



ELECTRICAL



**SERVICES
OF ARIZONA**

PORTABLE POWER

Providing value through flexible solutions.

ELECTRICAL SERVICES OF ARIZONA

Thank you for your interest in Electrical Services of Arizona. ESA's mission is two-fold. Through our *service offerings* we help customers be more competitive. In our *products areas*, we offer competitive pricing and exceptional service. Both of these areas are built upon a strong foundation of significant engineering experience in the electrical industry.

Our experience and innovative solutions help distributors, contractors and manufacturers to be more competitive through measurable efficiency increases and excellent products. ESA has developed a positive reputation with clients for on-time product and service delivery that provides superior value. We invite you to call us to explore how our products and flexible service can deliver value to *you*.



Tyson Gentz
General Manager
Electrical Services of Arizona

Table Of Contents

Training & Consulting	2
Custom Fabrication	3
Temporary Power Stations	4
Value Added Services	5
Welding	6
Nipples	7
Threading	8
Elbows	9
Pipe Bending	10
Risers	11
Order Forms	12-14

Consulting



Gleaning efficiency from a set of blue prints is our specialty. One of our value added services is to train customer employees how to routinely identify cost saving opportunities. ESA can be engaged to consult with customers on large projects or we can train your employees.

Our consulting and/or training covers the following key areas:

- **Product knowledge = the right products specified for the right applications.**
- **Selecting the best approach for accurate and timely delivery of specific components to specific job site locations.**
- **How to identify opportunities for pre-assembly of components that result in significant margin maximization.**

We invite you to call us to schedule a no obligation and no cost “possibility” review meeting.



Call us to discuss your order **602-550-7173** or fax completed orders to **602-385-3391**.
Visit our website to download an electronic copy of this booklet.

www.esaz.org

Product Assembly

Custom Fabrication

ESA offers the resources required to support customers with a wide variety of cost effective machining, fabricating and assembly techniques. From simple machined brackets, to designing and assembling entire power rooms that are ready for delivery to a job site, ESA delivers solutions that save our customers money.

Our fabrication and assembly resources include:

- Water Jetting and Machining
- Powder Coating and Painting
- CNC Punch Machines
- Metal Machining
- Light Pole Assembly
- Hot Dip Galvanizing
- Brake, Shear and Cutting
- Tooling and Grinding
- Pre-fabricated Power Panels & Rooms
- Steel, Aluminum, Copper Tubing, Flat Metal or Bar Stock



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Temporary Power Stations

ESA is your temporary power solutions provider. We can build temporary power to meet your job site needs, whether it is a single panel with receptacles or a total power station with a panel and transformer. You can rely on us to build what you need to meet your job site power needs. We offer optional water-jet cut steel identification plates with your company name to permanently display your ownership.

ESA can also build temporary lighting from light strings to roll-around stands.

- Custom bases – custom concrete, fork access, casters, etc.
- Temporary power back boards – steel or wood
- Galvanized or painted to meet corrosion resistance needs.
- Engineered to meet the strictest job site requirements.
- 200 amp power stations offer (8) 20 amp GFCI receptacles and (2) 50 amp twist locks.

See P. 14 for order form



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P 4

Component Assembly

Value Added Services

Electrical Services of Arizona offers electrical contractors and product manufacturers experience and resources that increase job efficiency and reduce costs. We can help you retain your profits! We invite you to involve us early in the job development process or product application evaluation so we can work together to identify target areas to support you. We offer pre-fabrication of receptacles, switches, light fixtures, disconnects, stub ups, switch gear and many other components.

- Reduce labor costs
- Increase efficiency
- Accurate product delivery
- Quality improvement
- Reduce job site clean up

We offer no-charge "possibility" review meetings. Please call ESA to explore how we might support you.



