Insight Plant Analysis System
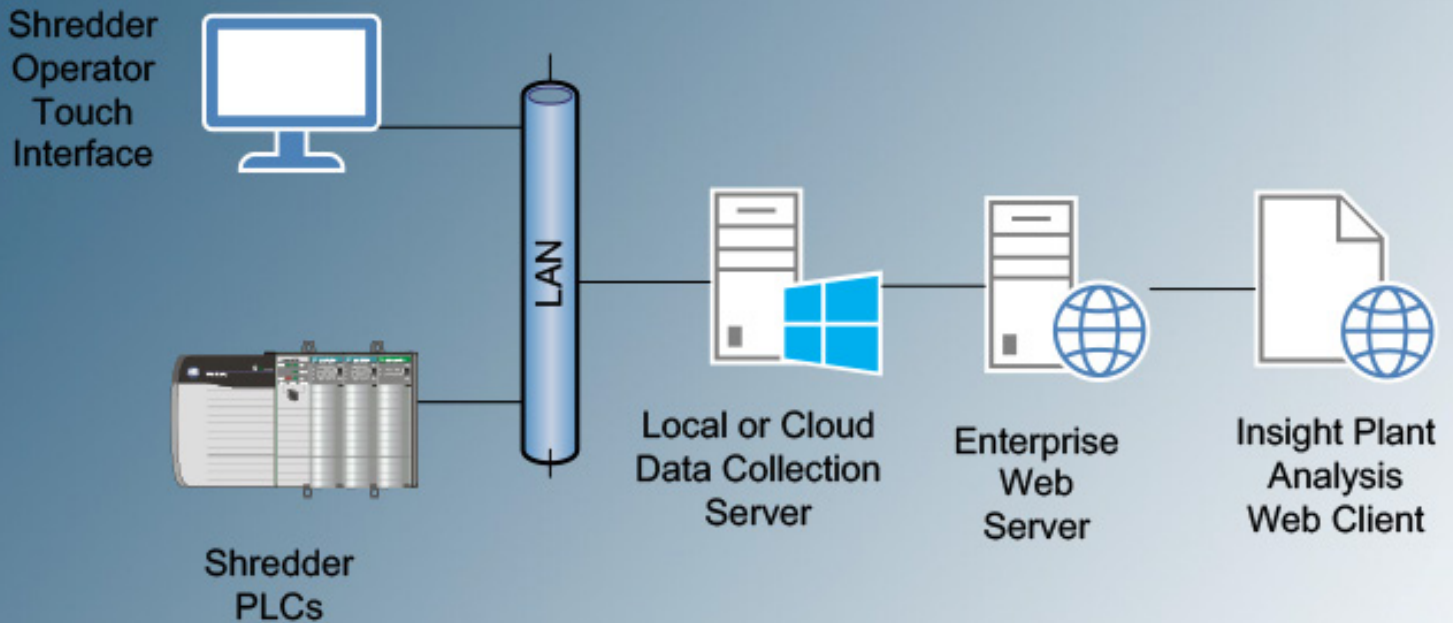
Intelligence Reporting for the Metal Recycling Industry

Riverside Engineering
Refining Scrap Metal Recycling

866.764.7567
megashredder.com

LOCAL NETWORK FOR ENTERPRISE

Shredder Operator Touch Interface

LAN

Shredder PLCs

Local or Cloud Data Collection Server

Enterprise Web Server

Insight Plant Analysis Web Client

INSIGHT PLANT ANALYSIS SYSTEM

Intelligence Reporting for the Metal Recycling Industry

The Insight Plant Analysis System (IPAS) is a business intelligence reporting system designed exclusively for the metal recycling industry.

