FOCUSED + PRECISION + CLEANING

JRI CLEANING SYSTEMS

CASE STUDY

JRI CLEANING APPLICATIONS AND INNOVATIONS

EXHAUST MANIFOLD COMPONENTS
ROBOTIC LOADED INDEXING CONVEYOR SYSTEM

THE CHALLENGE: TO WASH CAST IRON EXHAUST MANIFOLDS AT A RATE OF 1 EVERY 30 SECONDS AND TO MEET A GRAVIMETRIC CLEANLINESS LEVEL AS WELL AS MAXIMUM PARTICLE SIZE. SYSTEM NEEDED TO BE ROBOTIC LOADED AND ALL SURFACES THOROUGHLY CLEANED.

THE SOLUTION: JRI PROPOSED AN INLINE INDEXING CONVEYOR SYSTEM THAT USED FIXTURES MOUNTED TO DUAL STRANDS OF CHAIN. THE ROBOT LOADED THE PART INTO THE LOAD FIXTURE AND THE PARTS INDEXED THROUGH THE WASH, RINSE, AND HEATED BLOW-OFF SYSTEM. A 300PSI, 150 GPM PUMP WAS USED TO FLUSH THE INTERNAL AND EXTERNAL SURFACES OF THE CASTING.

CASTING LOADED IN FIXTURE

INDEXING CONVEYOR AND CHAIN

30 HP MAIN WASH PUMP

PRECISION FIXTURE AND SPRAY NOZZLE ALIGNMENT

DUAL DUPLEX FILTRATION

ROBOT LOADING CLEANING SYSTEM