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P 5



Welding

ESA provides full service welding capabilities. We weld and fabricate many materials including steel and aluminum pipe, tubing, bar stock, and flat metal. Our welding skills have provided a wide variety of solutions in many applications including wall hung and floor mounted stackable transformer racks, landscaping posts and pedestals bollards for SES protection, temporary power structures and many more. Please call us to discuss the specifics of your welding requirements.

We offer a variety of post welding finishing types including:

- Powder Coating
- Hot Dip Galvanizing
- Sand Blasting



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Nipples

ESA stocks and manufactures nipples in both standard and custom lengths. Nipples are provided in inches or fractions of inches. We offer nipples for electrical contractors, pipe fitters, swimming pool contractors, lighting manufacturers, plumbers and gas line applications.

▣ IMC

▣ BRASS PIPE

A _____

▣ GRC

▣ BLACK PIPE

B _____

▣ ALUMINUM

▣ PVC COATED GRC
(Perma Coat, Rob Roy, O-Cal)

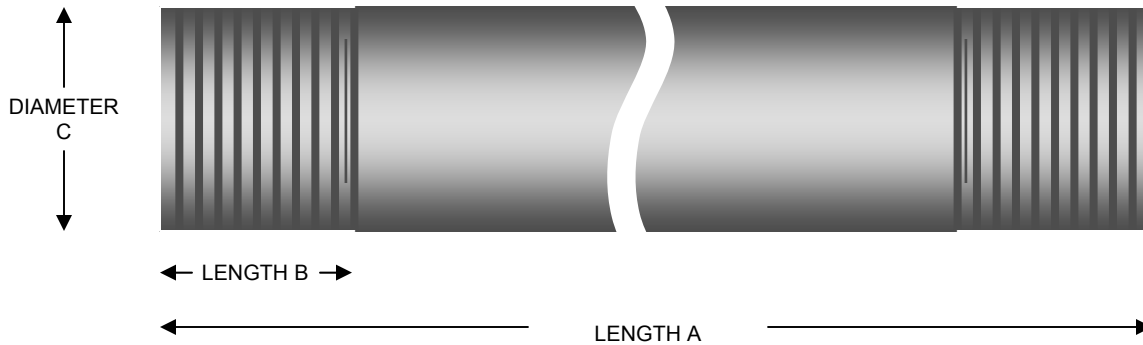
C _____

▣ GAS LINE

Material: _____

Ordering Specifications:

See P. 12 for order form



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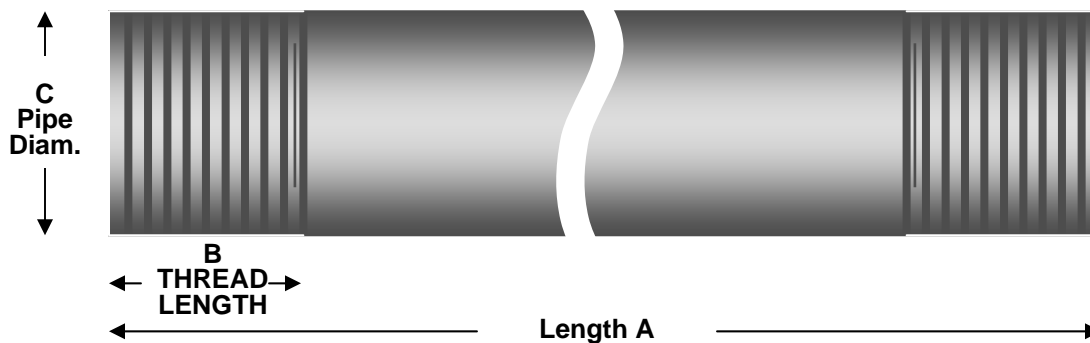
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P 7



ESA offers threading of the most popular materials including Intermediate Metallic Conduit (IMC), Galvanized Rigid Conduit (GRC), PVC coated GRC (OCAL, ROB ROY, PERMA COAT), Aluminum Rigid Conduit, Brass Conduit and Schedule 40 Black Pipe. We thread pipe diameters from 3/8" to 6". We cut thread lengths to any specification, from factory threads to running thread. We utilize NPT industrial dies for precision in all of our threading work. ESA cuts nipples in any length including oversized lengths longer than ten feet which, in some cases, eliminates the need for a coupling in the field. We operate ten fully tooled threading machines to meet most specifications and assure rapid turn around.

