flange wizard® inc.

"welders choice for quality" since 1981

Reg. No. 1,015,681

Vol 22 Nov 2017 Catalog

New ON/OFF Magnet

Miter Marker

Flange Aligner

Magnetic Centering Heads

New ON/OFF Magnet

Master Marker

Two Hole Pins

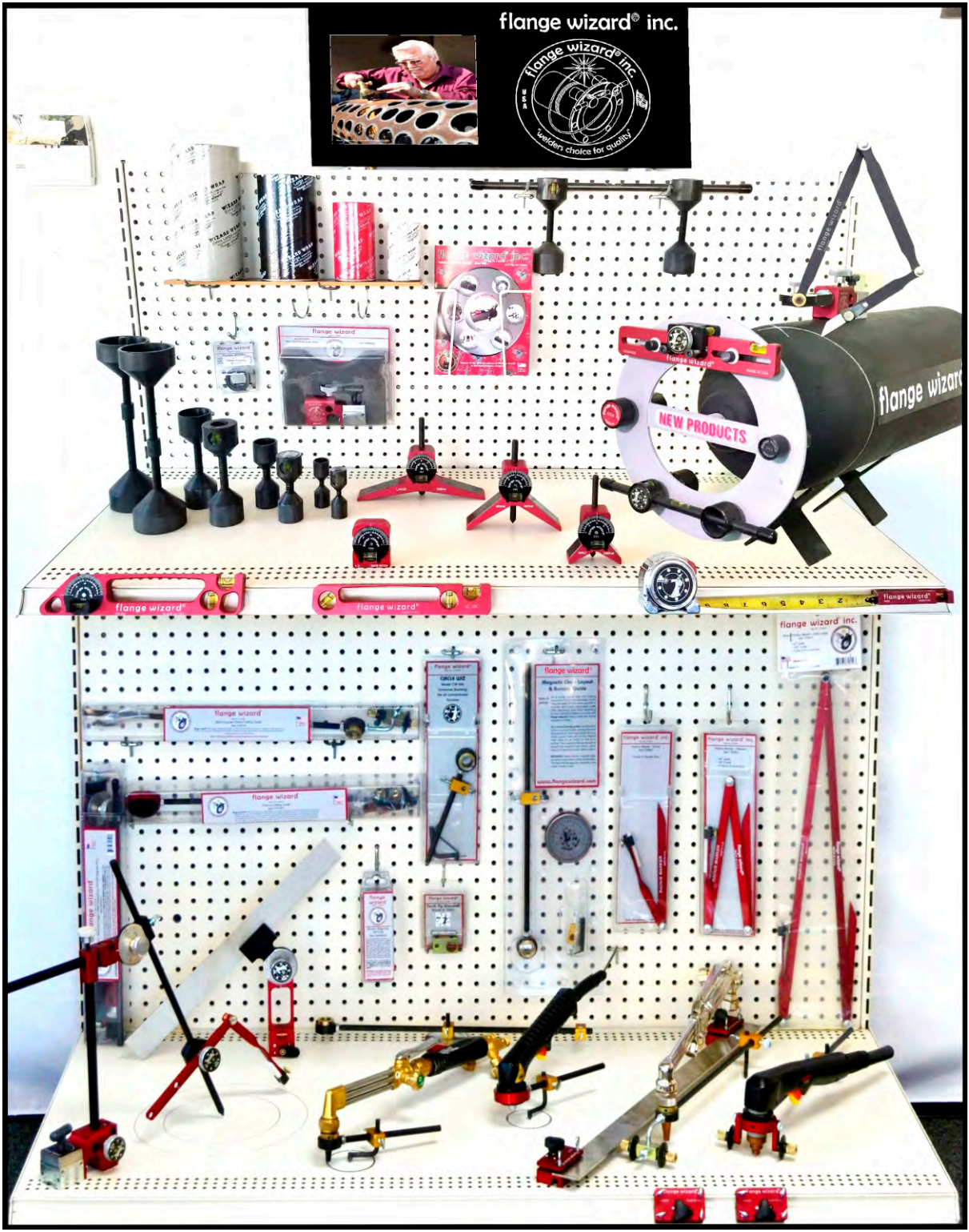
Pipe Wraps

New ON/OFF Magnet

Multi Hole Imager

Winner of the *2016 Excellence in Welding Awards* in the small business category

Made in the USA



Store Display #FWI-Display (Suggested Setup)

Pipe Flange Aligners

Item #'s
38240-T
38240-TL

Extensions are now available for threaded models:
- 2-7/8" Stud P/N 0501
- 4-1/2" Stud P/N 0503
- Connecting Coupling P/N 0503-EX

#38240T* – This model has threaded pins for flanges to 30" - 150 lbs. Fits flanges with holes up to 1-7/16" diameter x 2-1/2" thick. 1/2-13 double lead studs - 8" center to center. Aligner bar is 10" long.

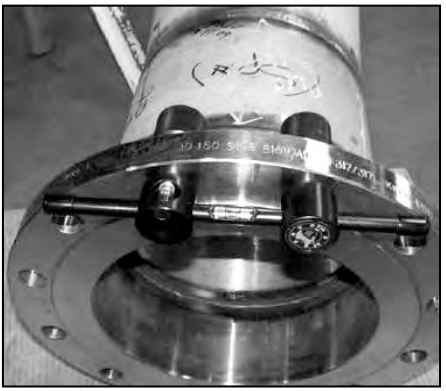
#38240TL* – This is our largest model. Fits flanges with holes up to 1-15/16" in diameter x 4" thick. 1/2-13 double lead studs - 15" center to center. Aligner bar is 18" long.

All models of the Pipe Aligner will two-hole (make 2 holes of the flange horizontally level with the ground) and vertically level the flange in ONE easy step.

All models are made of steel and now come with 360° vials the just "snap" in and out for easy replacement.

The Pipe Flange Aligner saves valuable fit-up time; in most cases it cuts fit-up time in half and eliminates the frustration of balancing a level on the pins.

* Double-lead threaded studs are hardened for durability and designed for quick release



Two Hole Pins

Item #'s
42050-TM
42050-T
42050-TL
42050-TXL

Extensions are now available for threaded models:
- 2-7/8" Stud P/N 0501
- 4-1/2" Stud P/N 0503
- Connecting Coupling P/N 0503-EX

 # 42050-TM–This model has pins that are threaded and fits 5/16" to 63/64" flange holes.

 # 42050T* – This model has pins that are threaded and fits 1/2" to 1-7/16" flange holes.

 # 42050TL* – This large set is threaded and fits 1/2" to 1-15/16" flange holes.

NOTE: Above models have one pin with a bubble for easier vertical leveling and now come with 360° vials that just "snap" in and out for easy replacement.

#42050-TXL* - The extra large set is threaded and designed to be light weight for easier handling. They fit 5/8" to 3" flange holes. A set of 4-1/2" studs and connecting couplings are included to accommodate thicker flanges.

* Double-lead threaded studs are hardened for durability and designed for quick release

Magnetic Two hole Pins

Item #

42050-MM
42050-M
42050-ML

The NEW Magnetic Two Hole Pins
from **flange wizard® are:**

• FASTER AND HAVE NO THREADS TO DAMAGE OR NUTS THAT NEED TO BE SCREWED ON.

** The **Magnetic Mini Pins** (#42050-MM) will Self-align on holes from 5/16" to 7/8" diameter and will work on flanges from 7/16" to 7/8" thick.*

** The **Magnetic Standard Pins** (#42050-M) will self-align on holes from 1/2" to 1-7/16" diameter and will work on flanges from 5/8" to 1-3/8" thick.*

** The **Magnetic Large Pins** (#42050-ML) will self-align on holes from 3/4" to 1-15/16" diameter and will work on flanges from 1-1/2" to 2-3/4" thick.*

Some thicker flanges may require **Extensions. (See Chart on page 4)*

Just place in flange holes and the NUTS and PINS bond together immediately with fastest magnetic speed possible. This brings the latest and fastest technology available to market for aligning flanges and base plates on pipe and stanchions of all kinds.

Refer to Chart on next page for flange thickness and hole sizes.

WARNING: Always keep NUTS and PINS together to keep debris from getting inside the magnet housing.