A collection of programs recording real time information about shredders and downstream operations, IPAS automatically reports Ferrous and Non-Ferrous tons, power, water usage, temperatures, pressure, flow rates and other process variables via easy-to-read daily production scorecards.
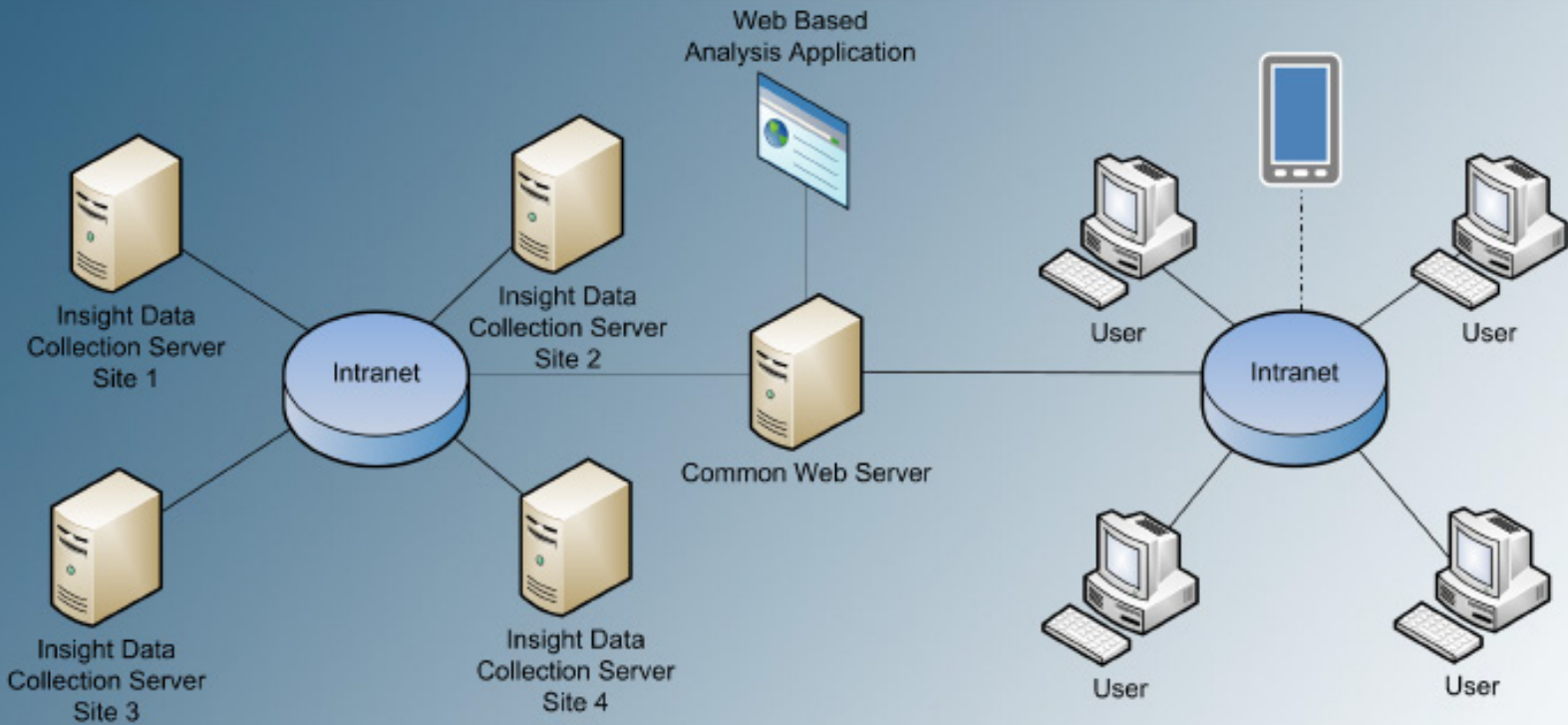
In addition, IPAS can detect downtime events and will prompt a Shredder HMI screen for causal recording. Plus, this system allows managers to review machine and operator performance, trend process variables like Bearing Oil temperatures and Motor Current, and pinpoint trouble areas in the process.