Ordering Terminology: *(specify NPT or standard pipe threads)*



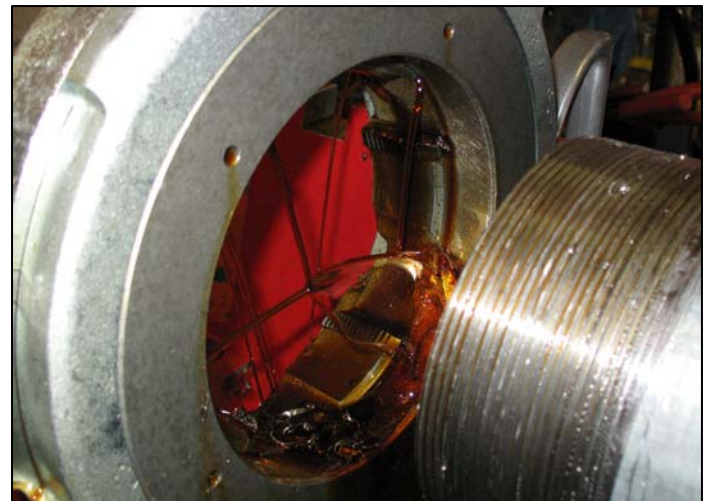
A _____

B _____

C _____

Material: _____

See P. 12 for order form



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P 8



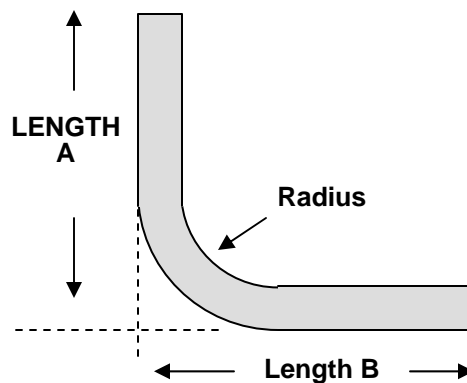
Elbows

Also see Pipe Bending for custom design applications

ESA offers substantial pipe bending capabilities for elbow specifications in EMT, IMC and GRC in sizes from 1/2" through 6". Our services include corrosion resistant taping to your specifications. We also offer the installation of FA or GRC couplings to the ends of elbows.

We carry standard size 90° elbows in stock and quickly turnaround your special orders. Our custom elbows range in size from 1/2" to 6". We can add 10 or 20 MIL tape, FAs and couplings to either end.

Ordering Specifications:



