



XTS 143 MMA

OPERATOR MANUAL ISSUE 2



Welcome

Thank you and congratulations on choosing Parweld. This Owner's Manual is designed to help you get the most out of your Parweld products. Please take time to read the Safety precautions. They will help you protect yourself against potential hazards in the workplace. With proper maintenance this equipment should provide years of reliable service. All our systems conform to ISO9001: 2008 and are independently audited by NQA.

The entire product range carries the CE mark, and is constructed in accordance with European directives and the product specific standards where they apply.

Further Information

Parweld is the UK's leading manufacturer of MIG, TIG and Plasma torches and consumables. For more information about Parweld's complete range visit: www.parweld.co.uk



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1.0 Safety Precautions

ELECTRIC SHOCK can kill.

Touching live electrical parts can cause fatal shocks or severe burns. The electrode and work circuit is electrically live whenever the output is on. The input power circuit and machine internal circuits are also live when power is on.

Do not touch live electrical parts.

Wear dry, sound insulating gloves and body protection.

Insulate yourself from work and ground using dry insulating mats or covers big enough to prevent any physical contact with the work ground.

Additional safety precautions are required when any of the following electrically hazardous conditions are present: in damp locations or while wearing wet clothing; on metal structures such as floors, gratings, or scaffolds; when in cramped positions such as sitting, kneeling, or lying; or when there is a high risk of unavoidable or accidental contact with the work piece or ground.

Disconnect input power before installing or servicing this equipment. Lockout/tagout input power according to Safety Standards.

Properly install and ground this equipment according to national and local standards.

Always verify the supply ground - check and ensure that input power cable ground wire is properly connected to ground terminal in the receptacle outlet.

When making input connections, attach proper grounding conductor first - double-check connections.

Frequently inspect input power cable for damage or bare wiring - replace cable immediately if damaged - bare wiring can kill.

Turn off all equipment when not in use.

Do not use worn, damaged, under sized, or poorly spliced cables.

Do not drape cables over your body.

If earth grounding of the work piece is required, ground it directly with a separate cable.

Do not touch electrode if you are in contact with the work, ground, or another electrode from a different machine.

Use only well-maintained equipment. Repair or replace damaged parts at once. Maintain unit according to manual.

Wear a safety harness if working above floor level.

Keep all panels and covers securely in place.

Clamp work cable with good metal-to-metal contact to work piece or worktable as near the weld as practical.

Insulate work clamp when not connected to work piece to prevent contact with any metal object.

Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.

FUMES AND GASES can be hazardous.

Keep your head out of the fumes. Do not breathe the fumes. If inside, ventilate the area and/or use local forced ventilation at the arc to remove welding fumes and gases.

If ventilation is poor, wear an approved respirator.

Read and understand the Material Safety Data Sheets (MSDS's) and the manufacturer's instructions for metals, consumable, coatings, cleaners, and de-greasers.

Work in a confined space only if it is well ventilated, or while wearing an air-supplied respirator. Always have a trained watch person nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe.

Do not weld in locations near de-greasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapours to form highly toxic and irritating gases.

Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the area is well ventilated, and while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded.

ARC RAYS can burn eyes and skin.

Arc rays from the welding process produce intense, visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.

Wear an approved welding helmet fitted with a proper shade of filter lense to protect your face and eyes when welding or watching

Wear approved safety glasses with side shields under your helmet.

Use protective screens or barriers to protect others from flash, glare and sparks; warn others not to watch the arc.

Wear protective clothing made from durable, flame resistant material (leather, heavy cotton, or wool) and foot protection. Welding on closed containers, such as tanks, drums, or pipes, can cause them to blow up. Sparks can fly off from the welding arc. The flying sparks, hot work piece, and hot equipment can cause fires and burns. Accidental contact of electrode to metal objects can cause sparks, explosion, overheating, or fire. Check and be sure the area is safe before doing any welding.

WELDING can cause fire or explosion.

Remove all flammables within 10m of the welding arc. If this is not possible, tightly cover them with approved covers.

Do not weld where flying sparks can strike flammable material.

Protect yourself and others from flying sparks and hot metal.

Be alert that welding sparks and hot materials from welding can easily go through small cracks and openings to adjacent areas.



Watch for fire, and keep a fire extinguisher nearby. Be aware that welding on a ceiling, floor, bulkhead, or partition can cause fire on the hidden side.

Do not weld on closed containers such as tanks, drums, or pipes, unless they are properly prepared according to local regulations

Connect work cable to the work as close to the welding area as practical to prevent welding current from travelling along, possibly unknown paths and causing electric shock, sparks, and fire hazards.

Wear oil-free protective garments such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap. Remove any combustibles, such as a butane lighter or matches, from your person before doing any welding.

FLYING METAL can injure eyes.

Welding, chipping, wire brushing, and grinding cause sparks and flying metal. As welds cool they can throw off slag. Wear approved safety glasses with side shields even under your welding helmet.

BUILDUP OF GAS can injure or kill.

Shut off shielding gas supply when not in use. Always ventilate confined spaces or use approved air-supplied respirator.

HOT PARTS can cause severe burns.

Do not touch hot parts with bare hands.

Allow cooling period before working on gun or torch.

To handle hot parts, use proper tools and/or wear heavy, insulated welding gloves and clothing to prevent burns.

MAGNETIC FIELDS can affect pacemakers.

Pacemaker wearers keep away.

Wearers should consult their doctor before going near arc welding, gouging, or spot welding operations.

NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

Wear approved ear protection if noise level is high.

Shielding gas cylinders contain gas under high pressure.

CYLINDERS can explode if damaged.

Protect compressed gas cylinders from excessive heat, mechanical shocks, physical damage, slag, open flames, sparks, and arcs. Install cylinders in an upright position by securing to a stationary support or cylinder rack to prevent falling or tipping. Keep cylinders away from any welding or other electrical circuits. Never drape a welding torch over a gas cylinder. Never allow a welding electrode to touch any cylinder. Never weld on a pressurized cylinder - explosion will result. Use only correct shielding gas cylinders, regulators, hoses, and fittings designed for the specific application; maintain them and associated parts in good condition.

Turn face away from valve outlet when opening cylinder valve.

Use the right equipment, correct procedures, and sufficient number of persons to lift and move cylinders.

Read and follow instructions on compressed gas cylinders, associated equipment, and Compressed Gas Association (CGA) recommendations.

2.0 Product Description

This welding machine is manufactured using advanced inverter technology. The input voltage is rectified to DC and then inverted to high frequency AC voltage, before being converted back to DC for the output .This allows the use of a much smaller transformer and so allowing weight saving and improved power efficiency.

3.0 Technical Specifications

Input voltage	230V +/- 10%	
Frequency	50/60Hz	
Input current	30.7A max	
	13.7 eff	
Fuse rating	16A	
Output OCV	50	
Output load voltage	20.4-25.6	
Output Current	10-140A DC	



4.0 Description of Controls



1) ON OFF Switch for switching on or off the mains supply to the machine. Note the output of the machine is permanently on unless the on/off switch is in the off position.

2) Fault light This indicates a fault or over temperature condition with the machine refer to the fault finding section for further information

3) Power light This indicates mains power is applied to the machine and that the machine is currently switched on when the light is illuminated

4) Output power control for adjustment of the power out put of the machine in LIFT-TIG or MMA mode

5) Output power connection - (Negative) this is the 25mm Dinse connection socket for the connection of the negative welding lead.

6) Output power connection + (Positive) this is the 25mm Dinse connection socket for the positive welding lead.

SAFETY PRECAUTIONS

- ELECTRIC SHOCK can kill.
- Only qualified personnel should perform this installation.
- Only personnel that have read and understood the Operating Manual should install and operate this equipment.
- Machine must be grounded per any national, local or other applicable electrical regulations.

• The power switch is to be in the OFF position when installing work cable and electrode cable and when connecting other equipment.