Extension
P/N 42050-EX

Extensions available to reach up to 3-1/2" thick flanges (P/N 42050-ML only)

Class 150 Flanges

Pipe Size (Inches)	Thickness	Diameter of Bolt Holes
✱ 1/2	0.44 (7/16)	.62 (5/8)
✱ 3/4	0.50 (1/2)	.62 (5/8)
✱ 1	0.56 (9/16)	.62 (5/8)
✱ 1-1/4	0.62 (5/8)	.62 (5/8)
✱ ¤ 1-1/2	0.68 (11/16)	.62 (5/8)
✱ ¤ 2	0.75 (3/4)	.75 (3/4)
✱ ¤ 2-1/2	0.88 (7/8)	.75 (3/4)
✱ ¤ 3	0.94 (15/16)	.75 (3/4)
✱ ¤ 3-1/2	0.94 (15/16)	.75 (3/4)
✱ ¤ 4	0.94 (15/16)	.75 (3/4)
✱ ¤ 5	0.94 (15/16)	.88 (7/8)
✱ ¤ 6	1.00	.88 (7/8)
¤ 8	1.12 (1-1/8)	.88 (7/8)
¤ 10	1.19 (1-3/16)	1.00
¤ 12	1.25 (1-1/4)	1.00
¤ 14	1.38 (1-3/8)	1.12 (1-1/8)
¤ 16	1.44 (1-7/16)	1.12 (1-1/8)
† 18	1.56 (1-9/16)	1.25 (1-1/4)
† 20	1.69 (1-11/16)	1.25 (1-1/4)
† 24	1.88 (1-7/8)	1.38 (1-3/8)
● 26	2.69 (2-11/16)	1.38 (1-3/8)
● 28	2.81 (2-13/16)	1.38 (1-3/8)
● 30	2.94 (2-15/16)	1.38 (1-3/8)

Class 300 Flanges

Pipe Size (Inches)	Thickness	Diameter of Bolt Holes
✱ 1/2	0.56 (9/16)	.62 (5/8)
✱ 3/4	0.62 (5/8)	.75 (3/4)
✱ ¤ 1	0.69 (11/16)	.75 (3/4)
✱ ¤ 1-1/4	0.75 (3/4)	.75 (3/4)
✱ ¤ 1-1/2	0.81 (13/16)	.88 (7/8)
✱ ¤ 2	0.88 (7/8)	.75 (3/4)
¤ 2-1/2	1.00	.88 (7/8)
¤ 3	1.12 (1-1/8)	.88 (7/8)
¤ 3-1/2	1.19 (1-3/16)	.88 (7/8)
¤ 4	1.25 (1-1/4)	.88 (7/8)
¤ 5	1.38 (1-3/8)	.88 (7/8)
¤ 6	1.44 (1-7/16)	.88 (7/8)
† 8	1.62 (1-5/8)	1.00
† 10	1.88 (1-7/8)	1.12 (1-1/8)
† 12	2.00	1.25 (1-1/4)
† 14	2.12 (2-1/8)	1.25 (1-1/4)
† 16	2.25 (2-1/4)	1.38 (1-3/8)
† 18	2.38 (2-3/8)	1.38 (1-3/8)
† 20	2.50 (2-1/2)	1.38 (1-3/8)
† 24	2.75 (2-3/4)	1.62 (1-5/8)
● 26	3.44 (3-7/16)	1.38 (1-3/8)
● 28	3.44 (3-7/16)	1.38 (1-3/8)
● 30	3.63 (3-5/8)	1.50 (1-1/2)

Class 600 Flanges

Pipe Size (Inches)	Thickness	Diameter of Bolt Holes
✱ 1/2	0.56 (9/16)	.62 (5/8)
✱ 3/4	0.62 (5/8)	.75 (3/4)
✱ 1	0.69 (11/16)	.75 (3/4)
✱ 1-1/4	0.81 (13/16)	.75 (3/4)
✱ ¤ 1-1/2	0.88 (7/8)	.88 (7/8)
¤ 2	1.00	.75 (3/4)
¤ 2-1/2	1.12 (1-1/8)	.88 (7/8)
¤ 3	1.25 (1-1/4)	.88 (7/8)
¤ 3-1/2	1.38 (1-3/8)	1.00
† ¤ 4	1.50 (1-1/2)	1.00
† 5	1.75 (1-3/4)	1.12 (1-1/8)
† 6	1.88 (1-7/8)	1.12 (1-1/8)
† 8	2.19 (2-3/16)	1.25 (1-1/4)
† 10	2.50 (2-1/2)	1.38 (1-3/8)
● 12	2.62 (2-5/8)	1.38 (1-3/8)
● 14	2.75 (2-3/4)	1.50 (1-1/2)
● 16	3.00	1.62 (1-5/8)
● 18	3.25 (3-1/4)	1.75 (1-3/4)
● 20	3.50 (3-1/2)	1.75 (1-3/4)

✱ 42050-MM (Mini)
¤ 42050-M (Standard)
† 42050-ML (Large)
● 42050-ML W/ Extension

Magnetic Pipe Flange Aligner Kit

Item #
38240-MAK

OFF/ON Magnetic Flange Aligner Kit

The **NEW pipe flange aligner** with no threads and no nuts to lose. Flange thickness is no longer a problem. Our NEW **Magnetic Flange Aligner Kit #38240-MAK** will fit flange holes from 1/2" dia. up to 1-15/16" dia. and aligns both horizontally and vertically exclusively off the steel face of the flange.

The new technology of the OFF/ON 90 lb. magnet makes this tool the fastest and easiest flange aligner to use in the industry. **The Centering Cones** (**SMALL** set for 1/2" to 1-7/16" holes and **LARGE** set for ½" to 1-15/16" holes).

can also be used as nuts when working with non-magnetic materials. (fig. A)

This **NEW ALIGNER** comes in a compact case that will protect the tool from damage and keep it together in one place ready to use.

Keep magnet block in "OFF" position when not in use.

The new ON/OFF magnet
allows for stronger holding power
and easy removal of debris.

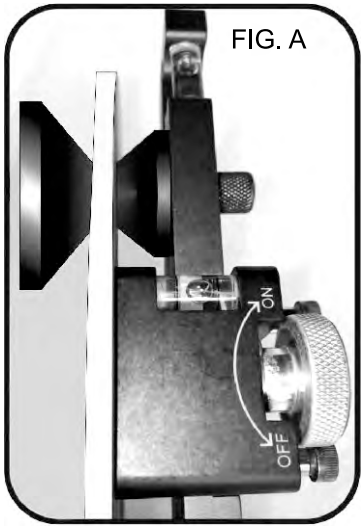
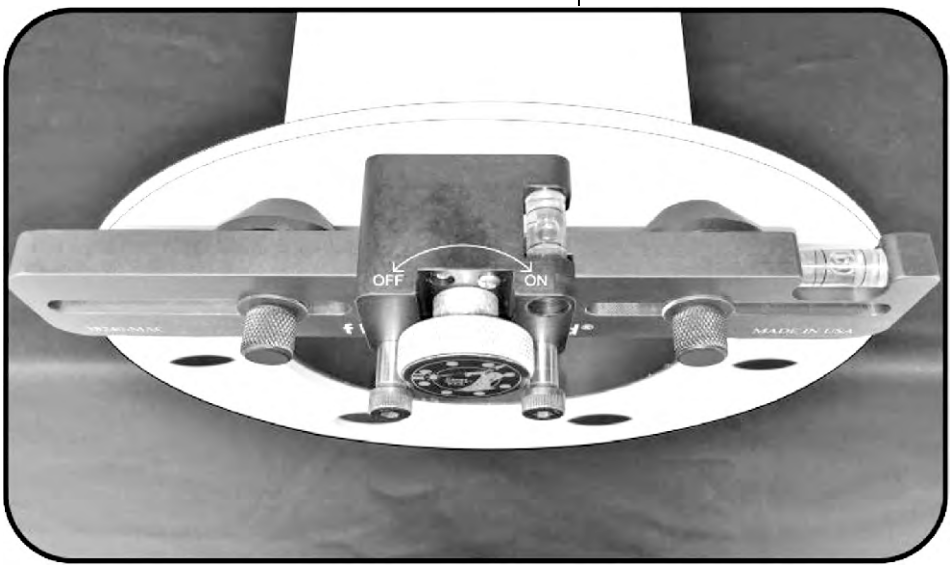


FIG. A

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices.



MAGNETIC Small Centering Head Tool

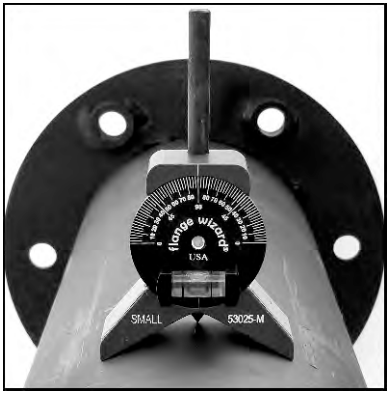
Item #
53025-M

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices.

The **Small Centering Head Tool** has a one-piece MAGNETIC "Y" shaped body like our other models, only smaller. The addition of the magnets in the legs will free up users' hands for a safer and more accurate layout mark. This tool is designed for the person who works with smaller diameter pipe. Fire protection contractors, fence and gate builders, live stock pens and corrals are a few of the many uses. It is machined from quality aluminum and anodized for lasting protection.

Use it to establish and mark a centerline at any angle around the circumference on a pipe or tank. Use it as a **protractor level** on various alignment jobs.

It is a great addition to any tradesmen's tool box.



1" pipe and larger

MAGNETIC Medium Centering Head Tool

Item #
53076-M

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices.

The **Medium Centering Head Tool**, with its one-piece "Y" shaped body is now **MAGNETIC**. This will free up users hands for safer and more accurate layout marks. Tool is designed to establish and mark a centerline at any angle around the circumference (inside or outside) of a pipe or tank. Use it as a **protractor level**, or remove and use the hardened center punch for other marking jobs. The vial is easy to repair.

The dial is in 2-½° increments with spring tension for smooth operation.

This tool is a must for the welder or fitter's toolbox.

