



0417 947 752

SDR Engineering

info@sdrengineering.com.au

https://sdrengineering.com.au

Waroona, WA

## SDR ENGINEERING

Founded in Waroona in 1995, SDR Engineering is a family grown precision machining and steel-fabrication firm that keeps Western Australia's agricultural, industrial, earth-moving and mining operators productive. What began with a single manual lathe in a backyard shed has expanded through steady reinvestment in new machinery and skills into a modern workshop employing six full-time tradespeople, generating 20% increase in annual turnover in recent years.

Our blend of first-class machining expertise, country-style responsiveness and "no-fuss" problem solving means clients can rely on rapid manufacture, overhaul or reverse-engineering of critical components, from auger shafts for local farmers to complex hydraulic systems for blue-chip miners. Because our workmanship speaks for itself, word-of-mouth referrals and long-standing collaborations across the Waroona–Peel region remain our most powerful marketing tool. When equipment breaks down or bespoke parts are needed fast, SDR Engineering turns downtime into uptime, quickly, safely and economically.

### PURPOSE

Our customer's success is built on relationships founded on reliability, skill and responsiveness.

### VISION

We empower industry to achieve its full potential

## OUR VALUES

### RELATIONSHIPS

We place genuine partnerships at the heart of everything we do cultivating open, long-term relationships with clients and suppliers alike. Mutual trust is the surest way to deliver dependable service and workmanship of exceptional quality.

### SKILLS

#### Craftsmanship:

Every component is produced or repaired exceeding OEM tolerances; reverse-engineering complex, obsolete parts is a daily discipline, not a special project.

#### Staff:

We create a culture of continuous learning, improving, and craftsmanship. Apprentices work beside seasoned tradespeople.

### TRUST

Clients know they can ring us and we'll look after them; we quote transparently, deliver when we say we will, and stand behind our work so equipment is returned to service without second-guessing.

### COUNTRY LIFE

Grounded in rural WA values, we do things differently here. We are practical, straight-talking and ready to lend a hand when machines stop and livelihoods are on the line.

## PRODUCTS & SERVICES

### Core Service

**Manufacture & repair of critical components**  
(shafts, pins, gears, hydraulic cylinders, wear plates, buckets)

**Reverse engineering of obsolete or damaged parts**

**CNC and conventional machining**  
(turning, milling, boring, key-seating, surface grinding)

**Emergency breakdown support & on-site measurement**

**Stockholding of high-rotation spares**

**Industrial hard-facing & welding**

### What it Means for Clients

Extend asset life, avoid OEM lead times

One-off or short-run replication when OEM drawings are unavailable

Tight tolerances to ISO standards

Quick response throughout the South-West & Peel regions

Fast off-the-shelf supply for customers with standing orders

Reduced wear in abrasive environments

## MAJOR CLIENTS





## OUR TEAM

### SHANE DE ROSA

#### Managing Director

Fitter and First Class Machinist. Business owner for 30 years with hands on experience to manufacture, repair and machine parts of all descriptions.

### WAYNE DAVENPORT

#### Operations Manager

First Class Machinist and Production Engineer. 12 years with SDR Engineering.

## CASE STUDY

### CHARLES HULL CONTRACTING

CAT 16H grader steering cylinder – *Emergency rebuild*

#### CHALLENGE:

A grader integral to a tailings-dam wall lift suffered catastrophic steering cylinder failure during a 48-hour shutdown. OEM lead time for a new rod and gland was 12 weeks, risking >\$150,000 in contract penalties.

#### SDR SOLUTION:

- **Reverse Engineering** – Retrieved the damaged rod overnight, laser-scanned critical geometries and **produced a new 3D model within six hours.**
- **Manufacture** – Machined a new 4140 HT bar, hard-chrome plated and ground to tolerance (+0/-0.02 mm) on the new CNC lathe; gland was reproduced from 6061-T6 aluminium bronze to improve galling resistance.
- **Assembly & Test** – Assembled with upgraded seal kit, pressure-tested to 3,500 psi and **delivered back to site in 36 hours.**

#### OUTCOME:

Grader returned to service inside the shutdown window; client avoided penalty, and subsequent wear tracking shows the replacement rod is lasting 15% longer than the OEM original.

*"Working with Shane and the SDR Engineering team has been a positive experience. They consistently demonstrate professionalism, a willingness to tackle complex challenges, and a commitment to delivering quality results. For those considering engineering services, I highly recommend SDR Engineering. Their team's extensive expertise and problem-solving capabilities make them a reliable partner for tackling intricate engineering challenges."*

**Shane Williams - Plant Component Manager**  
Charles Hull Contracting Co Pty Ltd

*"Indust-3 Engineering has partnered with SDR Engineering for the past five years and couldn't be more satisfied. Their precision, innovation and customer focus ensure every component meets the highest standards. We wholeheartedly recommend SDR to anyone seeking reliable manufacturing services."*

**Sean Madigan - Managing Director**  
Indust-3 Engineering Pty Ltd

## EXPERIENCE

Collectively, Shane and long-time Operations Manager Wayne Davenport contribute more than 70 years of machining expertise, ensuring every breakdown repair or one-off fabrication is completed quickly, safely and to exacting standards.

## RAPID TURNAROUND

SDR Engineering turns critical breakdowns into rapid turnarounds: our 30 years of reverse engineering expertise and country style, quick responsiveness, deliver OEM-grade replacement parts within days, often overnight so your equipment is back earning, not waiting.

## SAFETY PROMISES

#### Safety Management:

SDR maintains a documented Safety Management Plan aligned to WA Work Health & Safety regulations; procedures are updated biennially to meet Alcoa vendor audits.

#### Quality Assurance:

Critical dimensions are checked using calibrated micrometres, verniers and CMM reports where required; job travellers record material certificates and heat-treatment data.

#### Environmental:

All metal waste is segregated and recycled; cutting fluids are reclaimed via an on-site centrifuge, reducing disposal volumes by 70%.

#### Continuous Improvement:

Monthly production meetings include improvement reviews, including causes, corrective action and continual improvement processes.

## QUALITY COMPONENTS

Earthmoving equipment requires effective maintenance to produce the best return on investment. When parts are needed for servicing or responding to breakdowns, there must be a quick turnaround to minimise the downtime and maximise the potential of the machine. SDR Engineering is dedicated to providing machinery of all types with quality parts and components. Manufacturing, machining and repairing these parts in the quickest time possible.