



OTTO ARC

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HIGH PERFORMANCE

ORBITAL WELDING

ORBITAL WELDING

ORBITAL WELDING

BEVELING

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OTTO ARC
BEVELING PRODUCTS

OTTO ARC SYSTEMS, INC | SUMMER 2011

800-878-2487



OTTO ARC

INTRODUCTION

Otto Arc Systems, Inc. formerly Otto Tool, has been in business for over 22 yrs. We have been in the beveling and facing (squaring) equipment business since the day we opened and have been expanding our product lines ever since.

For 2011 we are most excited about expanding our orbital welding line of products. We have been working persistently to build our machine specifications as the best on the market, which includes a full line of fusion, open weld heads and tube to tube sheet orbital welding equipment.

Also, this year we have changed our catalog layout to only one catalog with all three of our product lines combined - welding, beveling and squaring. Our new catalog will present to you how our company has grown over the years and the wide array of products we have to offer.

At Otto Arc we are always making sure our clients are well taken care of- **that is our first priority.** We are always attentive to new market trends and believe that feed back from our customers has placed our company on the map. We assist our clients by listening to their needs and then delivering to them the best options, service and products available for their business.

Thank you for your time and consideration, please do not hesitate to contact us with any questions you may have.

Sincerely,

Alan Avis
President, Otto Arc Systems, Inc.

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CONTACT US!

For other power requirements, quotes or questions please contact us at 1-800-878-BITS (2487)

2011 PRODUCT DEFINITIONS FOR OTTO ARC BEVELING MACHINES

PREMIUM BULLDOG LINE

Our **PREMIUM LINE** of tools offers a worm gear drive unit, which offers more contact between the connecting gears. This will allow the machine to bevel heavier wall thickness over 1" (25.4mm) compared to other beveling machines on the market.

The main body is machined from solid blocks, and the mandrel blades are secured into the mandrel, requiring no springs to hold them on. Our machines also have three tool blocks, which will assist in beveling, facing and counter boring all at the same time.

FACING COLLETS / TOOL BITS

Tool bits are designed to work on the following materials: mild steels, chrome steels (35 Rc. Max), stainless steel, copper-nickel, inconel, aluminum and alloys.

MOTORS

- Electric models supplied to U.S. Market are 110V-60Hz single phase
- Outside the U.S. Market electric models are 220V-50Hz single phase
- Air motors (made in the USA)

All Beveling Machine Kits Include:

- Machine
- Mandrel and Ramps with complete size range
- Tool Bits (2)
- Tooling
- Manual
- Case

1 YEAR WARRANTY

FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE THIS MACHINE IS UNDER WARRANTY. THIS DOES NOT INCLUDE TOOL BITS OR OTHER CONSUMABLE ITEMS.

WARRANTY DOES NOT APPLY IF:

- 1) REPAIRS OR ATTEMPTED REPAIRS HAVE BEEN MADE BY PERSONS OTHER THAN OTTO ARC PERSONAL, OR AUTHORIZED SERVICE REPAIR PERSONEL.
- 2) REPAIRS ARE REQUIRED BECAUSE OF NORMAL WEAR.
- 3) THE TOOL HAS BEEN ABUSED OR INVOLVED IN AN ACCIDENT.
- 4) MISUSE IS EVIDENT, SUCH AS CAUSED BY OVERLOADING THE TOOL BEYOND ITS RATED CAPACITY. THE TOOL HAS BEEN USED AFTER PARTIAL FAILURE, OR THE TOOL HAS BEEN USED WITH AN IMPROPER ACCESSORY.
- 5) MOTOR WILL NOT BE COVERED IF DAMAGE IS CAUSED BY NOT USING OILER/MISTER WHILE USING.



FOR OTHER POWER REQUIREMENTS OR PRODUCT SPECIFICATIONS CALL 1-800-878-BITS (2487)

OTTO ARC BEVELING

BEVELING TOOL | PBM-2500 (0.50"- 2.5" Pipe) 12.7mm - 63.5mm

ID MOUNT / AIR OR ELECTRIC

The PBM-2500 machine is light weight, just 13 lbs. and is designed to bevel boiler tubes. The tool bits are held in by our optional wedge lock system.



The torque accepting mandrel with lock in blades (no springs) easily stops any pieces from dropping down into the boiler tube. Our gear

drive unit has spiral bevel gears for better torque (more teeth engagement, compared to standard straight gears that other competitors use).

PERFORMANCE:

- Lock in mandrel blades (no springs to lose)
- Adjustable keyway on machine and mandrel (eliminates backlash and chatter)
- .75 hp pneumatic motor
- 13 lbs. approximate working weight
- Hardened mandrel 55 Rc. (less chance of gouging with metal chips)
- Tool bit is held in by our wedge lock system (keeps the tool bit locked in the cutter head to ensure chatter free bevels)
- Single mandrel with mandrel blades to cover size ranges

TECHNICAL SPECS:

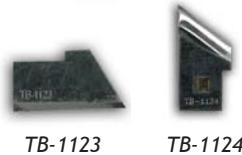
- Size range 0.50" to 2.5" (12.7 mm - 63.5 mm)
- Max wall thickness to 0.50"
- Air Power requirements: 55 cfm at 90 psi.