6" pipe and larger

MAGNETIC Large Centering Head Tool

Item #
53085-M

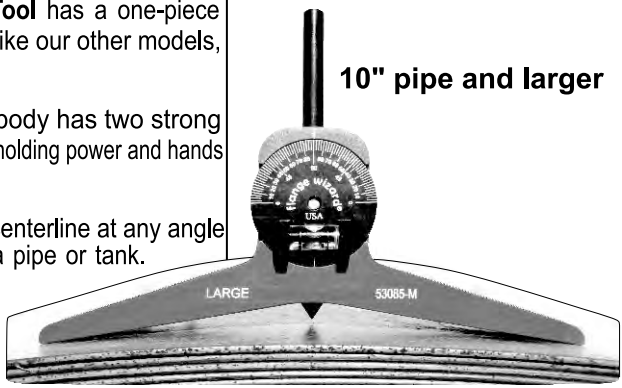
Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices.

The **Large Centering Head Tool** has a one-piece MAGNETIC "Y" shaped body like our other models, only wider and larger.

The wide-spread "Y" shape body has two strong magnets in each leg for maximum holding power and hands free layout.

Use it to establish and mark a centerline at any angle around the circumference on a pipe or tank.

Use it as a protractor level on various alignment jobs.



10" pipe and larger

Master Marker (in carrying case)

Item # MML510

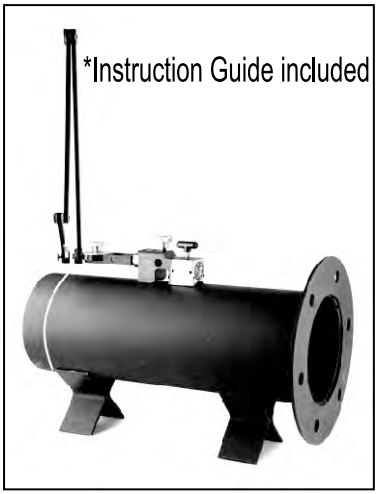
"New ON/OFF Magnet"

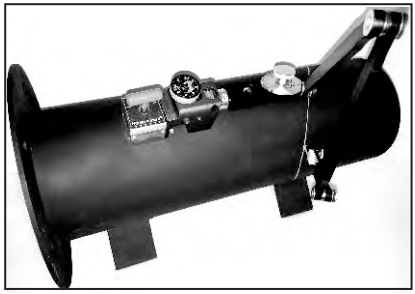
Redesigned pipe marker has the latest ON/Off magnet technogy.

- Main body has a leveling vial built-in and a strong 150 lb. ON/OFF magnet that works like a third hand.
- Marks saddles and angles on pipe and structural steel.
- Marking arm has its own leveling system and a shaft that rotates 360° and telescopes to eliminate uneven surface problems.
- Will layout pipe and structural beams from 8" to 48".
- **The new ON/OFF magnet** allows for stronger holding power and easy removal of debris.
- Structural adaptor is included.

Structural Adaptor aligns tool base exactly parallel to edge of structural steel beams and channel iron.

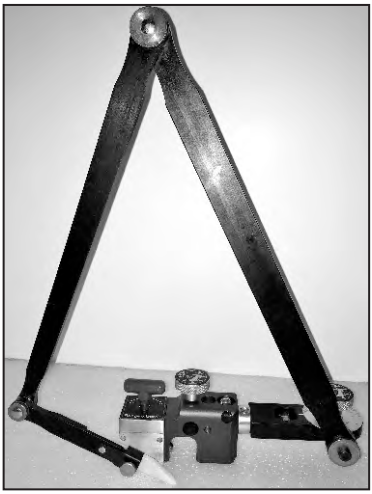
* A **Spring Buckle Strap #5010** is available to hold base tight on **non-magnetic** work materials.





(Carrying Case # 8900)

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet in "OFF" position when not in use.



Miter Marker (in carrying case)

Item # MMS505

"New ON/OFF Magnet"

Redesigned pipe marker has the latest ON/Off magnet technogy.

- Main body has a leveling vial built-in and a strong 150 lb. ON/OFF magnet that works like a third hand.
- Marks saddles and angles on pipe and structural steel.
- Marking arm has its own leveling system and a shaft that rotates 360° and telescopes to eliminate uneven surface problems.
- **Will layout pipe and structural beams from 1-1/2" to 18".**
- **The new ON/OFF magnet** allows for stronger holding power and easy removal of debris.
- Structural adaptor is included.

Structural Adaptor aligns tool base exactly parallel to edge of structural steel beams and channel iron.

* A **Spring Buckle Strap #5010** is available to hold base tight on **non-magnetic** work materials.

*Instruction Guide included

(Carrying Case # 8901)

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet in "OFF" position when not in use.

Multi-Hole Imager (in carrying case)

Item #
MHI515

"New ON/OFF Magnet"

Marks 3/4" to 20" holes in plate with vertical shaft at 90°.

Marks 3/4" to 18" saddle holes in pipe with vertical shaft at 90°.

Has a 150 pound holding magnet with a "on and off" switch.

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet block in "OFF" position when not in use.

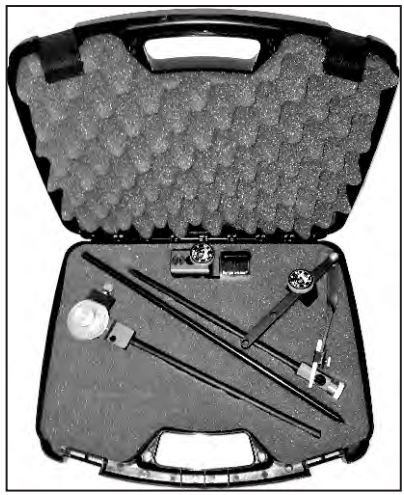
* A **Spring Buckle Strap #5010** is available to hold base tight on **non-magnetic** work materials.

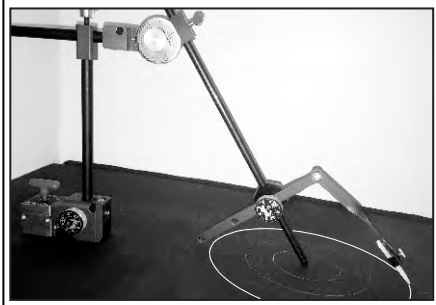
The **Multi-Hole Imager** is one of Flange Wizard®'s finest layout tools. The strong 150 lb. ON/OFF magnet makes positioning on a round, flat, or irregular surface easy. A leveling vial is built in the main body and the marking arm to assist in leveling the tool as required.

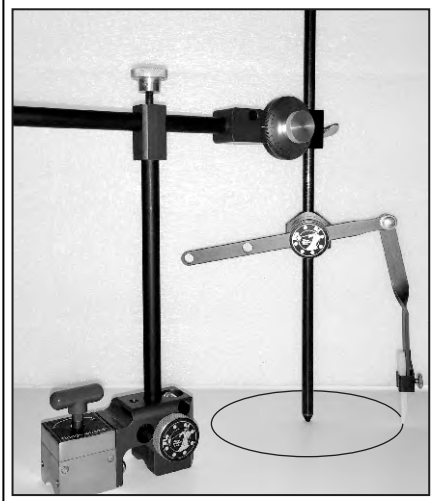
The Multi-Hole Imager will layout round or elongated holes (**ellipses**) on flat material or pipe to match laterals at compound angles or at 90°.

A **protractor,** with adjustable shaft and sliding marking arm, fits in the main arm of the **Imager** allowing for layout of elliptical holes in header pipe for matching compound pipe laterals coming in to the header. It will layout matching holes in pipe for 90° saddle branches. The **Imager** is great for round holes in plate or elongated holes when coming in at an angle. The **Multi-Hole Imager** is sold in a sturdy polypropylene case (# 8900) for protection between jobs. A Spring Buckle Strap (# 5010) can be purchased to hold **Imager** in position for non-magnetic surfaces.

*Instruction Guide included







Main ON/OFF Magnetic Body

Attachments

Item #
MMB500

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet block in "OFF" position when not in use.

"New Design"

The Main ON/OFF Magnetic Body with a 150 lb. pull magnet is interchangeable for the **Miter Marker Arm, Master Marker Arm,** and **Multi-Hole Imager Tower.**

Miter Marker - Arm

Item #
MSA505

This arm is designed for marking pipe and structural beams. (Size range is 1-1/2 to 18-inch pipe and up to 18-inch structural beams.)

Master Marker - Arm

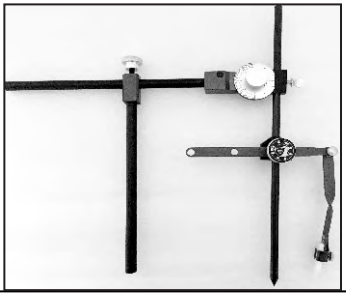
Item #
MLA510

This arm is designed for marking pipe and structural beams. (Size range is 8 to 48-inch pipe and up to 36-inch structural beams.)

Multi-Hole Imager - Tower

Item #
MHA515

The Multi-Hole Imager - Tower will layout round or elongated holes (ellipse) on flat material or pipe to match laterals at compound angles or at 90°. It marks up to 18-inch saddle holes in pipe or flat plate.



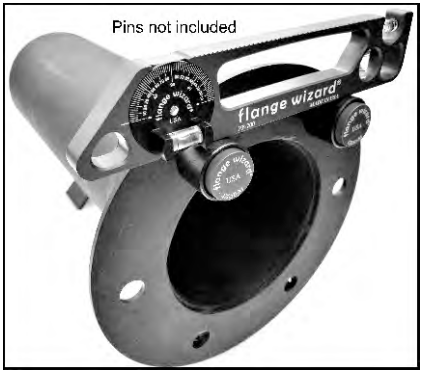
Pocket Pro Level

Item #
PP-200

*A must
for the Solar industry!

