



# SCRAP PROCESSING SOLUTIONS

from single-machine upgrades to fully-integrated systems



# Family Owned & Operated Since 1977

For over 45 years, WENDT has been a solutions provider in the shredding and sorting of ferrous and non-ferrous metals. With an extensive and focused portfolio of scrap processing solutions, WENDT combines equipment, proven processes, and the best-available-technology from around the world to provide our customers with a competitive edge.

Our experience coupled with our engineering-centric philosophy allows us to develop, deliver, and support completely-integrated scrap processing systems, tailored to our customer's particular application. WENDT's wide range of capabilities, value-added services, and in-house 24/7 service and technical support are what make WENDT a world-class recycling equipment provider.

# PROVEN RESULTS

“ With the new WENDT system, we have a very robust and mechanical process that leads to better metal generation with very little manual processing needed. We are now producing a differentiated Zorba product. We have the Zorba product we were used to, but are also generating fine Zorba and ultra-fine Zorba, as well as a heavies package that we weren't before. We have not only increased volume recoveries, but have increased the product lines that we're able to market and offer to overseas and domestic buyers. ”

**Sean Daoud**  
Vice President  
PNW Metal Recycling



30 TPH Non-Ferrous Recovery Plant



# PROCESS ENGINEERING

As a single-source supplier, our team of recycling experts can assist in developing a project from initial feasibility, applications development and plant design, through project execution, installation and commissioning of a custom-built plant. We employ a team of application and industry experts to create products and solutions optimized for our customer's individual needs.

- Applications engineering
- Mass balance diagrams
- Plant layout & process design
- Operational considerations (maintenance, access, replacement, etc.)
- Safety & traffic flows
- Risk assessment



Non-Ferrous Plant Completed Engineering

# ENGINEERING ENGAGEMENTS

Once initial project scope has been determined, our customers have the ability to proceed with an engineering contract with WENDT. Engineering contracts allow us to begin the necessary engineering work to move the project forward. With a small investment, customers receive a set of engineering deliverables that are the foundation for a project.

### Deliverables

- Project scope refinement
- Site layout drawings
- In-house 3D-scanning & point cloud generation to document existing conditions
- Motor lists
- Preliminary footprint & foundation drawings
- Power requirements
- Project schedule
- Detailed proposal



Non-Ferrous Plant Installed





# PROJECT EXECUTION

With WENDT's 45 years of experience, knowledgeable staff, and the right tools and resources in place, we're able to execute complex projects quickly and efficiently while preserving project budgets and schedules. With an in-house Project Management Team, our customer's primary contact from signature of a contract through commissioning is an experienced Project Manager. With proven project experience leading and executing both small and large projects, our Project Managers understand the requirements of integrating equipment and effectively completing an entire project.

- Contract & scope development
- Single point of contact for customer
- Contract management & execution
- Project schedule management
- Budget management
- Site visits & meetings
- Model-based manufacturing & installation
- Installation supervision management



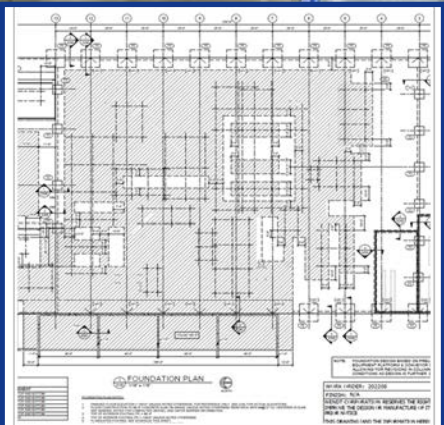
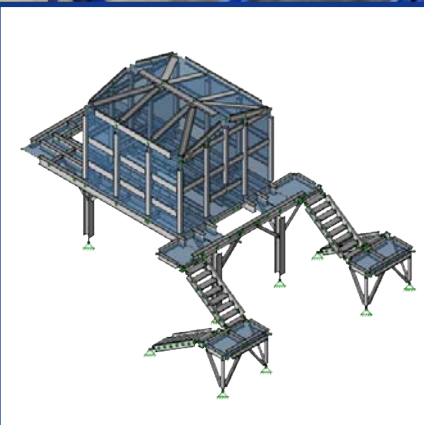
M6090 Modular Shredder Plant Completed Engineering



