



# 2022 CATALOG

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## **This is what happens when a welder decides to ditch a carpenter's tool.**

Welder Jason Marburger couldn't really understand why he was using a squaring frame, just like a carpenter, as he worked on projects over the years. One day he decided to design a better tool. Today the welder is also a welding equipment entrepreneur.

Sometimes a framing square can fool a welder into thinking that a fit-up is truly at 90 degrees because the square can be manipulated slightly to make it truly look like a right angle. The Fireball Tool's size prevents such mistaken readings.

From the first automobiles to the world's tallest buildings, welders have often played a critical role in bringing innovative ideas to life. It makes sense then that a welder would invent a tool that offers a new method for making square welds and fabricating parts with challenging angles.

### **If You Don't Have It, Make It**

Over the course of his welding career, Jason Marburger has burned countless rods in every capacity, from automotive fabrication to commercial ironwork construction to mobile welding. Marburger has worked alone and managed crews over the years. Today he works as a contractor. Through it all he has wondered why welders often are limited to using carpenter's tools that never fully meet their needs.

"They give you a flat welding table and ask you to build and weld with a speed square and primitive tools. I always thought there had to be a way to clamp things to it," he said.

He started his latest job in Spokane, Wash., with the intent of customizing his welding table to better serve his skills. Marburger wanted a welder-specific square that was designed with weld accessibility, able to accommodate offsets, and constructed of a material that could withstand the heat and abuse of welding. With the goal of making his job a little easier, he sketched out a rudimentary design for something that would meet any needs he might encounter on the job. The next day he had a friend cut the parts with a plasma cutter, then welded a prototype, and immediately put it to work. It didn't take long to draw interest from co-workers and others in the shop.

"It worked well. Everyone immediately wanted to check it out, and I thought I might have something here," Marburger said.

## From the Welding Table to the Web

When a local welding supply salesperson learned about Marburger's creation, he asked him to demonstrate it at the company's open house. He dove headfirst into the world of entrepreneurship and in only two weeks threw together a website, built a brand, and hustled to create a small inventory of products to present.

"I welded my butt off; showed up at the event; flopped down the tailgate; and was right there with all the big boys like Miller, Lincoln, and ESAB," Marburger said.

He said his custom-designed square drew interest from welders, buyers, and other manufacturers. Leaving with new contacts, new ideas, and a greater awareness of his product's potential, he set out to design a more accurate and repeatable square.

He immediately faced the challenges of balancing a full-time welding job with becoming an after-hours entrepreneur. Marburger sold his pickup trucks to raise capital for the first orders and managed most of the growth himself, building the business on a limited budget and with a do-it-yourself attitude.

With an avenue for more production, he started promoting and growing his Fireball Tool through application videos on his YouTube channel.

"Within the few weeks of someone showing my tool on YouTube, I was selling hundreds of units," said Marburger. "It has been growing ever since."

The tool has been starting to receive interest from larger organizations that buy multiple tools for their entire team of welders. Inquiries also have come from as far away as Australia and New Zealand.

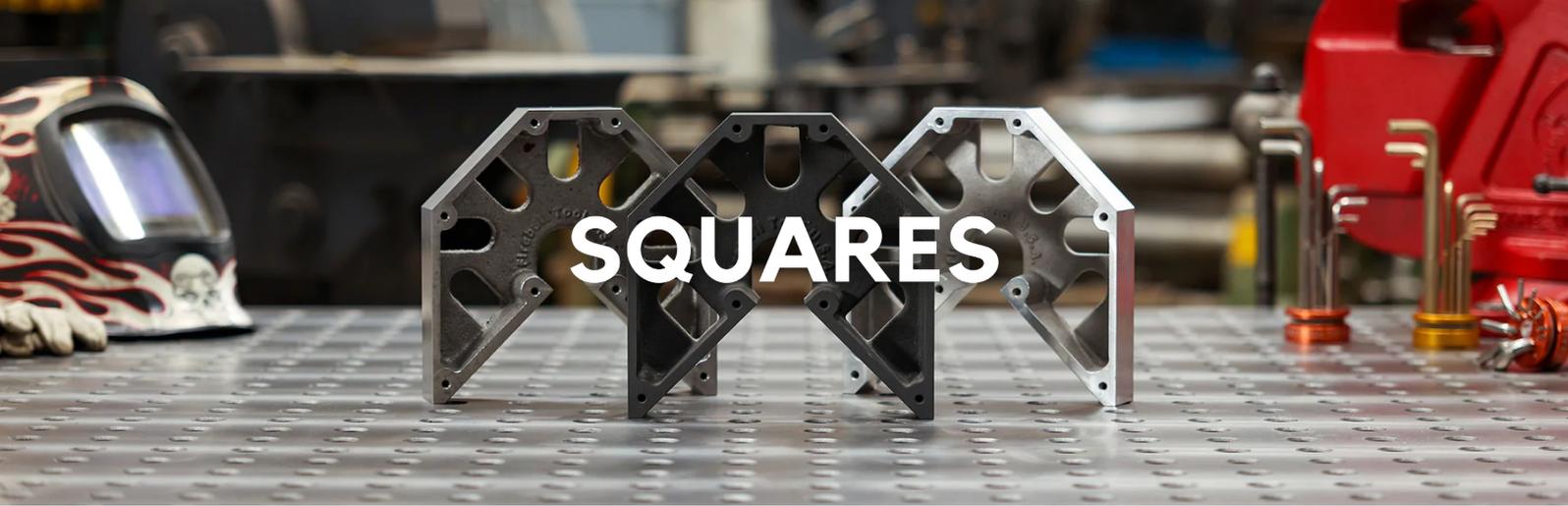
## Bringing Tools to Market

Marburger has been reinvesting nearly all of the money from tool sales back into the business and also has a dozen new designs that he would like to test and prototype in the future.

"Because I have a day job, I don't have to pull from Fireball. I'm just reinvesting to buy more molds, improve my products, and create new ones," he said.

The tool variations can be used alone or in conjunction with each other to handle nearly any type of weld or joint a fabricator might encounter, according to Marburger.





# SQUARES



**MEGA SQUARE**  
ALUMINIUM



**MEGA SQUARE**  
CAST IRON



**MONSTER SQUARE**  
ALUMINIUM



**MONSTER SQUARE**  
CAST IRON



**MINION SQUARE**  
ALUMINIUM



**MINION SQUARE**  
CAST IRON



**MAGIC SQUARE**  
ALUMINIUM



**MAGIC SQUARE**  
CAST IRON

## EDGE LOCATION TABS

Our revolutionary tabs allow you to align your material up so that you don't even need a welding table! Don't spend thousands on a flat table, just use our squares! Tighten the tabs onto the front or back of your square and you can immediately get to work. Sure, there are different jigs out there, but can they line your material perfectly in seconds?

