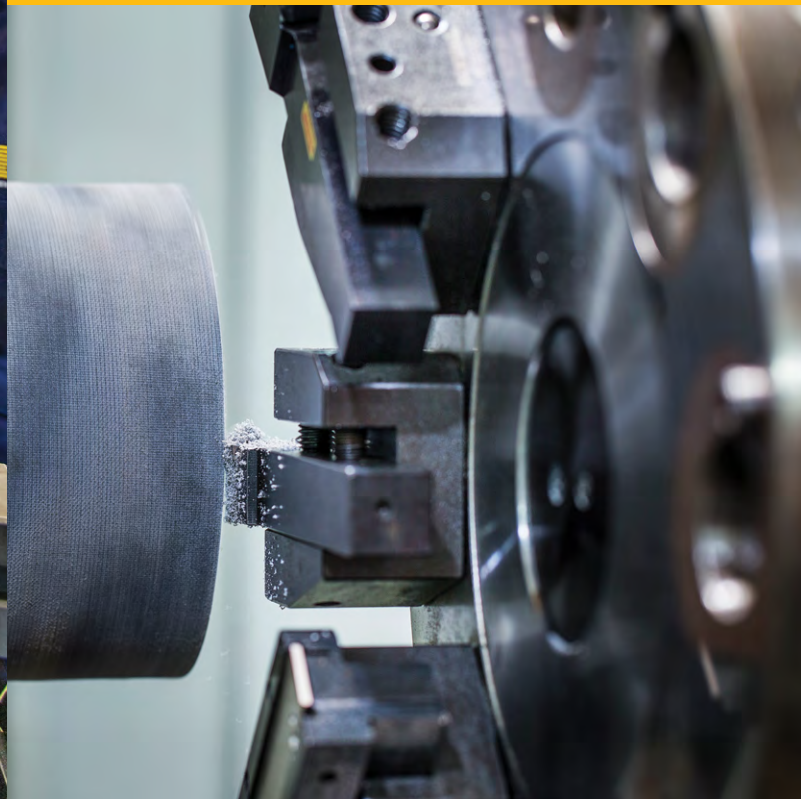




**PRECISELY  
WHAT  
YOU  
NEED.**



**CAPABILITY  
STATEMENT**





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## ABOUT US

AE WAS ESTABLISHED AS ARMSTRONG ENERGY IN 1998 TO ENGINEER CUSTOM ELECTRICAL AND MECHANICAL COMPONENTRY FOR THE POWER GENERATION INDUSTRY IN WA.

Over our 20+ years of operation, our manufacturing capability has expanded to encompass a wide range of equipment including CNC machinery and automation. This has put us at the forefront of machined plastic, rubber, metal componentry and pipework supply nationwide.

Our team of first class certified machinists and plastic welders with a combined 100+ years of industry experience have earned a reputation for outstanding quality, efficiency, technical expertise and problem-solving.

This consistent performance has seen us become a leading supplier of specialised machined components, off-the-shelf parts and raw materials to a client base of tier 1 companies including Western Power, Synergy and FMG among others.





# SERVICES

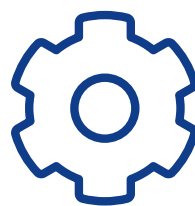
## ENGINEERED COMPONENTRY



### Electrical components

We have a long history in the manufacturing of custom electrical componentry.

We have continued to produce and supply these products to customer specification while growing and diversifying our capabilities.



### Mechanical components

We are recognised for formulating mechanical solutions using our technical knowledge and experience.

Custom mechanical components can be made to suit applications as per specification.

## BUY/SELL HOUSE

We facilitate the purchasing of any material or product from any location, providing customers with a single ordering point and complete one-stop shop service.



## CUSTOMER RELATIONS



### 24/7 service

We provide a 24 hour service, 7 days a week for urgent enquires.



### Problem-solving

We consider it our job to make our customers' lives easier. Our problem-solving capability helps to overcome engineering challenges with minimal fuss.



### Rapid delivery

Efficient processes, raw materials and finished products on-site ensure fast turn-around.

## COMPUTER ASSISTED DRAWING (CAD)

We use Computer Assisted Drawing (CAD) software to ensure clear communication and machining accuracy. Our CAD drawings are compatible with our CNC router, allowing for easy data transfer.