Warning: Excessive heat can damage the magnets. Keep magnet away from sensitive electronic devices.

GREAT DESIGN - One of the finest levels available in the welding industry. Designed to give years of quality service. Extra strong magnets hold it firmly to any steel surface. There are two (2) stationery vials placed at 90° angles of each other and can be read from any surface of the level. If vials are damaged, just remove them and replace with a new one (**VIAL REPAIR KIT #5102** includes 2 vials and a tube of sealant). The dial is in 2.5° increments with spring tension for smooth operation.
Tool is machined from aluminum and anodized for a protective finish. Size is 2.00" wide x 10" long.



Standard Pocket Level

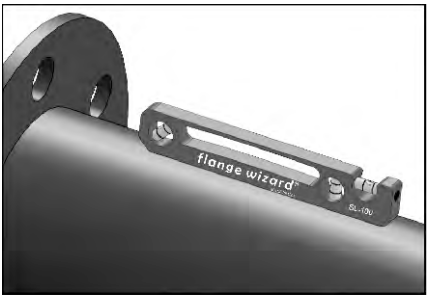
Item #
SL-100

Other levels available:
L-2 Pocket Degree Level
PP-200 Pocket Pro Level

Warning: Excessive heat can damage the magnets. Keep magnet away from sensitive electronic devices.

This 9.0' long x 1.5' wide **magnetic** level has three-position leveling that can be viewed clearly from almost any angle.
The **STANDARD POCKET LEVEL** is machined from aircraft quality aluminum and anodized for lasting beauty and protection. It is manufactured with the same high quality as our POCKET PRO LEVEL (PP-200) but designed for the tradesman who does not need the protractor degree dial. Like all of our other quality leveling tools, the **STANDARD POCKET LEVEL** can be repaired in the field using our vial repair kit (#5201).

Level at 45° angle



Level with vial at horizontal

Pocket Degree Level

Item #
L-2

*Ship builders love me!

Warning: Excessive heat can damage the magnets. Keep magnet away from sensitive electronic devices.

This pocket size, combination degree level makes it easy to establish angles and mark for butt-ins, set tanks, layout keyways and measure decline or slope. It is great for rod frames and setting drive lines and is also used in the auto industry. This compact tool is 2.00" wide x 2-1/2" long x 5/8" thick and has a degree dial marked in 2-½° increments and numbered every 10°. It has a 25 lb. magnet in the base for easy hands off use and can even hold the end of a tape measure for solo use. This is a great level for getting angles on hard to reach pipe or structural steel details. Refinery workers find it handy when getting angles on spools many feet off the ground.

Universal Magnetic Tape Holder

Item #
89754

Warning: Excessive heat can damage the magnets. Keep magnet away from sensitive electronic devices.

Designed with no removable parts and works with most industrial measuring tapes. It is a great little magnetic pocket level and a third hand when doing those difficult measuring jobs while working alone. The holder secures the end of your tape while laying out close tolerance measurements from the middle of your material. Tool is machined from aluminum and anodized for a protective finish. A strong 25 pound pull magnet set in epoxy secures the tape holder to your work. At one end of the tool is a small rare earth magnet to hold your measuring tape in place while laying out difficult jobs. Tape holder is 4" long x 5/8" square.

Vial Repair Kit

Item #
5102

Make your **flange wizard®** tools like new again with this repair kit.

One kit fits all. For quick on the job repairs for any of our tools that have leveling vials. Kit includes two (2) vials and one (1) tube of sealant.

Radius Markers (three sizes)

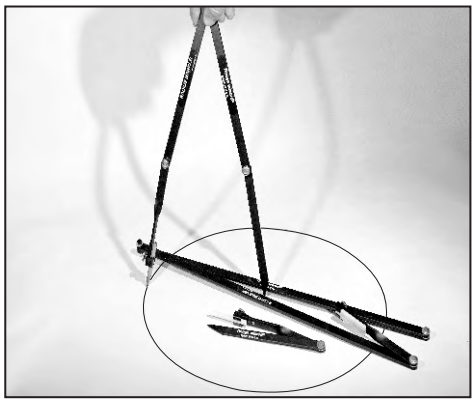
Item #"s

72800 Small - 11" span = 22" circumference

72805 Medium - 25" span = 50" circumference

72810 X-Large - 50" span = 100" circumference

The Wizard **Radius Markers** are precision tools made of rust proof aluminum and anodized for lasting protection. Three (3) sizes to choose from to mark your smallest circles to the large ones, up to 100" in diameter. The arms are precisely aligned with spring tension joints to guarantee accuracy and rigidity for years of service. Holder accommodates flat or round soapstone and pencils. Small and Medium models fold to pocket size. The extra large model can be adjusted tight in the center to eliminate any movement while marking large radius's or circles.



Multi-Purpose “Chariot Cutting Guide”

Item #
24219

Cuts as small as 5/8" diameter circles

Flange Wizard®'s Multi-Purpose “Chariot Cutting Guide” is a must for every tradesman who uses a cutting torch. It will cut circles up to 39" in diameter, cut straight and irregular shapes. You will love this versatile tool.

*** Universal bushing fits all conventional torches.**

Available Accessory:
Extension Hex Bar
15-1/2”L #3311-EX

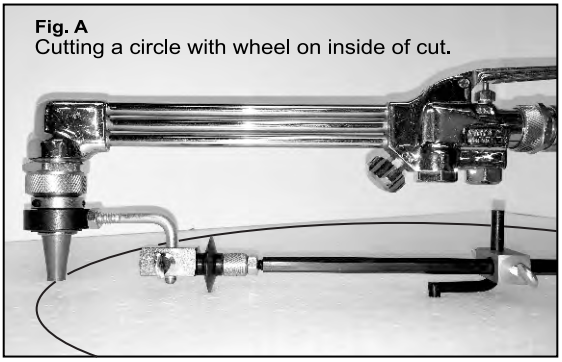


Fig. A
Cutting a circle with wheel on inside of cut.

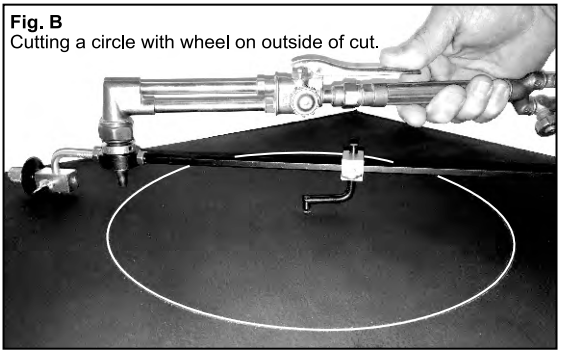


Fig. B
Cutting a circle with wheel on outside of cut.

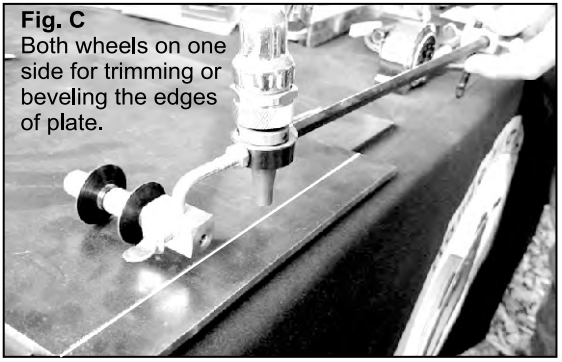


Fig. C
Both wheels on one side for trimming or beveling the edges of plate.

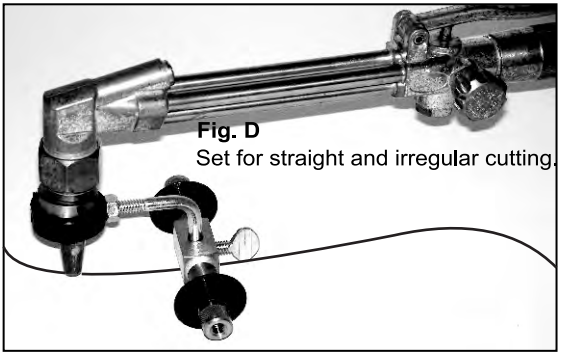
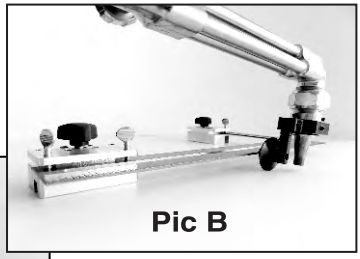


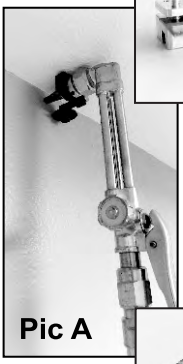
Fig. D
Set for straight and irregular cutting.

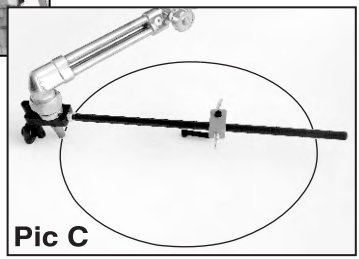
Standard Burning Guide

Item# SBG301

Conventional torch users can now start cutting corners with flange wizard®'s new **STANDARD BURNING GUIDE.** This burning guide can reach into corners and tight places where other guides cannot go! Your torch tip can actually get right into a corner and have a single wheel stand-off to keep the tip at a proper distance from the work surface (Pic A).
The wheel can be rotated to be used with a straight edge guide (Pic B).
This cutting guide is great for demolition that requires getting into corners and tight work spaces. It also cuts holes from 5/8" to 24" diameter. Designed with a universal bushing, it fits any conventional torch tip (Pic C).