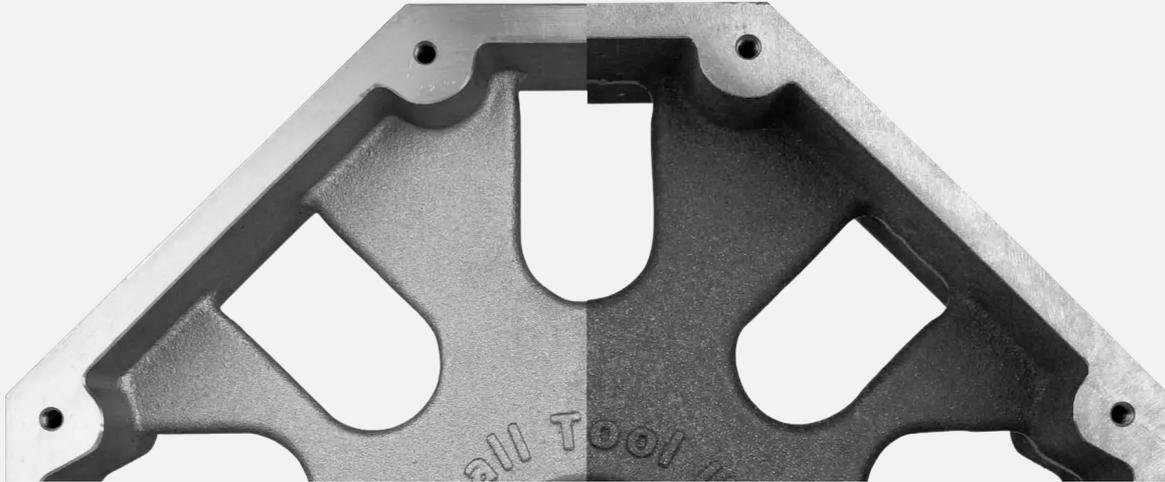


## TOOL-LESS THUMBSCREWS

But it doesn't stop there. We reinvented the game by introducing our thumbscrews. Say goodbye to your hex keys and Allen screwdrivers and freely adjust the tabs with only your fingers!



## Aluminium vs Cast Iron



**Pros**

- Lightweight (Ideal for welding on the go)
- Resistance to deformation vs aluminum billet
- Some natural resistance to weld spatter

**Cons**

- Can be damaged if dropped or if used in heavy duty projects

**Pros**

- Great for heavy duty projects
- Excellent resistance to deformation and raising burrs when scratched
- Some natural resistance to weld spatter

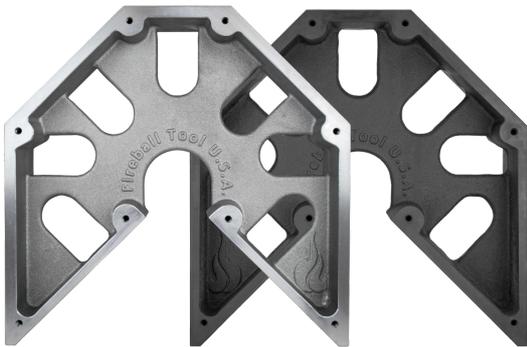
**Cons**

- Heavy (Not ideal for mobile welding)
- Susceptible to rust

## New Dragon Scale

Fireball's new Dragon Scale coating provides the corrosion resistance of our previous black oxide finish with the added benefit of enhanced spatter resistance. Its spatter resistance needs to be seen to be believed; it out performs even the best weld spatter sprays without the use of any sprays.

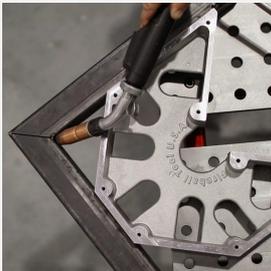




## MEGA SQUARE

The original Mega Square is available in a 300 mm or 200 mm size with two material choices: **Cast Iron (FE)** or **Cast Aluminum (AL)**.

All Mega Squares feature a stiff "flange and web" design that is fully machined on all outer edges with tapped holes on the sides for mounting tabs.



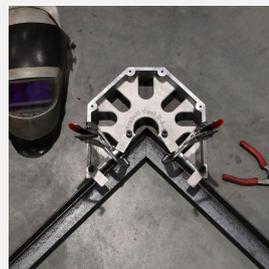
**Roomy joint access for welding, gluing, nailing, riveting, etc.** Whatever process you're working with, it probably benefits from some clearance around the joint.



**Tabs help eliminate twisting and warping in the final work-piece.** The machined squares and tabs always create the perfect plane for your work-pieces to rest on. Tabs also let you easily hold round tubing.



**Clamping is simple with multiple surfaces for quick and rigid attachment.** Stop spending your time and focus figuring out clamping strategies, or worse, clamping your straight workpiece to crooked surfaces.



**Perfect For Angle Iron**

## Flange & Web



300 mm squares have a profile similar to an I Beam where the web is centered on the flanges.

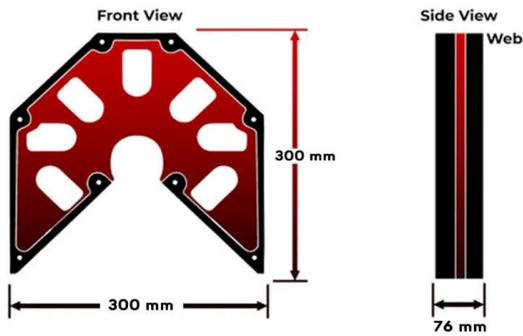
200 mm squares are similar to a "C" channel where the web is off to one side of the flange.



## Specifications

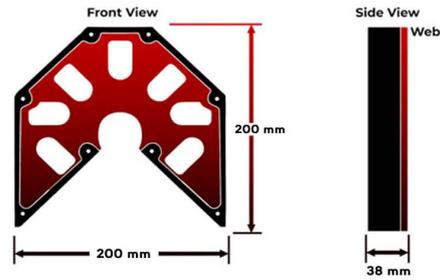
### Mega Square 300 mm

For tubing 50 mm and larger, we suggest  
300 mm squares (76 mm wide)