HISTORICAL TRENDING AND REPORTING

To help managers pinpoint specific areas of focus, IPAS can create custom production reports, including the following:

» Shift

» Selected Range

» Monthly

TYPICAL NETWORK FOR ENTERPRISE

Web Based
Analysis Application

Insight Data
Collection Server
Site 1

Intranet

Insight Data
Collection Server
Site 2

Insight Data
Collection Server
Site 3

Insight Data
Collection Server
Site 4

Common Web Server

User

User

Intranet

User

User

BENEFITS OF THE INSIGHT PLANT ANALYSIS SYSTEM
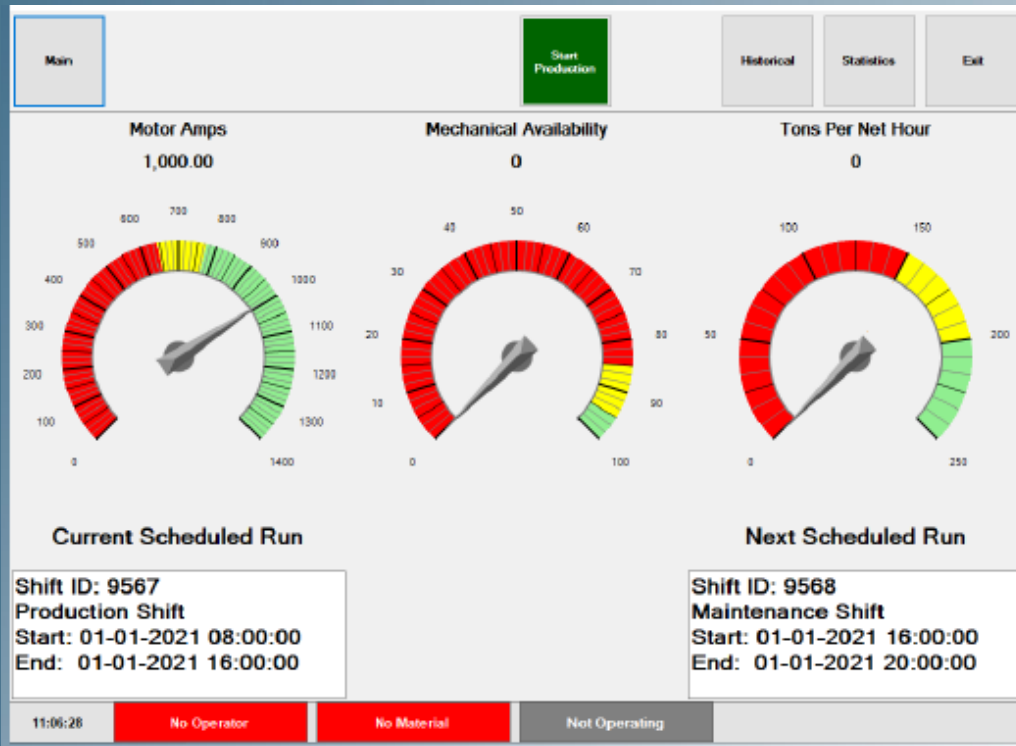
Predict Potential Failures Immediately

Helping to predict future failures,
IPAS automatically tracks shredder
performance in real time providing
information analysis, reports, and
historical trending necessary to address
operational performance issues.

Improve Market Position

IPAS provides a better perspective of
the shredder operations,
allowing executives to build an
accurate business model and
gain advantage, position,
and direction in the actual market.