PBM-2500 with Air Motor



PBM-2500 with Electric Motor



TB-1123

TB-1124

PART NUMBERS / ORDER INFO:

PBM-2500 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| | |
|---|------------------------|
| PBM-2500 Kit with Electric 110v Motor | P/N: PBM-2500-10-E |
| PBM-2500 Kit with Electric 230v Motor | P/N: PBM-2500-10-E-230 |
| PBM-2500 Kit with Air Motor | P/N: PBM-2500-10 |
| 1/2" to 1" Mandrel | P/N: PBM-2590 |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---------------------------------------|
| TB-1122 | 37.5 degree heavy duty bevel bit |
| TB-1123 * | Facing bit |
| TB-1124 * | 37.5 degree bevel bit |
| TB-1125 | 30 degree heavy duty bevel bit |
| TB-1128 | 25 degree "J" bevel bit (upper range) |
| TB-1128L | 25 degree "J" bevel bit (lower range) |

* Tool bits that are included in machine kit.

For PBM-2500 accessories, please visit our website or contact our sales department for further assistance.

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BEVELING TOOL | PBM-4500 (1.25" - 4" Pipe) 31.75mm - 101.6mm

ID MOUNT / AIR OR ELECTRIC

The PBM-4500 machine comes with a torque accepting mandrel, built with a worm gear drive unit for extra torque to handle extra thick pipe walls. This machine can bevel, face, and counter-bore 1" wall - worry free from damaging the gears.



**BUILT WITH A WORM GEAR DRIVE UNIT FOR EXTRA TORQUE!
EXPANDABLE FROM .625" TO 6"!**



PERFORMANCE:

- Lock in mandrel blades (no springs to lose)
- Adjustable keyway on machine and mandrel (eliminates backlash and chatter)
- 1 hp pneumatic motor
- 31 lbs. approximate working weight
- Hardened mandrel 55 Rc. (less chance of gouging with metal chips)
- Three slots to do beveling, facing, deburring or counter-boring
- Single mandrel with mandrel blades to cover size ranges

TECHNICAL SPECS:

- Size range 1.25" to 4" Pipe (31.74 mm -101.6 mm)
- Max wall thickness to 1"
- Air Power requirements: 70 cfm at 90 psi.

PART NUMBERS / ORDER INFO:

PBM-4500 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| | |
|---|------------------------|
| PBM-4500 Kit with Electric 110v Motor | P/N: PBM-4500-10-E |
| PBM-4500 Kit with Electric 230v Motor | P/N: PBM-4500-10-E-230 |
| PBM-4500 Kit with Air Motor | P/N: PBM-4500-10 |
| .625" to 1.25" Mandrel | P/N: PBM-4590 |
| 1.25" to 4" Standard Mandrel | P/N: PBM-0490 |
| 2" to 6" Mandrel | P/N: PBM-0491 |
| 2" to 6" Extension Mandrel Kit | P/N: PBM-4500-EXT |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

ELBOW MANDREL FOR PBM-4500

| | |
|----------------|------------------|
| Range 2"- 2.5" | P/N: EB-4500-2 |
| Range 2.5"- 3" | P/N: EB-4500-2.5 |
| Range 3"- 4" | P/N: EB-4500-3 |
| Range 4"- 5" | P/N: EB-4500-4 |
| Range 5"- 6" | P/N: EB-4500-5 |
| Range 6"- 7" | P/N: EB-4500-6 |

CUTTER HEAD FOR PBM-4500

| | |
|----------------|-----------------|
| 4" Cutter Head | P/N: PBM-0466-A |
| 6" Cutter Head | P/N: PBM-0467-A |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---|
| TB-0167 | 37.5 degree bevel bit 1.25" to 2" pipe |
| TB-0333 * | 37.5 degree bevel bit 2" to 3.5" pipe |
| TB-0944 | 37.5 degree bevel bit 3" to 4" pipe |
| TB-0333-1 | 37.5 degree heavy bevel bit 2" to 3.5" pipe |
| TB-3030 | 30 degree bevel bit (lower range) |
| TB-3035 | 30 degree bevel bit (upper range) |
| TB-1273 | 45 degree bevel bit (lower range) |
| TB-1274 | 45 degree bevel bit (upper range) |
| TB-2566 | 25.5 degree "J" bevel bit (lower range) |

* Tool bits that are included in machine kit.

| Part Number | Description |
|-------------|---|
| TB-2567 | 25.5 degree "J" bevel bit (upper range) |
| TB-2568 | 20 degree "J" bevel bit (lower range) |
| TB-2569 | 20 degree "J" bevel bit (upper range) |
| TB-0169 | Facing bit .750" tall for 1" to 2" pipe |
| TB-0257 * | Facing bit .875" tall for 2" to 3" pipe |
| TB-0258 | Facing bit 1" tall for 3" to 4" pipe |
| TB-0168 | 4 degree chamfer bit |
| TB-412-01 | 10 degree counterbore bit (lower range) |
| TB-412-02 | 10 degree counterbore bit (upper range) |

For PBM-4500 accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | PBM-6000 (2" - 6" Pipe) 50.8mm - 152.4mm

**BUILT WITH A WORM GEAR DRIVE UNIT FOR EXTRA TORQUE!
EXPANDABLE FROM 2" TO 8"!**

ID MOUNT / AIR OR ELECTRIC

The PBM-6000 machine comes with a torque accepting mandrel, built with a worm gear drive unit for extra torque to handle extra thick pipe walls.



