMPLETE SHAFT ASSEMBLY IS AVAILABLE UNDER PART No. : 81-101-134

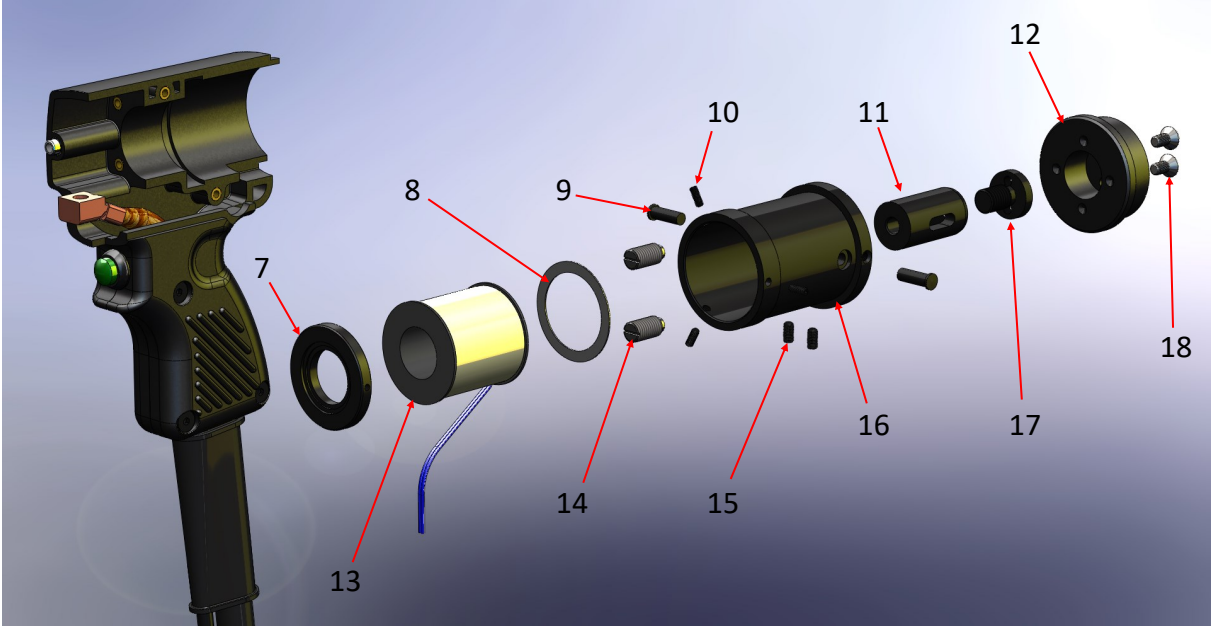


EXPLODED DIAGRAMS & PARTS LISTINGS

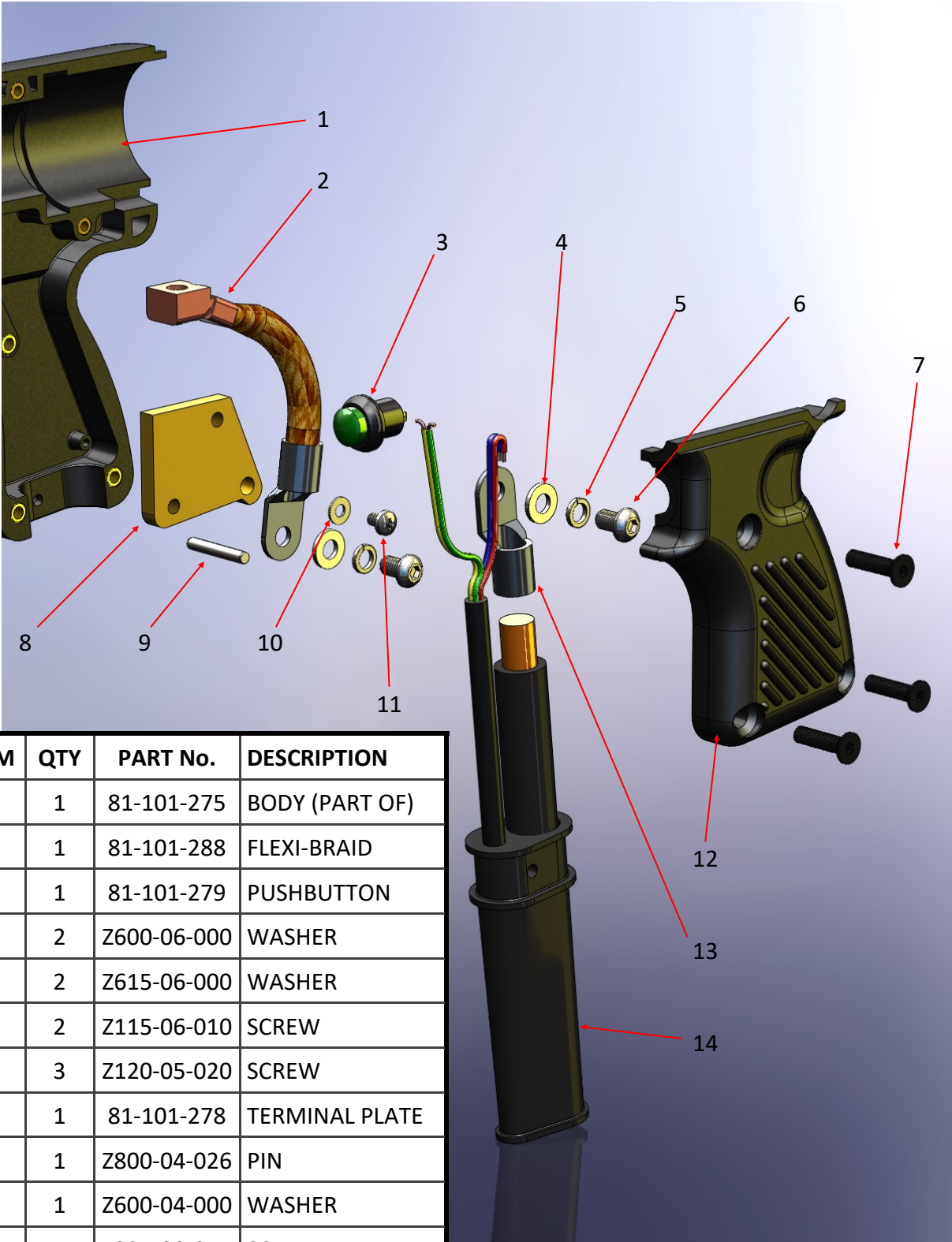


| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|----------------|
| 1 | 2 | Z100-04-016 | SCREW |
| 2 | 1 | 81-101-275 | BODY (PART OF) |
| 3 | 1 | 81-101-284 | BODY RING |
| 4 | 3 | Z120-04-008 | SCREW |
| 5 | 1 | 81-101-285 | REAR END CAP |
| 6 | 2 | Z120-05-012 | SCREW |
| 7 | 1 | 81-101-267 | RETAINING RING |
| 8 | 1 | 81-101-039 | WASHER |
| 9 | 2 | Z650-05-016 | PIN |

| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|-----------------|
| 10 | 3 | Z400-03-008 | SET SCREW |
| 11 | 1 | 81-101-281 | BACKSTOP |
| 12 | 1 | 81-101-283 | DETENT CAP |
| 13 | 1 | 81-101-170 | COIL |
| 14 | 2 | 81-111-039 | DETENT |
| 15 | 2 | Z400-04-012 | SET SCREW |
| 16 | 1 | 81-101-280 | COIL HOUSING |
| 17 | 1 | 81-101-282 | BACKSTOP DRIVER |
| 18 | 2 | Z120-05-010 | SCREW |