5.1 Unpacking the Machine

Carefully remove the machine from the packaging, we recommend you retain the packaging until the machine has been fully installed and tested incase it has been damaged in transit and has to be returned to the re-seller.

5.2 Location

Be sure to locate the welder according to the following guidelines: In areas, free from moisture and dust.

Ambient temperature between 0-40°C.

In areas, free from oil, steam and corrosive gases.

In areas, not subjected to abnormal vibration or shock.

In areas not exposed to direct sunlight or rain.

Place at a distance of 12" (300 mm) or more from walls or similar that could restrict natural airflow for cooling.

5.3 Input and grounding connection WARNING

Before starting the installation, check that your power supply is adequate for the voltage, amperage, phase, and frequency specified on the Machine nameplate.

Operate the welding power source from a single-phase 50/60 Hz, AC power supply. The XTS 143 machine should only be used on 230v supply.

Have a qualified electrician connect the input plug. For long runs over 30m, larger copper wires should be used. The green/yellow wire in the input cable connects to the frame of the machine. This ensures proper grounding of the machine when the machine plug is inserted into the receptacle.

5.4 Output Polarity Connections

Electrode polarity

MMA electrodes are generally connected to the '+' terminal and the work lead to the '-'terminal

But if in doubt consult the electrode manufacturer's literature.

IF TIG welding the torch should always be connected to the '-' terminal.

5.5 Torch installation

MMA cable connections

5.0 Installation

Read entire installation section before starting installation.



Connect electrode lead to positive terminal

TIG welding cable connection Connect the TIG torch to the - terminal

5.6 Work return lead connection

MMA cable connections Connect work lead to negative terminal

TIG welding Connect the work return lead to the + terminal

6.0 Operation

WARNING

When using an open arc process, it is necessary to use correct eye, head, and body protection.

6.1 MMA Welding Guide

Effects of MMA welding various materials

High tensile and alloy steels

The two most prominent effects of welding these steels are the formation of a hardened zone in the weld area, and, if suitable precautions are not taken, the occurrence in this zone of under-bead cracks. Hardened zone and under-bead cracks in the weld area may be reduced by using the correct electrodes, preheating, using higher current settings, using larger electrodes sizes, short runs for larger electrode deposits or tempering in a furnace.

Manganese steels

The effect on manganese steel of slow cooling from high temperatures is enbrittlement. For this reason it is absolutely essential to keep manganese steel cool during welding by quenching after each weld or skip welding to distribute the heat.

Cast iron

Most types of cast iron, except white iron, are weldable. White iron, because of its extreme brittleness, generally cracks when attempts are made to weld it. Trouble may also be experienced when welding white-heart malleable, due to the porosity caused by gas held in this type of iron.

Copper and alloys

The most important factor is the high rate of heat conductivity of copper, making preheating of heavy sections necessary to give proper fusion of weld and base metal.

Types of electrodes

Arc welding electrodes are classified into a number of groups depending on their applications. There are a great number of electrodes used for specialized industrial purposes which are not of particular interest for everyday general work. These include some low hydrogen types for high tensile steel, cellulose types for welding large diameter pipes, etc. The range of electrodes dealt with in this publication will cover the vast majority of applications likely to be encountered; are all easy to use and all will work on even the most basic of welding machines.

Metals being joined & electrode comments

Mild steel

6013 ideal electrodes for all general purpose work. Features include outstanding operator appeal, easy arc starting and low spatter.

Mild steel

7014 all positional electrode for use on mild and galvanized steel furniture, plates, fences, gates, pipes and tanks etc. Especially suitable for vertical down welding.

Cast iron

99% nickel suitable for joining all cast irons except white cast iron Stainless steel

318I-16 high corrosion resistance. Ideal for dairy work, etc. On stainless steels.

6.2 Basic TIG Welding guide

Tig welding cable connection

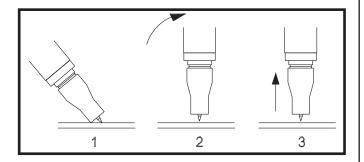
Connect the TIG torch to the - terminal and the work lead to the + terminal for direct current straight polarity. Direct current straight polarity is the most widely used polarity for DC TIG welding. It allows limited wear of the electrode since 70% of the heat is concentrated at the work piece. Connect the gas hose on the TIG torch to the gas outlet on the gas regulator. Move the selector switch on the front panel of the machine to the SCRATCH-TIG position.

Torch starting in SCRATCH-TIG mode

Ensure the gas supply is switched on and gas is flowing from the front of the torch nozzle. Briefly contact the tip of the tungsten electrode down onto the work piece with the torch at around 70° from vertical, lift the torch up from the work piece to draw out an arc. To prevent melting of the end of the tungsten so this in a smooth rapid movement

TIG welding guide ranges

Electrode diameter	DC current (amps)	
0.040" (1.0mm)	30 – 60	
1/16" (1.6mm)	60 – 115	
3/32" (2.4mm)	100 – 165	





Tungsten electrode types

Electrode type	Welding application	Colour code
Thoriated 2%	DC welding of mild steel, stainless steel and copper. Excellent arc starting, long life, high current carrying capacity.	RED
Ceriated 2%	DC welding of mild steel, stainless steel, copper, aluminium, their alloys longer life, more stable arc, easier starting, wider current range, narrower more concentrated arc	GREY

Guide for selecting filler wire diameter

Filler wire diameter	DC current range
1/16" (1.6 mm)	20 - 90
3/32" (2.4 mm)	65 - 115
1/8" (3.2 mm)	100 - 165
3/16" (4.8 mm)	200-350

The filler wire diameter specified is a guide only, other diameter wires may be used according to the welding application

Shielding gas selection

Alloy	Shielding gas
Aluminium & alloys	Pure Argon
Carbon steel	Pure Argon
Stainless steel	Pure Argon
Nickel alloy	Pure Argon
Copper	Pure Argon
Titanium	Pure Argon

7.0 Fault Finding

MMA welding problem

Description	Possible cause	Remedy
Gas pockets or voids in weld metal (porosity)	 (a) Electrodes are damp (b) Welding current is too high. (c) Surface impurities such as oil, grease, paint, etc 	(a) Dry electrodes before use (b) Reduce welding current
		(c) Clean joint before welding
Crack occurring in weld metal soon after solidification.	(a) Rigidity of joint.(b) Insufficient throat thickness.(c) Cooling rate is too high.	 (a) Redesign to relieve weld joint of severe stresses or use crack resistance electrodes. (b) Travel slightly slower to allow greater build up in throat.
		(c) Preheat plate and cool slowly.
A gap is left by failure of the weld metal to fill the root of the weld	 (a) Welding current is too low. (b) Electrode too large for joint. (c) Insufficient gap (d) Incorrect sequence 	 (a) Increase welding current (b) Use smaller diameter electrode.
		(c) Allow wider gap (d) Use correct build- up sequence
Portions of the weld run do not fuse to the surface of the metal or edge of the joint.	 (a) Small electrodes used on heavy cold plate (b) Welding current is too low (c) Wrong electrode angle (d) Travel speed of electrode is too high (e) Scale or dirt on joint surface 	 (a) Use larger electrodes and preheat the plate (b) Increase welding current (c) Adjust angle so the welding arc is directed more into the base metal (d) Reduce travel speed of electrode (e) Clean
		(e) Clean surface before welding.



Description	Possible cause	Remedy
Nonmetallic particles are trapped in the weld metal (slag inclusion).	 (a) Nonmetallic particles may be trapped in undercut from previous run (b) Joint preparation too restricted (c) Irregular deposits allow slag to be trapped. (d) Lack of penetration with slag trapped beneath weld bead. (e) Rust or mill scale is preventing full fusion. (f) Wrong electrode for position in which welding is done. 	 (a) If bad undercut is present, clean slag out and cover with a run from a smaller diameter electrode. (b) Allow for adequate penetration and room for cleaning out the slag (c) If very bad, chip or grind out Irregularities (d) Use smaller electrode with sufficient current to give adequate penetration. adequate penetration. Use suitable tools to remove all slag from corners (f) Use electrodes designed for position in which welding is done, otherwise proper control of slag is difficult.