A _____

B _____

Radius _____°

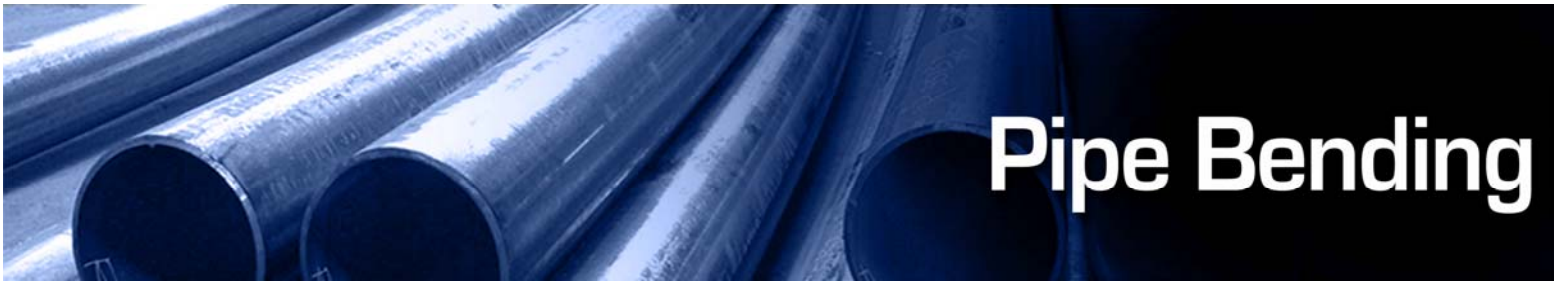
Material: _____

See P. 13 for order form



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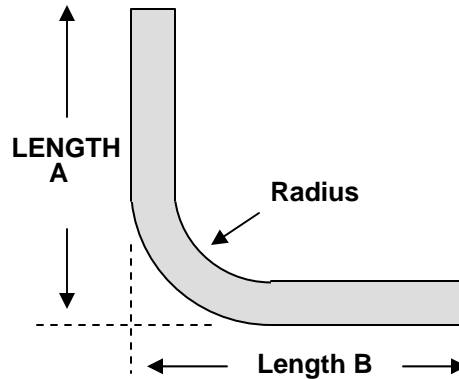
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Pipe Bending

ESA offers bending of Electrical Metallic Tubing (EMT), Intermediate Metallic Conduit (IMC), Galvanized Rigid Conduit (GRC), PVC coated GRC (OCAL, ROB ROY, PERMA COAT), Aluminum Rigid Conduit and Brass conduit. Size capacity ranges from 1/2" to 6" diameters. We can meet the most difficult requirements including 90's, kicks and special radius bends. ESA bends standard 18", 24", 36", 48" and 60" radius 90's. Our five bending machines ensure that we have the proper tooling and resources to provide you with quick and accurate service.

■ Full Length Bending (any standard or custom radius)



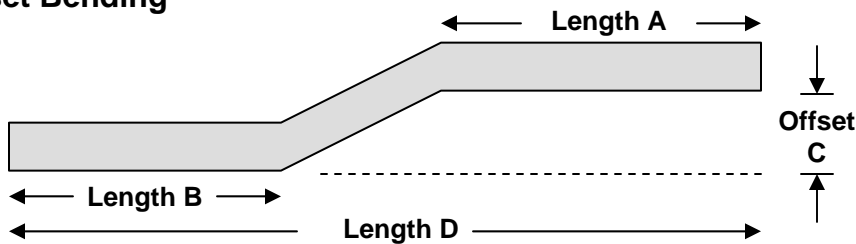
A _____

B _____

Radius _____°

See P. 13 for order form

■ Offset Bending



A _____

B _____

C _____

D _____

Material: _____

See P. 13 for order form



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P 10



ESA is a substantial manufacturer of residential risers for the Southwest. We use domestic UL listed IMC conduit and 20 Mil corrosion tape. ESA meets specification and regulatory requirements for all of the primary power utilities including Salt River Project (SRP), Arizona Public Service (APS), Tucson Electric Power (TEP), Navajo Tribal Utility Authority (NTUA) and Nevada Power Company (NPC).

We stock many standard size risers and quickly turnaround your custom orders. ESA also provides pre-fabricated riser racks and duct bank assemblies that can be delivered for direct installation at the job site.

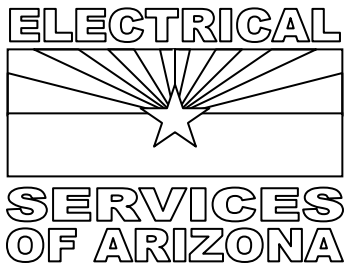
- 2" x 60" x 36"R
- 2 ½" x 60" x 36"R
- 3" x 60" x 36"R
- 4" x 60" x 36"R
- Specialty lengths made to order.