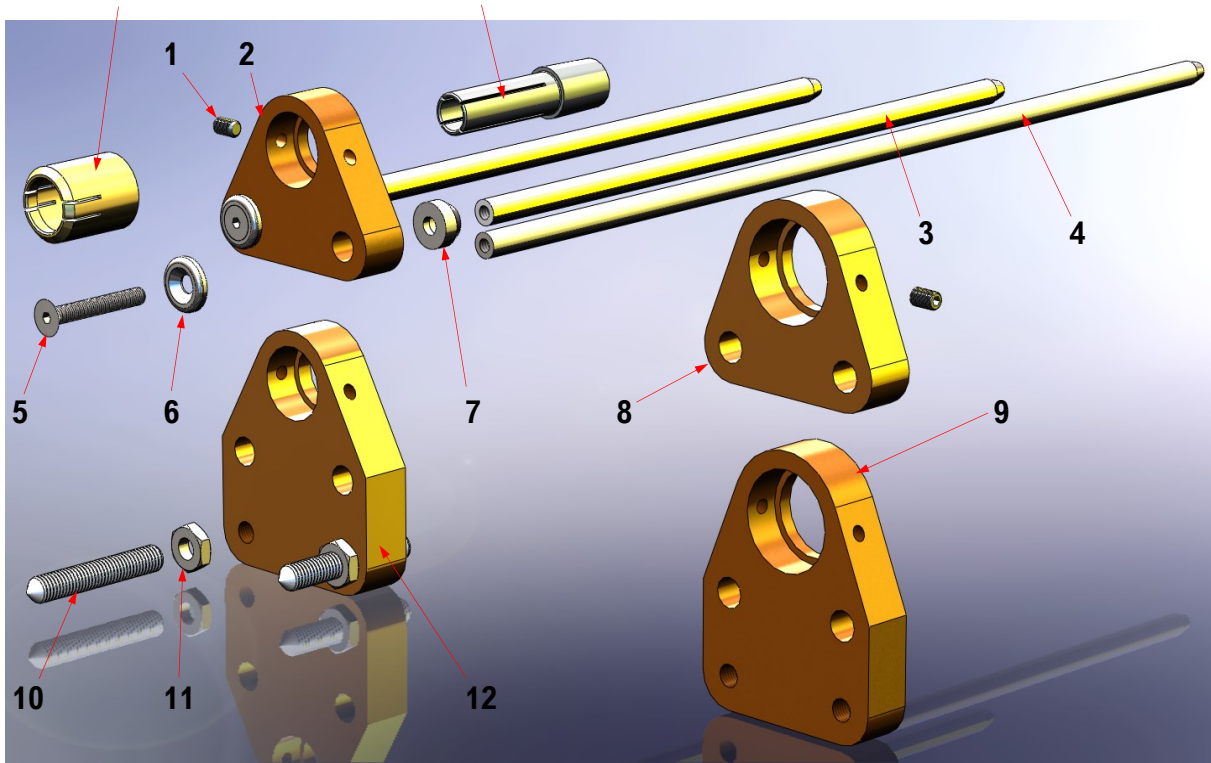
EXPLODED DIAGRAMS & PARTS LISTINGS



| ITEM | QTY | PART No. | DESCRIPTION |
|------|-----|-------------|----------------|
| 1 | 1 | 81-101-275 | BODY (PART OF) |
| 2 | 1 | 81-101-288 | FLEXI-BRAID |
| 3 | 1 | 81-101-279 | PUSHBUTTON |
| 4 | 2 | Z600-06-000 | WASHER |
| 5 | 2 | Z615-06-000 | WASHER |
| 6 | 2 | Z115-06-010 | SCREW |
| 7 | 3 | Z120-05-020 | SCREW |
| 8 | 1 | 81-101-278 | TERMINAL PLATE |
| 9 | 1 | Z800-04-026 | PIN |
| 10 | 1 | Z600-04-000 | WASHER |
| 11 | 1 | Z225-08-914 | SCREW |
| 12 | 1 | 81-101-275 | BODY (PART OF) |
| 13 | 1 | Z700-06-S38 | TERMINAL |
| 14 | 1 | 81-101-287 | CABLE SLEEVE |

ACCESSORIES

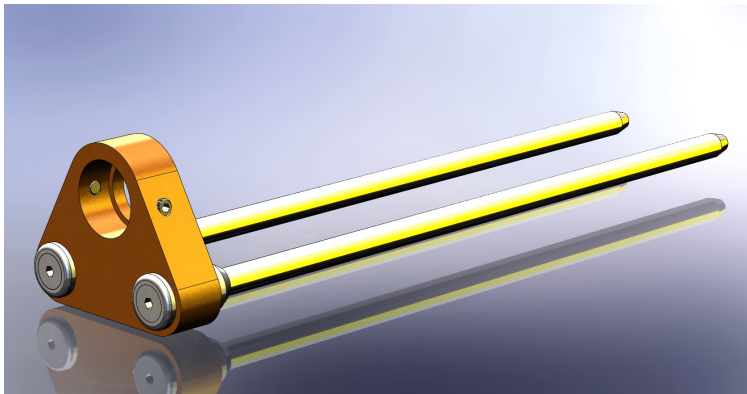
SEE PAGES 20 - 22 FOR OUR STANDARD DRAWN ARC, EUROPEAN AND GAS CHUCKS, FERRULE GRIPS AND ACCESSORIES RANGE



**SEE NEXT PAGE FOR COMPLETE
FOOT ASSEMBLY PART NUMBERS**

| ITEM | QTY. | PART No. | DESCRIPTION |
|------|------|-------------|-----------------------------------|
| 1 | 2 | Z400-05-008 | GRUB SCREW |
| 2 | 1 | 81-101-002 | STANDARD FOOT ADAPTOR (M3 - M12) |
| 3 | 2 | 81-101-004 | STANDARD LEG (230mm) |
| 4 | 2 | 89-101-081 | EXTENDED LEG (330mm) |
| 5 | 2 | Z125-05-035 | SCREW |
| 6 | 2 | 81-101-003 | FOOT WASHER |
| 7 | 2 | 81-101-001 | FOOT WASHER |
| 8 | 1 | 81-101-063 | STANDARD FOOT ADAPTOR (M16 - M20) |
| 9 | 1 | 81-101-131 | TRIPOD FOOT ADAPTOR (M16 - M20) |
| 10 | 2 | Z415-08-050 | GRUB SCREW |
| 11 | 2 | Z510-08-000 | LOCKNUT |
| 12 | 1 | 81-101-126 | TRIPOD FOOT ADAPTOR (M3 - M12) |