# INDUSTRIES WE SERVICE



## POWER GENERATION INCLUDING RENEWABLE ENERGY

- Bearings and bushes
- Pipe seals including Victaulic® joints
- Arc chutes
- Connector and ceramic nozzles
- Machined pipes including threading, drilling and slotting
- Condenser plugs
- Sight and gauge glasses
- Hydraulic and pneumatic seals
- Insulators
- Gaskets
- Pump vanes
- Expansion joints
- Locking tabs and shims
- PF antibacterial wipes
- Busbar and busbar supports
- Couplings and coupling rubbers
- Desiccant and indicator gels
- Felt seals and wipers
- Valves and associated parts
- Rubber and plastic hoses
- Belly blocks
- Strainers
- Specialised machined, extruded, moulded and vulcanised rubber and plastic componentry



## MINING, DRILLING AND EXPLORATION

- Wear plates
- Bearings and bushes
- Machined pipes including threading, drilling and slotting
- Rubber liners
- Brake shoes
- Hydraulic and pneumatic seals
- Sight and gauge glasses
- Expansion joints
- Bearings and bushes
- Insulators
- Desiccant and indicator gels
- Dust boots
- Diaphragms
- Pump vanes
- Cable lock tabs
- Pipe seals including Victaulic® joints
- Couplings and coupling rubbers
- Tank guards and mud flaps
- Gauge boards
- Felt seals and wipers
- Ruslyn® cordwheels
- Plastic and rubber spacers
- Valve seats
- Specialised machined, extruded, moulded and vulcanised rubber and plastic componentry



## OIL AND GAS

- Hydraulic and pneumatic seals
- Pump packing
- Insulators
- Valves and associated parts
- Bearings and bushes
- Wear pads
- Pipe seals including Victaulic® joints
- Adaptors
- Gaskets
- Pump vanes
- Sight and gauge glasses
- Expansion joints
- Busbar and busbar supports
- Couplings and coupling rubbers
- Desiccant and indicator gels
- Valves and associated parts
- Ruslyn® cordwheels
- Plastic and rubber spacers
- Specialised machined, extruded, moulded and vulcanised rubber and plastic componentry



## CONSTRUCTION

- Bearings and bushes
- Rubber extrusions
- Wear plates
- Plastics packers
- TMS breathers
- Rollers
- Gaskets
- Mounts



## RAIL

- Bearings and bushes
- Wear pads and plates
- Contacts
- Cables
- Earth straps
- Copper connectors
- Busbar and busbar supports
- Corrosion inhibitors
- Desiccant and indicator gels
- Hydraulic and pneumatic seals
- Specialised safety products
- Insulation disks
- Cables clamps
- Felt filters
- Gaskets



## AGRICULTURE

- Bearings and bushes
- Wear plates
- Hydraulic and pneumatic seals
- Gaskets
- Rubber extrusions
- Kroil
- Silicone grease
- Tanks seals
- Ruslyn® cordwheels

# INDUSTRIES WE SERVICE



## MEDICAL

- Medical grade seals
- Bearings and bushes
- Rubber extrusions
- Stainless steel fabrication
- Wooden dowels
- Bone boards
- Custom made stainless steel work benches
- Specialised machined, extruded, moulded and vulcanised rubber and plastic componentry



## DEFENCE

- Wear plates
- Bearings and bushes
- Rubber liners and extrusions
- Ruslyn® cordwheels
- Gaskets
- Desiccant and indicator gels
- Specialised machined, extruded, moulded and vulcanised rubber and plastic componentry



## MARINE

- Bearings and bushes
- Rubber seals and extrusions
- Wear plates
- Washers
- Guide rollers
- 2 part adhesives

We have readily available stocks of bearing materials, which are capable of prolonged deployment in freshwater and saltwater environments, making it ideal for marine industry applications.



## FOOD AND BEVERAGE

- Tank seals
- Bearings and bushes
- Dust boots
- Former plates
- High temperature spacers
- Knock out cups
- Food moulds
- Seal kits
- Plastics bottling components including:
  - Guide rollers
  - Bottle labelling rollers
  - BSM rings/seals
  - Safety covers
  - Plastic covers
  - Bottle labeller wear pads
  - Food grade PVC hose tubing
  - Silicone extrusions





# MACHINING CAPABILITIES

OUR WORKSHOP IS WELL-EQUIPPED WITH EXPERIENCED MACHINISTS SKILLED AT PRODUCING A BROAD RANGE OF COMPONENTRY.