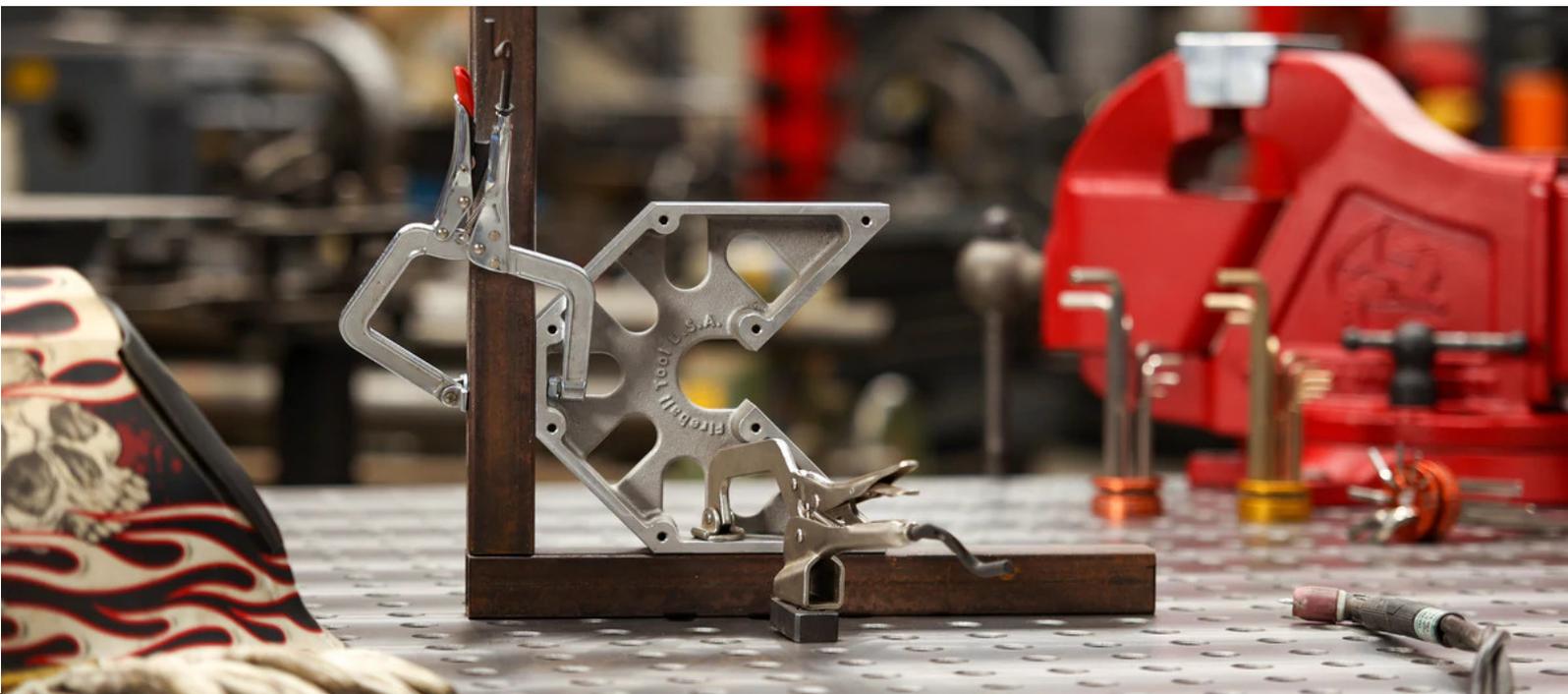


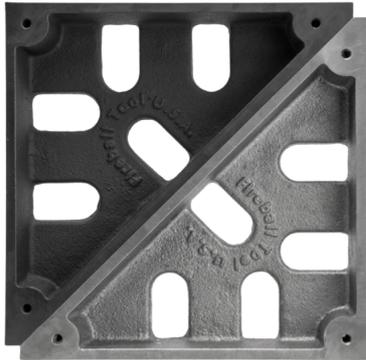
### Mega Square 200 mm

For tubing 50 mm and smaller, we suggest  
200 mm squares (38 mm wide)



	Size (mm)	Weight (kg)	Material	Flange (mm)
<b>Mega 300 FE</b>	300 x 300 x 76	12.5	Cast Iron	76
<b>Mega 300 AL</b>	300 x 300 x 76	4.5	Cast Aluminium	76
<b>Mega 200 FE</b>	200 x 200 x 38	3.5	Cast Iron	38
<b>Mega 200 AL</b>	200 x 200 x 38	1.2	Cast Aluminium	38





## MONSTER SQUARE

The original Monster Square is available in a 300 mm or 200 mm size with two material choices: Cast Iron (FE) or Cast Aluminum (AL).

All Monster Squares feature a stiff "flange and web" design that is fully machined on all outer edges with tapped holes on the sides for mounting tabs.



**Designed to quickly set your work-piece to 90 or 45 degrees**  
Speed squares and machinist squares are made for visual inspection and checking AFTER setup, the Monster Square is designed to get those parts square in the first place.



**Tabs help eliminate twisting and warping in the final work-piece.**  
The machined squares and tabs always create the perfect plane for your work-pieces to rest on. Tabs also let you easily hold round tubing.



**Clamping is simple with multiple surfaces for quick and rigid attachment.**  
Stop spending your time and focus figuring out clamping strategies, or worse, clamping your straight workpiece to crooked surfaces.



**Use the radius on the tabs to use the Monster Square as a traditional speed square for layout.**

## Flange & Web



300 mm squares have a profile similar to an I Beam where the web is centered on the flanges.

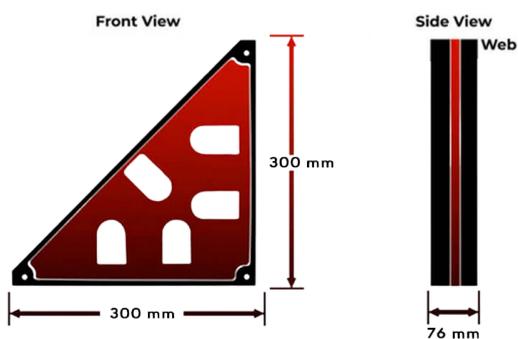
200 mm squares are similar to a "C" channel where the web is off to one side of the flange.



## Specifications

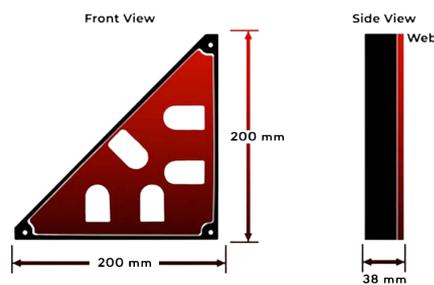
### Monster Square 300 mm

For tubing 50 mm and larger, we suggest 300 mm squares (76 mm wide)