Description	Possible Cause	Remedy
Weld bead too small or insufficient penetration or ripples in bead are widely spaced apart	Travel speed too fast	Reduce travel speed
Weld bead too wide or excessive bead build up or excessive penetration in butt joint	Travel speed too slow	Increase travel speed
Uneven leg length in fillet joint	Wrong placement of filler rod	Re-position filler rod
Electrode melts when arc is struck	Electrode is connected to the '+' terminal	Connect the electrode to the '-' terminal
Dirty weld pool	(a) Electrodecontaminated throughcontact with work pieceor filler rod material(b) Gas contaminatedwith air	(a) Clean the electrode by grinding off the contaminates(b) Check gas lines for cuts and loose fitting or change gas cylinder
Electrode melts or oxidizes when an arc is struck	 (a) No gas flowing to welding region (b) Torch is clogged with dust (c) Gas hose is cut (d) Gas passage contains impurities (e) Gas regulator is turned off (f) Torch valve is turned off (g) The electrode is too small for the welding current 	 (a) Check the gas lines for kinks or breaks and gas cylinder contents (b) Clean torch (c) Replace gas hose (d) Disconnect gas hose from torch then raise gas pressure to blow out impurities. (e) Turn on (f) Turn on (g) Increase electrode diameter or reduce the welding current
Poor weld finish	Inadequate shielding gas	Increase gas flow or check gas line for gas flow problems

TIG welding problems

Weld quality is dependent on the selection of the correct consumable, maintenance of equipment and proper welding technique.

Description	Possible Cause	Remedy
Excessive bead build up or poor penetration or poor fusion at edges of weld	Welding current is too low	Increase weld current and/or faulty joint preparation
Weld bead too wide and flat or undercut at edges of weld or excessive burn through	Welding current is too high	Decrease weld current



FAULT

Description	Possible Cause	Remedy
Arc flutters during TIG welding	(a) Tungsten electrode is too large for the welding current(b) Absence of oxides in the Weld pool.	 (a) Select the right size electrode. Refer to basic TIG welding guide. (b) Refer basic TIG welding guide for ways to reduce arc flutter
Welding arc cannot be established	 (a) Work clamp is not connected to the work piece or the work/torch leads are not connected to the machine (b) Torch lead is discon- nected (c) Gas flow incorrectly set, cylinder empty or the torch valve is off 	 a) Connect the work clamp to the work piece or connect the work/torch leads to the right welding terminals. (b) Connect it to the '.' terminal. (c) Select the right flow rate, change cylinders or turn torch valve on.
Arc start is not smooth	 (a) Tungsten electrode is too large for the welding current . (b) The wrong electrode is being used for the welding job. (c) Gas flow rate is too high. (d) Incorrect shielding gas is being used. (e) Poor work clamp connection to work piece 	 (a) Select the right size electrode (b) Select the right electrode type. Refer to basic TIG welding guide (c) Select the correct rate for the welding job. Refer to basic TIG welding guide (d) Select the right shielding gas. Refer to basic TIG welding guide (e) Improve connection to work piece

Description	Possible cause	Remedy
A total loss of power, pilot lamp is off, no output, the fan is not operating	(a) Failure of input voltage(b) Possible over voltage(c) Internal fault with the machine	 (a) Re-establish mains supply (b) Check voltage and if necessary move machine to alternative supply (c) Have a qualified service engineer inspect then repair
Fault lamp is on, no power output	(a) Machine overheated(b) Over current state(c) Internal fault with machine	the welder (a) Allow to cool with fan running (b) Switch off mains power to the machine and re start (c) Have a qualified service engineer inspect then repair the welder

ROUTINE MAINTENANCE

The only routine maintenance required for the power supply is a thorough cleaning and inspection, with the frequency depending on the usage and the operating environment.

Warning

Disconnect primary power at the source before removing the cover. Wait at least two minutes before opening the cover to allow the primary capacitors to discharge.

To clean the unit, remove the screws securing the outer cover, lift off the outer cover and use a vacuum cleaner to remove any accumulated dirt and dust. The unit should also be wiped clean, if necessary; with solvents that are recommended for cleaning electrical apparatus.

Power source problems

Description	Possible cause	Remedy
The welding arc cannot be established	(a) The primary supply voltage has not been switched on	(a) Switch on the primary supply voltage
	(b) The welding power source switch is switched off	(b) Switch on the welding power source.
	(c) Loose connections internally	(c) Have a qualified service engineer repair the connection
Maximum output welding current cannot be achieved with nominal mains supply voltage	Defective control circuit	Have a qualified service engineer inspect then repair the welder
Welding current reduces when welding	Poor work lead connection to the work piece	Ensure that the work lead has a reliable electrical connection to the work piece



8.0 Accessories

8.1 Torch spares

Stock Code	Description	
CKE203	Electrode Holder with 3m Lead	
CKC203	Earth Lead 3m with Clamp	
WP17V-12-2I	Scratch Start Tig Torch	
WP17AK	Tig Spares Kit in Plastic Case	

8.2 Gas equipment

Everyday Gas Regulators – 300 BAR Single Stage

Features

- Flow rate up to 96m³/h (3389 ft³/h)
- Full 300 bar capability
- · Outlet pressure indicated on the bonnet
- Bottom entry design suited for top outlet cylinder valves

Fittings

- Fitted with standard 3/8" BSP outlet
- + Fitted with $\ensuremath{^{5/8}"}$ BSP inlet connections

Description	Maximum Outlet Pressure
Argon Preset Regulate	or 3.0 Bar
Argon Indicator Regul	ator 3.0 Bar
1 Gauge Argon	30 lpm flow
2 Gauge Argon	30 lpm flow
	Argon Preset Regulate Argon Indicator Regul 1 Gauge Argon

Flow Meters

Features

- Designed from brass bar whilst the tube and cover are moulded from high quality polycarbonate to ensure high impact resistance and clarity
- Calibrated to operate at an inlet pressure of 30PSI
- Sensitive needle valve provides easy adjustment and the downward facing outlet



300 Ba ARGON

connection eliminates hose kinking.

Fittings

• Fitted with standard 3/89 BSP inlet and outlet connections

Stock Code	Description
706100	Flow Meter Mixed Gas 15 lpm



WP17 Air Cooled TIG Welding Torch



Model		
Description	Stock Code 12ft (3.8m)	25ft (7.6m)
Valved Tig Torch c/w 2 Piece Power Cable and dinse connection	WP17V-12-2-I	WP17V-25-2-I
Valved Flexible neck Tig Torch c/w 2 Piece Power Cable and dinse connection	WP17VFX-12-2-I	WP17VFX-25-2-I