## Automated pipe feed machining and drilling station including CNC lathe

- Automated machine threading and drilling
- Machine pipes up to 6m lengths
- Suitable for pipes up to 150mm diameter
- Spindle bore clearance of up to 155mm
- Automated cycle times
- Automatic drill station
- Live tooling capabilities

## CNC routers

- Tekcel CNC router – 4 x 2m bed
- Multicam CNC router – 1.2 x 2.4m bed
- Uses CAD/CAM and toolpathing software

## Lathes

- CNC lathe (Mazak)
- NC Lathe (Mitseiki TL)
- Manual Lathe (Win Ho Lathe – S series)

## Milling capabilities

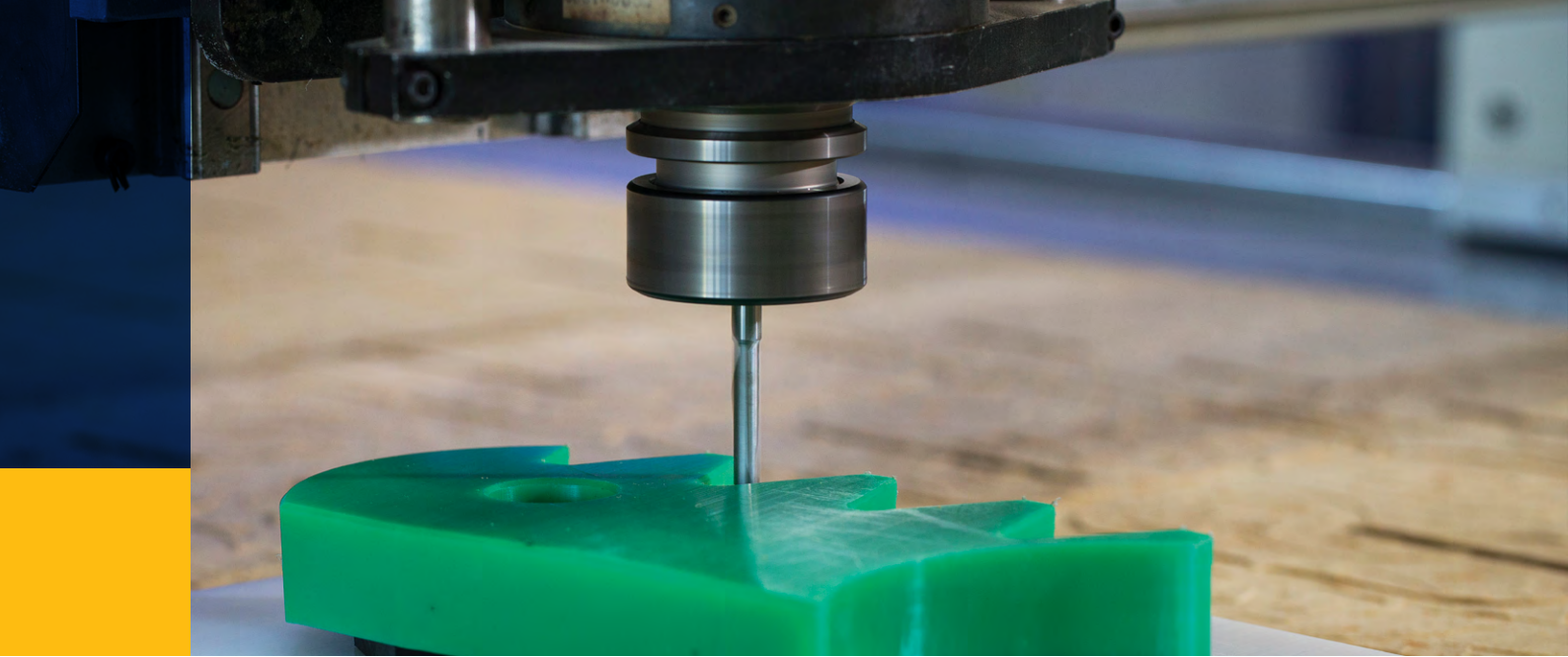
- Extron – K series

## Cutting and fabrication facilities

- Cutting (bandsaw and panel saw)
- Welding (plastic and Tig and Mig welders)
- Pressing (clicker, drill, hydraulic and manual presses)
- Sandblasting

## Vulcanising machine

- Custom built hot vulcanising machine
- Vulcanise joins materials at temperatures from 100 – 200 degrees



# MATERIALS

WE STOCK A LARGE RANGE OF RAW MATERIALS ON-SITE AND ARE A MAJOR SUPPLIER OF VESCONITE, ORKOT AND PTFE TO THE NATIONAL MARKET.