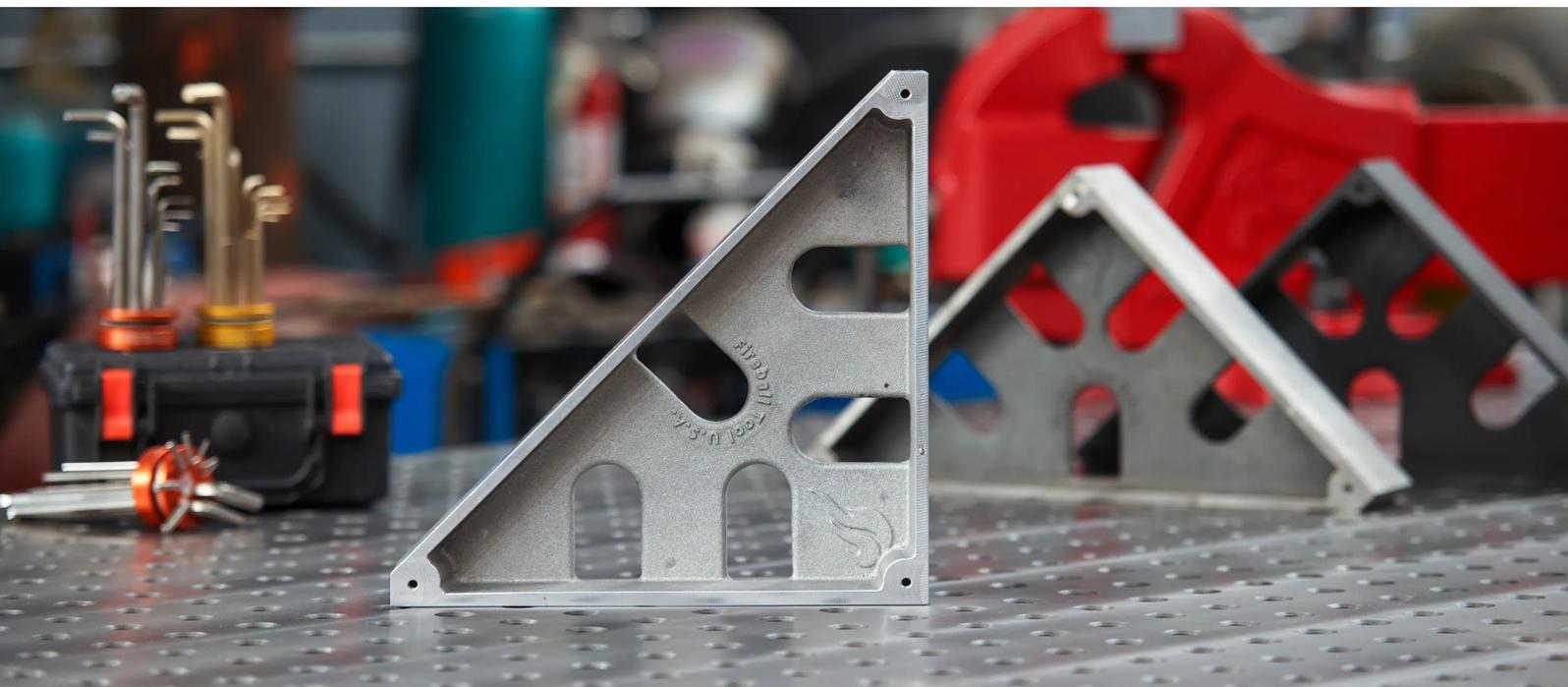


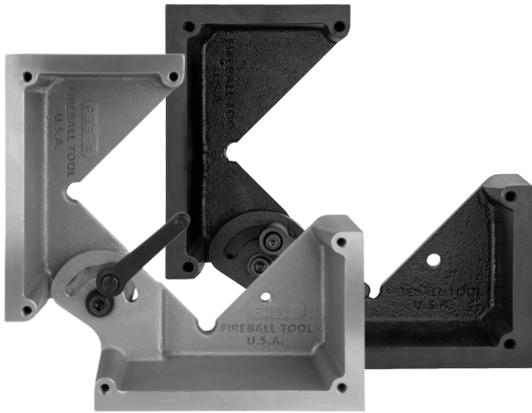
### Monster Square 200 mm

For tubing 50 mm and smaller, we suggest 200 mm squares (38 mm wide)



	Size (mm)	Weight (kg)	Material	Flange (mm)
<b>Monster 300 FE</b>	300 x 300 x 76	10.5	Cast Iron	76
<b>Monster 300 AL</b>	300 x 300 x 76	3.6	Cast Aluminium	76
<b>Monster 200 FE</b>	200 x 200 x 38	3.1	Cast Iron	38
<b>Monster 200 AL</b>	200 x 200 x 38	1.1	Cast Aluminium	38





# MAGIC SQUARE

There are so many ways to use this square it seems like Magic. It's two squares in one- when you purchase one Magic Square you get two individual squares that also link together to form 5 different combo squares. A zinc adjustable handle provides tool-less angle adjustments.

Here's all the main ways to use the square:



Use it as an ordinary, adjustable angle square that adjusts from 40 to 180 degrees.



Right Angle 90 Degree Square with generous weld accessibility. Total height of 200mm in this configuration.



Tall 300mm square when fully opened and locked into place.



Remove the fasteners to get two individual squares.



Use the large V-groove to hold large round tubing or pipe.



Switch up mating surfaces to position material in offset positions.



Put the squares back together but with the mating surfaces reversed. This allows you to use the square to hold material offset to each other.

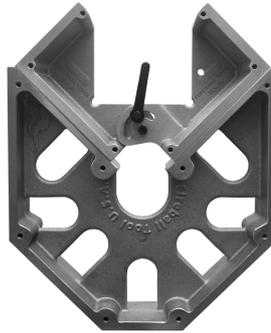


Use a second pivot point on the square with the mating surfaces reversed to change the balance of the square, it'll seem like an entirely different square tool!

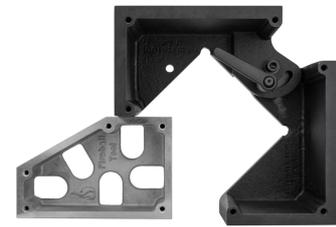
## Quickly Set 90° Angles



Use Shims or  
25-50-75 Blocks

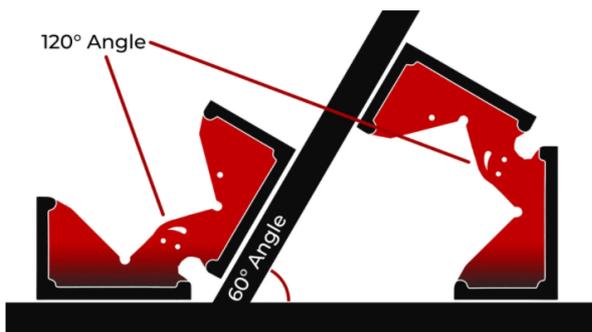


Use Mega Square



Use Minion Square

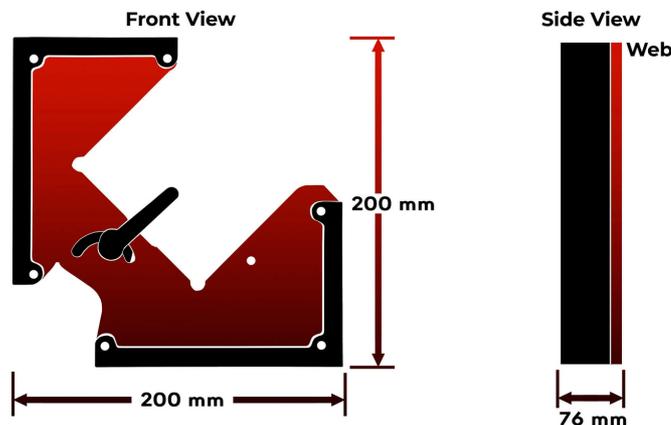
## Tips For Variable Angle Settings



### One Angle Setting, Two Ways To Hold

- Each angle you set creates two useful sets of angles on the square. You get the main angle and a complimentary angle (one acute, one obtuse).
- The most accurate way to get an angle is to use a digital protractor. A scale is not included due to complexities in getting an accurate, high quality scale made.
- Use a 100mm block with a flat surface as shown below to set a 90 degree angle.

## Specifications





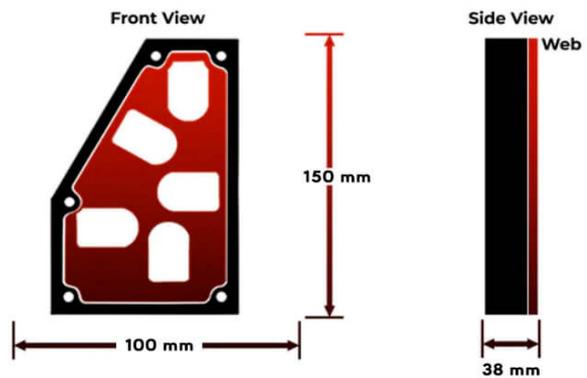
## MINI SQUARE

Like perfect minions, these squares are compact, come in sets, and are ready to hold your work when summoned.

These squares come in a compact configuration for use in tight spaces. Each square measures 150 x 100 mm, the 100mm width is perfect for picket spacing on gates and fences.

Bosses on the square allow mounting of tabs to both sides of the tool.

Squares are sold as a "left and right" pair, each pair will come with 2 squares, 8 tabs, 8 thumbscrews.



Compact Size For Tight Spaces



38 mm Width Perfect For Picket Spacing

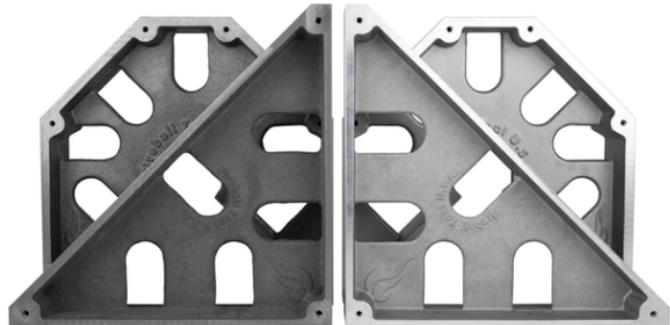


Clamp The Angles Together To Create Custom Spacing

# FABRICATOR PACKAGE

Build with 4 of the fastest squares, fit up an entire frame at once. Three choices to choose from: All cast iron, all aluminum, or a mix package. For descriptions of the individual squares see: Mega, Monster.