Pic B

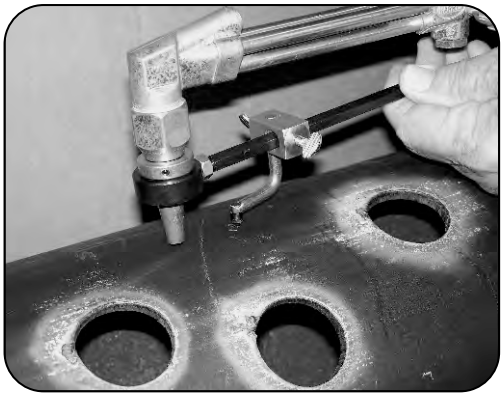

Pic A


Pic C

Circle Wiz

Item # CW-300

The Circle Wiz cutting attachment is a must for anyone who cuts small to medium holes in plate or pipe. It is especially handy for cutting out the holes for matching saddle cuts, weldolets and threadolets. Made of steel, the Circle Wiz has all the same qualities as other **flange wizard®** tools. The universal bushing will adapt to any size or make of conventional cutting torch. The Circle Wiz will cut holes from 5/8" in diameter to 8" in diameter. (Recommend **Chariot Cutting Guide P/N 24219 for larger circles**.) Simply slide the hardened center pin along the hex arm to attain the proper radius of hole desire. Place the sharpened point in your center mark and you are ready to cut.



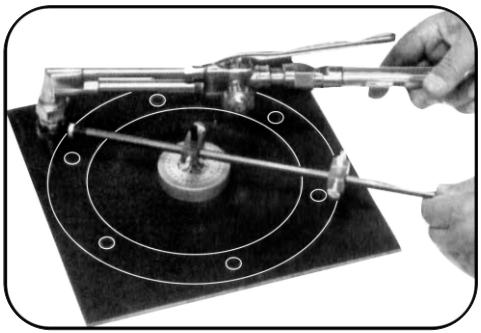
Magnetic Circle Layout & Burning Guide*

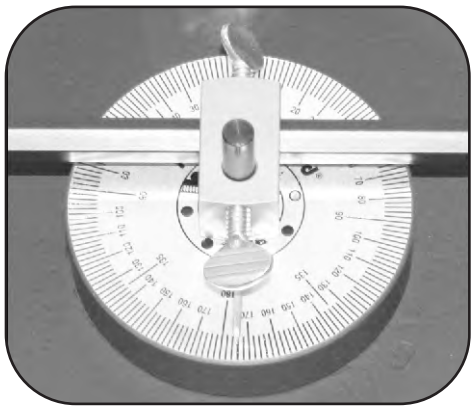
Item # 28439

As a circle layout tool with sliding soapstone holder and 360° scale on the magnetic base. Will cut circles as small as 2" out of the base and up to 30" in diameter in the base. (recommend **Chariot Cutting Guide P/N 24219 for larger circles**). Bolt circles, hole locations, baffle plate placement, and circle sectioning for any number of reasons is a snap with flange wizard®'s layout scale and sliding soapstone holder.

As a circle burning guide use this same tool to cut a round plate, simply place the center punch mark and let the magnet slide down to sit firmly on the work surface. The magnet is strong enough to support the weight of your torch, which frees your hands for more cutting control.

WARNING: Never use the magnetic base or suction cups when cutting small holes. The heat will damage the magnets or the rubber suction cups.

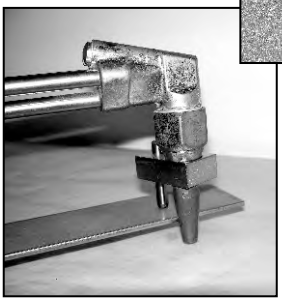




Torch-Tip Stand-off

Item # 70501

The Torch-Tip Stand-off is a must for anyone who uses a cutting torch and wants to keep their tip at the proper burning height at all times. Not only will this assist you in making more uniform cuts, but will keep your cutting tips from being damage and always ready for your next burning job. Simply slide the standoff over the cutting tip and against the bottom of the torch nut and tighten the set screw. Now you are ready to adjust the proper height by moving the sliding adjusting rod to a position that will keep the cutting tip at the desired distance from the work. You are ready to burn with confidence.



Plasma Cutting Guide w/Bushing (must specify size)

Item #
PG-601-1.xxxx

Available accessories:
Magnetic Base w/Suction Cups #77350

Plasma Beveling Yoke #6201

Extension Hex Bar 15-1/2" L #3311-EX

NOTE: Special bushing to fit your plasma torch must be specified when purchasing your Plasma Cutting Guide P/N PG-601 and the Plasma Wiz P/N 30061. See the

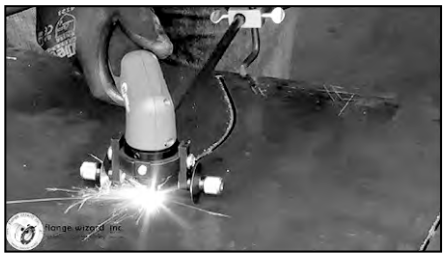
See the Plasma Bushing Chart on our website or page 19 of catalog.

See Picture of Bushing on page 18 of catalog

The Plasma Cutting Guide is a handy addition to your plasma-cutting machine. Standard model PG-601 will assist you in cutting holes from 5/8" to 36" in diameter. You can use your Plasma Cutting Guide for straight and irregular cuts by using the wheels provided (Fig. A).

You can set up your Plasma Cutting Guide for cutting medium to large circles by installing one wheel on the plasma body (Fig. B). The tool is so balanced that a wheel is not necessary when cutting small (5/8" dia.) to medium (8" dia.) holes in your material.

Just center punch where you want the center of the hole, set the radius of the hole you want from the pointer of the arm to the center of the plasma torch and you are ready to cut.



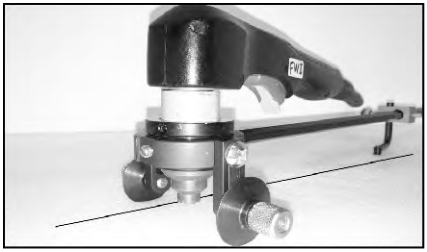
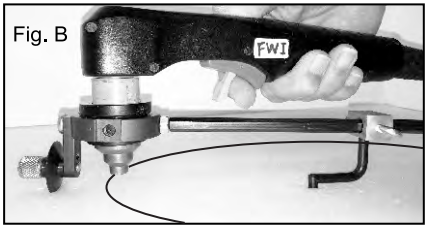
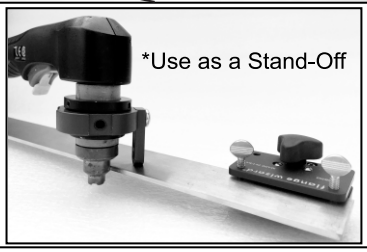


Fig. A

Fig. B





Plasma Wiz w/Bushing (must specify size)

Item #
30061-1.xxxx

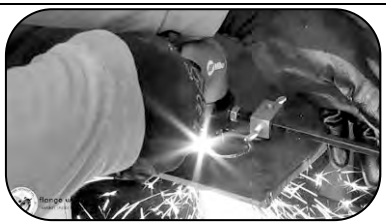
NOTE: **Special bushing to fit your plasma torch must be specified when purchasing your Plasma Cutting Guide P/N PG-601 and the Plasma Wiz P/N 30061.**

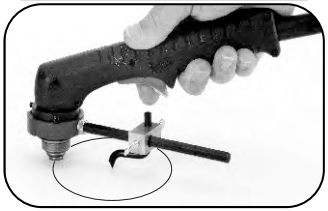
See the Plasma Bushing Chart on our website or page 19 of catalog.

See Picture of Bushing on page 18 of catalog

Quality product designed to make your hole cutting jobs in steel and nonferrous metals a snap. Adjust the pivot pin for the proper height, move it along the hex bar to set the radius you want and lock it in place with the thumb screw. Put a center punch mark in your material where you want the hole to be, your pivot pin will not slip out.

The Plasma Wiz will cut holes from 5/8" to 8" in diameter without any wheels.





