

# EXPERIENCE

PERFORMANCE

# ACCURACY

PRECISION

# CONTROL



BLENDING AND  
LOAD-OUT SYSTEMS  
FOR BULK MATERIALS

# WALCONIA

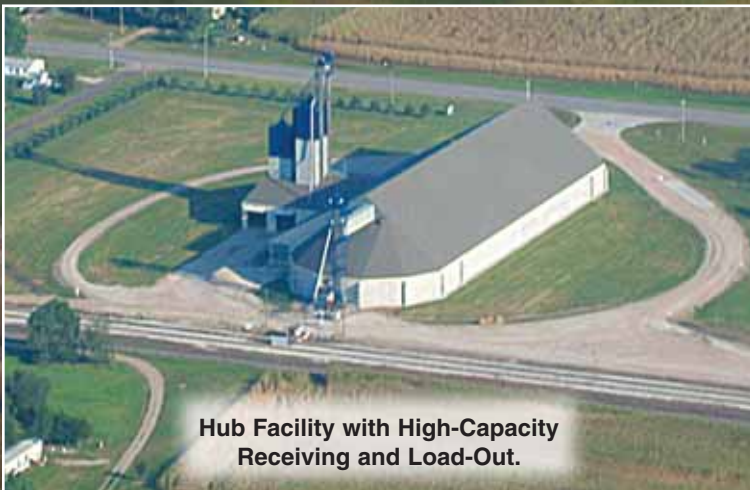




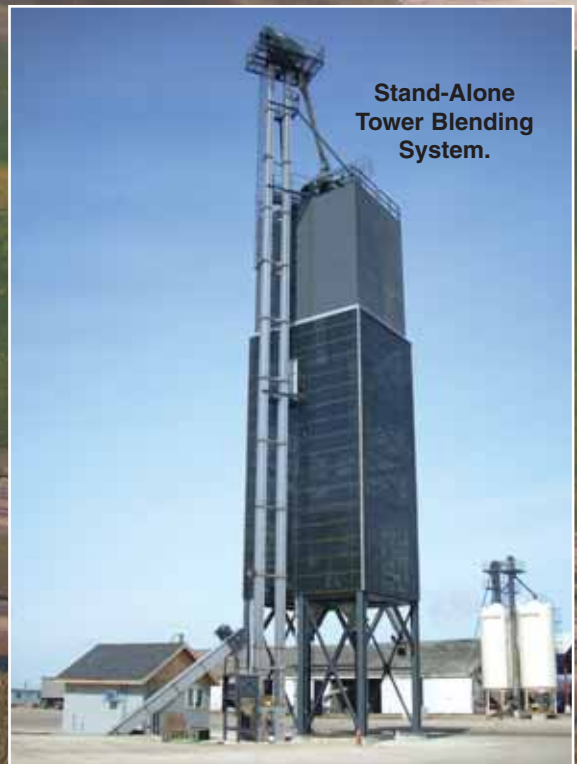
**Tower  
Bucket Elevators  
with 100-400 TPH  
Capacity.**



**Separate Lanes for Blended  
and Straight Loads.**



**Hub Facility with High-Capacity  
Receiving and Load-Out.**



**Stand-Alone  
Tower Blending  
System.**





High-Speed Retail Blending Facility.



Multiple Load-Out Points.



Environmentally Sound — All Product is Captive Until Discharged into Trucks.

**Fertilizer blend towers may all look the same, but they're not.** Waconia Manufacturing pioneered the tower system, and we've led the way with virtually every major advancement in blending towers since.

**We simply build them better, and it shows!**

**Our systems are performance engineered** to blend faster, be easier to maintain and last longer. You can count on Waconia to deliver an unsurpassed level of craftsmanship, unmatched engineering capabilities, superior after-the-sale support and a people-friendly attitude that's second to none!



**Your operation is unique.** That's why your materials handling equipment needs to be specifically designed around your plant's layout, volume, regulatory and community concerns, future expansion plans and more.