## Rubber

- Cork
- EPDM
- Gum
- Nebar
- Nitrile
- Neoprene
- Natural
- Urethane
- O-ring cord
- Rudex
- Silicone
- Viton

## Metal

- Aluminum
- Brass and copper
- Mild steel
- Stainless steel

## Miscellaneous materials

- Felt
- Glass
- Carbon graphite

## Plastics

- Acetal
- Acrylic
- Nylon
- Peek
- Polycarbonate
- Polyethylene (PE)
- Polypropylene
- PVC
- Vesconite
- Teflon®

## Composite materials

- Canvas and paper phenolic
- Epoxy glass
- Mica
- Orkot®
- Polyester glass
- Switchpanel (Type X)

## Wood

- Densified wood
- Jarrah wood

# WHY PARTNER WITH US?

WE CONTINUE TO BE WA OWNED AND COMMITTED TO PROVIDING UNPARALLELED, VALUE-ADDED PRODUCTS AND SERVICES.

## HOW WE ADD VALUE



We facilitate simplified, efficient and reliable supply chains with fast turn-around through our single ordering point, and exceptional variety of specialised products (including a large on-site stock of raw and finished products).



We draw on our unmatched technical expertise to solve problems and provide valuable information and advisory.



With our excellent product knowledge and high-quality workmanship, we reduce the lifetime cost of ownership for customers.

# SELECT PROJECT EXPERIENCE



## GROUND WATER BARRIER PROJECT, PILBARA REGION

### Pipe machining automation and assembly

The project in its entirety involves an environmentally safe mine expansion in the Pilbara region of Western Australia. Our involvement includes the manufacturing of 'Multiple Pass Sleeve Port (MPSP) Pipes'. These pipes are pumped full of grout whereby creating an underground 'curtain' covering a 1.5km span. The purpose of this curtain is to ensure the preservation of groundwater that forms the life source of the surrounding flora and fauna. By implementing the groundwater barrier the surrounding mines can expand all the way up to the curtain, achieving a larger mineable area. All machining and assembly of the MPSP pipes is completed at one of our machining centres in WA. Our automated pipe feeding, threading and drilling facilities were utilised for this job, providing a local and cost effective solution for our customer.



## DAVENPORT – SYNCHRONOUS CONDENSER PROJECT

### Manual ball valves source and supply; manufacture of seal refurbishment kits

These valves were supplied with end-of-manufacturing reports detailing technical data, testing certifications and continual testing plans as per customer specification. Seal refurbishment kits are manufactured on-site allowing for after sales support.



## SYNERGY – COAL PULVERISATION

### Carbon wear rings AE2521 machining and supply

We have been servicing Australian power stations, including Synergy, since our inception. AE2521 is an example of a re-occurring component that we machine and supply consisting of graphite wear rings, utilised by Synergy for coal pulverization. This component is part of a set, all of which is made and machined to order, and stored on-site.



## PLUSLIFE – PERTH BONE AND TISSUE BANK

### Medical component manufacture and supply

We manufacture and supply medical grade components including bone boards, machined wooden dowels and other steel fabricated components to this fantastic WA not-for-profit organisation.