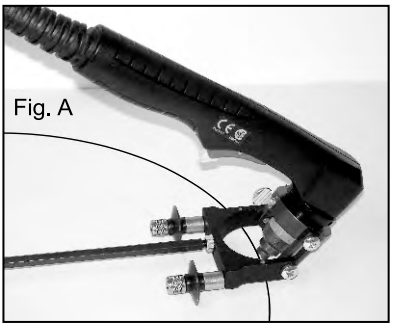
Plasma Beveling Yoke - Accessory for Plasma Cutting Guide #PG-601

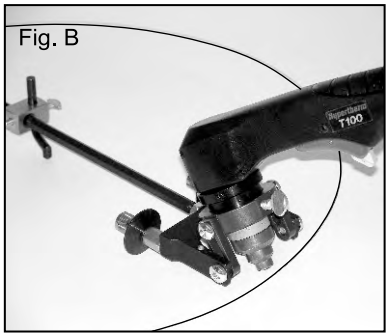
Item # 6201

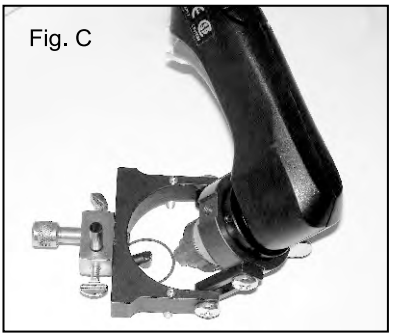
This accessory for the Plasma Cutting Guide #PG-601 is your answer to having a beveling tool to use with your **Plasma Cutting Guide**. It can be configured to:

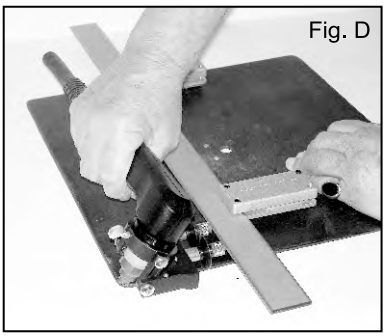
- Bevel hole (Fig. A)
- Bevel fill hole (Fig. B)
- Bevel cut hole as small as 1.00" (Fig. C)
- Bevel plate edge (Fig. D)

Plasma Cutting Guide Not included.









Accessory Magnetic Base

Item # 77350

WARNING: Never use the magnetic base or suction cups when cutting small holes, the heat will damage the magnets or suction cups.

This accessory for the **Plasma Cutting Guide #PG-601** serves as a third hand when cutting large holes. This **base** comes with a **straight pivot pin** and **suction cups** for use on non-ferrous metals.

Plasma Cutting Guide Not included.

Plasma Bushing for PG-601 and 30061

ITEM # 61-1.xxxx

MUST SPECIFY SIZE NEEDED

(See chart on webpage or page 19 of catalog)

The **Plasma Bushing** is made of quality aluminum and anodized for protection and longevity. It comes in three (3) standard sizes based on the head diameter of the torch you are using. It has three set screws to adjust to torch heat shield.

Plasma Bushings for Plasma Wiz (P/N 30061) & Plasma Cutting Guide (PG-601, PG-602 & PG-604)

BUSHING O.D. 1-3/8"	Bushing I.D. and FW Part Number	HEAD DIA of torch	TORCH MODEL NUMBER	*WILL FIT* FW P/N's
ESAB Hypertherm Miller Thermadyne	61-1.007	.750 to 1.005 Straight Hole	250, 380, 650 Air T30; Duramax; Duramax HRT/HRTs; Duramax HRT2; Duramax LT; Duramax MRT; Duramax RT; PAC105; PAC110; PAC120; PAC121; PAC123; PAC125; PAC140; RT60; RT80; T100; T30V; T45V; T60; T80 ICE-27 SL-40	PG-601 & 30061
Hypertherm Miller	61-1.070	1.030 To 1.068	PAC130; PAC160 ICE-40C, ICE 40T, ICE-50C, ICE-55C, ICE-60T, ICE-80T, Spectrum 875	PG-601 & 30061
ESAB Hypertherm Lincoln Miller Thermadyne	61-1.200 *** NOTE: replaces 61-1.130 and 61-1.170	1.069 to 1.195 Straight Hole	900, 1300, 1600, PT-27 or I-750, I-1000 PAC135 LC-25, LC-40 Spectrum 500, 750, XT-30C, XT-40 SL-60, SL-100, RPT-100 (New #1), Drag-Gun, Cutmaster 50, 52, 100, 102, PCH 42	PG-601 & 30061
Hypertherm Lincoln	61-1.275 NOTE: Replaces 61-1.260	1.199 to 1.270	Power Max 1100, PAC 135 Lincoln 125, PGT 125 Torch	PG-601 & 30061
Hypertherm BUSHING O.D. 1-1/2"	64-1.380	1.35 To 1.375	Duramax-Hyamp	*SPECIAL ORDER* Ask for PG-604
Thermadyne BUSHING O.D. 1-7/8"	62-1.430	1.400 to 1.425	PCH-120 Torch (Special) Larger head diameter on heat shield - call for quote	*SPECIAL ORDER* Ask for PG-602

Plasma Bushing Chart

Head Diameter of Torch	.750 to 1.005 Straight Hole	1.030 to 1.068	1.069 to 1.195 Straight Hole	1.199 to 1.270	1.350 to 1.375	1.400 to 1.425
Plasma Bushing	61-1.007	61-1.070	61-1.200	61-1.275	64-1.380 Special	62-1.430 Special
Plasma Wiz	30061-1.007	30061-1.070	30061-1.200	30061-1.275	Not Available	Not Available
Plasma Cutting Guide	PG-601-1.007	PG-601-1.070	PG-601-1.200	PG-601-1.275	PG-604 Special	PG-602 Special

Magnetic Torch Guide and 24" Extension/ With New ON/OFF Magnet

Item #'s
MSG230
MSG230-24

"New ON/OFF Magnet"

- The basic model **#MSG230** is the 24" cutting rail with two (2) adjustable magnetic holding blocks.

- The 24" Extension **#MSG230-24** comes with the 24" cutting rail and one (1) adjustable magnetic holding block

Block size:
1" x 1-1/2" W x 2-1/2" L

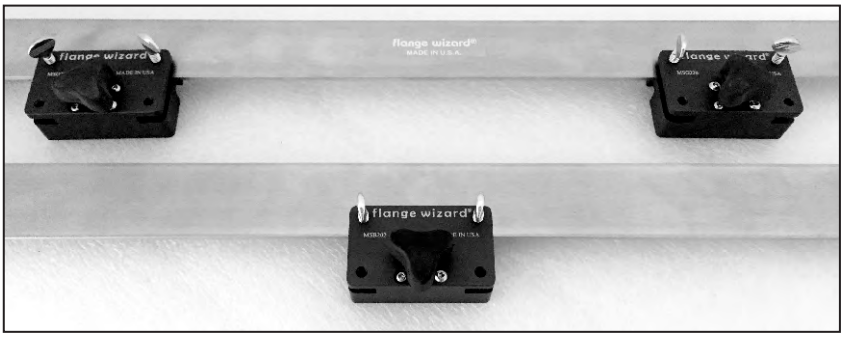
Rail size:
1/8" x 1-1/2" W x 24" L

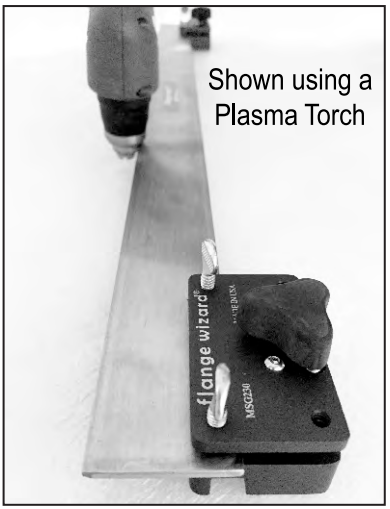
Will accommodate a 3/16" thick rail

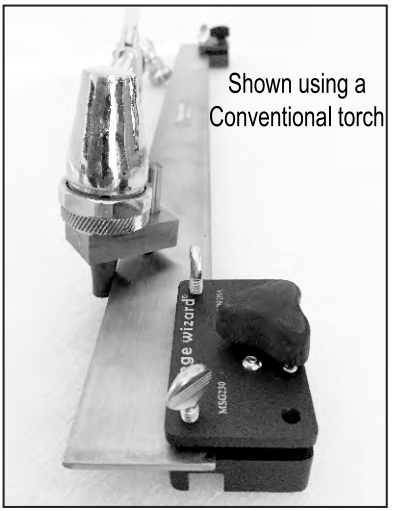
3/4" from top of blade to cutting surface.

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet block in "OFF" position when not in use.

For steadier cutting, **the improved Magnetic Torch Guide has 60 lb. pull ON-OFF magnets for ease of setup and release of debris.** The two magnetic blocks can be positioned any place along the 24" stainless steel cutting rail to accommodate any cutting job. The magnetic blocks are slotted on three (3) sides and are tightened with 10-24 thumb screws allowing a variety of configurations on the cutting rail. 24" extensions available that allow you to add all the length you need for those special cutting jobs. The cutting guide is stainless steel and works with conventional or plasma torches.







Magnetic Blocks (2 to a set)/ With New ON/OFF Magnet

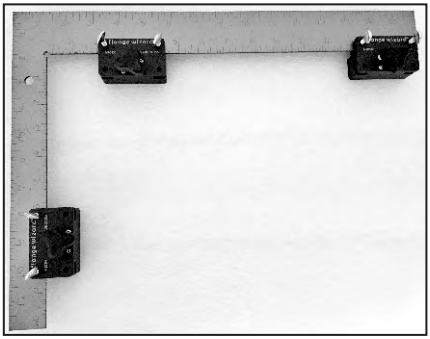
Item # MSB202

Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet block in "OFF" position when not in use.

*** Individual blocks available Item # MSB201**

These 60 lb. magnetic support blocks can be attached to any standard square or straight edge up to 3/16" thick to form your own burning guide. The blocks are slotted on (3) sides and are tightened with 10-24 thumb screws making the tool much more versatile than ever before.

The ON/OFF switch makes setting up easy and keeps the blocks free from debris.



Make your own flange square.