OPERATOR MAIN SCREEN (NON-PRODUCTION)
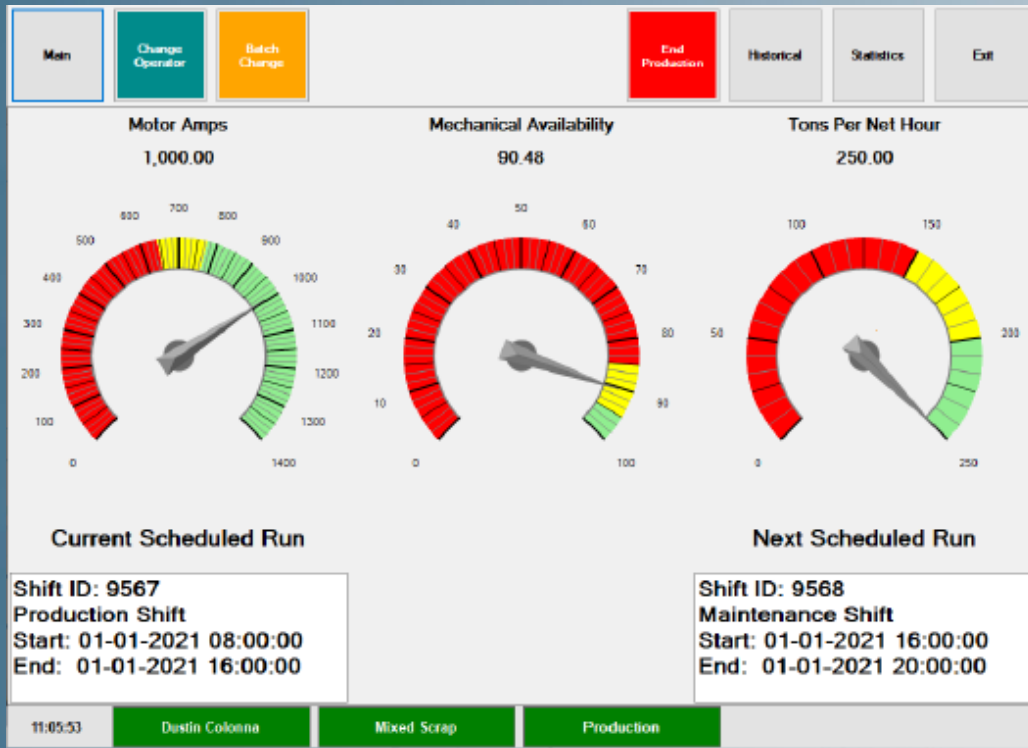

Navigate the Future Successfully

With a clear image of performance, both past and present, executives now can quickly devise strategy, set goals, and monitor performance, bringing the business to a higher level.
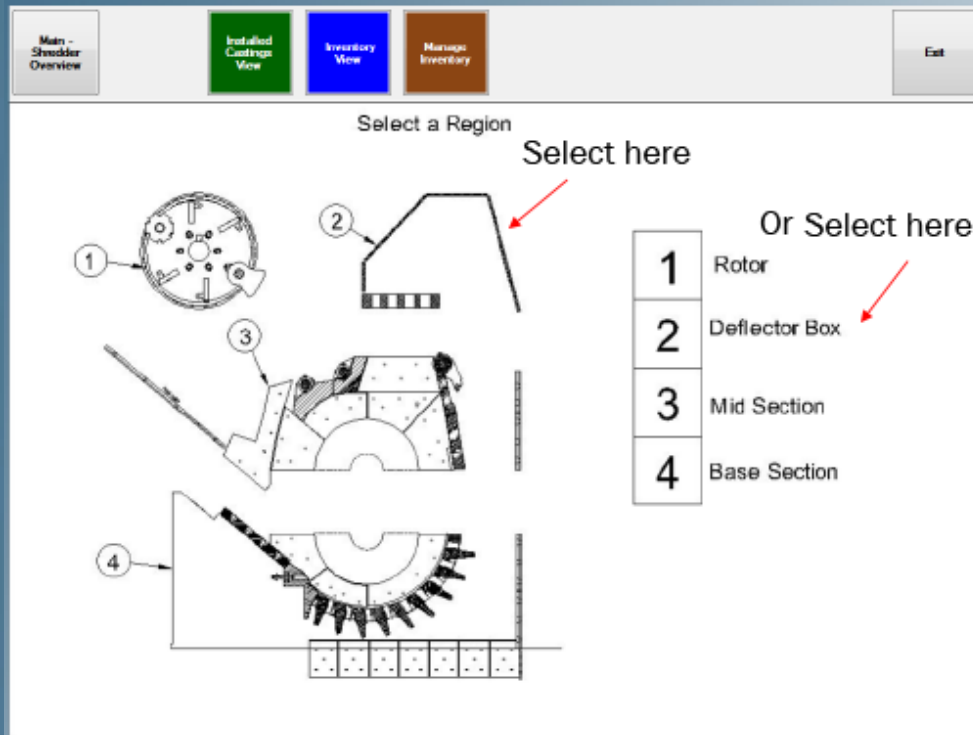
Deliver Consistent Benchmarking