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P 11



NIPPLES & CUSTOM THREADING

Order Form

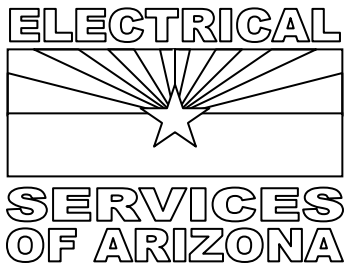
Directions: Simply photocopy and complete this order form and fax it to us at 602-385-3391. We will return a confirming order to you within 24 hours. If you have any questions, please feel free to call us at 602-550-7173.

CONTACT INFO.

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____
Phone: _____ Fax: _____

ORDER INFORMATION

- **Material Type:** _____
Intermediate Metallic Conduit (IMC) – Galvanized Rigid Conduit (GRC)
PVC Coated GRC - Brass – Black Pipe / Gas Line
- **Overall Length (A):** _____
- **Length of Threads (B):** _____
- **Diameter (C):** _____
- **Quantity:** _____
- **Other Special Instructions:** _____



ELBOWS & CUSTOM BENDING

Order Form

Directions: Simply photocopy and complete this order form and fax it to us at 602-385-3391. We will return a confirming order to you within 24 hours. If you have any questions, please feel free to call us at 602-550-7173.

CONTACT INFO.

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____
Phone: _____ Fax: _____

ORDER INFORMATION

■ **Material Type** including diameter: _____
Intermediate Metallic Conduit (IMC) – Galvanized Rigid Conduit (GRC) - PVC Coated GRC - Brass – Black Pipe / Gas Line

■ **Overall Length (A):** _____

■ **Overall Length (B):** _____

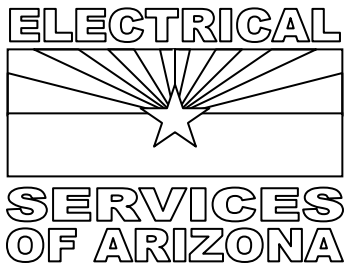
■ **Radius:** _____

■ **Length (C)** if applicable: _____

■ **Length (D)** if applicable: _____

■ **Quantity:** _____

■ **Other Special Instructions:** _____



TEMPORARY POWER STATIONS

Order Form

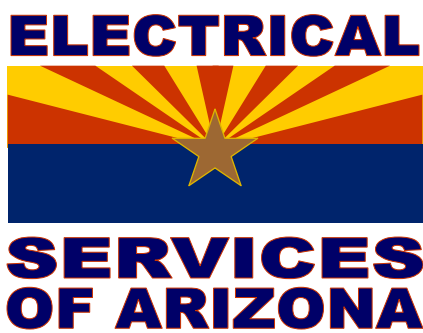
Directions: Simply photocopy and complete this order form and fax it to us at 602-385-3391. We will return a confirming order to you within 24 hours. If you have any questions, please feel free to call us at 602-550-7173.

CONTACT INFO.

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____
Phone: _____ Fax: _____

ORDER INFORMATION

- **Primary Voltage:** _____
- **Phasing (single or three-phase):** _____
- **Nema 3R / Nema 1 or Other:** _____
- **Transformer Size:** _____
10KVA / 15KVA / 30KVA / 45KVA / 75KVA / 112.5KVA / 150KVA
- **Secondary Voltage:** _____
120/208 or 120/240
- **Receptacles:**
 - 50 amp – TYPE _____ QUANTITY _____ GFCI PROTECTED
 - 30 amp – TYPE _____ QUANTITY _____ GFCI PROTECTED
 - 20 amp – TYPE _____ QUANTITY _____ GFCI PROTECTED
 - Other _____
- **Other Special Instructions:**



Physical Address:
1702 E. University Drive
Phoenix, AZ 850354

Mailing Address:
P.O. Box 20445
Phoenix, AZ 85036-0445

Phone: 602-550-7173
Fax: 602-385-3391

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We proudly support excellent distributors and manufacturers. Please contact us if you are interested in joining our sales team.