This machine can bevel, face, and counter-bore 1.25" wall - worry free from damaging the gears.

PERFORMANCE:

- Lock in mandrel blades (*no springs to lose*)
- Adjustable keyway on machine and mandrel (*eliminates backlash and chatter*)
- 2 hp pneumatic motor
- 52 lbs. approximate working weight
- Hardened mandrel 45 Rc. (*less chance of gouging with metal chips*)
- Three slots to do beveling, facing, deburring or counter-boring
- Single mandrel with mandrel blades to cover size ranges

TECHNICAL SPECS:

- Size range 2" to 6" Pipe (50.8 mm - 152.4 mm)
- Max wall thickness to 1.25"
- Air Power requirements: 70 cfm at 90 psi.

PBM-6000



TB-2904



TB-2906

PART NUMBERS / ORDER INFO:

| PBM-6000 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case | |
|--|------------------------|
| PBM-6000 Kit with Electric 110v Motor | P/N: PBM-6000-10-E |
| PBM-6000 Kit with Electric 230v Motor | P/N: PBM-6000-10-E-230 |
| PBM-6000 Kit with Air Motor | P/N: PBM-6000-10 |
| 2" to 6" Standard Mandrel | P/N: PBM-8920 |
| 3" to 8" Extension Mandrel Kit | P/N: PBM-8925 |
| 3" to 8" Mandrel | P/N: PBM-8912 |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---------------------------------------|
| TB-2905 | 37.5 degree bevel bit (lower range) |
| TB-2906 * | 37.5 degree bevel bit (upper range) |
| TB-2930 | 30 degree bevel bit (lower range) |
| TB-2931 | 30 degree bevel bit (upper range) |
| TB-2913 | 45 degree bevel bit (lower range) |
| TB-2914 | 45 degree bevel bit (upper range) |
| TB-2915 | "J" bevel bit (lower range) 25 Degree |
| TB-2916 | "J" bevel bit (upper range) 25 Degree |
| TB-2904 * | Facing bit |
| TB-2907 | C-Bore 14.5 degree (lower range) |
| TB-2908 | C-Bore 14.5 degree (middle range) |
| TB-2909 | C-Bore 14.5 degree (upper range) |
| TB-2910 | C-Bore 10 degree (lower range) |
| TB-2911 | C-Bore 10 degree (middle range) |
| TB-2912 | C-Bore 10 degree (upper range) |

* Tool bits that are included in machine kit.

For PBM-6000 accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | PBM-8000 (3" - 8" Pipe) 76.2mm - 203.2mm

**BUILT WITH A WORM GEAR DRIVE UNIT FOR EXTRA TORQUE!
EXPANDABLE FROM 2" TO 10"!**

ID MOUNT / AIR OR ELECTRIC

The PBM-8000 machine comes with a torque accepting mandrel, built with a worm gear drive unit for extra torque to handle extra thick pipe walls. This machine **can bevel, face, and counter-bore** 1.25" wall.



PERFORMANCE:

- Additional 10" extension kit
- Lock in mandrel blades (*no springs to lose*)
- Adjustable keyway on machine and mandrel (*eliminates backlash and chatter*)
- 2 hp pneumatic motor
- 66 lbs. approximate working weight
- Hardened mandrel 45 Rc. (*less chance of gouging with metal chips*)
- Three slots to do beveling, facing, deburring or counter-boring
- Single mandrel with mandrel blades to cover size ranges

TECHNICAL SPECS:

- Size range 3" to 8" Pipe (76.2 mm - 203.2mm)
- Max wall thickness to 1.25"
- Air Power requirements: 70 cfm at 90 psi.

PBM-8000



TB-2904



TB-2906

PART NUMBERS / ORDER INFO:

PBM-8000 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| | |
|---|------------------------|
| PBM-8000 Kit with Electric 110v Motor | P/N: PBM-8000-10-E |
| PBM-8000 Kit with Electric 230v Motor | P/N: PBM-8000-10-E-230 |
| PBM-8000 Kit with Air Motor | P/N: PBM-8000-10 |
| 2" to 6" Mandrel | P/N: PBM-8920 |
| 3" to 8" Standard Mandrel | P/N: PBM-8912 |
| 4" to 10" Mandrel | P/N: PBM-8921 |
| 10" Extension Mandrel Kit | P/N: PBM-8000-EXT |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---------------------------------------|
| TB-2905 | 37.5 degree bevel bit (lower range) |
| TB-2906 * | 37.5 degree bevel bit (upper range) |
| TB-2930 | 30 degree bevel bit (lower range) |
| TB-2931 | 30 degree bevel bit (upper range) |
| TB-2913 | 45 degree bevel bit (lower range) |
| TB-2914 | 45 degree bevel bit (upper range) |
| TB-2915 | "J" bevel bit (lower range) 25 Degree |
| TB-2916 | "J" bevel bit (upper range) 25 Degree |
| TB-2904 * | Facing bit |
| TB-2907 | C-Bore 14.5 degree (lower range) |
| TB-2908 | C-Bore 14.5 degree (middle range) |
| TB-2909 | C-Bore 14.5 degree (upper range) |
| TB-2910 | C-Bore 10 degree (lower range) |
| TB-2911 | C-Bore 10 degree (middle range) |
| TB-2912 | C-Bore 10 degree (upper range) |

* Tool bits that are included in machine kit.