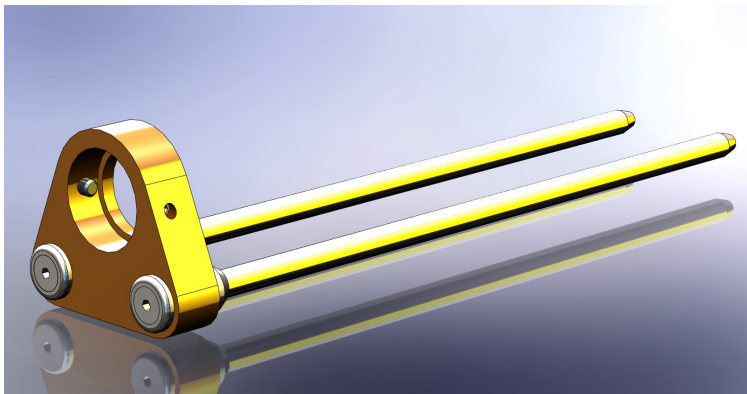
ACCESSORIES



STANDARD FOOT ADAPTOR
ASSEMBLY (M3 - M12,
STANDARD LEGS)

COMPLETE ASSEMBLY :

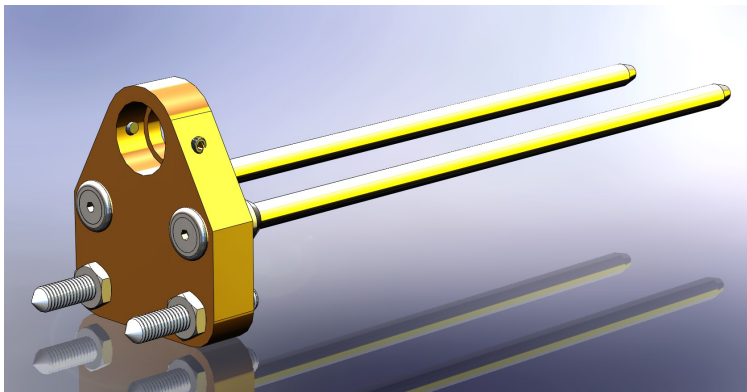
81-101-158



STANDARD FOOT ADAPTOR
ASSEMBLY (M16 - M20,
STANDARD LEGS)

COMPLETE ASSEMBLY :

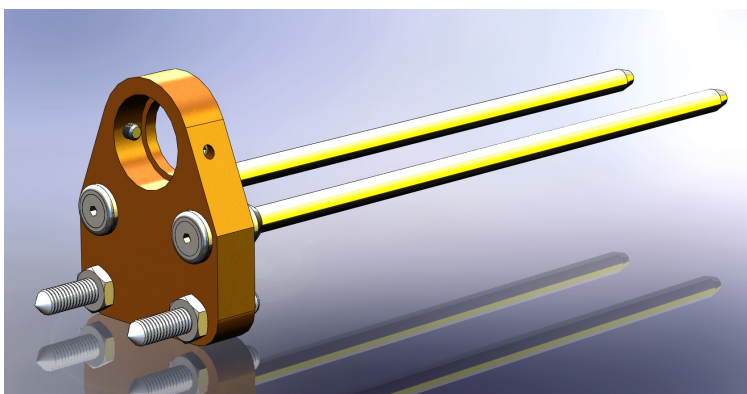
81-101-159



TRIPOD FOOT ADAPTOR
ASSEMBLY (M3 - M12,
STANDARD LEGS)

COMPLETE ASSEMBLY :

81-101-140

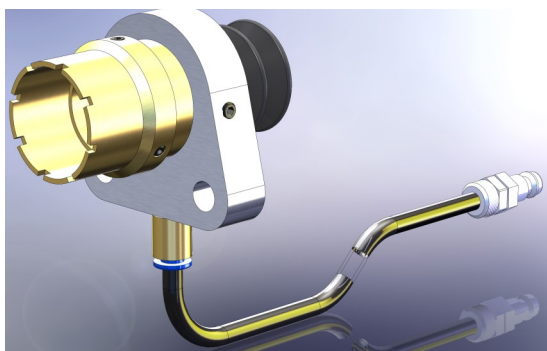


STANDARD FOOT ADAPTOR
ASSEMBLY (M16 - M20,
STANDARD LEGS)