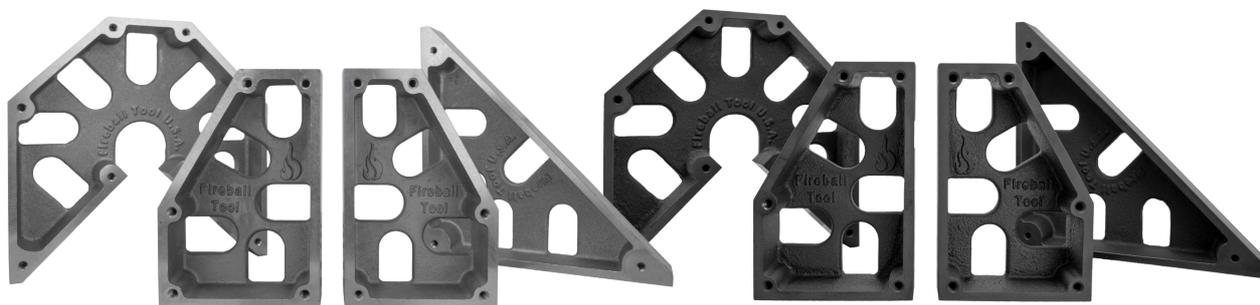
All Fabricator Packages come with associated hardware such as tabs and our new thumbscrews which allow tool-less adjustment.



### What comes in each kit:

KIT	Mega 200	Mega 300	Monster 200	Monster 300
<b>Fab Pack 200 AL</b>	2x Aluminum	x	2x Aluminum	x
<b>Fab Pack 200 FE</b>	2x Cast Iron	x	2x Cast Iron	x
<b>Fab Pack 200 AL/FE</b>	1x Aluminum, 1x Cast Iron	x	1x Aluminum, 1x Cast Iron	x
<b>Fab Pack 300 AL</b>	x	2x Aluminum	x	2x Cast Iron
<b>Fab Pack 300 FE</b>	x	2x Cast Iron	x	2x Cast Iron
<b>Fab Pack 300 AL/FE</b>	x	1x Aluminum, 1x Cast Iron	x	1x Aluminum, 1x Cast Iron
<b>Fab Pack 200/300 AL</b>	1x Aluminum	1x Aluminum	1x Aluminum	1x Aluminum
<b>Fab Pack 200/300 FE</b>	1x Cast Iron	1x Cast Iron	1x Cast Iron	1x Cast Iron

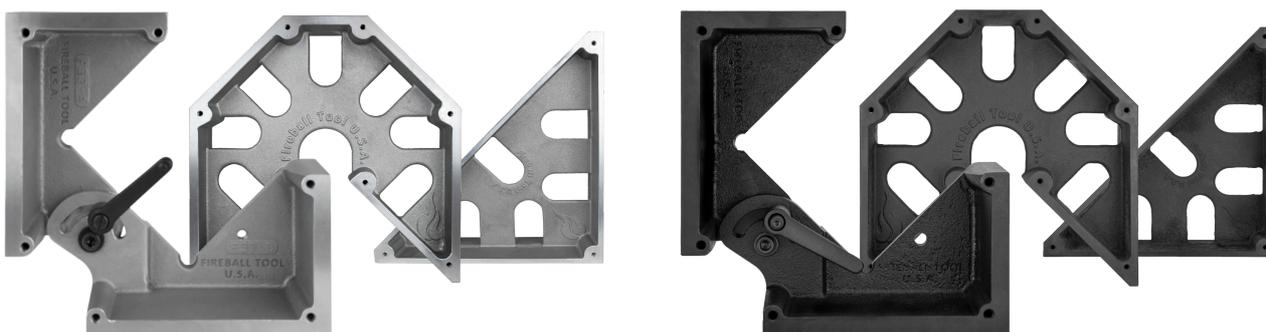
## MINION PACKAGE



What comes in each kit:

KIT	Mega 200	Monster 200	Minion
Aluminum	1x	1x	1x
Cast Iron	1x	1x	1x

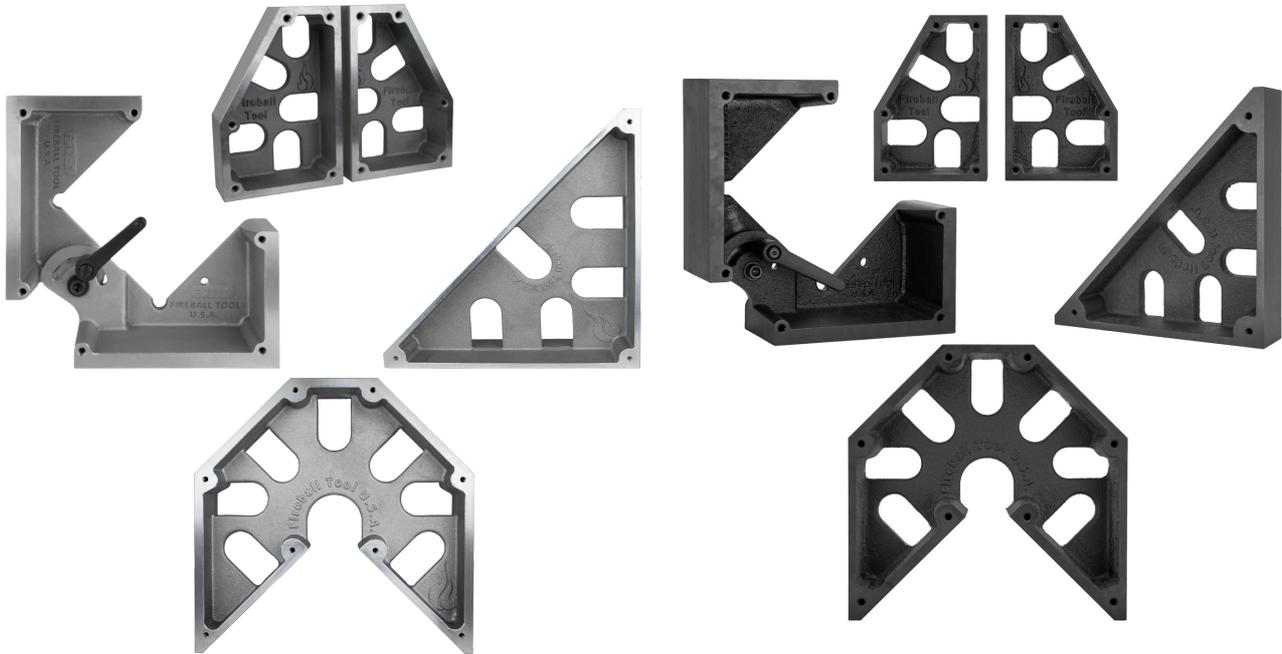
## MAGIC PACKAGE



What comes in each kit:

KIT	Mega 200	Monster 200	Magic
Aluminum	1x	1x	1x
Cast Iron	1x	1x	1x

# MAGIC PACK PLUS



**What comes in each kit:**

KIT	Mega 200	Monster 200	Minion	Magic
Aluminum	1x	1x	1x	1x
Cast Iron	1x	1x	1x	1x

# FIREBALL ORIGINALS



**HARDTAIL VISE**



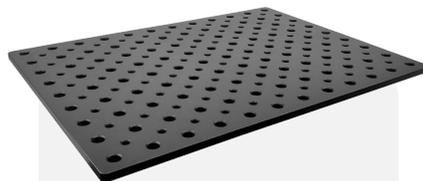
**FIREBALL SCRAPER**



**MAGNETIC SHIM KIT**



**MANTIS GRIP PLIERS**



**DRILL PRESS  
FIXTURE PLATE**



**HEX KEY HOLDER**



**MAGNETIC BLOCKS**



**FORGED BENCH VISE**



**EDGE ALIGNMENT PINS**



## HARDTAIL VISE

The Fireball Hardtail Vise features the strongest clamping force and largest opening of any production vise in the world. It has been designed with usability, style, strength, and longevity in mind to outlast its owners.