Standard Ceramic Cup45V64Large Diameter Gas Lens Body 3/32" 2.4mm BodyStock CodeDescription10N50Standard Ceramic Cup 1/4" 6mm Bore10N49Standard Ceramic Cup 5/16" 8mm Bore10N48Standard Ceramic Cup 3/8" 10mm Bore10N47Standard Ceramic Cup 7/16" 11mm Bore10N46Standard Ceramic Cup 1/2" 13mm Bore10N45Standard Ceramic Cup 5/8" 16mm Bore10N44Standard Ceramic Cup 3/4" 19mm Bore10N44Standard Ceramic Cup 3/4" 19mm BoreStandard Long Ceramic Cup 5/16" 8mm Bore10N49LLong Ceramic Cup 5/16" 8mm Bore10N48LLong Ceramic Cup 3/8" 10mm Bore10N47LLong Ceramic Cup 7/16" 11mm Bore </th <th></th> <th>Standard Colle</th> <th>et</th> <th></th> <th>Standard Gas</th> <th>Lens Cup</th>		Standard Colle	et		Standard Gas	Lens Cup	
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10N23 Standard Collet 1/16 ¹¹ - Imm Roe 54N16 Standard Collet 542 ¹² - 40mm Boe 10N24 Standard Collet 542 ¹² - 40mm Boe 54N16 Standard Collet 164 ¹² - 10mm Boe 54N20 Standard Collet 542 ¹² - 40mm Boe 54N16 Standard Collet 164 ¹² - 10mm Boe 54N20 Standard Collet 542 ¹² - 40mm Boe 54N16 Standard Collet 542 ¹² - 40mm Boe 54N20 Standard Collet 542 ¹² - 40mm Boe 54N16 Standard Collet 542 ¹² - 40mm Boe 10N20 Standard Collet 542 ¹² - 40mm Boe 54N16 Standard Collet 542 ¹¹ - 40mm Boe 10N20 Standard Collet 542 ¹² - 40mm Boe 54N18 Long Gas Lons Cup 36 ¹¹ - 10mm Boe 10N23 Standard Collet 542 ¹¹ - 40mm Boe 54N18 Long Gas Lons Cup 36 ¹¹ - 10mm Boe 10N24 Standard Collet 542 ¹¹ - 40mm Boe 54N18 Long Gas Lons Cup 36 ¹¹ - 10mm Boe 10N28 Standard Collet 542 ¹¹ - 40mm Boe 54N18 Lange Diameter Gas Lons Cup 34 ¹¹ - 10mm Boe 10N47 Standard Collet 542 ¹¹ - 40mm Boe 54N18 Lange Diameter Gas Lons Cup 34 ¹¹ - 10mm Boe 10N48 Standard Collet 542 ¹¹ - 10mm Boe 54N18 Lange Diameter Gas Lons Cup 34 ¹¹ - 10mm Boe 10N48 Standard Collet 542 ¹¹ - 10mm Boe 54N18 Lange Diameter Gas Lons Cup 34 ¹¹ - 10mm Boe 10N47 Long Gaster for 310 ¹¹ B		10N22		-			
IDN24M Standard Collet 504* 2.0mm Bore IDN24 Standard Collet 364* 2.0mm Bore IDN25 Standard Collet 14* 3.2mm Bore Standard Collet 14* 3.2mm Bore Standard Collet 562* 4.0mm Bore Standard Collet 14* 3.2mm Bore Standard Collet 562* 4.0mm Bore Standard Collet 564* 4.0mm Bore Standard Collet 564* 4.0mm Bore IDN29 Standard Collet Body 00*0 1.0mm Bore IDN28 Standard Collet Body 10*1 1.0mm Bore IDN28 Standard Collet Body 10*2 1.0mm Bore IDN29 Standard Collet Body 10*1 3.0mm Bore IDN28 Standard Collet Body 10*1 3.0mm Bore IDN49 Standard Collet Body 10*1 1.0mm Bore IDN49 Standard Collet Body 10*1 1.0mm Bore IDN44 Standard Collet Body 10*1 1.0mm Bore IDN45 Standard Collet Body 10*1 1.0mm Bore IDN44 Standard Collet Body 10*1 1.0mm Bore IDN45 Standard Collet Body 10*1 1.0mm Bore IDN46 Standard Collet Body 10*1 1.0mm Bore IDN45 Standard Collet							
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ONE Standard Collet 1/6" 3.2mm Bore SAM2D Standard Collet 1602" 4.0mm Bore Standard Collet Body Standard Collet Sol2" 4.0mm Bore Standard Collet Body Standard Collet Body Standard Collet Body Standard Collet Body IONED Standard Collet Body Standard Collet Body Coll 100" 1.0mm Bore IONES Standard Collet Body Standard Collet Body Coll 100" 1.0mm Bore IONES Standard Collet Body Coll 100" 1.0mm Bore Stock Code Description Coll 200" 100" 100" 100" 100" 100" 100" IONES Standard Collet Body Coll 100" 100" 100" 100" 100" 100" Standard Coll Body Coll 100" 100" 100" 100" 100" 100" Standard Coll 100" 100" 100" 100" Standard Coll Body Coll 100" 100" 100" 100" 100" 100" Standard Coll 100" 100" 100" 100" 100" Standard Coll Body Coll 100" 100" 100" 100" 100" 100" Standard Coll 100" 100" 100" 100" 100" Standard Coll Body Coll 100" 100" 100" 100" 100" 100" 100" Standard Coll 100" 100" 100" 100" Standard Coll Body Coll 100" 100" 100" 100" 100" 100" Standard Coll 100" 100" 100" 100" Standar							
54420 Standard Collet 563° 4.0mm Bore Stack Code Description T0X20 Standard Collet Body (20° 0.5mm Bore Stock Code Description Stock Code Description T0X40 Standard Collet Body (20° 1.1mm Bore T0X40 Standard Collet Coll 54" 61mm Bore T0X40 Standard Collet Coll 54" 61mm Bore T0X40 Standard Collet Coll 54" 61mm Bore T0X41 Standard Collet Coll 54" 61mm Bore T0X42 Standard Collet Coll 54" 61mm Bore T0X44 Standard Collet Coll 54" 61mm Bore T0X44 Standard Collet Coll 54" 61mm Bore T0X45 Standard Collet Coll 54" 61mm Bore T0X44 Standard Collet Coll 54" 61mm Bore T0X44 Standard Colet 70" 51mm Bore T0X45							
Stock Code Description 10N29 Standard Collet Body (202° 0 Smm Bore 10N30 Standard Collet Body (202° 0 Smm Bore 10N31 Standard Collet Body (202° 0 Smm Bore 10N32 Standard Collet Body (202° 0 Smm Bore 10N32 Standard Collet Body (116° 1. form Bore 10N32 Standard Collet Body (116° 1. form Bore 10N33 Standard Collet Body (116° 1. form Bore 10N33 Standard Collet Body (116° 1. form Bore 10N33 Standard Collet Body (116° 1. form Bore 10N34 Long Gas Lens Body (116° 1. form Bore 10N34 Standard Collet Body (116° 1. form Bore 10N44 Standard Collet Body (116° 1. form Bore 10N4					54N19	Standard Gas Lens Cup 1 1/16" 17mm Bore	
Stock Code Description 10N29 Standard Cole Body, 020° 0.6mm Bore 10N30 Standard Cole Body, 020° 0.6mm Bore 10N31 Standard Cole Body, 107° 1.6mm Bore 10N32 Standard Cole Body, 107° 3.2mm Bore 10N32 Standard Cole Body, 107° 3.2mm Bore 10N48 Standard Cole Body, 107° 3.2mm Bore 10N49 Standard Coler Body, 107° 3.2mm Bore 10N49 Standard Coler Body, 107° 3.2mm Bore 10N49 Standard Coramic Cup 3/4° 10mm Bore 10N44 Standard Coramic Cup 3/4° 10mm Bore 10N45 Standard Coramic Cup 3/4° 10mm Bore 10N44 Long Camanic Cup 3/16° 11mm Bore 10N45 Standard Coramic Cup 3/16° 11mm Bore 10N44 Long Camanic Cup 3/16° 11mm Bore 10N45 Standard Coramic Cup 3/16°		Standard Call	at Daalu	- 1	Long Gas Len	s Cup	