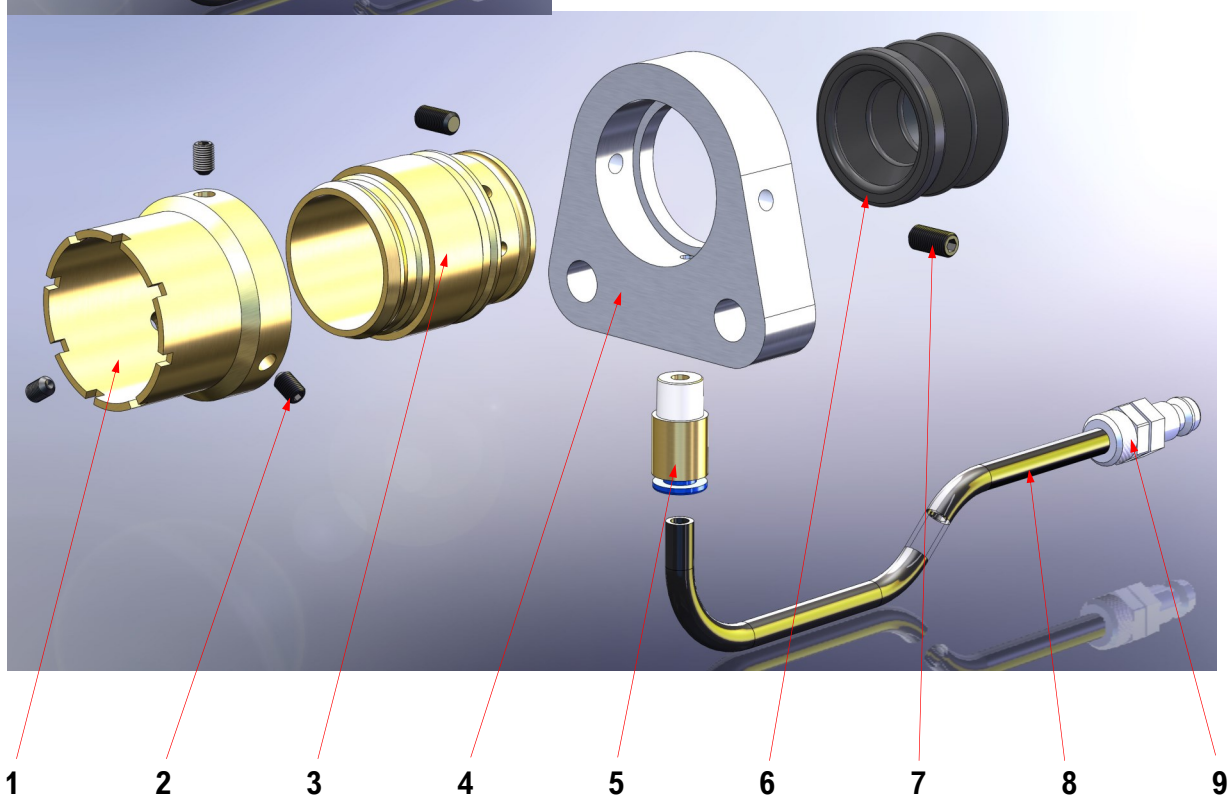
COMPLETE ASSEMBLY :

81-101-141

ACCESSORIES



COMPLETE ASSEMBLY (NO LEGS)
PART NUMBER : 89-101-414



| ITEM | QTY. | PART No. | DESCRIPTION |
|------|------|-----------------|-----------------|
| 1 | 1 | 89-101-249 | Ø35mm NOSE CONE |
| 2 | 3 | Z400-05-006 | GRUB SCREW |
| 3 | 1 | 89-101-246 | GAS CONE |
| 4 | 1 | 89-101-245 | FOOT ADAPTOR |
| 5 | 1 | PFS-P06-U1M-INT | GAS FITTING |
| 6 | 1 | 89-101-244 | BELLOWS |
| 7 | 2 | Z400-05-010 | GRUB SCREW |
| 8 | 5.5 | 71-200-043 | GAS PIPE |
| 9 | 1 | 71-200-067 | GAS PLUG |