Way grooves underneath the front jaw slide keep vise steady and stable even when fully extended.



Vintage meatball style handle on nose of the vise.



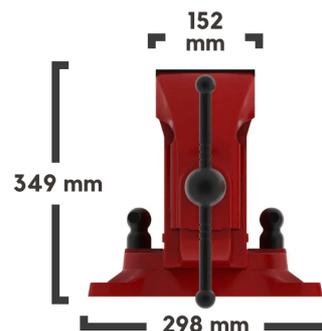
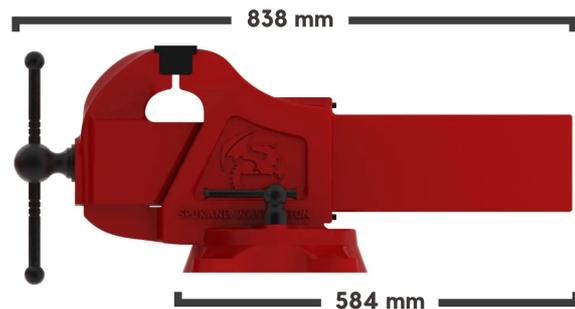
Swivel base locks down with two wedge nuts captured in a cast iron raceway.



Base and body cast from high tensile strength ductile iron.

## Dimensions

- 838 mm from nose to tail
- 349 mm height from base to top of jaw
- 305 x 203 mm mounting pattern in the base with 19 mm bolt holes. Base should be mounted with 305 mm side parallel to jaws.
- 30 mm diameter lead screw
- Over 7,000 kg clamping force by hand
- 356 mm opening with slide fully engaged within body of vise.
- 152 mm wide jaw



## Capacity

- Over 7,000 kg clamping force by hand
- 356 mm opening with slide fully engaged within body of vise.
- 152 mm wide jaw
- Heavy duty swivel base with double heavy duty wedge nuts
- Weighs over 113 kg



## Material

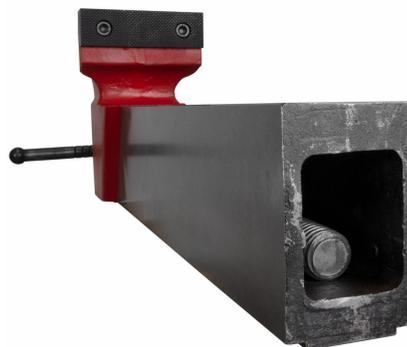
Cast Iron



## Spindle



The vise spindle and nut are in a straight pull configuration where the nut is able to distribute the compressive load in all directions through the hardtail.



This is in contrast to most wedge nut designs where load is transferred as a shear force to a single point in the vise through a spindle nut that is wedged into the body.



Thrust bearings for smooth power transmission using large diameter lead screw.



## FIREBALL SCRAPER

### The Strongest Scraper Ever Made

The Fireball Tool Scraper consists of a USA made stainless steel handle combined with a hardened tool steel blade. Besides being the best scraper you'll ever use, it's also a great chipping hammer and edge deburring tool great for cleaning plasma or flame cut edges.



What makes this scraper perform better than your typical chisel or piece of flat bar welded to a handle is the scraping blade. Our blade's through hardened tool steel and 90 degree square edges bulldoze through spatter without chipping or skipping.



The handle provides the perfect amount of heft during chipping or scraping without becoming a drag, our handle tapers at the blade end to a low profile mount so that the scraper can be used in either orientation.



The pointed chipping hammer end is the perfect combo to the scraper and allows you to carry one less tool, plus the inside 45 degree tip of the scraper blade can also be used to deburr edges and tubing.



For fabricators working on modular fixture tables, this tool is especially well suited for cleaning the surface, chamfers, and holes of the table system.



While the blades will require periodic replacement due to wear, the handle is designed for everyday professional duty and we hope it brings a bit of joy with every use.

## Technical Notes

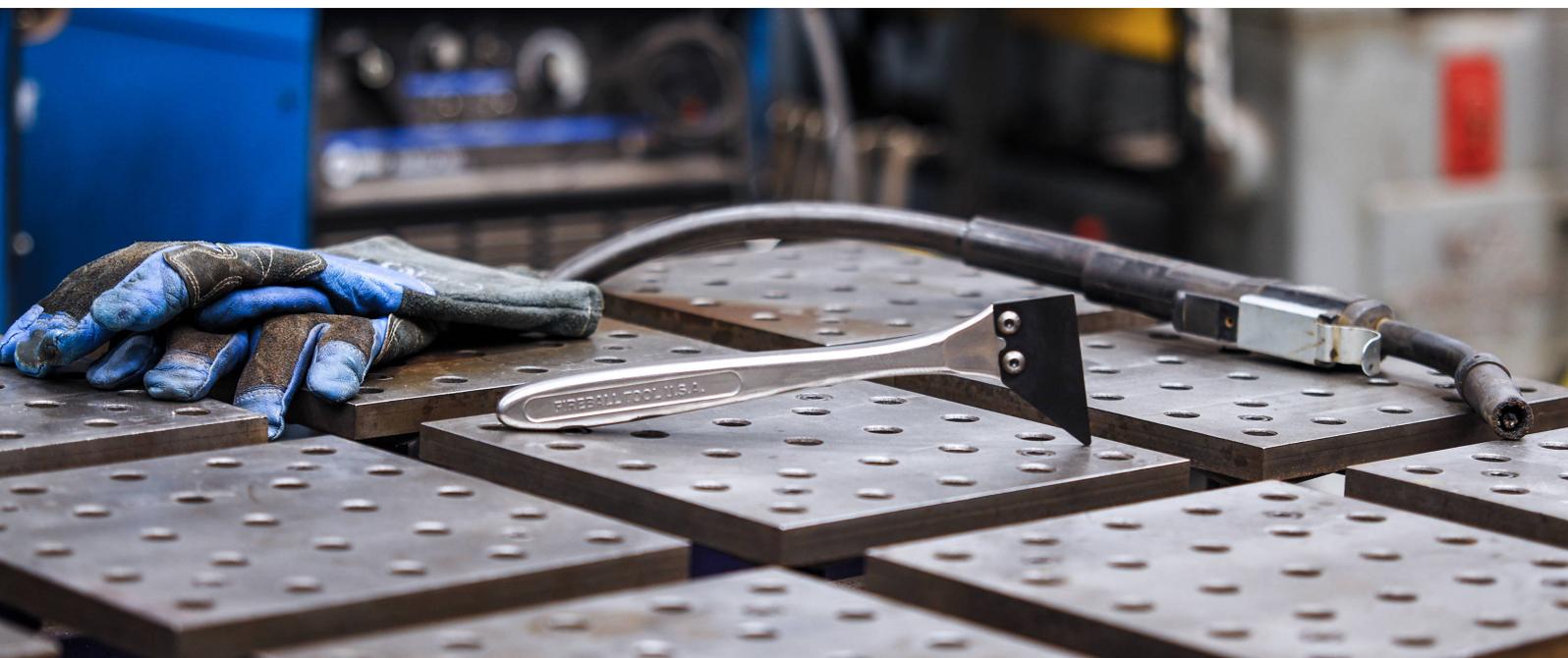
The scraper blade orientation can be flipped by the user as a matter of personal preference. For best results, our fasteners contain a nylon patch to prevent fasteners from loosening. If you need to replace or remove the fastener, we suggest a small amount of product similar to Loctite to keep the screws from backing out due to repeated impact of the blade when scraping and chipping.