10N29 Standard Colet Body, 020° 0.5mm Bore 10N30 Standard Colet Body, 020° 0.5mm Bore 10N31 Standard Colet Body, 020° 0.5mm Bore 10N32 Standard Colet Body, 020° 0.5mm Bore 10N32 Standard Colet Body, 020° 2.4mm Bore 10N33 Standard Colet Body, 020° 2.4mm Bore 10N34 Standard Colet Body, 5/32° 2.4mm Bore 10N35 Standard Colet Body, 5/32° 2.4mm Bore 10N36 Standard Colet Body, 5/32° 4.0mm Bore 10N47 Standard Colet Body, 5/32° 4.0mm Bore 10N48 Standard Colet Body, 5/32° 4.0mm Bore 10N49 Standard Colet Body, 5/32° 4.0mm Bore 10N49 Standard Colet Body, 5/40° 8mm Bore 10N49 Standard Colet Body, 5/40° 8mm Bore 10N44 Standard Colet Body, 9/40° 10mm Bore 10N44 Standard Colet Body, 9/40° 10mm Bore 10N44 Standard Colet Body, 9/40° 10mm Bore 10N47 Standard Colet Body, 9/40° 10mm Bore 10N48 Standard Colet Body, 9/40° 10mm Bore 10N44 Long Ceramic Cup 3/4° 10mm Bore 10N45 Standard Colet Body, 9/40° 10mm Bore 10N46 Standard Colet Body, 9/40° 10mm Bore 10N47 Long Ceramic Cup 3/4° 10mm Bore 10N47 Long Ceramic Cup 3/4° 10mm Bore 10N47 Stand					Stock Code	Description	
UN29 Standard Colet Body, 020 "Comm Bore 10N30 Standard Colet Body, 107" inmm Bore 10N31 Standard Colet Body, 107" inmm Bore 10N32 Standard Colet Body, 107" inmm Bore 10N38 Standard Colet Body, 107" inmm Bore 10N38 Standard Colet Body, 107" inmm Bore 10N30 Standard Colet Body, 107" inmm Bore 10N49 Standard Colet Body, 107" inmm Bore 10N49 Standard Colet Body, 107" inmm Bore 10N49 Standard Caramic Cup 107" imm Bore 10N41 Lange Diameter Gas Lans Cup 30" i0mm Bore 10N42 Standard Caramic Cup 107" imm Bore 10N43 Standard Caramic Cup 107" imm Bore 10N44 Lange Diameter Gas Lans Cup 30" i0mm Bore 10N44 Lang Charamic Cup 30" i0mm Bore 10N44 Lang Charamic Cup 107" imm Bore 10N44 Lang Charamic Cup 30" i0mm Bore 10N44 Lang Charamic			•	J	54N17L	Long Gas Lens Cup 5/16" 8mm Bore	
10K80 Standard Colla Body (2011 mm Bore 10K81 Standard Colla Body 36/32" 2.4mm Bore 10K82 Standard Colla Body 56/32" 2.4mm Bore 10K83 Standard Colla Body 56/32" 4.0mm Bore 10K84 Standard Colla Body 56/32" 4.0mm Bore 10K80 Standard Colla Body 56/32" 4.0mm Bore 10K80 Standard Collar Collar J4" fmm Bore 10K44 Standard Collar Collar J4" fmm Bore 10K45 Standard Collar Collar J4" fmm Bore 10K46 Standard Collar Collar J4" fmm Bore 10K47 Standard Collar Collar J4" fmm Bore 10K48 Standard Collar Logg 34" fmm Bore 10K44 Long Ceramic Cup J4" fmm Bore 10K47 Long Ceramic Cup J4" fmm Bore 10K48 Long Ceramic Cup J4" fmm Bore 10K47 Long Ceramic Cup J4" fmm Bore 10K48 Long Ceramic Cup J4" fmm Bore 10K48 Long Ceramic Cup J4" fmm Bore 10K48 Long Ceramic Cup J4" fmm B			-		54N16L		
DNA1 Standard Colle Body 710° 1.0mm Bore DNA2 Standard Collet Body 330° 2.4mm Bore DNA2 Standard Collet Body 530° 2.4mm Bore Stock Code Description Stock Code Description Stock Code Description DN44 Standard Ceramic Cup 716° 8mm Bore DN44 Standard Ceramic Cup 716° 11mm Bore DN44 Standard Ceramic Cup 716° 11mm Bore DN44 Standard Ceramic Cup 716° 11mm Bore DN44 Lange Diameter Gas Lens Cup 30° 10mm Bore DN44 Lange Ceramic Cup 716° 11mm Bore DN44 Standard Ceramic Cup 716° 11mm Bore DN44 Lange Ceramic Cup 716° 11mm Bore DN44 Standard Ceramic Cup 716° 11mm Bore DN44 S			-				
ION28 Standard Colet Body 1/8* 3.2mm Bore 406488 Standard Celet Body 5/82* 4.0mm Bore Stock Code Description ION49 Standard Ceramic Cup 1/4* 6mm Bore ION49 Standard Ceramic Cup 7/16* 1mm Bore ION49 Standard Ceramic Cup 7/16* 1mm Bore ION49 Standard Ceramic Cup 7/16* 1mm Bore ION49 Standard Ceramic Cup 3/8* 10mm Bore ION44 Standard Ceramic Cup 3/8* 10mm Bore ION45 Standard Ceramic Cup 3/8* 10mm Bore ION46 Standard Ceramic Cup 3/8* 10mm Bore ION44 Long Ceramic Cup 5/8* 10mm Bore ION44 Long Ceramic Cup 3/8* 10mm Bore ION441 Long Ceramic Cup 3/8* 10mm Bore ION421 Long Ceramic Cup 3/8* 10mm Bore ION423 Stubby Colet J00* 1.0mm Bore ION423 Stubby Colet J00* 1.0mm Bore ION425 Stubby Colet J00* 1.0mm Bore ION425 Stubby Colet J1/8* 3.2mm Bore		10N31	Standard Collet Body 1/16" 1.6mm Bore		OHNICE		
Standard Collet Body, 1/8" 3.2mm Bore Stock Code Description Standard Collet Body, 1/8" 3.2mm Bore Stock Code Description Stock Code Description 995795 Large Diameter Gas Lans Body 1/8" 3.2mm Bore 10M40 Standard Ceranic Cup 3/8" 10mm Bore 10M40 Standard Ceranic Cup 3/8" 10mm Bore 10M40 Standard Ceranic Cup 3/8" 10mm Bore 10M47 Standard Ceranic Cup 3/8" 10mm Bore 10M44 Standard Ceranic Cup 5/8" 18mm Bore 5/N7/4 Large Diameter Gas Lans Cup 3/8" 10mm Bore 10M45 Standard Ceranic Cup 5/8" 18mm Bore 5/N7/4 Large Diameter Gas Lans Cup 3/8" 10mm Bore 10M44 Long Caranic Cup 5/8" 18mm Bore 5/N7/4 Large Diameter Gas Lans Cup 3/8" 10mm Bore 10M44 Long Caranic Cup 5/16" 8mm Bore 1 16CG Cup Gasket 10M45 Stock Code Description 1 1 16CG 10M47 Lang Caranic Cup 5/16" 8mm Bore 1 16CG Cup Gasket 1 10M45 Stubby Coleit J00" 0.5mm Bore 1 16CG Stock Code Description 10N245 Stubby Coleit J		10N32			Large Diamet	er Gas Lens Body	
Albeled Standard Colet Body 3/22 * 4/mm Bore Standard Caramic Cup 45V4 Standard Caramic Cup /14" from Bore 10M40 Standard Caramic Cup /16" from Bore 10M47 Standard Caramic Cup /16" from Bore 10M46 Standard Caramic Cup /16" from Bore 10M47 Long Caramic Cup /16" from Bore 10M48 Long Caramic Cup /16" from Bore 10M48 Long Caramic Cup /16" from Bore 10M48 Long Caramic Cup /16" from Bore 10M41 Long Caramic Cup /16" from Bore 10M42 Long Caramic Cup /16" from Bore 10M43 Standard Caramic Cup /16" from Bore 10M41 Long Caramic Cup /16" from Bore 10M42 Stubby Colet .040" 1.0mm		10N28	Standard Collet Body. 1/8" 3.2mm Bore				
Standard Ceramic Cup 45/64 Large Diameter Gas Lans Body 3/32* 2.4mm Bd Stock Code Description 95/96 Large Diameter Gas Lans Body 3/32* 2.4mm Bd 10M49 Standard Ceramic Cup 5/16* 8mm Bore 10/14* Standard Ceramic Cup 3/8* 10mm Bore 10M48 Standard Ceramic Cup 3/8* 10mm Bore 57/74 Large Diameter Gas Lans Cup 3/8* 10mm Bore 10M44 Standard Ceramic Cup 3/4* 19mm Bore 57/74 Large Diameter Gas Lans Cup 1/2* 13mm Bore 10M44 Standard Ceramic Cup 3/4* 19mm Bore 57/87.4 Large Diameter Gas Lans Cup 1/2* 13mm Bore 10M44 Standard Ceramic Cup 3/4* 19mm Bore 1 BCG220 Cup Gasket for Stubby Collet Body 10M48 Long Ceramic Cup 3/8* 10mm Bore 1 18 CG20 Cup Gasket for Stubby Collet Body 10M41 Long Ceramic Cup 7/16* 11mm Bore 1 18 CG20 Cup Gasket for Stubby Collet Body 10M421 Stubby Collet 1/8* 3.2mm Bore 7 57/04 Back Cap Long 10M215 Stubby Collet 1/8* 3.2mm Bore 7 57/04 Back Cap Long 10M225 Stubby Collet 1/8* 3.2mm Bore 7 57/04 Back Cap Long 10M226 Stubby Collet 1/8* 3.2mm Bore 1 BCC 1 10M28 Stubby Collet 1/8* 3.2mm Bore 950 Microswitch Bulbous		406488	Standard Collet Body 5/32" 4.0mm Bore		Stock Code	Description	