For PBM-8000 accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | PBM-12000 (6" - 12" Pipe) 152.4mm - 304.8mm

ID MOUNT / AIR OR ELECTRIC

The PBM-12000 machine comes with a torque accepting mandrel, built with a worm gear drive unit for extra torque to handle extra thick pipe walls. This machine can **bevel, face, and counter-bore** 1.25" wall.



PBM-12000



TB-2904



TB-2906

PERFORMANCE:

- Lock in mandrel blades (*no springs to lose*)
- Adjustable keyway on machine and mandrel (*eliminates backlash and chatter*)
- 3hp pneumatic motor
- 78 lbs. approximate working weight
- Hardened mandrel 55 Rc. (*less chance of gouging with metal chips*)
- Three slots to do beveling, facing, deburring or counter-boring
- Single mandrel with mandrel blades to cover size ranges



TECHNICAL SPECS:

- Size range 6" to 12" Pipe (152.4 mm - 304.8mm)
- Max wall thickness to 1.25"
- Air Power requirements: 70cfm at 90psi

PART NUMBERS / ORDER INFO:

PBM-12000 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| | |
|---|----------------------|
| PBM-12000 Kit with Electric 110v Motor | P/N: PBM-12-10-E |
| PBM-12000 Kit with Electric 230v Motor | P/N: PBM-12-10-E-230 |
| PBM-12000 Kit with Air Motor | P/N: PBM-12-10 |
| 3" to 8" Mandrel | P/N: PBM-8912 |
| 6" to 12" Standard Mandrel | P/N: PBM-1202 |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

CUTTER HEAD FOR PBM-12000

| | |
|-----------------|---------------|
| 12" Cutter Head | P/N: PBM-6080 |
|-----------------|---------------|

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---------------------------------------|
| TB-2905 | 37.5 degree bevel bit (lower range) |
| TB-2906 * | 37.5 degree bevel bit (upper range) |
| TB-2930 | 30 degree bevel bit (lower range) |
| TB-2931 | 30 degree bevel bit (upper range) |
| TB-2913 | 45 degree bevel bit (lower range) |
| TB-2914 | 45 degree bevel bit (upper range) |
| TB-2915 | "J" bevel bit (lower range) 25 Degree |
| TB-2916 | "J" bevel bit (upper range) 25 Degree |
| TB-2904 * | Facing bit |
| TB-2907 | C-Bore 14.5 degree (lower range) |
| TB-2908 | C-Bore 14.5 degree (middle range) |
| TB-2909 | C-Bore 14.5 degree (upper range) |
| TB-2910 | C-Bore 10 degree (lower range) |
| TB-2911 | C-Bore 10 degree (middle range) |
| TB-2912 | C-Bore 10 degree (upper range) |

* Tool bits that are included in machine kit.

For PBM-12000 accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | PBM-1224 (12" - 24" Pipe) 304.8mm - 609.6mm

ID MOUNT / AIR OR ELECTRIC

The PBM-1224 machine comes with a torque accepting mandrel, built with a worm gear drive unit for extra torque to handle extra thick pipe walls.



This machine can **bevel, face, and counter-bore** 1.25" wall.



PBM-1224

PERFORMANCE:

- Lock in mandrel blades (*no springs to lose*)
- Adjustable keyway on machine and mandrel (*eliminates backlash and chatter*)
- 3hp pneumatic motor
- 260 lbs. approximate working weight
- Hardened mandrel 55 Rc. (*less chance of gouging with metal chips*)
- Three slots to do beveling, facing, deburring or counter-boring
- Single mandrel with mandrel blades to cover size ranges



TB-2904



TB-2906

PART NUMBERS / ORDER INFO:

PBM-1224 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| | |
|---|----------------------|
| PBM-1224 Kit with Electric 110v Motor | P/N: PBM-24-10-E |
| PBM-1224 Kit with Electric 230v Motor | P/N: PBM-24-10-E-230 |
| PBM-1224 Kit with Air Motor | P/N: PBM-24-10 |
| Air Caddy - Includes air regulator, filter and oil mister | P/N: PBM-AF |

TECHNICAL SPECS:

- Size range 12" to 24" Pipe (152.4 mm - 609.6mm)
- Max wall thickness to 1.25"
- Air Power requirements: 70cfm at 90psi

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|---------------------------------------|
| TB-2905 | 37.5 degree bevel bit (lower range) |
| TB-2906 * | 37.5 degree bevel bit (upper range) |
| TB-2930 | 30 degree bevel bit (lower range) |
| TB-2931 | 30 degree bevel bit (upper range) |
| TB-2913 | 45 degree bevel bit (lower range) |
| TB-2914 | 45 degree bevel bit (upper range) |
| TB-2915 | "J" bevel bit (lower range) 25 Degree |
| TB-2916 | "J" bevel bit (upper range) 25 Degree |
| TB-2904 * | Facing bit |
| TB-2907 | C-Bore 14.5 degree (lower range) |
| TB-2908 | C-Bore 14.5 degree (middle range) |
| TB-2909 | C-Bore 14.5 degree (upper range) |
| TB-2910 | C-Bore 10 degree (lower range) |
| TB-2911 | C-Bore 10 degree (middle range) |
| TB-2912 | C-Bore 10 degree (upper range) |

* Tool bits that are included in machine kit.