M6090 Modular Shredder Plant Installed

# DESIGN FROM EXPERIENCE

As an engineering-centric company, WENDT is comprised of highly-skilled members including mechanical, structural, electrical, and automation/control engineers. Leveraging our engineering experts' industry experience and the most advanced software and technology available, we develop customized processing solutions for complicated challenges.



## Structural & Foundations

- In-house structural engineers design to meet local code requirements
- Custom design structure based on customer's needs and budget
- Support structures are designed from experience with added attention to traffic patterns as well as material flow and equipment maintenance
- Foundations and structural designs are always site specific

## Engineering Service Options

- Professional Engineering stamps
- Administration of Geotech, site survey, and 3D scans
- Full foundation designs are all available options



# MATERIAL HANDLING

## CONVEYORS

### Modular Conveyor Design

The WENDTCon conveyor system design offers unprecedented flexibility coupled with a robust design that allows us to deliver complete conveyor systems faster and more efficiently than ever before. With their modular design, a WENDTCon conveyor can be easily configured for most applications.

### Engineered-to-Order

Our Engineered-to-Order conveyors offer a custom-engineered solution that can be specifically tailored to a particular application and our customer's requirements. With various drive, pulley, idlers, and construction options, these specialized conveyors give customers the ability to customize them to fit their business needs.



# MODULAR COMPONENTS

WENDT offers a full range of modular components that deliver a professional installation in a well-engineered package, while significantly reducing installation time and costs. From operator controls to compressors and hydraulics, our modular components are delivered pre-plumbed and wired in a containerized package. These turnkey enclosures arrive on site tested and ready to plug and play.



Compressor House



Fluid Power House

## BATCH FEEDERS

WENDT's unique portfolio of configurable batch-feeding systems are specifically built to handle raw, unsized automobile shredder residue (ASR) with pokers and oversized material removed. Our systems deliver superior separation performance with a consistent, volumetrically-controlled flow of feedstock.

- Modular design with standard options for quick turnaround time
- Multiple heights from 20-48 feet
- 10-25 TPH capacity with Integrated Batch Feeder option
- 25-70 TPH capacity with Auxiliary Feed Hooper option

## TROMMELS

WENDT Trommels are developed with a rotary-type screen and are effective in separating various material types into three particle sizes: small, large and overs. Designed to handle the toughest applications, our Trommels are available in square and round tubes and three standard sizes: 5'x25', 8'x40' and 8'x50'. Custom sizes are also available upon request.



Integrated Batch Feeder Option with 5'x25' Trommel



Electrical House



# CONTROL SYSTEMS

From simple push-button controls, to advanced automation, diagnostic, and reporting systems, WENDT's in-house controls group creates tailor-made solutions for your project. Whether it be a green-field installation or upgrading/retrofitting an existing system, our control systems are designed to optimize operating efficiencies and provide the tools our customers need to maximize uptime and minimize operating costs.