ACCESSORIES - CHUCKS

EUROPEAN SCREW-ON TYPE

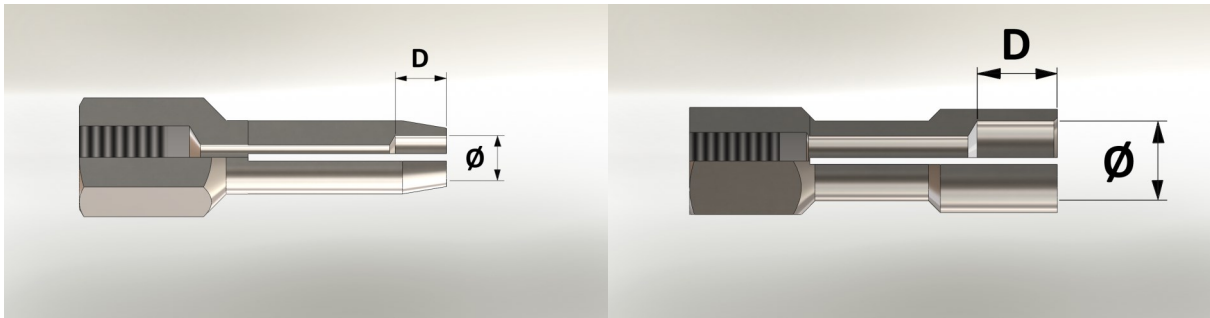


TABLE 1

LISTS OUR STANDARD STOCK RANGE OF CHUCKS.

TABLE 1

| Ø | D | PART NUMBER |
|----|----|-------------|
| 3 | 5 | 89-101-003 |
| 4 | 5 | 89-101-004 |
| 5 | 6 | 89-101-005 |
| 6 | 7 | 89-101-006 |
| 8 | 9 | 89-101-008 |
| 10 | 11 | 89-101-010 |
| 12 | 13 | 89-101-012 |

TABLE 2

LISTS OUR NON STOCK RANGE OF CHUCKS.
NOTE! NON STOCK CHUCKS WILL REQUIRE ADDITIONAL
DELIVERY LEAD TIMES AND MAY BE SUBJECT TO
MINIMUM ORDER QUANTITY.

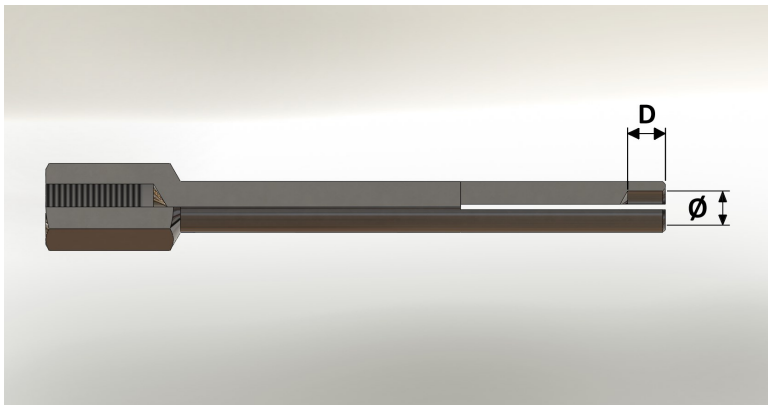
PLEASE NOTE.
IF THE CHUCK THAT YOU REQUIRE IS NOT SHOWN HERE,
PLEASE CHECK WITH US.

TABLE 2

| Ø | D | PART NUMBER |
|----|----|-------------|
| 4 | 25 | 89-101-021 |
| 6 | 15 | 89-101-022 |
| 6 | 25 | 89-101-023 |
| 8 | 6 | 89-101-024 |
| 8 | 25 | 89-101-025 |
| 10 | 4 | 89-101-026 |
| 10 | 6 | 89-101-027 |
| 12 | 6 | 89-101-028 |

ACCESSORIES - CHUCKS

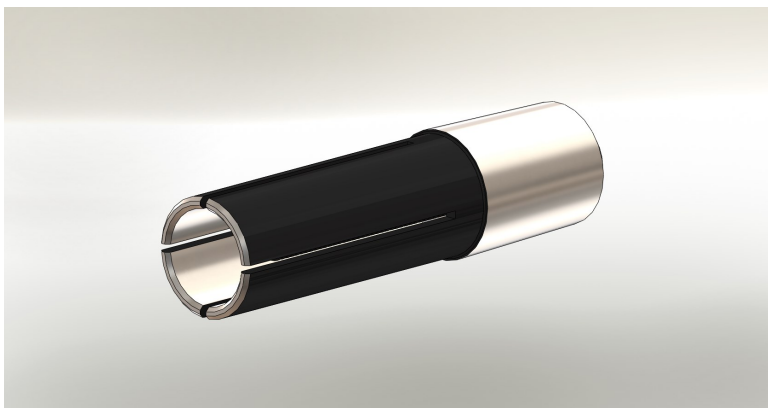
EUROPEAN SCREW-ON GAS TYPE



| Ø | D | PART NUMBER |
|----|----|-------------|
| 5 | 4 | 89-101-035 |
| 6 | 4 | 89-101-036 |
| 6 | 7 | 89-101-037 |
| 8 | 4 | 89-101-038 |
| 8 | 9 | 89-101-039 |
| 10 | 11 | 89-101-040 |
| 12 | 13 | 89-101-042 |