Stock Code Description 10M50 Standard Ceramic Cup 1/4" form Bore 10M49 Standard Ceramic Cup 7/16" mm Bore 10M48 Standard Ceramic Cup 7/16" mm Bore 10M48 Standard Ceramic Cup 7/16" mm Bore 10M46 Standard Ceramic Cup 7/16" mm Bore 10M46 Standard Ceramic Cup 2/14" mm Bore 10M46 Standard Ceramic Cup 2/14" mm Bore 10M46 Standard Ceramic Cup 2/14" mm Bore 10M48 Large Diameter Gas Lens Cup 2/16" mm Bore 10M48 Large Diameter Gas Lens Cup 2/16" mm Bore 10M49 Long Ceramic Cup 5/16" mm Bore 10M48 Long Ceramic Cup 5/16" mm Bore 10M49 Long Ceramic Cup 5/16" mm Bore 10M41 Long Ceramic Cup 5/16" mm Bore 10M42 Stubby Collet 1/00" 0.5mm Bore 10M23 Stubby Collet 1/00" 1.5mm Bore 10M24 Stubby Collet 1/00" 1.6mm Bore 10M24 Stubby Collet 1/16" 1.6mm Bore 10M24 Stubby Collet 1/16" 1.6mm Bore 10M28 Stubby Collet 1/16" 1.6mm Bore 10M28 Stubby Collet 1/16" 8" m Bore 10M28 Stubby Collet 1/16"				— к	45V116	Large Diameter Gas Lens Body 1/16" 1.6mm Bo	
10N50 Standard Caramic Cup 1/4" 6mm Bore 10N49 Standard Caramic Cup 5/16" 8mm Bore 10N49 Standard Caramic Cup 7/16" 11mm Bore 10N46 Standard Caramic Cup 7/16" 11mm Bore 10N47 Standard Caramic Cup 7/16" 11mm Bore 10N48 Standard Caramic Cup 7/16" 11mm Bore 10N44 Standard Caramic Cup 5/16" 8mm Bore 10N44 Standard Caramic Cup 5/16" 8mm Bore 10N44 Standard Caramic Cup 5/16" 8mm Bore 10N44 Long Ceramic Cup 5/16" 8mm Bore 10N48 Long Ceramic Cup 5/16" 8mm Bore 10N49 Long Ceramic Cup 7/16" 11mm Bore 10N41 Long Ceramic Cup 7/16" 11mm Bore 10N425 Stubby Collet 1/2" 2.4mm Bore 10N225 Stubby Collet 1/2" 2.4mm Bore 10N225 Stubby Collet 1/2" 2.4mm Bore 10N225 Stubby Collet 1/2" 2.4mm Bore 10N226 Stubby Collet 1/2" 2.4mm Bore 10N227 Stubby Collet 1/2" 2.4mm Bore <td></td> <td>Standard Cera</td> <td>amic Cup</td> <td></td> <td>45V64</td> <td>Large Diameter Gas Lens Body 3/32" 2.4mm Bo</td>		Standard Cera	amic Cup		45V64	Large Diameter Gas Lens Body 3/32" 2.4mm Bo	
10M49 Standard Ceramic Cup 5/6" 8mm Bore 10M49 Standard Ceramic Cup 7/6" 11mm Bore 10M46 Standard Ceramic Cup 5/8" 16mm Bore 10M46 Standard Ceramic Cup 5/8" 16mm Bore 10M46 Standard Ceramic Cup 5/8" 16mm Bore 10M47 Standard Ceramic Cup 5/8" 16mm Bore 10M48 Standard Ceramic Cup 5/8" 16mm Bore 10M44 Standard Ceramic Cup 5/8" 16mm Bore 10M44 Long Ceramic Cup 5/8" 16mm Bore 10M48 Long Ceramic Cup 5/8" 16mm Bore 10M48 Long Ceramic Cup 5/8" 16mm Bore 10M48 Long Ceramic Cup 5/8" 10mm Bore 10M47 Long Ceramic Cup 5/16" 8mm Bore 10M48 Long Ceramic Cup 5/16" 8mm Bore 10M47 Long Ceramic Cup 5/16" 8mm Bore 10M47 Long Ceramic Cup 5/16" 8mm Bore 10M48 Stubby Collet Jo20" 0.5mm Bore 10M25 Stubby Collet Jo20" 0.5mm Bore 10M25S Stubby Collet Jo20" 1.6mm Bore 10M25S Stubb		Stock Code	Description		995795	Large Diameter Gas Lens Body 1/8" 3.2mm Bor	
Investor Standard Ceramic Cup 3/8" form Bore 10N48 Standard Ceramic Cup 7/8" 11mm Bore 10N47 Standard Ceramic Cup 7/8" 11mm Bore 10N48 Standard Ceramic Cup 3/8" 10mm Bore 10N44 Standard Ceramic Cup 3/8" 10mm Bore 10N44 Standard Ceramic Cup 3/8" 10mm Bore 10N44 Standard Ceramic Cup 3/4" 19mm Bore 10N44 Standard Ceramic Cup 3/4" 19mm Bore 10N44 Standard Ceramic Cup 3/4" 19mm Bore 10N48 Long Ceramic Cup 5/16" 8mm Bore 10N415 Stubby Series Collet Stock Code Description 10N415 Stubby Collet Jo20" 0.5mm Bore 10N215 Stubby Collet Jo20" 0.5mm Bore 10N225 Stubby Collet Jo20" 0.5mm Bore 10N225 Stubby Collet Jo20" 0.5mm Bore 10N225 Stubby Collet Jo20" 0.5mm Bore 10N255 Stubby Collet Jo20" 1.6mm Bore 10N255 Stubby Collet Jo20"		10N50			Largo Diamot	or Gae Lone Cun	
10M47 Standard Ceramic Cup 7/16" 11mm Bore L 57N75 Large Diameter Gas Lens Cup 3/8" 10mm Bore 10M46 Standard Ceramic Cup 1/2" 13mm Bore 57N74 Large Diameter Gas Lens Cup 3/8" 10mm Bore 10M44 Standard Ceramic Cup 3/4" 19mm Bore 57N74 Large Diameter Gas Lens Cup 3/8" 10mm Bore 10M44 Standard Ceramic Cup 3/4" 19mm Bore 57N74 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10M49 Long Ceramic Cup 3/16" 11mm Bore 57N74 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10M49 Long Ceramic Cup 3/16" 11mm Bore 57N74 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10M47 Long Ceramic Cup 3/16" 11mm Bore 1 18CG2 Cup Gasket 10M47 Long Ceramic Cup 3/16" 11mm Bore 1 18CG2 Cup Gasket 10M47 Stubby Collet J02" 0.5mm Bore 57N74 Back Cap 10R 1 10N22S Stubby Collet 1/32" 3.2mm Bore 57N74 Back Cap 10R 1 10N22S Stubby Collet 1/32" 3.2mm Bore 57N74 Back Cap 5Not 9 950 Microswitch Rid 10N22S Stubby Collet Body 202"-1/8" Bore 11 18 Back Cap 5Not 1 1 1			·				
10N46 Standard Ceramic Cup 1/2" 13mm Bore 57N74 Large Diameter Gas Lens Cup 1/2" 13mm Bore 10N44 Standard Ceramic Cup 5/8" 16mm Bore 53N83 Large Diameter Gas Lens Cup 5/4" 19mm Bore 10N46 Standard Ceramic Cup 3/4" 19mm Bore 53N87 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10N49 Long Ceramic Cup 3/4" 10mm Bore Components Stock Code Description 10N49 Long Ceramic Cup 3/4" 10mm Bore 18CG Cup Gasket for Stubby Collet Body 10N47 Long Ceramic Cup 3/4" 10mm Bore 54N61 Gas Lens Insulator (use with 18CG) 5tubby Series Stubby Collet J1/6" 1.1mm Bore 54N63 Insulator (use with 18CG) 5tubby Collet J1/6" 1.6mm Bore 57N74 Back Cap Co Ring 57V2 10N255 Stubby Collet J1/6" 1.6mm Bore 57V34 Back Cap Short 50 10N255 Stubby Collet J1/6" 1.6mm Bore 57V04 Back Cap Short 50 10N255 Stubby Collet J1/6" 1.6mm Bore 57V1 Boch Cap Long 57V12.5ft 5tubby Collet J1/6" 1.6mm Bore 19 Soch Cade Description 11 10N255 Stubby Collet Body.020"-1/8" Bore 11 BOCS			·				
10N45 Standard Ceramic Cup 5/8" 16mm Bore 10N44 Standard Ceramic Cup 3/4" 19mm Bore 10N44 Standard Ceramic Cup 3/4" 19mm Bore 10N49 Long Ceramic Cup 5/16" 8mm Bore 10N491 Long Ceramic Cup 3/8" 10mm Bore 10N471 Long Ceramic Cup 3/8" 10mm Bore 10N471 Long Ceramic Cup 3/8" 10mm Bore 10N472 Long Ceramic Cup 7/16" 11mm Bore 10N473 Stubby Sories Collet Stock Code Description 10N215 Stubby Collet 100" 0.5mm Bore 10N225 Stubby Collet 100" 0.5mm Bore 10N235 Stubby Collet 10" 1.6mm Bore 10N245 Stubby Collet 118" 3.2mm Bore 10N245 Stubby Collet 118" 3.2mm Bore 10N245 Stubby Collet 118" 3.2mm Bore 10N245 Stubby Collet 18" 3.2mm Bore 10N255 Stubby Collet 18" 3.2mm Bore 10N265 Stubby Collet 18" 3.2mm Bore 10N265 Stubby Collet 18" 3.2mm Bore 10N265 Stubby Collet 18" 3.2mm Bore 13N08 Standard Ceramic Cup 5/16" 8mm Bore 13N08 Standard Ceramic Cup 5/16" 8mm Bore 13N10 Standard C			·	L			