## Reversible Blade



## Scraper Replacement Blade





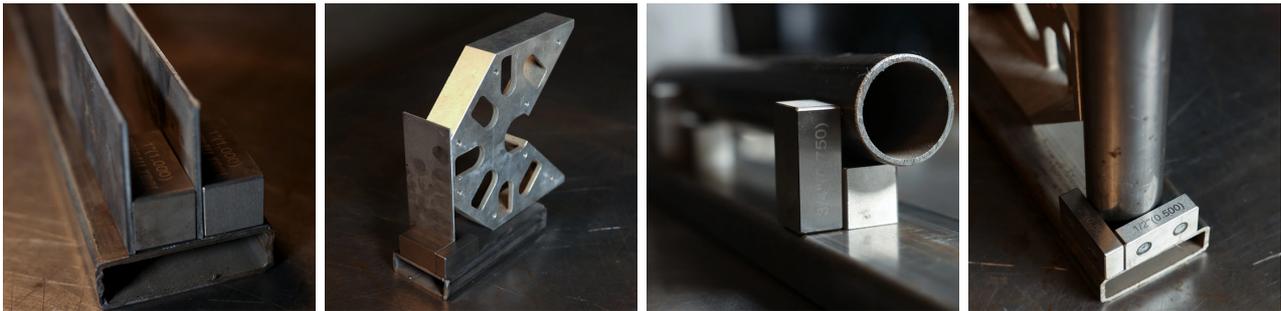
## MAGNETIC SHIM KIT

### Set of 28 Shop Shims with storage case

Each shim is ground on 6 sides with two magnets on the bottom face, there are 7 different heights and 4 pieces of each height in a set.

These shims have countless uses around the shop and also in combination with our squares. The magnet sizes are carefully chosen so that the taller shims have enough magnetic force to hold them up sideways on a project while carrying some of the smaller shims.

The thinner shims have smaller magnets which reduce the amount of force required to remove them. The shims are ground on all 6 sides to an accuracy of +/- 0.03 mm. Shims are hardened to HRC 50. Just remember, to properly measure these you need to use a micrometer mounted on a stand and with the shim wiped clean. A pair of calipers in the hand with a dirty shim will not get an accurate measurement.



Height	Length	Width	Pieces in Kit	Magnetic
5 mm	50 mm	25 mm	4	✓
7.5 mm	50 mm	25 mm	4	✓
10 mm	50 mm	25 mm	4	✓
15 mm	50 mm	25 mm	4	✓
20 mm	50 mm	25 mm	4	✓
25 mm	50 mm	25 mm	4	✓
50 mm	50 mm	25 mm	4	✓

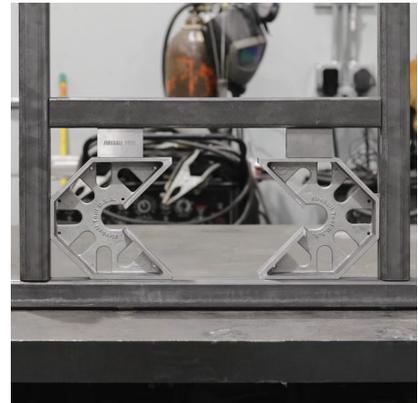
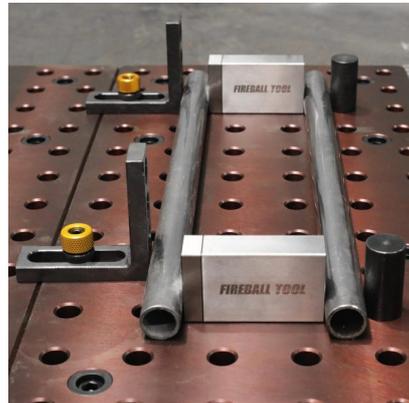
## MAGNETIC BLOCKS



The Magnetic 25-50-75 Blocks are the larger, beefed up version our magnetic shop shims.

The blocks have 2 powerful rare earth magnets flush mounted on each of 3 different faces while their opposite faces remain without magnets.

You will find yourself reaching for these all the time instead of digging through the scrap bin. If you weld everyday, don't even bother finding a place to store them, just attach them to the side of your table or table legs. Ground parallel and square on all 6 sides.



### Some common uses for these blocks

- Elevating parts for welding or marking
- Creating a rest for positioning cross bars

### Specifications

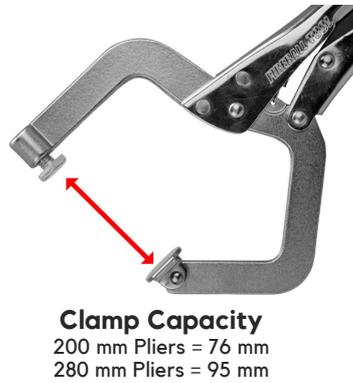
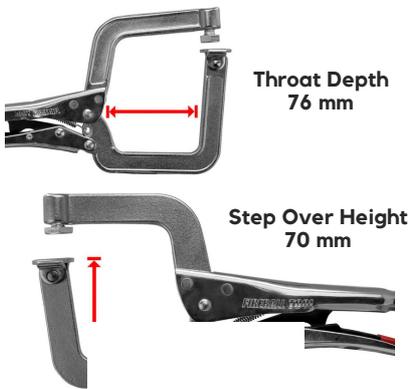
- Dimensions: 75 x 50 x 25 mm; oversized up to 0.0127 mm
- Square: +/- 0.00762 mm all sides
- Hardness: 50 HRC
- Weight: 0.73 kg per block
- Material: Steel

Magnet strength will vary depending on the thickness of material it is adhering to, but on 12.7mm material the pull away force is over 5.44 kg.

Magnets can be replaced using the screws, but avoid prolonged exposure to temperatures above 175° F (80° C) as above this temperature magnets may permanently lose magnetism.

# MANTIS GRIP PLIERS

The perfect companion to Fireball squares.



## Adjustment Crank Handle Screw

Unique crank handle for fast, easy jaw opening and pressure adjustment.

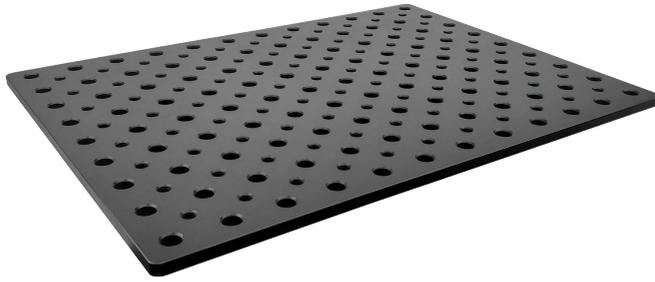
Crank up, or lessen the torque by inserting a screwdriver.