**Listening to your individual needs** and **unmatched expertise in the application of various equipment** is where Waconia's experience really pays off. From the day our engineers measure your site, through final installation, **our goal is your 100% satisfaction.**

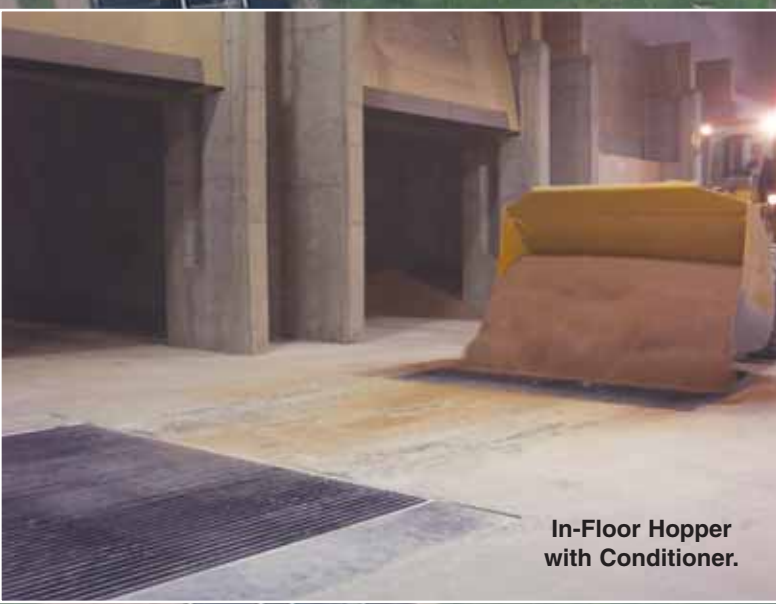
Receiving Systems Engineered & Manufactured for Your Facilities Specific Needs.



Spout to 2nd Load-Out Lane From Scale Hopper.



In-Floor Hopper with Conditioner.







**Room With A View!**



**Easy-To-Use Controls.  
Controls Can Be Automated.**



**Dust Devil  
Load-Out  
Spouts.**



**Stainless Steel Product-Contact Areas. Air-Operated Valves.**

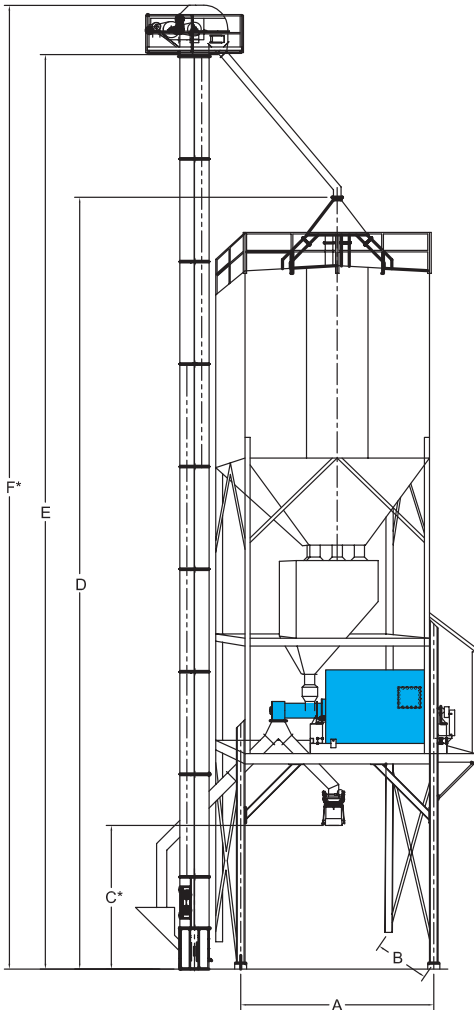
## Tower With Orbital Blender

**Orbital batch blenders provide** the most consistent blend quality possible. Choose from 4, 6, and 8-ton drum sizes.



## Tower With One (1) Vertical Blender

**Vertical batch blenders feature** a tapered auger design that's incredibly fast. Sizes range from 6-ton to 18-ton. Design allows for future expansion to 2 vertical blenders.



### BUCKET ELEVATORS

Stainless or mild steel.  
Heavy-duty construction throughout.  
60 to 1,200 TPH capacities.

### DISTRIBUTORS

Available with remote manual-positioning and electric readout or fully electric-positioning and readout.