ACCESSORIES - CHUCKS

UK TAPER FIT - ADJUSTABLE

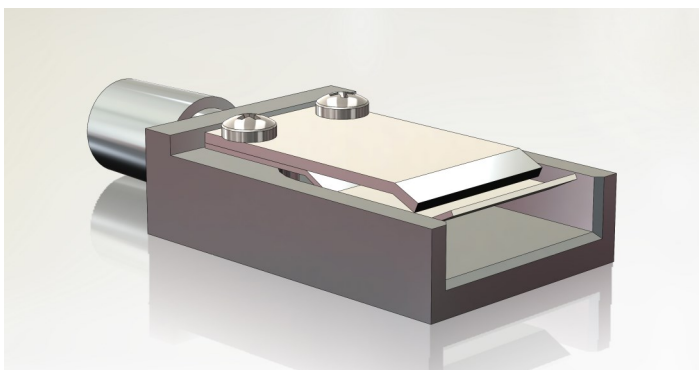


PLEASE NOTE. OTHER CHUCK SIZES ARE AVAILABLE.
PLEASE CHECK WITH US IF THE SIZE YOU WANT IS NOT LISTED HERE.

| Ø | PART NUMBER |
|-----|-------------|
| M3 | 89-101-203 |
| M4 | 89-101-204 |
| M5 | 89-101-205 |
| M6 | 89-101-206 |
| M8 | 89-101-208 |
| M10 | 89-101-210 |
| M12 | 89-101-212 |
| M16 | 89-101-216 |

ACCESSORIES - CHUCKS

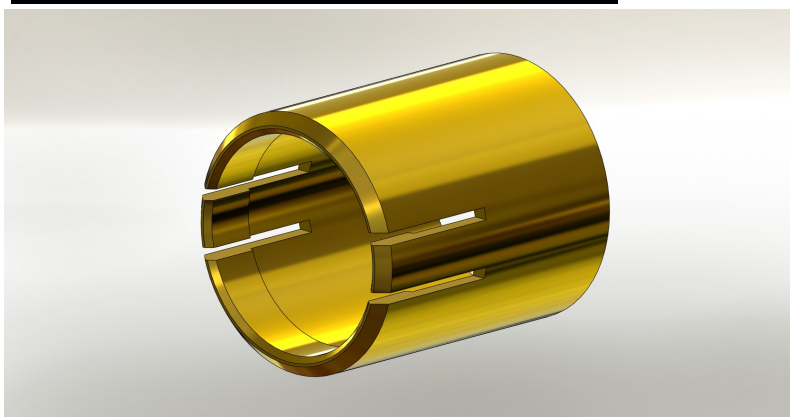
UK TAPER FIT - RECTANGULAR



| SIZE | PART NUMBER |
|----------|-------------|
| 6 x 30mm | 89-101-203 |
| 6 x 19mm | 89-101-204 |
| 3 x 16mm | 89-101-205 |

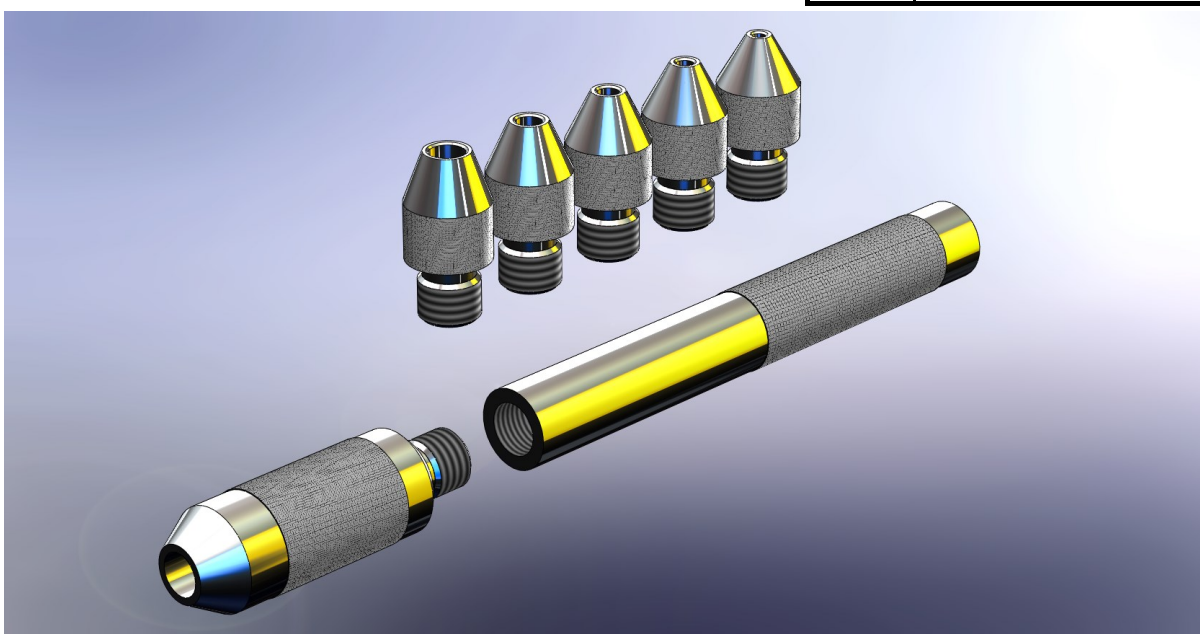
PLEASE NOTE. OTHER CHUCK SIZES ARE AVAILABLE.
PLEASE CHECK WITH US IF THE SIZE YOU WANT IS NOT LISTED HERE.