Hanging hole for pegboard storage.



### Add the crank handle accessory to the Pliers to:

- Adjust torque with the pliers in the locked position.
- Pre-set the pliers opening for repetitious clamping applications.
- Loosen the pliers before unlocking.



## DRILL PRESS FIXTURE PLATE

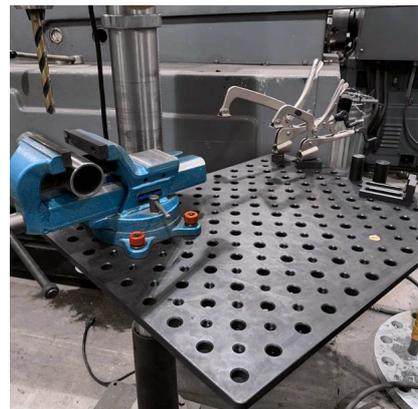
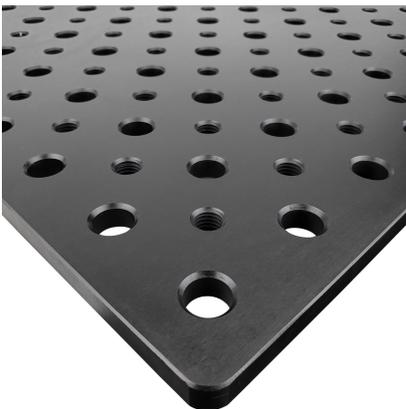
This plate is 600×450 mm by 16 mm thick.

It has 16 mm diameter holes on 50 mm centers, and also M12 tapped holes also on 50 mm centers.

### Applications

Lots of possibilities on what you can do with this plate. It's ground flat and case hardened, also has a black oxide finish.

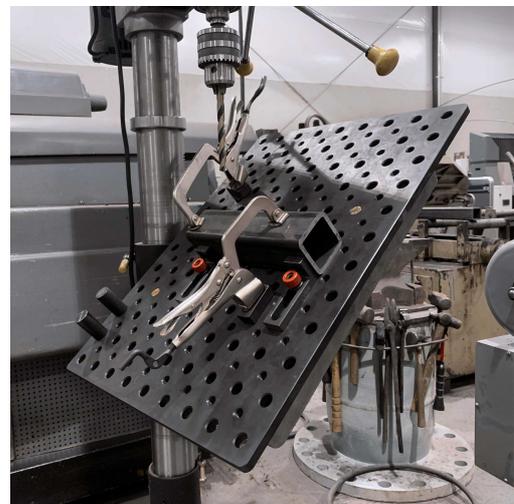
One great application we're using it for is pairing it with a large drill press. You can mount all the BuildPro clamps on it.



### Mounting it on a Drill Press

There's a couple ways to mount this plate to an existing drill press table. Most drill press tables either have through holes and slots, or T-slots. When you bolt it to your existing table surface, you will need to leave some space between the new plate and the existing plate for the BuildPro clamps and ball lock bolts.

You can either use flush mount shoulder bolts to mount the plate using the 16mm diameter holes, or you can use threaded rods, bolts, or T-slot nuts to mount using the threads.





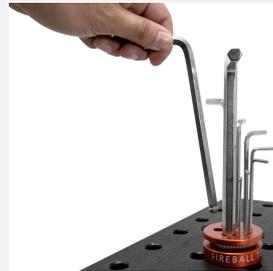
# HEX KEY HOLDER

Pretty much all hex key holders are terrible and fiddly, this holder solves that problem.

- Can store the keys two configurations, either with the base at the bottom and the keys sitting on their ball ends like a tree, or with the base pulled up snug to the bend if it's going to be jostled around.
- Inch holder stores standard 13 sizes, Metric standard 9 sizes.



Magnet in base lets you grab and replace keys with one hand. If you don't want the magnet, it can be removed (with a hex key of course).



Easily retrieve and store individual keys without having to move other keys out of the way or fight the poor fit of the stock factory holders.



Circular mounting pattern lets you quickly figure out which key is the right size for your fastener (this is always frustrating with traditional holders).



Spring puts enough tension to ensure keys stay in place, even upside down.

Imperial Sizes	Metric Sizes
0.050	1.5
1/16	2
5/64	2.5
3/32	3
7/64	4
1/8	5
9/64	6
5/32	8
3/16	10
7/32	
1/4	
5/16	
3/8	



Sizes are engraved on each key except for the two smallest sizes (.050 and 1/16 for inch, 1.5 and 2 mm for metric).

*Patent Pending*



## FORGED BENCH VISE

### What's special about this vise:

This vise has a specially designed 4 point swivel base designed to match up with holes on most common welding tables. Whether you have a table with 5/8" or 16 mm holes, if the spacing is on 50 mm centers this vise will fit. You can quickly bolt and unbolt the vise anywhere on the table as needed. When mounted in the correct orientation, the back jaw will hang over the edge of the table, allowing you to clamp tall objects in the vise.

### Other Great Features:

This vise is made from forged steel rather than cast iron, which has a higher yield strength for a comparable size. The 90,000 PSI tensile strength of these forgings allow the vise to be lightweight but with a comparable strength to vises with twice the weight. Since it's welded together, if you ever take things a little too far with a cheater bar you can repair it relatively easily.

### Details:

- 90,000 PSI tensile strength forged steel
- Black Oxide finish on the jaws and other hardware
- Replaceable flat jaws and pipe jaws
- Adjustable, machined guide rail ensures smooth action
- 360 Degree Swiveling Base
- 4 Mounting Holes with 100 x 150 mm center for mounting on welding tables. Holes are 16 mm in diameter.
- Large machined anvil surface on the rear.
- Hammer tone blue powder coat
- Made in Taiwan



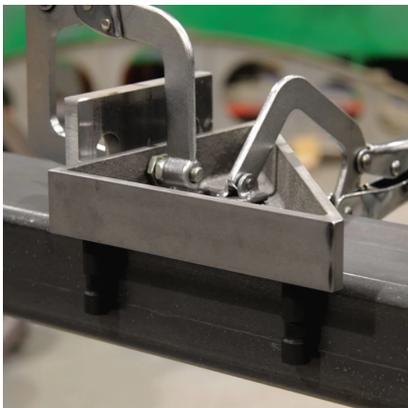
	100 mm Vise	125 mm Vise
Jaw width (mm)	100	125
Jaw opening (mm)	125	150
Pipe Capacity (mm)	12-55	12-75
Throat Depth (mm)	72	83
Weight (kg)	10	12.6
Clamping Force (kg)	3500	4000
Handle Diameter (mm)	11	12
Handle Length (mm)	180	200
Max Torque (kgf.cm)	1700	1600



## EDGE ALIGNMENT PINS

Install our edge alignment pins on any square to create a large, overhanging edge which can be used to index the square on a different plane.

Depending on the square, this allows you to create edges which are 90 degrees (perpendicular), 45 degrees, parallel, and even 60 and 30 degrees from the edge.



### Applications

- Use it with our Monster Squares to create a speed square for layout.
- Use it to hang the square off the edge of a table for working vertical or perpendicular to table surface
- Use it to elevate the squares off the ground or table for extra clearance when you're fitting and welding entire frames
- Tip! If trying to create a parallel edge with the Mega Square for marking, use our shims to get that perfect distance!