For PBM-24000 accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | SPLIT FRAME SP 3-30 (1" - 30" Pipe) 25.4mm - 762mm

OD MOUNT / AIR OR ELECTRIC



Our precision OD Mount Machines are designed to operate in tight areas. This allows easy weld setup that is critical to pipe welding operations. Our Split Frame Machine can do both cut-off and end prep at the same time. We offer tool bits for Standard & Compound Beveling to fit your requirements.

Our precision OD Mount Machines are designed to operate in tight areas. This allows easy weld setup that is critical to pipe welding operations. Our Split Frame Machine can do both cut-off and end prep at the same time. We offer tool bits for Standard & Compound Beveling to fit your requirements.

Beveling is done by cold cutting methods and can be used in areas where thermal cutting is unacceptable. These machines will produce machine type finishes without causing heat affected zones. The Otto Tool Bulldog Line of Split Frame Machines are easy to set up with self-centering mounting pads, saving time on labor when down time is a critical issue.

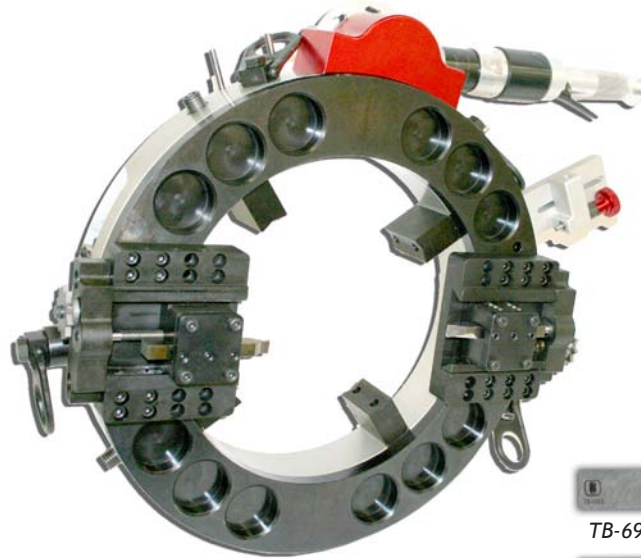
Our Split Frame Machines offer four types of power units- Pneumatic, Electric, NC Servo w/Remote Control and Hydraulic Power w/Remote Control, for complete speed control and power.

PERFORMANCE:

- High performance electric motor allows the torque required to bevel from 1" to 30" pipe.
- The motors contain specially designed reduction gears the help increase the torque while reducing the speed of the electric motor.
- Various RPM rates are available to meet different range requirements.

TECHNICAL SPECS:

For further information on machine specifications, please contact us.



SP24 with Air Motor



TB-6953

TB-6958

PART NUMBERS / ORDER INFO:

SP 3-30 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

ELECTRIC (110v or 230v Motor)

| | |
|----------------------|----------------|
| SP6 Kit (2" - 6") | P/N: SP6-10-E |
| SP12 Kit (6" - 12") | P/N: SP12-10-E |
| SP18 Kit (12" - 18") | P/N: SP18-10-E |
| SP24 Kit (18" - 24") | P/N: SP24-10-E |

Note: for 230v motor please add 230 on to part number (ex: SP3-10-E-230)

Note: for sizes above 12" please see our Split Frame with the Servo Motor on the following page

AIR

| | |
|---|--------------|
| SP6 Kit (2" - 6") | P/N: SP6-10 |
| SP12 Kit (6" - 12") | P/N: SP12-10 |
| SP18 Kit (12" - 18") | P/N: SP18-10 |
| SP24 Kit (18" - 24") | P/N: SP24-10 |
| SP30 Kit (24" - 30") | P/N: SP30-10 |
| Air Caddy - includes air regulator, filter and oil mister | P/N: PBM-AF |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|----------------------------------|
| TB-6950 | 30 degree bevel bit |
| TB-6951 | 37.5 degree bevel bit |
| TB-6952 | 30 degree right hand bevel bit |
| TB-6953 * | 37.5 degree right hand bevel bit |
| TB-6954 | 30 degree left hand bevel bit |
| TB-6955 | 37.5 degree left hand bevel bit |
| TB-6956 | 10/30 degree compound bevel bit |
| TB-6957 | Sever bit (left hand) |
| TB-6958 * | Sever bit (right hand) |
| TB-6959 | Sever double bevel bit |

* Tool bits that are included in machine kit.

For SP accessories, please visit our website or contact our sales department for further assistance.