10N44 Standard Ceramic Cup 3/4" 19mm Bore Standard Long Ceramic Cup 3/4" 19mm Bore Stock Code Description 10N44 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10N44 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10N44 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10N44 Large Diameter Gas Lens Cup 3/4" 19mm Bore 10N47L Long Ceramic Cup 3/6" 10mm Bore 10N47L Long Ceramic Cup 3/6" 10mm Bore 10N215 Stubby Collet J02" 0.5mm Bore 10N225 Stubby Collet J02" 0.5mm Bore Stubby Collet J04" 10mm Bore 10N225 Stubby Collet J02" 0.5mm Bore Stubby Collet Body .020"-1/8" Bore Stubby Collet Body .020"-1/8" Bore Stubby Collet Body .020"-1/8" Bore Standard Ceramic Cup 3/6" 10mm Bore <td colsp<="" td=""><td></td><td></td><td>·</td><td></td><td></td><td>0</td></td>	<td></td> <td></td> <td>·</td> <td></td> <td></td> <td>0</td>			·			0
Sandard Long Ceramic Cup Stock Code Description 10N49L Long Ceramic Cup 3/8" 10mm Bore 1 18.0G. Cup Gasket 10N47L Long Ceramic Cup 3/8" 10mm Bore 1 18.0G. Cup Gasket 10N47L Long Ceramic Cup 7/16" 11mm Bore 1 18.0G. Cup Gasket for Stubby Collet Body Stubby Series Collet Stubby Series Collet 5 WP17 Torch Body including Cup Gasket 10N21S Stubby Collet 1/00" 1.0mm Bore 5 WP17 Torch Body including Cup Gasket 10N23S Stubby Collet 1/8" 3.2mm Bore 5 5 WP17 Back Cap 10" Ring 10N23S Stubby Collet 1/8" 3.2mm Bore 5 5 Microswitch Bulbous Ni 950-80 10N25S Stubby Collet Body .020" 1/3" Bore 11 182255 Handle 13N08 Standard Ceramic Cup 5/6" 8mm Bore 13 105255 Handle 13N10 Standard Ceramic Cup 5/6" 8mm Bore 13 105255 Handle 13N11 Standard Ceramic Cup 5/6" 8mm Bore 57/01 Power Cable x 3.8mt/12.5ft Vinyl 57/03 13N11 Standard			·		53N88	Large Diameter Gas Lens Cup 5/8" 16mm Bore	
Stock Code Description 10N49L Long Ceramic Cup 3/8" 10mm Bore 18CG20 Cup Gasket 10N49L Long Ceramic Cup 3/8" 10mm Bore 18CG20 Cup Gasket for Stubby Collet Body 10N47L Long Ceramic Cup 7/16" 11mm Bore 54N01 Gas Lens Insulator (use with 18CG) Stubby Series Collet 54N01 Gas Lens Insulator (use with 18CG) Stubby Series Collet 98W18 Back Cap 10° 1°mg 10N22S Stubby Collet 1/6" 1.6mm Bore 57Y04 Back Cap 10° 1°mg 10N22S Stubby Collet 1/6" 1.6mm Bore 950 Microswitch Flat 10N24S Stubby Collet 1/6" 3.2mm Bore 950 Microswitch Flat 10N25S Stubby Collet Body .020"-1/8" Bore 950 Microswitch Flat 10N26S Stubby Collet Body .020"-1/8" Bore 11 RD20591 Snap On Boot 17CB20 Stubby Collet Body .020"-1/8" Bore 12 609123 Neoprene Sheath x 3.8mt/12.5ft 13N08 Standard Ceramic Cup 5/16" mm Bore 13 105255 Handle 13N08 Standard Ceramic Cup 1/16" 1.1mm Bore 57Y01 Power Cable x 7.6mt/25ft Vinyl <	_	10N44	Standard Ceramic Cup 3/4" 19mm Bore		53N87	Large Diameter Gas Lens Cup 3/4" 19mm Bore	
10N49L Long Ceramic Cup 5/16" 8mm Bore 10N48L Long Ceramic Cup 3/8" 10mm Bore 10N47L Long Ceramic Cup 7/16" 11mm Bore Stubby Series Collet 54N01 Stubby Series Collet 54N01 Stubby Series Collet 54N01 Stubby Collet J00" 57Y02 Back Cap Short 950 Microswitch Bulbous 8 Stubby Collet J14" 1.6mm Bore 950 IN22S Stubby Collet J14" 3.2mm Bore IN22S Stubby Collet J14" 3.2mm Bore IN22S Stubby Collet J04" 3.2mm Bore IN22S Stubby Collet Body .020"-1/8" Bore Stubby Series Ceramic Cup 51 Stubby Series Ceramic Cup 51 Stubby Series Ceramic Cup 5/16" 8mm Bore 13 I3N08 Standard Ceramic Cup 7/16" fmm Bore I3N10 Standard Ceramic Cup 7/16" fmm Bore I3N11 Standard Ceramic Cup 7/16" fmm Bore I3N12 Standard Ceramic Cup 7/16" fmm Bore					Components		
10N48LLong Ceramic Cup 3/8" 10mm Bore16CG 20Cup Gasket10N47LLong Ceramic Cup 7/16" 11mm Bore218CG 20Cup Gasket for Stubby Collet BodyStubby Series Collet55454N01Gas Lens Insulator (use with 18CG)Stubby Collet Jo20" 0.5mm Bore5WP17Torch Body including Cup Gasket510N21SStubby Collet J020" 0.5mm Bore5WP17Torch Body including Cup Gasket10N22SStubby Collet J040" 1.0mm Bore55510N22SStubby Collet 1/4" 1.6mm Bore857Y04Back Cap 10"10N22SStubby Collet 3/32" 2.4mm Bore757Y02Back Cap Short10N25SStubby Collet 1/4" 3.2mm Bore9950Microswitch Bilbous10N25SStubby Collet Body.020"-1/8" Bore10950-40Switch & Leads x 3.6mt/12.5ftStock CodeDescription11RD20591Snap On Boot17CB20Stubby Collet Body.020"-1/8" Bore12609123Neoprene Sheath x 3.8mt/12.5ftStubby Series Ceramic Cup5/16" 8mm Bore13105C25Neoprene Sheath x 3.8mt/12.5ft13N08Standard Ceramic Cup 5/16" 8mm Bore13105C25Neoprene Sheath x 3.8mt/12.5ft13N11Standard Ceramic Cup 5/16" 11mm Bore57Y01Power Cable x 3.8mt/12.5ft Vinyl13N12Standard Ceramic Cup 5/16" 11mm Bore57Y03RPower Cable x 3.8mt/12.5ft Vinyl13N13Standard Ceramic Cup 5/16" 11mm Bore57Y01RPower Cable x 3.8mt/12.5ft Vinyl <tr< td=""><td></td><td></td><td>-</td><td></td><td>Stock Code</td><td>Description</td></tr<>			-		Stock Code	Description	
10N47L Long Ceramic Cup 7/16" 11mm Bore 2 18Cc20 Cup Dasket fild Stubby Collet Lody Stubby Series Collet 3 54N01 Gas Lens Insulator (Las with 18CG) Stubby Series Collet 4 54N63 Insulator Large Diameter Gas Lens(use with 18CG) 10N21S Stubby Collet J020" 0.5mm Bore 5 WP17 Torch Body including Cup Gasket 10N22S Stubby Collet J020" 0.5mm Bore 7 57Y02 Back Cap Co Ring 10N23S Stubby Collet J16" 1.6mm Bore 8 57Y04 Back Cap Short 10N25S Stubby Collet 1/8" 3.2mm Bore 9 950 Microswitch Bulbous 10N25S Stubby Collet Body .020"-1/8" Bore 950-40 Switch & Leads x 3.8m/12.5ft 5tock Code Description 11 RD20591 Snap On Boot 17CB20 Stubby Collet Body .020"-1/8" Bore 12 609125 Neoprene Sheath x 3.8m/12.5ft 13N08 Standard Ceramic Cup 3/4" form Bore 13 105255 Handle 13N13 Standard Ceramic Cup 5/6" 8mm Bore 57Y01 Power Cable x 3.8m/12.5ft Vinyl 57Y01 13N13 Standard Ceramic Cup 5/8" 16mm Bore 57Y01 <td< td=""><td></td><td></td><td>0</td><td>1</td><td>18CG</td><td>Cup Gasket</td></td<>			0	1	18CG	Cup Gasket	
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		45V25	Gas Lens Body 1/16" 1.6mm Bore	INI	INOL IIIUSLIALEU		

