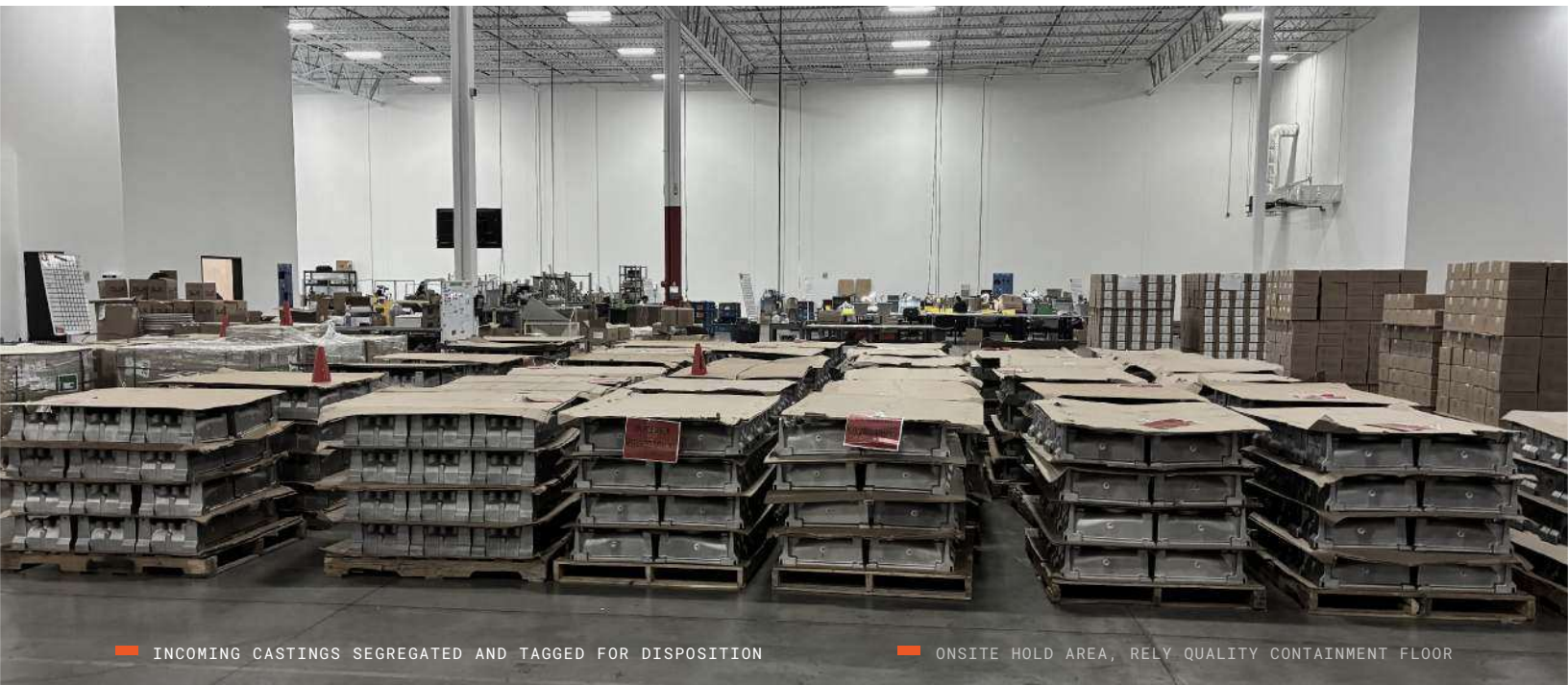


THIRD-PARTY INSPECTION & REWORK · POWER SYSTEMS / INDUSTRIAL EQUIPMENT

An inspection request turned into a **supply chain rescue.**

More than half the incoming castings were failing a single bushing feature **while thousands of parts were already in motion toward a U.S. line that could not stop.**



INCOMING CASTINGS SEGREGATED AND TAGGED FOR DISPOSITION

ONSITE HOLD AREA, RELY QUALITY CONTAINMENT FLOOR

>50% OF INCOMING CASTINGS FAILED SPECIFICATION ON ARRIVAL

4 DISTINCT FAILURE MODES IDENTIFIED AND RESOLVED

>2,500
PARTS INSPECTED +
REWORKED

100%
INSPECTION RATE
MAINTAINED

3
OUTSIDE MACHINE SHOPS
SOURCED AND MANAGED

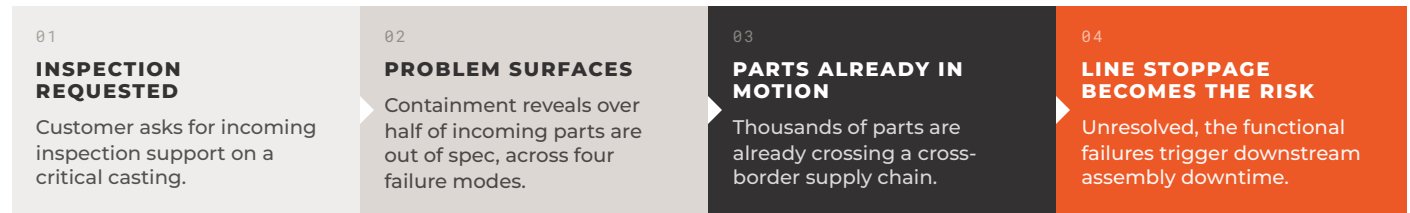
0
LINE STOPPAGES AT THE
CUSTOMER'S PLANT

What a 51% reject rate was really **putting at risk**

A bushing feature out of tolerance does not stay a supplier problem once thousands of parts are already crossing the border toward a line that **cannot stop to wait for it.**

HOW IT COMPOUNDED

OBSERVED ACROSS >2,500 PIECES



An inspection request had quietly become **a supply chain rescue.**

WHAT RELY ACTUALLY OWNED

AT THE CUSTOMER'S PLANT, OR COORDINATED ON THEIR BEHALF

- 01
SORT THE POPULATION
100% incoming inspection of every machined feature, conforming vs. nonconforming.
- 02
CUSTOM-GAUGE THE FAILURE
Designed and procured custom gauges for bushing ID and press depth.
- 03
REWORK TO PRINT
Custom-built machining tooling to correct bushing ID and insertion depth in place.
- 04
QUALIFY OUTSIDE CAPACITY
Sourced and managed 3 machine shop partners, competitively quoted, on the customer's behalf.
- 05
DOCUMENT EVERY DISPOSITION
Standardized inspection criteria, segregated material, full traceability through completion.
- 06
ABSORB THE MOVING TARGET
Ran multiple inspection passes as new defect modes emerged, without slowing releases.

COMPONENT PROFILE

Aluminum die-cast head casting, approx. 10-12 lb

Bushing ID requirement	1.001 in
Insertion depth requirement	0.14 in max
Drilled hole gauge	1.75 in pass

IN THE CUSTOMER'S WORDS

"RELY didn't just inspect parts, they stabilized our supply chain and kept our production line running."

- CLIENT QUALITY ENGINEER

[START HERE](#)

Send us your next incoming inspection request.

We'll tell you in the first week if it's a bigger problem, and scope the recovery before it costs you a shutdown.