

Users of Our Patented **Gas Saver System (GSS™)** Discuss Results

We Have a Number of Customers Who Reported Their Success with the **GSS**. Here Are a Few Examples:



Perry Thomasson Purchased a 50 foot Gas Saver System For His Home Shop

Perry has a very well equipped home shop. For a MIG welder he uses a Millermatic 175. He purchased the largest cylinder his distributor offered for sale and chained it to a wall in his shop. With a 50-foot conventional gas hose installed, he was using an excessive amount of gas. He purchased a 50 foot **GSS** and saved a significant amount of shielding gas.

Perry emailed the picture left and said; *"The system works great. Thanks for the professional service and a great product."*

Terry's brother recently purchased a similar 50 foot **GSS** and also purchased two of our 22 foot Leather Cable Covers (our part number WAT HCC) to protect his power cable extension and **GSS** hose.



Small Shop Owner Provided This **GSS** Feedback

Al Hackethal reported these findings after he purchased a 3 foot **GSS** for his small MIG welder and our Leather Cable Cover for his TIG torch.

*"Well, I can't believe it. I never thought a hose could make that much of a difference. I had a small job shop. The weld quality (with the **GSS**), and even penetration is considerable better. Almost no spatter! The weld seemed to be hotter and I turned my MIG down a notch.*

Initially thought that my imagination had kicked in, but then realized that the gas I'm buying is actually working the

way it's supposed to. Glad I found your website. This is one of the few things that really works better than any info could suggest. I understood the theory, though in practice I understood it much better after the first couple of welds. Now I have better looking welds and almost no spatter, which means less grinding and finish work! In addition, the tip was cleaner after the job I just did.

This will provide savings in time, labor and maybe even consumables too. As a one man shop there's never enough time for anything.

Oh, the leather wrap for my TIG hoses worked very well and fits perfectly. I'd just replaced them (the TIG hoses), but was looking for something to protect them that was better than the nylon wrap that's available around here. Now I'm TIGing again too, and much safer. It's good to know the coolant hoses are well protected. Much better than using a 300 amp TIG and then realizing that I was standing in a puddle of coolant, which is what recently happened. Can't pay the bills if I electrocute myself!

Thanks for making products affordable”.

STREET ROD FABRICATOR'S EXPERIENCE WITH **GSS**



A very interesting observation was made by one of our first users of the **GSS**, a professional custom car fabricator/painter. Kyle Bond, shown at left painting flames on our Street Rod, instantly understood the benefit of reducing weld start gas surge. He deals with it in his paint gun when painting cars! As he notes, **“You never trigger the paint gun on a part or you get excess paint.”** Too bad we don't have that option when MIG welding or have

Kyle's experience where he can see the problems created by high gas surge at the start!

Kyle appreciated having over twice the welding time between cylinder changes since he had run out of gas on weekends! The **GSS** is shown (right) installed on the regulator/flowgauge on his Miller welder. We also measured a significant reduction in peak-surge gas flow at each weld start with the **GSS**. With



their standard ¼-inch ID gas delivery hose, the peak flow rate was over 150 CFH at each weld start. Any flow rate over 40 CFH, with their 3/8 inch ID MIG gun nozzle, creates turbulence, pulling air into the gas stream, creating excess spatter. With the **GSS**, peak surge was about 45 CFH for only a short time, but it is enough to quickly purge air from the weld start area.



Picture left is the finished Street Rod in our home shop. A 25 foot **GSS** allows us to economically use a large 160 CF gas cylinder, which we own, and cut our gas purchase cost. Without the **GSS**, the gas surge at the start is very high creating a very large shielding gas waste and excess starting spatter.

HOW MUCH SHIELDING GAS CAN A **GSS** SAVE ?

It's difficult to measure gas savings in a home shop but many of our *Industrial Users* have supplied detailed savings test results. Many measure by selecting a part made in large quantities, then count the number of parts made with a full cylinder of gas using their existing gas delivery hose from feeder/welder to gas supply. Then they simply replace the existing gas delivery hose with our **GSS**. Making no other changes, they count the number of parts made. Many thousands of **GSS** are installed in fabrication shops. In addition to gas savings, many users also see the improved weld starts. Some of the results are very dramatic:

Manufacturer of Truck Boxes

A manufacturer of truck boxes picked an item made by the thousands – truck box doors. They welded **236** doors with one full cylinder of gas with their standard gas delivery hose. Simply replacing the hose with a **GSS**, they were able to weld **632** doors with one cylinder. It would have taken 2.7 cylinders to weld **632 doors** with their standard system! Needless to say, they purchased systems for all 25 MIG welders. A year later, they called and asked for “**10 more GSS “Magic Hose”**” for additional welders put in production!



Exhaust System Manufacturer



A company making automotive exhaust systems conducted a Black Belt Lean Manufacturing Study. They needed detailed data to define how much shielding gas a **GSS** would save. They purchased four 6 foot long **GSS**'s for the tests as that was the typical distance from gas supply to their 128 MIG Welding Robots. They welded their many different joints for mufflers, catalytic converters and finished exhaust systems. Many systems are delivered assembled to automotive companies. They welded parts with their existing gas hose then installed the **GSS**. They used gas in cylinders so they could exactly measure amounts used. The number of parts made with both systems and full cylinders were compared. The results showed a minimum savings of 25% and for some weldments over 40% saving of the shielding gas. They purchased **GSS**'s for all their 128 Robots. They also installed our patented [Flow Rate Limiter & Locks \(FRL\)](#) on their flowmeters.

See over 10 other gas savings tests from other *Industrial Users* at: http://netwelding.com/production_test_results.htm

Our GSS is Available in Lengths from 3 to 50 Feet (and Longer): Visit www.NetWelding.com for more information and to purchase our patented GSS. Our patented FRL allows locking flowmeter gas settings on cylinder regulator/flowmeters or gas pipeline flowmeters. It fits most models and brands of flowmeters. See http://netwelding.com/Flow_Rate_Limiter.htm