Site-to-Site comparisons are more effective when delivered from a common intelligence environment. With IPAS, data is stored in a MySQL database and is converted into easy-to-read reports, charts and graphs.
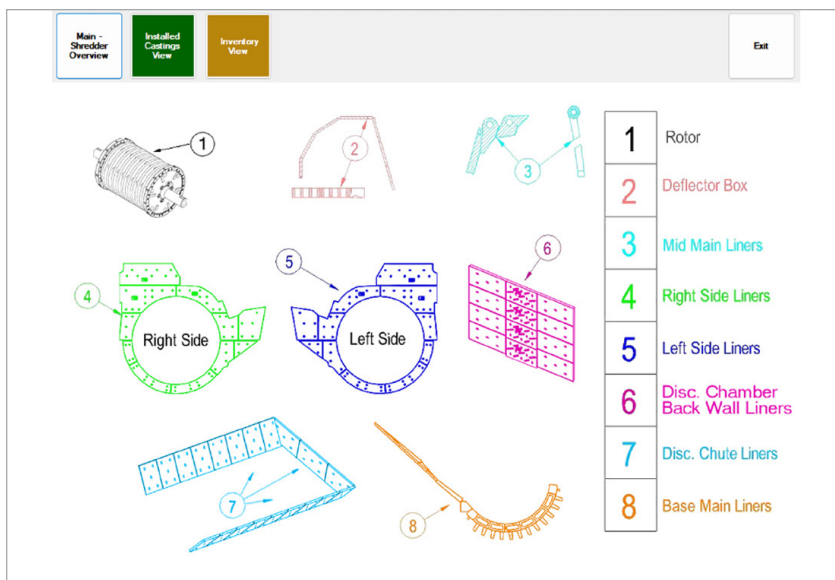
OPERATOR MAIN SCREEN (PRODUCTION)

CHANGING CASTINGS EXAMPLE

INSIGHT CASTING MANAGER

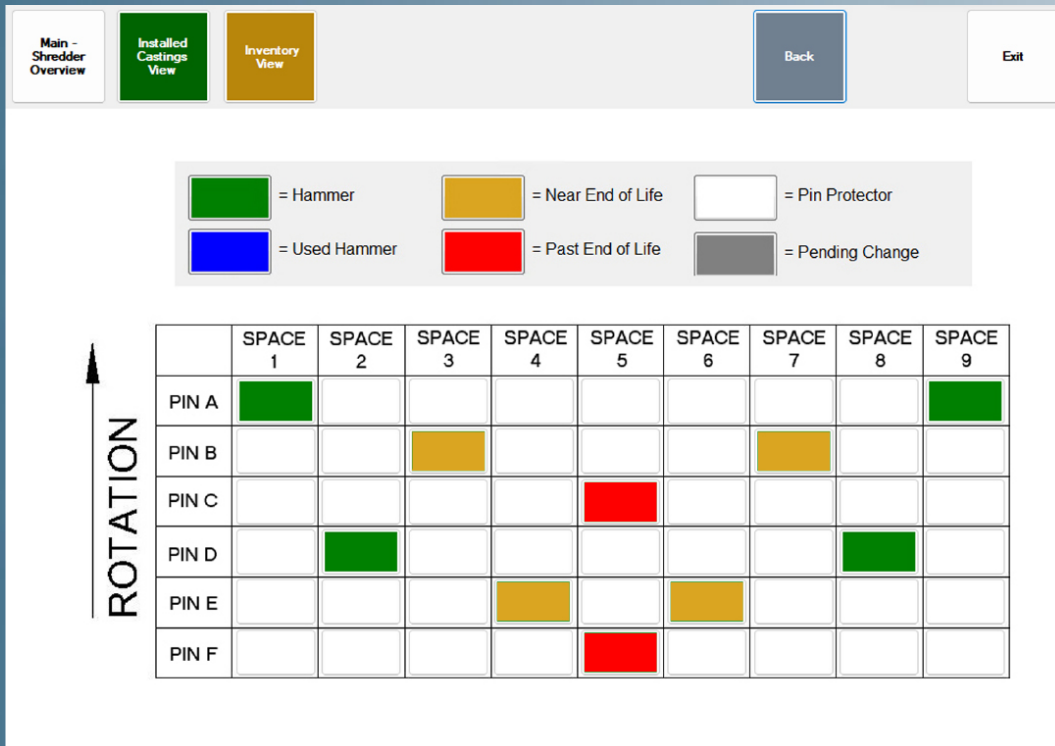*Management Information to help Reduce Shredder Processing Cost*