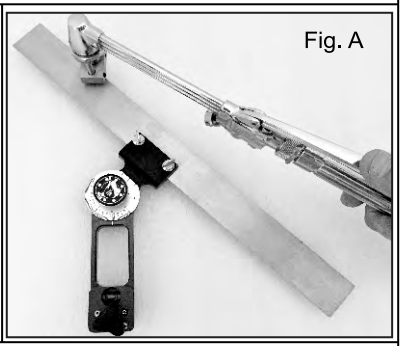
Multi-Use Angle Burning Guide/ With New ON/OFF Magnet

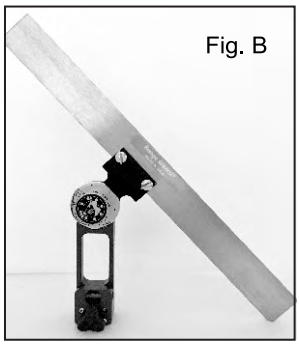
Item #ABG750

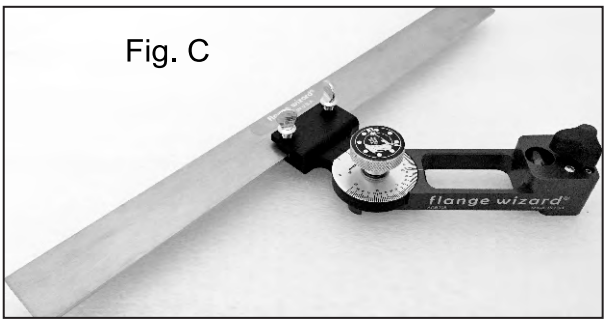
Warning: Excessive heat can damage the magnets. Keep magnet block away from sensitive electronic devices. Keep magnet block in "OFF" position when not in use.

Stainless Steel Rail size: 1/8" x 1-1/2" W x 16" L

This tool features a 90 lb. pull ON/OFF magnet for a superior hold either horizontal or vertical (Fig. A & D). This new technology is a must for every tradesman who uses a conventional or plasma torch and wants an excellent angle or straight cut every time. It can also be **used as a protractor** (Fig. B) **or as a multi-angle tri-square** (Fig. C). The Angle Burning Guide will hold any standard square as well as most straight edges up to 3/16" thick (Fig. D). Special squaring and marking jobs are a snap with your new multi-use tool.







Wizard Pipe Wraps (pipe wrap-arounds)

Item #'s

WW-16
-small 1" to 6" pipe
(30" L x 2-5/8" W)

WW-17
-medium 2" to 16 " pipe
(60" L x 3-7/8" W)

WW-17A
-large 6" to 30" pipe
(120" L x 5-1/4" W)

WW-19
-Ex-large 12" to 48" pipe
180" L x 7" W

CUSTOM WRAPS
Special order lengths (sold by the foot) and widths are available:

WW-18
- 5-1/4" wide x any length

WW-18A
- 7" wide x any length

*NOTE: Custom Wraps are not screened.

Max length 540 ft. long

Special order length formula:
L = 5 x diameter

Wizard Pipe Wrap is made from a non-asbestos, heat resistant material. Edges are sanded and straight for easier more accurate marking.

Exclusive features include:

- 28" tape measure on the **small Wizard Pipe Wrap.**
- 36" tape measure printed on the **medium & large Wizard Pipe Wraps.**
- 48" tape measure printed on the **Extra Large Wizard Pipe Wrap.**

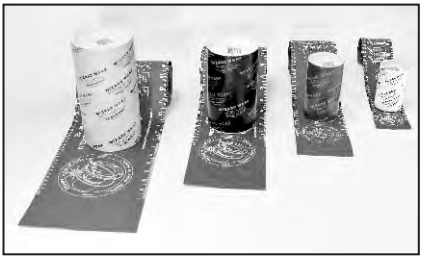
This limits the need for an extra tape measure, and makes mark-up easier.

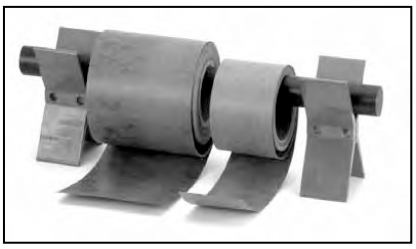
- "Circumference & Quartering" scale printed on every small, medium and large Wizard Pipe Wrap.

This limits the need for calculations because the exact circumference, ¼, ½ and ¾ of the circumference, plus the actual pipe diameter for 2" through 30" pipe is printed on the outside of the Wizard Pipe Wrap.

- Packaged in a durable, reusable container that will hold up in your toolbox.
- Oil, gasoline, kerosene, water and sea water resistant.

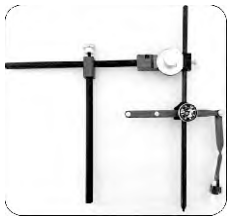
* **New** one degree decimal equivalent scales on all wraps.





Miter Marker & Imager Combo

Item #
MMC505



Combo Case

Two Complete Tools in One Case

Miter Marker Arm Assembly #MSA505
(size range 1-1/2" to 18" pipe & 18 " structural beams)

AND

Multi-Hole Imager Tower Assembly #MHA515
(for elongated holes in plate or ellipse holes in pipe
at any angle up to 18" in diameter)

Both With 150 lb. Pull OFF/ON Magnetic Body

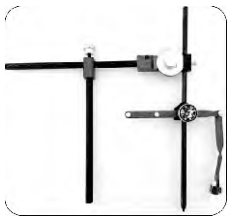
flange wizard®'s pipe layout tools are now designed using the newest OFF/ON magnetic technology. **Replace multiple templates just with one tool.** (Carrying Case # 8900)

*A **Spring Buckle Strap #5010** is available to hold base tight on **non-magnetic** work materials.

*Instruction Guides Included

Master Maker & Imager Combo

Item #
MMC510



Combo Case

Two Complete Tools in One Case

Master Marker Arm Assembly #MLA510
(size range 8" to 48" pipe & 48 " structural beams)

AND

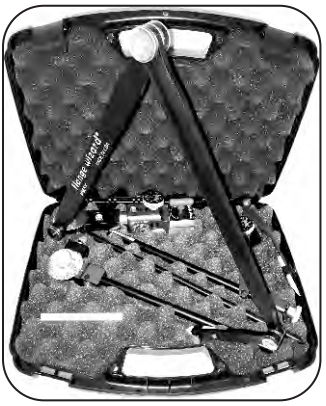
Multi-Hole Imager Tower Assembly #MHA515
(for elongated holes in plate or ellipse holes in pipe
at any angle up to 18" in diameter)

Both With 150 lb. Pull OFF/ON Magnetic Body

flange wizard®'s pipe layout tools are now designed using the newest OFF/ON magnetic technology. **Replace multiple templates just with one tool.** (Carrying Case # 8900)

*A **Spring Buckle Strap #5010** is available to hold base tight on **non-magnetic** work materials.

*Instruction Guides Included



Pipe Magician Case

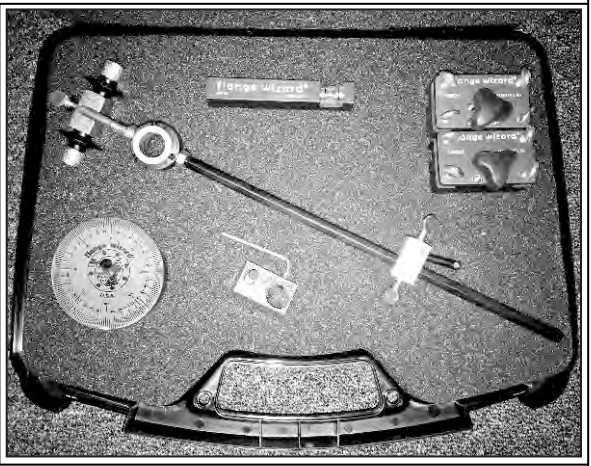
Item # 8905

A person who works with pipe needs the finest tools available and a way to protect them when not in use. The four (4) quality tools in this case are a must when working with pipe.
Case # 8900 (15"L x 10"W x 3-1/2" Deep) includes:
1 - **Pipe Flange Aligner** # 38240-T,
1 - **Medium Magnetic Centering Head** # 53076-M
1 - **Pocket Pro Level** # PP-200
1 - **Small Wizard Pipe Wrap** # WW-16
1 - Flange Wizard Tools Catalog
1 - **FREE BONUS Vial Repair Kit** # 5102

Wizard Burning Guides

Item # 8910

Case # 8900 (15"L x 10"W x 3-1/2" Deep) includes:
1 – **Chariot Cutting Guide** #24219-11 (will cover straight and radius cuts along with hole burning from 5/8" to 25" diameter.
1 – **Magnetic Base w/Straight Pin** #3100 (for larger holes and radiuses
2 – **Magnetic Blocks** #MSB202 (great for clamping on squares and straight edges)
1 – **Magnetic Tape Holder** #89754 (third hand when working alone)
1 - Flange Wizard Tools Catalog
1 – **FREE BONUS Torch Tip Standoff** #70501 (protects torch tip end by controlling the distance from the material)



Lil' Wiz Case

Item # 8915

This is a great kit for anyone who burns holes (5/8" to 10" dia.) in pipe, plate or structural steel
Case #8901 (10"L x 8"W x 3" Deep) includes:
1 – **Circle Wiz** # CW-300
1 – **Combo Degree Level** #L-2 (pocket size, magnetic, with 2-1/2° increments)
1 – **Small Magnetic Centering Head** #53025-M (marks any degree needed around circumference of a bar or pipe)
1 – **Magnetic Tape Holder** # 89754 (third hand when working alone)
1 – Flange Wizard Tools Catalog
1 – **FREE BONUS Vial Repair Kit** # 5102