BEVELING TOOL | SPLIT FRAME SP 18-48 (18" - 48" Pipe) 457.2mm - 1219.2mm

OD MOUNT / HYDRAULIC OR NC SERVO MOTOR



TECHNICAL SPECS FOR HYDRAULIC MOTOR:

Rated Pressure: P=16 Mpa
 Rated Flux: Q=25L/min
 Hyd Motor Rate: n=200r/min

Output Torque: M=206N.M
 Electric Motor Power N=5KW
 Electric Motor Rate: n=1450r/min
 Timing Range: 0 - 30r/min

TECHNICAL SPECS FOR NC SERVO MOTOR:

Power Supply: 220v, 380v, or 440v
 Rated Power: N=1-2.5KW
 Rated Frequency: F=50-60Hz
 Timing Range: 0-30r/min

Both machines have adjustable speed rates to help control cutting and beveling on thick wall pipes.

For further information on machine specifications, please contact us.



Hydraulic Motor Drive



Servo Motor Drive



SP48-NC

PART NUMBERS / ORDER INFO:

SP 18-48 Machine Kit Includes: Machine, Tool Bits (2), Tooling, Manual and Case

| HYDRAULIC MOTOR | |
|---|--------------|
| SP24 Kit (18" - 24") | P/N: SP24-H |
| SP30 Kit (24" - 30") | P/N: SP30-H |
| SP36 Kit (30" - 36") | P/N: SP36-H |
| SP42 Kit (36" - 42") | P/N: SP42-H |
| SP48 Kit (42" - 48") | P/N: SP48-H |
| Hydraulic Power Supply Unit with Remote Control | P/N: HYD-100 |

Note: for 230v motor please add 230 on to part number (ex: SP3-10-E-230)

| NC SERVO MOTOR | |
|--|----------------|
| SP24 Kit (18" - 24") | P/N: SP24-NC |
| SP30 Kit (24" - 30") | P/N: SP30-NC |
| SP36 Kit (30" - 36") | P/N: SP36-NC |
| SP42 Kit (36" - 42") | P/N: SP42-NC |
| SP48 Kit (42" - 48") | P/N: SP48-NC |
| NC Servo Power Supply Unit with Remote Control | P/N: SERVO-100 |

TOOL BITS

(Tool bits can be requested with TIN or Laser coating)

| Part Number | Description |
|-------------|----------------------------------|
| TB-6950 | 30 degree bevel bit |
| TB-6951 | 37.5 degree bevel bit |
| TB-6952 | 30 degree right hand bevel bit |
| TB-6953 * | 37.5 degree right hand bevel bit |
| TB-6954 | 30 degree left hand bevel bit |
| TB-6955 | 37.5 degree left hand bevel bit |
| TB-6956 | 10/30 degree compound bevel bit |
| TB-6957 | Sever bit (left hand) |
| TB-6958 * | Sever bit (right hand) |
| TB-6959 | Sever double bevel bit |



* Tool bits that are included in machine kit.

For SP accessories, please visit our website or contact our sales department for further assistance.

SAW GUIDES | BLADES | AIR CADDY

ADJUSTABLE SAW GUIDE - AN OTTO ARC SYSTEMS, INC. EXCLUSIVE PRODUCT!

The Otto Arc Saw Guides are designed with multiple sizes in one and include 17-4 hardened steel guides that will assist in keeping the saw blade straight for square cuts plus less chance of accidentally sawing into the guide itself.



| SAW GUIDES | |
|------------|--------------|
| .5" - 1.5" | P/N: SG-1500 |
| 1.5" - 3" | P/N: SG-3000 |
| 2" - 6" | P/N: SG-6000 |

Note: The SG-1500 & SG-3000 can be cut with a hack saw or Portaband Saw. Our SG-6000 must use a Sawzall.



Pictured: Example use of Saw Guide

SAW BLADES FOR CUTTING STAINLESS TUBING: (also fits GF style machines)

| SAW BLADES | TEETH | |
|-------------------|-------|-------------|
| .25" -.5" Tube | 150 | P/N: QC-150 |
| .5" - 1" Tube | 100 | P/N: QC-100 |
| 1" - 3" Tube | 70 | P/N: QC-70 |
| 2" - 4" Tube/Pipe | 40 | P/N: QC-40 |
| 2" - 4" Tube/Pipe | 32 | P/N: QC-32 |

(Blades can be requested with Laser coating)



QC-40 Saw Blade

| AIR CADDY | |
|----------------------------|-------------|
| Recommended for air motors | P/N: PBM-AF |

The air caddy is optional, but highly recommended if you are using a machine with an air motor. The air caddy helps keep extra moisture out of the machine/motor as well as helping to keep it clean and extend the life of the machine. Our air caddy includes an air filter, oiler and regulator.



For Saw Guide/Blade details, please visit our website or contact our sales department for further assistance.

OTTO ARC SYSTEMS, INC • 1-800-878-BITS (2487) • WWW.OTTOARC.COM

RENTALS

At Otto Arc Systems, Inc. we provide our customers with the option to rent equipment. Our rental prices are based on a weekly or monthly rental. We also have a "rent to own" option for our customers who would like to purchase the particular equipment rented, our minimum rental period is one week. Personnel training on Otto Arc equipment is also available (see below). Renting our machines is also a chance to see first-hand, the quality of our equipment.