### BINS

Up to 200-ton holding capacity.  
Standard models in 6 and 9-bin configurations. High/low bin-level indicators.

### VALVES

Electric-actuated, air-cylinder gate control for accurate weights. Dust-tight gates and scale-hopper connection with air return for dust-free operation.

### SCALE HOPPER

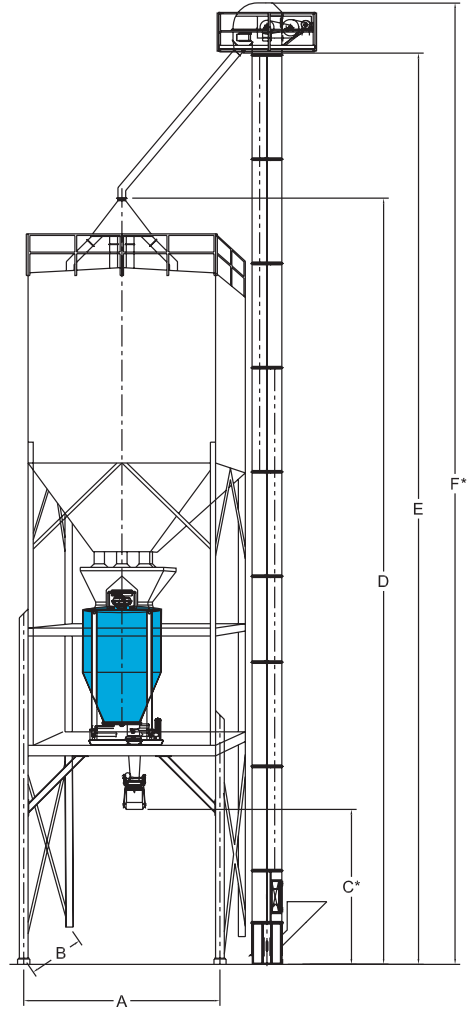
Totally enclosed with quick-access door. Standard models have digital indicator and single load-cell (printer optional). NTEP certified.

### BLENDEES

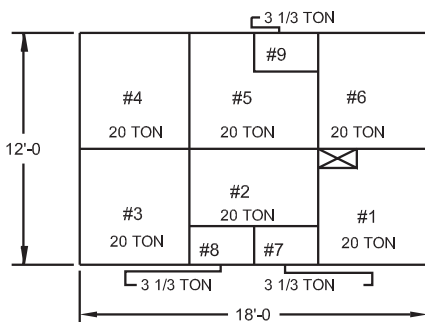
Choose orbital in 4, 6 & 8-ton or vertical in 6, 8, 10, 12, 14 & 18-ton. Dust-tight blending, positive discharge.

### DISCHARGE

Direct to truck. Optional valve allows discharge to bucket elevator for re-elevating to holding or bagging bins and spout to 2nd lane.



**A Variety Of Bin Configurations Are Available. This Is An Overhead View Of Our Model 130-9**



## Blend Tower Sizes, Specs & Bin Configurations

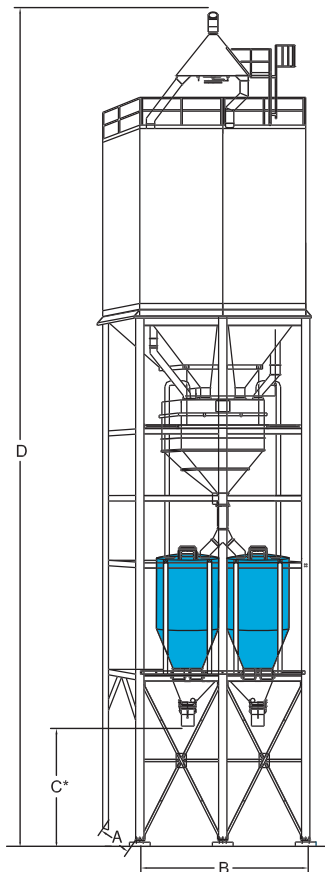
Model	90-9	120-6	130-9	150-6	150-9	200-9*
Capacity	90-Ton	120-Ton	130-Ton	150-Ton	150-Ton	200-Ton
Bin Configuration	(6) 13.5-Ton (3) 3.3-Ton	(6) 20-Ton	(6) 20-Ton (3) 3.3-Ton	(6) 25-Ton	(6) 23.3-Ton (3) 3.3-Ton	(6) 25-Ton (1) 40-Ton
A	16'-0"	18'-0"	18'-0"	18'-0"	18'-0"	16'-0"
B	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	20'-0"
C	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	15'-6"
D	68'-8"	73'-8"	75'-5"	78'-8"	78'-8"	93'-5"
E	81'-0"	86'-0"	91'-0"	96'-0"	96'-0"	105'-0"
F	87'-0"	92'-0"	97'-0"	102'-0"	102'-0"	111'-0"