Pipe Magician Case

Item # 8905-M

A person who works with pipe needs the finest tools available and a way to protect them when not in use. The four (4) quality tools in this case are a must when working with pipe.
Case # 8900 (15"L x 10"W x 3-1/2" Deep) includes:
1 - **Magnetic Pipe Flange Aligner** # 38240-MAK
1 - **Medium Magnetic Centering Head** # 53076-M
1 – **Pocket Pro Level** # PP-200
1 – **Small Wizard Pipe Wrap** # WW-16
1 – Flange Wizard Tools Catalog
1 - **FREE BONUS Vial Repair Kit** # 5102

Wizard Plasma Burning Guides

Item # 8910-P

Case # 8900 (15"L x 10"W x 3-1/2" Deep) includes:
1 – **Plasma Cutting Guide** #PG-601-11 (will cover straight and radius cuts along with hole burning from 5/8" to 25" diameter.
1 – **Magnetic Base w/Straight Pin** #3100 (for larger holes and radiuses
2 – **Magnetic Blocks** #MSB202 (great for clamping on squares and straight edges)
1 – **Magnetic Tape Holder** #89754 (third hand when working alone)
1 - Flange Wizard Tools Catalog

NOTE: Special bushing to fit your plasma torch must be specified when ordering.

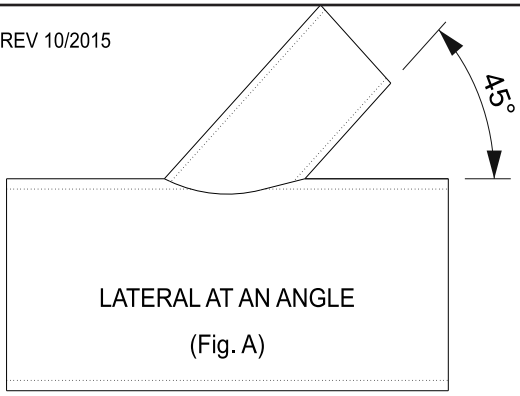
Lil' Wiz Plasma Case

Item # 8915-P

This is a great kit for anyone who burns holes (5/8" to 10" dia.) in pipe, plate or structural steel.
Case #8901 (10"L x 8"W x 3" Deep) includes:
1 – **Plasma Wiz** # 30061-1.xxxx
1 – **Combo Degree Level** #L-2 (pocket size, magnetic, with 2-1/2° increments)
1 – **Small Magnetic Centering Head** #53025-M (marks any degree needed around circumference of a bar or pipe)
1 – **Magnetic Tape Holder** # 89754 (third hand when working alone)
1 – Flange Wizard Tools Catalog
1 – **FREE BONUS Vial Repair Kit** # 5102

NOTE: Special bushing to fit your plasma torch must be specified when ordering.

REV 10/2015



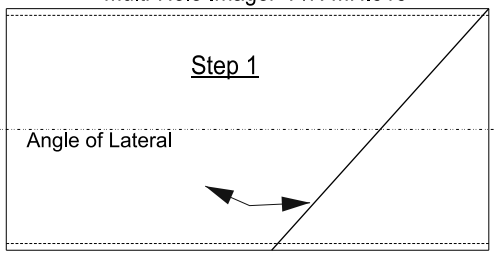
LATERAL AT AN ANGLE

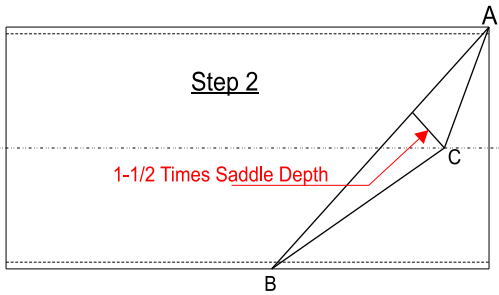
(Fig. A)

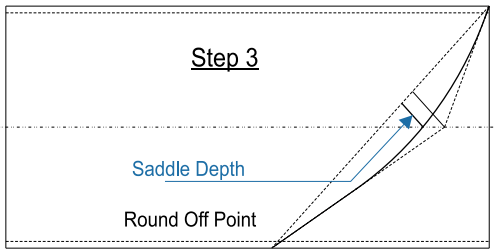
To layout a Lateral at an angle (Fig. A),

Set the Miter Marker to the angle of the lateral and mark a line around the pipe as shown in step 1. At a right angle to this line, scribe a line equal to 1-1/2 times the saddle depth. This point must be on the pipe centerline as shown in step 2. Mark the lines A-C and B-C. Lay off the saddle depth and round off the point as shown in step 3.

To mark the opening in the larger pipe use our Multi-Hole Imager P/N MHI515







LATERAL PIPE SIZE (Small Pipe)

MAIN TRUNK LINE (Large Pipe)

flange wizard®
Pipe Saddle Chart
Reg. No 1,015,681

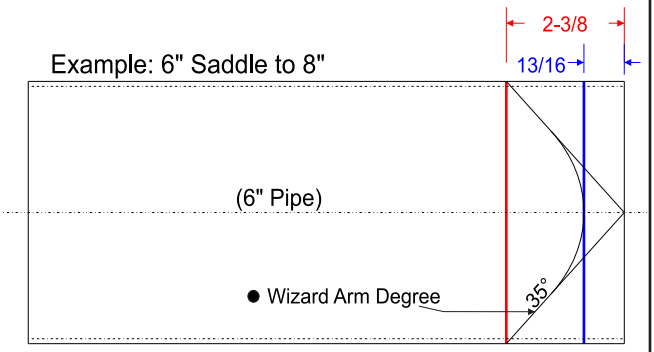
flange wizard® inc. USA "welders choice for quality"

Main Trunk Line (Large Pipe)	2-3/8	3-1/2	4-1/2	6-5/8	8-5/8	10-3/4	12-3/4	14	16	18	20	24
2-3/8	45° 1-3/16 3/8											
3-1/2	35° 3/4 1/4	45° 1-3/4 9/16										
4-1/2	30° 9/16 3/16	35° 1-5/16 7/16	45° 2-1/4 3/4									
6-5/8	20° 3/8 1/8	30° 3/4 1/4	30° 1-5/16 7/16	45° 3-5/16 1-1/8								
8-5/8	15° 5/16 1/8	20° 9/16 3/16	25° 15/16 5/16	35° 2-3/8 13/16	45° 4-5/16 1-7/16							
10-3/4	10° 1/4 1/16	15° 15/32 3/16	20° 3/4 1/4	28° 1-3/4 9/16	38° 3-5/16 1-1/8	45° 5-3/8 1-13/16						
12-3/4	5° 3/16 1/16	10° 3/8 1/8	15° 11/16 1/4	25° 1-7/16 1/2	30° 2-9/16 7/8	40° 4-7/16 1-1/2	45° 6-3/8 2-1/8					
14		10° 3/8 1/8	10° 9/16 3/16	22° 1-5/16 7/16	28° 2-1/4 3/4	35° 3-3/4 1-1/4	42° 6-3/16 2-1/16	45° 7 2-3/8				
16			10° 1/2 3/16	20° 1-1/8 3/8	22.5° 1-7/8 5/8	30° 3-1/16 1	35° 4-13/16 1-5/8	40° 6-3/16 2-1/16	45° 8 2-11/16			
18			10° 1/2 3/16	17° 15/16 5/16	22° 1-11/16 9/16	27.5° 2-3/4 15/16	30° 4 3-5/16	35° 5-1/16 1-11/16	42.5° 7-5/16 2-7/16	45° 9 3		
20			8° 3/8 1/8	13° 7/8 5/16	18° 1-1/2 1/2	25° 2-3/8 15/16	28° 3-1/2 1-3/16	30° 4-5/16 1-7/16	38° 6 2	42.5° 8-7/16 2-13/16	45° 10 3-3/8	
24			8° 3/8 1/8	12° 3/4 1/4	15° 1-1/4 7/16	20° 2 11/16	22.5° 2-13/16 15/16	25° 3-3/8 1-1/8	30° 4-5/8 1-9/16	30° 6-1/8 2-1/16	40° 8-1/16 2-11/16	45° 12 4

(Note: All figures rounded to the nearest 1/32")

● Wizard Arm Degree ● Saddle Depth x 1.5 ● Tip Round Off

Example: 6" Saddle to 8"



Example shown:
2-3/8" - 13/16" = 1-9/16" Actual Saddle Depth

PRODUCT WARRANTY TO END USERS

Flange Wizard® Inc. stands behind the manufacturing quality of all its tools. All products are warranted for one (1) year from date of purchase by end user. Coverage includes manufacturing workmanship and normal use of tool within the scope of tool's design.

*Instructional Videos available online

MADE IN THE U.S.A.

Manufacturers of:

- Pipe Flange Aligners (3 models)
- Two Hole Pins (7 models)
- Radius Markers (3 models)
- Circle Cutting Guides (5 models)
- Pocket Pro Level • Standard Pocket Level
- Magnetic Torch Guides
- Wizard Wrap Arounds (4 models)
- Centering Head Tools (3 models)
- Master Marker
- Miter Marker • Multi-Hole Imager
- Plasma Burning Guides (2 models)

flange wizard® inc.

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