For further details on our rental program, please contact your sales representative or call our office direct.

TRAINING

Otto Arc Systems, Inc. also provides training for customers that are interested in receiving step by step instructions on our product line (machine). Although our machines are designed for easy use, if you haven't beveled, faced or have experience with orbital welding it is recommended to perhaps watch our demo video or schedule training with one of our experts. Below is a summary of our training terms and conditions. Please contact us for any further questions you may have.

Training at Customer's Location:

Normal work day is 8 hours per day Monday thru Friday. Please note below the travel time cost to and from customer's location. If overtime is required, it is billed out at our overtime rate. Customer is responsible for all field technician costs.

Training at Otto Arc Systems, Inc. Location:

Normal work day is 8 hours per day Monday thru Friday. Normal hours are 8am to 5pm., with 1 hour lunch. Training is billed at \$500 per day. Overtime will be billed at \$150 per hour. All weekends are billed at \$225 per hour.

Customer Responsibility:

- It is the customer's responsibility is to have all required equipment set up and ready for technician
- Customer is responsible for assuring the availability of power, gases at point of utilization, coolant for welders and any other necessary items required to get equipment running
- Otto Arc will be able to provide assistance in some of these areas, but does not take any responsibility for them
- At no time is Otto Arc personally responsible for any equipment, or damage done by other persons during training or while at the customer's jobsite or location

Please note that these Terms & Conditions can be changed at any time pending on your company's needs and requirements. Please contact Otto Arc Systems, Inc. for further details or questions regarding these terms and conditions.

ORBITAL WELD HEADS

Otto Arc Aftermarket Orbital Welding Collets for Arc Machines weld heads are made to the highest quality standards. All our collets are made from stainless steel to give you better wear over aluminum type collets. Our new spring design collet will hold oversize, undersize tubing and new or used collet adapters better than ever. Our new spring collets have more flexibility to hold all types of tubing or pipe. Our 500 heads now offer gate screws with springs to hold the latch up to make closing the upper gate easier. Our one-piece construction on the lower head will give you better alignment on both sides of your tubing.

COLLETS FOR AMI WELDING

500 Head

- P/N 500-125 1/8" cassette
- P/N 500-25 1/4" cassette
- P/N 500-375 3/8" cassette
- P/N 500-5 1/2" cassette

750 Head

- P/N 753-125 1/8" collet
- P/N 753-25 1/4" collet
- P/N 753-375 3/8" collet
- P/N 753-5 1/2" collet
- P/N 753-625 5/8" collet
- P/N 753-75 3/4" collet

1500 Head

- P/N 1503-25 1/4" collet
- P/N 1503-375 3/8" collet
- P/N 1503-5 1/2" collet
- P/N 1503-5P 1/2" PIPE collet
- P/N 1503-625 5/8" collet
- P/N 1503-75 3/4" collet
- P/N 1503-75P 3/4" PIPE collet
- P/N 1503-1 1" collet
- P/N 1503-1P 1" PIPE collet
- P/N 1503-1.25 1 1/4" collet
- P/N 1503-1.5 1 1/2" collet

2000 Head

- P/N 2003-5 1/2" collet
- P/N 2003-5P 1/2" PIPE collet
- P/N 2003-625 5/8" collet
- P/N 2003-75 3/4" collet
- P/N 2003-75P 3/4" PIPE collet
- P/N 2003-1 1" collet
- P/N 2003-1P 1" PIPE collet
- P/N 2003-1.5 1 1/2" collet
- P/N 2003-1.5P 1 1/2" PIPE collet
- P/N 2003-2 2" collet

2500 Head

- P/N 2503-5 1/2" collet
- P/N 2503-75 3/4" collet
- P/N 2503-75P 3/4" PIPE collet
- P/N 2503-1 1" collet
- P/N 2503-1P 1" PIPE collet
- P/N 2503-1.5 1 1/2" collet
- P/N 2503-1.5P 1 1/2" PIPE collet
- P/N 2503-2 2" collet
- P/N 2503-2P 2" PIPE collet
- P/N 2503-2.5 2 1/2" collet

3500 Head

- P/N 3503-1 1" collet
- P/N 3503-1P 1" PIPE collet
- P/N 3503-1.5 1 1/2" collet
- P/N 3503-1.5 1 1/2" PIPE collet
- P/N 3503-2 2" collet
- P/N 3503-2P 2" PIPE collet
- P/N 3503-2.5 2 1/2" collet
- P/N 3503-2.5P 2 1/2" PIPE collet
- P/N 3503-3 3" collet
- P/N 3503-3.5 3 1/2" collet & 3" PIPE

4000 Head

- P/N 4003-75 3/4" collet
- P/N 4003-1 1" collet
- P/N 4003-1P 1" PIPE collet
- P/N 4003-1.5 1 1/2" collet
- P/N 4003-1.5P 1 1/2" PIPE collet
- P/N 4003-2 2" collet
- P/N 4003-2P 2" PIPE collet
- P/N 4003-2.5 2 1/2" collet
- P/N 4003-2.5P 2 1/2" PIPE collet
- P/N 4003-3 3" collet
- P/N 4003-3.5 3 1/2" collet & 3" PIPE
- P/N 4003-4 4" collet & 3 1/2" PIPE
- P/N 4003-4.5 4 1/2" collet