45V26

45V27

Gas Lens Body 3/32" 2.4mm Bore

Gas Lens Body 1/8" 3.2mm Bore



9.0 EC declaration of conformity

Hereby we declare that the machines as stated below

Type: XTS 143 MMA

Conform to the EC Directives: Low Voltage Directive 2014/35/EEC EMC Directive 2014/35/EEC Harmonised European standard: EN/IEC 60974-1

This is to certify that the tested sample is in conformity with all provisions of the above detailed EU directives and product standards.



9.1 Rohs Compliance Declaration

Directive 2011/65/EU of the European Parliament Amended 2015/863 and 2017/2102

Restriction of use of certain hazardous substances in electrical and electronic equipment

Type: XTS 143 MMA

The above listed products are certified to be compliant with the rohs directive with all homogeneous component parts being controlled to ensure material contents as per the list below.

Cadmium 0.01% by weight Lead 0.1% by weight Mercury 0.1% by weight Hexavalent chromium 0.1% by weight Polybrominated biphenyl's (pbbs) 0.1% by weight Polybrominated diphenyl ethers (pbdes) 0.1% by weight

It should be noted that under specific exempted applications, where lead is used as an alloying element the following limits are applied in accordance with the regulations.

Copper and copper alloy parts use less than 4% by weight of each homogeneous component.

Steel and steel alloy parts use less than 4% by weight of each homogeneous component.

Aluminium and aluminium alloy parts use less than 4% by weight of each homogeneous component.

14 Only dispose off in authorised sites for electrical and electronic waste do not dispose of with general refuse or landfill waste.



9.2 WEEE Statement



WEEE (Waste Electrical & Electronic Equipment) 2012/19/EU

In relation to implementing the legislation, Parweld has established relevant recycling and recovery methods. We have been fully compliant against the marking requirements since August 2005. Parweld is registered in the UK with the Environment agency as detailed below. For WEE compliance outside the UK please contact your supplier/Importer

Parweld is registered with a compliance scheme Official registration number is WEE/FD0255QV

When your equipment reaches the end of its service life you should return it to Parweld where it will be reconditioned or processed for recycling.

9.3 Statement of warranty

Limited Warranty:

Parweld Ltd, hereafter, "Parweld" warrants its customers that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the Parweld products as stated below, Parweld shall, upon notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with Parweld's specifications, instructions, recommendations and recognized standard industry practice, and not subject to misuse, repair, neglect, alteration, or accident, correct such defects by suitable repair or replacement, at Parweld's sole option, of any components or parts of the product determined by Parweld to be defective.

Parweld makes no other warranty, express or implied. This warranty is exclusive and in lieu of all others, including, but not limited to any warranty of merchantability or fitness for any particular purpose.

Limitation of Liability:

Parweld shall not under any circumstances be liable for special, indirect or consequential damages, such as, but not limited to, lost profits and business interruption. The remedies of the purchaser set forth herein are exclusive and the liability of Parweld with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by Parweld whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based. No employee, agent, or representative of Parweld is authorized to change this warranty in any way or grant any other warranty.

Purchaser's rights under this warranty are void if replacement parts or accessories are used which in Parweld's sole judgement may impair the safety or performance of any Parweld product.

Purchaser's rights under this warranty are void if the product is sold to purchaser by non-authorized persons.

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