ACCESSORIES - FERRULE GRIPS

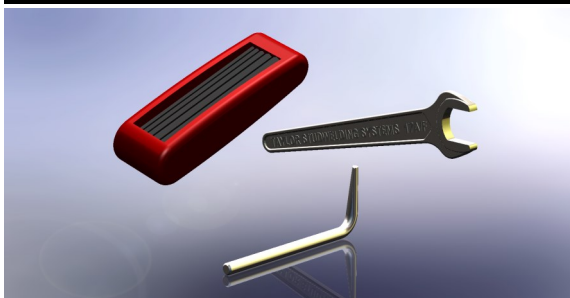


| Ø | PART NUMBER |
|-----|-------------|
| M3 | 89-101-051 |
| M4 | 89-101-051 |
| M5 | 89-101-052 |
| M6 | 89-101-052 |
| M8 | 89-101-053 |
| M10 | 89-101-054 |
| M12 | 89-101-055 |
| M16 | 89-101-056 |
| M20 | 89-101-057 |

ACCESSORIES - BENDING BAR & TOOLS



| TOOL | PART No. |
|--|------------|
| KEY SET (2, 2.5, 3, 4, 5, 6, 8) | 98-100-003 |
| UK CHUCK EJECTOR TOOL (TWIST DRIFT) | 98-100-001 |
| 17mm A/F CHUCK SPANNER | 98-100-006 |



| ITEM | PART NUMBER |
|--------------|-------------|
| BENDING BAR | 79-101-121 |
| M3 NOZZLE | 79-101-123 |
| M4 NOZZLE | 79-101-124 |
| M5 NOZZLE | 79-101-125 |
| M6 NOZZLE | 79-101-126 |
| M8 NOZZLE | 79-101-127 |
| M10 NOZZLE | 79-101-128 |
| COMPLETE SET | 79-101-120 |

EC DECLARATION

TAYLOR STUDWELDING SYSTEMS LIMITED

COMMERCIAL ROAD

DEWSBURY

WEST YORKSHIRE

ENGLAND

WF13 2BD

TEL : +44 (0)1924 452123

FAX : +44 (0)1924 430059

EMAIL : sales@taylor-studwelding.com



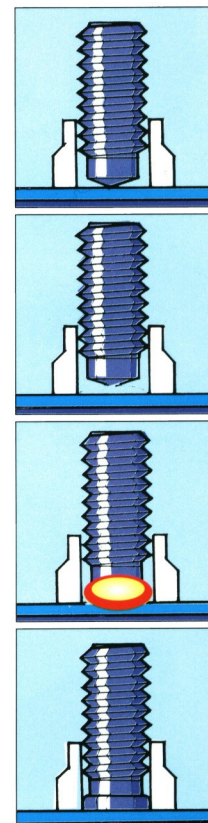
This is to certify that the machinery listed below is designed and manufactured in conformance with all applicable health and safety regulations.

This statement is invalid if any modifications are carried out on the machinery without the prior written approval of Taylor Studwelding Systems Ltd.

| | | |
|------------------------|---|--|
| DESCRIPTION OF MACHINE | : | Drawn Arc Studwelding Pistol |
| TYPE | : | DA1-A DA2-A DA3-A |
| PART NUMBER | : | 99-101-051 99-101-052 99-101-053 |

Applicable EC directives and corresponding standards:

- Low voltage directive 2006/95/EC:
EN60204-1 Safety of machinery - Electrical equipment of machines.
- EMC directive 2004/108/EC (electromagnetic compatibility):
EN50081 Electromagnetic compatibility - Generic emission standard
EN50082 Electromagnetic compatibility - Generic immunity standard
EN50199 Electromagnetic compatibility (EMC) Product standard for Arc welding equipment
- Machine guidelines 2006/42/EC:
EN60974-1 Arc welding equipment : Electromagnetic compatibility (EMC)



SIGNED

DAVID TAYLOR
MANAGING DIRECTOR