Automated Performance and Usage Tracking of Shredder Wear Parts

» Production totals recorded for each wear part

» Management Reporting Package from centralized data server

» View installed castings for predictive inventory management

» Improved maintenance scheduling and efficiency

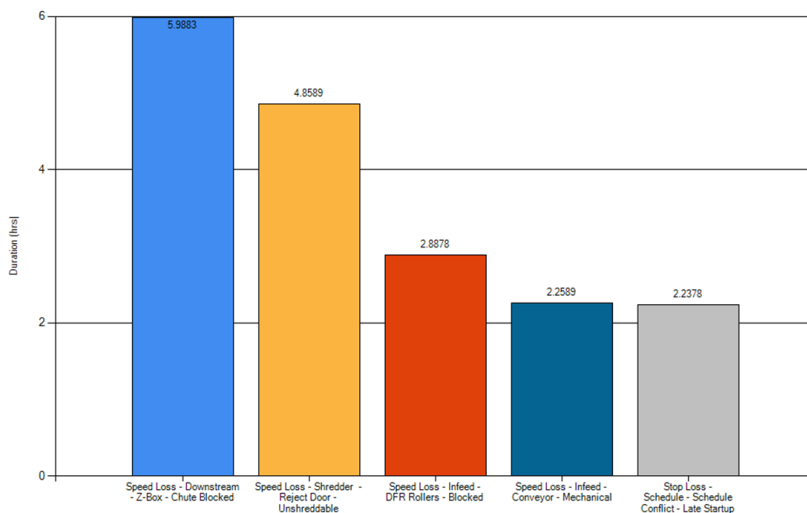» Measure casting life to evaluate production and suppliers

CHANGE CASTING — HAMMER CHART

	Main - Shredder Overview	Installed Castings View	Inventory View		Back	Exit

Legend:
- 🟩 = Hammer
- 🟧 = Near End of Life
- ⬜ = Pin Protector
- 🟦 = Used Hammer
- 🟥 = Past End of Life
- ⬛ = Pending Change

ROTATION ↑

	SPACE 1	SPACE 2	SPACE 3	SPACE 4	SPACE 5	SPACE 6	SPACE 7	SPACE 8	SPACE 9
PIN A	🟩								🟩
PIN B			🟧				🟧		
PIN C					🟥				
PIN D		🟩						🟩	
PIN E				🟧		🟧			
PIN F					🟥				

INSIGHT NON-FERROUS PLANT PERFORMANCE REPORTING

Production Data to help Improve Metal Recovery

Reporting and Measurement of Non-Ferrous Production

Duration [hrs]

Category	Value
Speed Loss - Downstream - Z-Box - Chute Blocked	5.9883
Speed Loss - Shredder - Reject Door - Unshreddable	4.8589
Speed Loss - Infeed - DFR Rollers - Blocked	2.8878
Speed Loss - Infeed - Conveyor - Mechanical	2.2589
Stop Loss - Schedule - Schedule Conflict - Late Startup	2.2378

» Track NFE production delays

» Measure metal recovery by product

» Compare NFE yields based on input material

» Management Reporting Package from centralized data server

Custom reports can be produced by Insight Plant Analysis System (IPAS) personnel to meet your company's needs. Contact us to arrange a free web-based tour of IPAS guided by a technical sales representative.

INSIGHT
Plant Data Systems

MODULES

Shredder

Non-Ferrous

Wire Chopping

Castings

Baler

Shear

Heavy Media

Ship Loading

MMRS

Process Variables

Support Ticket System

Automated Emails

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