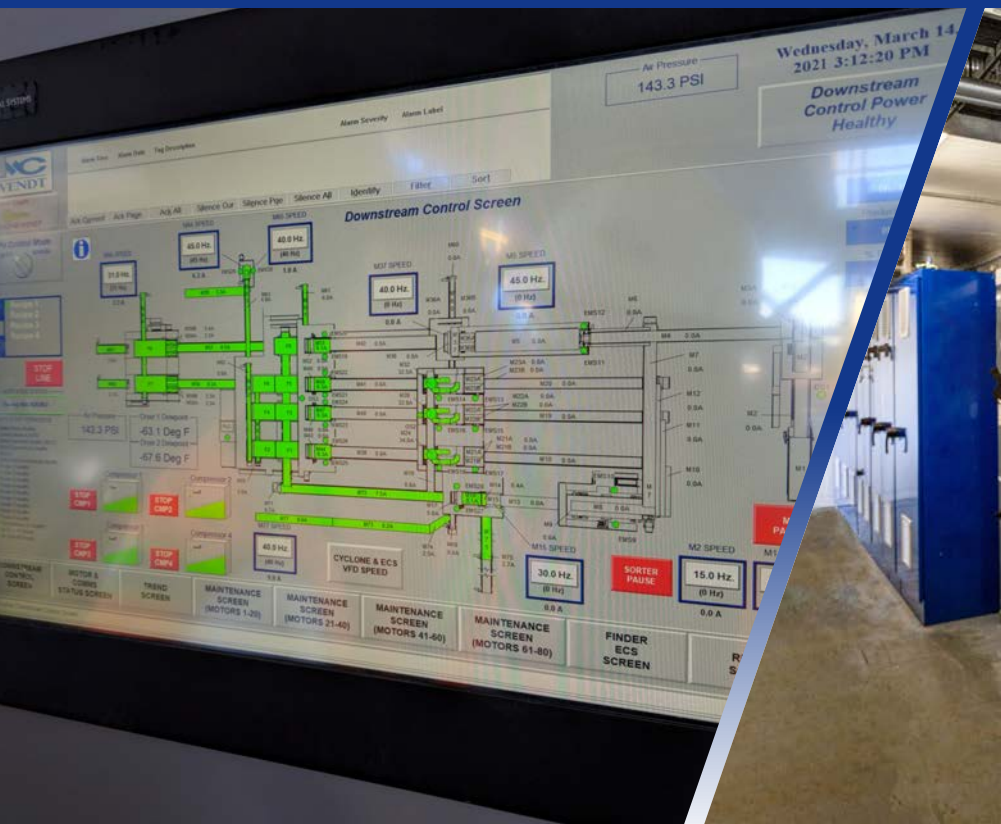
- Sensor-based automation, advanced diagnostics, and troubleshooting utilizing IoT technology
- WENDT AutoDriver for autonomous shredding
- WENDT custom-engineered Motor Control Center (MCC) for the scrap industry
- Mobile system control for remote HMI
- Additional controls, customer-specific customizations, and other features available upon request
- Remote Support System (RSS), which allows WENDT's engineers to quickly diagnose and assist our customers
- Historian data-collection system option available



# RESEARCH & DEVELOPMENT

A key element to our success is striving for process excellence through continuous innovation and improvement. WENDT invests heavily in research and development and in process-improvement resources such as our Showroom. WENDT's Showroom features the latest and most-advanced technology and equipment available and serves as a testing ground for customers and prospective customers. WENDT is minimizing customer risk by providing data-driven recommendations that are appropriate for each individual customer and application.

- Operation of various technologies in our own test facility, plus dozens of machines available worldwide
- Test with material or equipment that may be in consideration for a project
- Validate plant designs, equipment selections and determine recovery opportunities obtainable
- Mass Balance Report
- Detailed ROI Analysis



# POST-SALE SUPPORT

WENDT's capabilities extend to fully supporting your scrap processing operation far beyond the initial purchase. By building long-term partnerships with our customers, we provide on-going support throughout the entire life cycle of your equipment. With a comprehensive line of spare parts, technical support, and broad range of services unmatched in the industry, WENDT's trusted service team keeps you operating at maximum performance.



- 24/7 service & support
- Multi-million-dollar parts inventory
- Service Engineers
- Field Service Technicians
- On-site operator training
- Remote diagnostic & troubleshooting support
- On-site equipment/system improvement service repairs, maintenance & optimizations
- Health checks with maintenance status reports & recommendations
- Equipment upgrades
- Commissioning





## WENDT CORPORATION

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