



Assembly Unlimited

Ken McClelland
7100 Greenmill Rd.
Johnstown, OH 43031
Office: (740) 967-2765
Fax: (740) 967-2765
Mobile: (614) 579-1079
Email: Kenmcclelland@earthlink.net

Drader Plastic Welding Equipment and Supplies.

Drader manufactures plastic welding equipment and supplies, featuring the unique Injectiweld system known worldwide for its high quality weld and ease of use. Drader developed the Injectiweld for bonding thermoplastics such as polyethylene, polypropylene, polycarbonate, polyamides, ABS, polystyrene and others. Fabricate, prototype, and repair most thermoplastics using the Drader Injectiweld.

What is so great about the Injectiweld? Strong welds.

Molten welding rod injected below the surface of the plastic creates a strong weld, and the Injectiweld's patented process does just that. The Injectiweld's tip forms the weld zone and prepares the plastic for a high-pressure injection of molten welding rod. Physical mixing of the plastic substrate and the welding rod makes a strong, high quality bond. The weld is stress free because of the way the Injectiweld fully melts the welding rod. Independent tests prove Drader's claim of a superior weld. Recent results of a flexural strength test indicated "no break of weld or material" in any of the samples. We do not know of any other fabrication equipment that can offer these results.

The Injectiweld is also

easy to use.

It can make strong welds even if the operator does not have extensive welding experience. You can save time and money with the Drader because of its features. You do not need the expert's touch to get a high quality weld with Drader's automatic injection pressure. The automatic feed system also enables use of the welder with one hand. The welder's tip works



below the surface layer of plastic so there is no need to scrape off the oxidation to get a quality weld. Drader's 12 tips are interchangeable, so your system is versatile. It is compact; therefore, it allows your operator to reach confined spaces easily.

Fabricating:

The Drader Injectiweld is easily adapted into production and assembly applications. Operate the Injectiweld with one hand and hold the plastic with the other. Now try to do that with other welding systems. The Injectiweld is easy to use and lightweight, so it can go into areas where other equipment can not operate.

The Injectiweld makes use of numerous interchangeable tips. Sheet and pipe fabricators obtain welds from 1/16" to 5/16" in a single pass. Some fabricators use the Injectiweld to securely spot weld products together. Others use the welder to tack products together for ease in further processing. Even small welds produced by the Drader are strong. Thin sheet welding applications are ideal for the Injectiweld since it does not distort the plastic by blowing hot air. Use the Injectiweld on hard to weld products such as high molecular weight polyethylene (HMWPE), polycarbonate (PC) Santoprene®, and EPDM.

Repair:

Plastic breaks. Repair it, and get it back into service. Cost effectively repair thermoplastics such as containers, totes, fish pens, carts, tanks, pipes, boats, and ATV fenders. The combination of heat and pressure from the Injectiweld produces quality welds on previously un-repairable parts. Drader also has special tools that improve plastic repair.

Prototyping:

Develop models and prototypes by using the Injectiweld. The Injectiweld makes strong welds and allows real life tests on welded prototypes. The Injectiweld is capable of producing strong, inconspicuous welds as small as .060". Drader has special prototyping tips, which allow model builders to get into tight spaces.

An Injection Molding Machine?

Now, there is a new function for the Injectiweld as an Injection molding machine. Use the welder to inject molten plastic into small molds. It is an inexpensive way to make a small parts run.

Rotomolding:



The combination of the heated metal tip and the high pressure of the plastic extrudate produce welds on rotomolded parts that are water and airtight. Rotational molders reduce scrap parts by using the Injectiweld to seal seams, blow-bys, and voids. They also use the welder to add baffles, flanges, and fittings onto their plastic products. The strength of the weld is very close to the strength of the virgin material so there is no need to worry about weak spots. To add to the quality of these welds, Drader can produce custom welding rod using rotomolded grade resin for an exact color and material match.

Lining:

Whether in the field or in your shop, the Injectiweld can perform repairs and fabrications on your Lining Systems. Weld boots flanges and seams or repair test holes and tears using the Injectiweld.

Welding Rod

Drader manufactures and sells an assortment of welding rod. Drader stocks HDPE, LLDPE, HMWPE, PP, and ABS in two locations. Drader also manufactures custom welding rod. Order as little as 10 pounds (4.54 kgs.). Order more and receive volume discounts. Do you have a specific color to match? Do you need to have certain resin characteristics matched? Contact Drader for further information. Numerous companies send Drader their own resin. Drader manufactures it into custom welding rod so the companies have an exact colour match when they weld.

Special Tools

Drader manufactures special tools designed to aid the plastic welding process. Drader's metal scrapers and etchers can increase the strength of the weld by decreasing stress points. Two designs enable an operator in pre and post welding procedures. If your welding operation requires welding rod, then you need to invest in these low cost tools.

No matter what type of industry, whether you are fabricating tanks, adding flanges or fittings, designing new products, producing displays, filling voids or patching liners, the Drader Injectiweld is sure to be the perfect solution to your plastic welding needs.

No welder will perform all welding jobs, but if you are looking for an easy to use welder that provides high quality welds, then look at Drader's Injectiweld. Drader is committed to always researching different types of material to help our customers in their applications. We have qualified Plastics Engineering Technologists on staff to provide assistance with welding techniques and procedures. Drader will even test weld your product to ensure that the Injectiweld can meet your requirements.

Please call our office. We will provide up to date information, test results, and quotations. Do not forget to ask us about welding rod. We manufacture and stock many types of resins.

PRICE SHEET - Injectiweld W30 000 **US \$ 3495.00 - FOB Tucson, AZ**

The Drader Injectiweld Kit

- W30 000 Injectiweld Plastic Welder
- 3/16" Fillet Weld Tip (T20001)
- Conical Tip (T20002)
- Tip Wrench
- Heat Transfer Compound
- Temperature Adjusting Screw Driver
- Air Filter Unit
- Replacement Air Filter Kit
- Manual
- Carrying Case



Drader Injectiweld Tips

<p>BULL NOSE TIP #T20003 Used for repairing blow holes in rotomolded parts. Various diameters available.</p>	<p>LAP WELD TIPS #T20011, T20012, T20013 Available for 0.040", 0.060" and 0.080" material thickness. Used in the liner industry.</p>	<p>FILLET WELD TIPS #T20005, 3/8" fillet weld tip used for butt and right angle welds.</p>		
<p>PROTOTYPING TIP #T20008 REPAIR #T20010 Used for prototyping and repairs where small welds are required.</p>	<p>BUTT WELD TIP #T20009 Used for welding thermoplastic belting or sealing flat joints. 5/8" wide bead.</p>	<p>FILLET WELD TIP #T20001, 3/16" fillet weld tip used for butt and right angle welds. Part of original welding kit.</p>		
<p>FILLET WELD TIP #T20004 1/4" fillet weld tip used for butt and right angle welds.</p>	<p>CONICAL TIP #T20002 Used for spot welding, crack repair, and tac welding.</p>	<p>BLANK TIPS #T20006-4, T20007-6 4" & 6" lengths available. Semi finish tips used to design your own welding tip.</p>		
<p>BUTT WELD</p>	<p>REPAIR WELD</p>	<p>BUTT WELD</p>	<p>SPOT WELD</p>	<p>FILLET WELD</p>