4500 Head

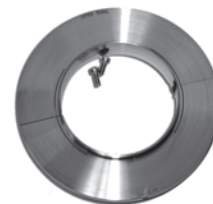
- P/N 4503-1 1" collet
- P/N 4503-1P 1" PIPE collet
- P/N 4503-1.5 1 1/2" collet
- P/N 4503-1.5P 1 1/2" PIPE collet
- P/N 4503-2 2" collet
- P/N 4503-2P 2" PIPE collet
- P/N 4503-2.5 2 1/2" collet
- P/N 4503-2.5P 2 1/2" PIPE collet
- P/N 4503-3 3" collet
- P/N 4503-3.5 3 1/2" collet & 3" PIPE
- P/N 4503-4 4" collet & 3 1/2" PIPE
- P/N 4503-4.5 4 1/2" collet & 4" PIPE

7500 Head

- P/N 7503-3.5 3 1/2" collet & 3" PIPE
- P/N 7503-4 4" collet & 3 1/2" PIPE
- P/N 7503-4.5 4 1/2" collet & 4" PIPE
- P/N 7503-6 6" collet
- P/N 7503-6P 6" PIPE



500-25



4503-3.5



7503-6

NOTE: All **AFTERMARKET** collets and tool bits are manufactured by Otto Arc Systems, Inc. and are not genuine Tri Tool, George Fisher, Orbatech or Swagelok products. Each is a trademark of its own.

ACCESSORIES FOR AMI ORBITAL WELDERS

REPLACEMENT WINDOW SCREWS

500-WI 3500-WI
750-WI 4500-WI
1500-WI 7500-WI
2500-WI

REPLACEMENT PAPER

OW-1000 Printer Paper for #207 Machine
OW-ARC Printer Paper for OW-ARC Power Units

REPLACEMENT THUMBSCREWS

500-SCREW
750-SCREW

REPLACEMENT WINDOW

500-WINDOW 3500-WINDOW
750-WINDOW 4500-WINDOW
1500-WINDOW 7500-WINDOW
2500-WINDOW

HEAD HOLDERS

500-HOLDER For 500 Head Only
750-HOLDER For 750 to 7500 Heads

LOOKING FOR SAW GUIDES OR BLADES?
SEE PAGE 29

AFTERMARKET TRI-TOOL FACING COLLETS / BITS

FACING TOOL BITS

TRI TOOL Part Number

Durabit-1
99-1046
99-1506
99-1506-Tin
99-1506-LC
99-1445C
99-5000
99-5176

OTTO ARC Part Number

TB-1506-LC Facing Bit Laser coated
TB-1046 Heavy Duty Facing Bit
TB-1506 Facing Bit
TB-1506-Tin Facing Bit Tin Coated
TB-1506-LC Facing Bit Laser Coated
TB-1445-C Facing Bit Carbide
TB-5000 Facing Bit Extended Reach
TB-5176 Facing Bit Extended Reach

Tool Bit for George Fisher and Orbitalum Facing Machines

| Part # | Description |
|---------|------------------|
| TB-1510 | Double Sided Bit |

Tool Bit for Swagelok Facing Machines

| Part # | Description |
|----------|-------------|
| TB-SL-01 | Facing Bit |

Tool Bit for T&C Facing Machines

| Part # | Description |
|---------|------------------|
| TB-1111 | Double Sided Bit |

SEVER / CUT-OFF BITS

TRI TOOL Part Number

99-2959
99-3143
99-3347

OTTO ARC Part Number

TB-2959 For 572 Facing Tool
TB-3143 For 574 Facing Tool
TB-3347 For 574 Facing Tool

301 FACING COLLETS

TRI TOOL Part Number

30-0065
30-0066
30-0067
30-0068
30-0069
30-0070

OTTO ARC Part Number

301-0065 1/4" COLLET
301-0066 3/8" COLLET
301-0067 1/2" COLLET
301-0068 5/8" COLLET
301-0069 3/4" COLLET
301-0070 1" COLLET

301SP SADDLE COLLETS

Extended Saddles

SP-3635 1/8"
SP-3640 1/4"
SP-3649 3/8"
SP-3662 1/2"
SP-3673 5/8"
SP-3684 3/4"
SP-3699 1"
SP-3689 1/2" PIPE
SP-3700 3/4" PIPE

Short Perch Saddles

SP-3705 1/8"
SP-3710 1/4"
SP-3719 3/8"
SP-3732 1/2"
SP-3743 5/8"
SP-3754 3/4"
SP-3699 1"
SP-3759 1/2" PIPE
SP-3770 3/4" PIPE

NOTE: All AFTERMARKET collets and tool bits are manufactured by Otto Arc Systems, Inc. and are not genuine Tri Tool, George Fisher, Orbatech or Swagelok products. Each is a trademark of its own.



www.ottoarc.com

Distributor/Sales Representative Information:

A large, empty rounded rectangular box with a thin black border, intended for providing distributor or sales representative information.

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