# WHAT OUR CLIENTS SAY

“

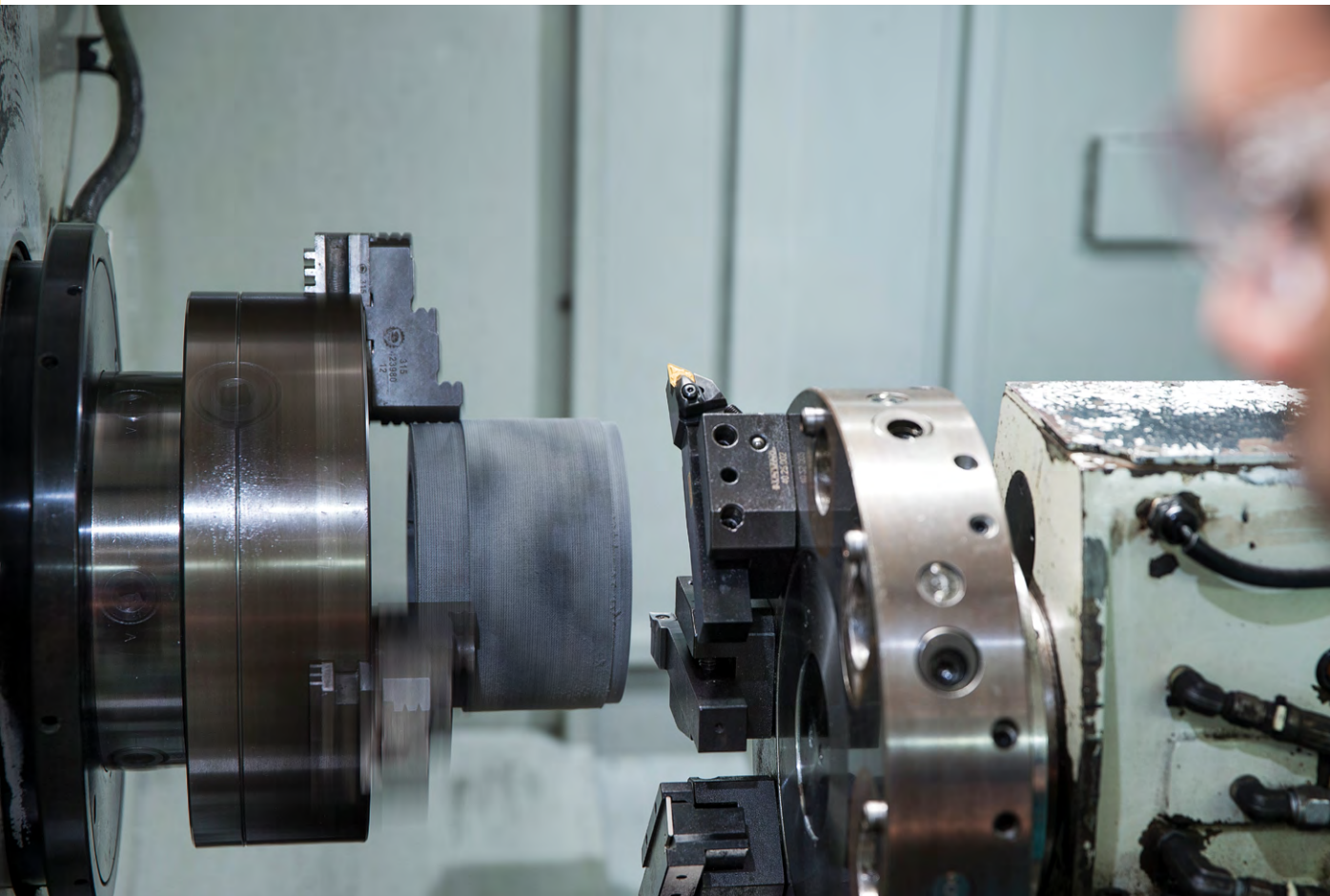
*“Synergy is committed to the provision of reliable and secure electricity services to the Western Australian community. Critical to our operations are a selection of niche industrial consumables, for which AE is a valued, local supplier. Partnerships like these play a key role in ensuring support for our customers’ energy needs.”*

**Dion Paunich, Synergy General Manager - Generation**

“

*‘AE has been a highly valued supplier to AGL Energy Ltd for over 25 years. We use AE for their technical expertise, high quality products, flexible product range, innovation and excellent customer service which they have always provided with the utmost professionalism. They are reliable and provide an excellent on-call service with personalised and fast delivery particularly for critical and specialised components. The team always pull out all stops to meet a quick turnaround for high quality specialised parts which is critically important to our power generation business.’*

**Tri Tran, AGL Electrical Engineer**





# SYSTEMS & PROCEDURES

## HEALTH & SAFETY

The health and wellbeing of our employees, customers and all stakeholders takes the utmost priority.

We are focused on providing a safe workplace, free of injury and take a proactive approach to maintaining this focus.

Our comprehensive health and safety system which adheres to Australian Standards and is subject to continuous improvement, is embedded throughout all our work processes.

## COMMUNITY

We are passionate about supporting local businesses and many of our suppliers are locally owned.

We are involved in numerous community organisations; sponsoring schools, sporting teams and charities. In support of education, TAFE and school students enter our work experience programs multiple times throughout the year.

We see ourselves as part of the community in which we operate and endeavour to contribute where possible.

## SUSTAINABILITY

We take environmental stewardship seriously. We adhere to relevant legislation and industry expectation and strive to reduce our carbon footprint by reducing and recycling our own waste as much as possible.

We consistently review the way we operate and actively seek out improvements to advance our environmental standing.

## QUALITY

Our commitment to quality is customer focused. This is defined by our risk management approach and is engrained in our business policies and practices. Our goal is to always work with customers to determine and document their needs and achieve them by supplying quality value-added products and services to specification.

Delivering on our innovative, efficient and cost-effective approach to our customers' needs is what sets us apart in the industry. This is strongly supported by our risk management principles engrained into our daily operations through our quality management system, validated by our accreditation AS/NZS ISO 9001:2015.

# OUR VALUES

**01/** TRUSTED

**02/** VERSATILE

**03/** INFORMED





# CONTACT

## **AE Components**

14 Freight Road

Kenwick, WA 6107

[info@aecomponents.com.au](mailto:info@aecomponents.com.au)

[aecomponents.com.au](http://aecomponents.com.au)