\* "C" dimension allows sufficient space for installation of Waconia **Dust Devil**.  
"F" dimension will vary with location of bucket elevator to tower.  
Model 200-9 requires (2) 10-ton, 12-ton or 14-ton vertical blenders with scale hopper.  
Specifications subject to change without notice.  
Based on 60 PCF material.



## Tower With Two (2) Vertical Blenders

Towers equipped with two vertical blenders are designed for high-volume throughput.



### DISTRIBUTORS

Available with remote manual-positioning and electric readout or fully electric-positioning and readout.

### BINS

Up to 200-ton holding capacity. Standard models in 6 and 9-bin configurations. High/low bin-level indicators.

### VALVES

Electric-actuated, air-cylinder gate control for accurate weights. Dust-tight gates and scale-hopper connection with air return for dust-free operation.

### SCALE HOPPER

Totally enclosed with quick-access door. Standard models have digital indicator and single load-cell (printer optional). NTEP certified.

### BLENDERS

Two vertical blenders in 6, 8, 10, 12 or 14-ton capacities. Dust-tight blending, positive discharge.

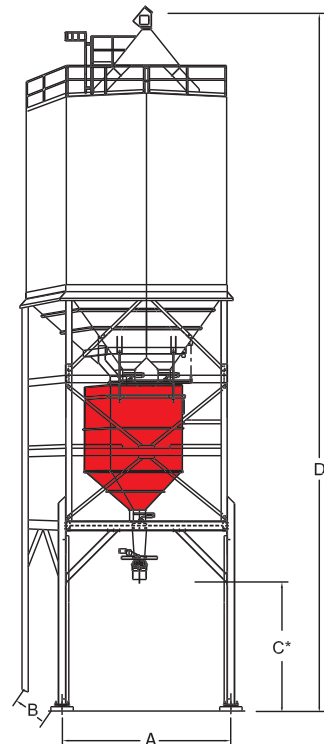
### DISCHARGE

Direct to truck. Optional valve allows discharge to bucket elevator for re-elevating to holding or bagging bins.

## Bulk / Wholesale Towers

These towers are designed to load-out straight product. They utilize holding bins just like a blend tower, but they don't have a blending drum. Throughputs range from 60 to 400 TPH.

Individual ingredients are fed into the NTEP approved weigh hopper and then discharged directly to a waiting vehicle or tender.



### Blend Towers W/Dual Blenders

Model	150-9	200-7
Capacity	150-Ton	200-Ton
Bin Configuration	(6) 23.3-Ton (3) 3.3-Ton	(1) 51-Ton (2) 58-Ton (2) 29-Ton (2) 7-Ton
A	18'-0"	16'-0"
B	12'-0"	20'-0"
C	14'-0"	14'-6"
D	89'-2"	97'-4"

### Blend & Bulk Tower Specifications

- Bins constructed of 3/16" mild steel or stainless steel
- Heavy duty structural supports — blast cleaned and coated with epoxy primer and an enamel finish
- NTEP approved scales
- Stainless steel scale hoppers and blenders
- Tower control panel — UL and CSA approved

### Bulk/Wholesale Tower Specifications

Model	BWT-120	BWT-150	BWT-200
Capacity	120-Ton	150-Ton	200-Ton
Bins	(4) 30-Ton	(4) 37.5-Ton	(4) 50-Ton
A	18'-0"	18'-0"	16'-0"
B	12'-0"	12'-0"	20'-0"
C	14'-6"	14'-6"	14'-6"
D	70'-7"	75'-7"	97'-4"

\* "C" dimension allows sufficient space for installation of Waconia Dust Devil.

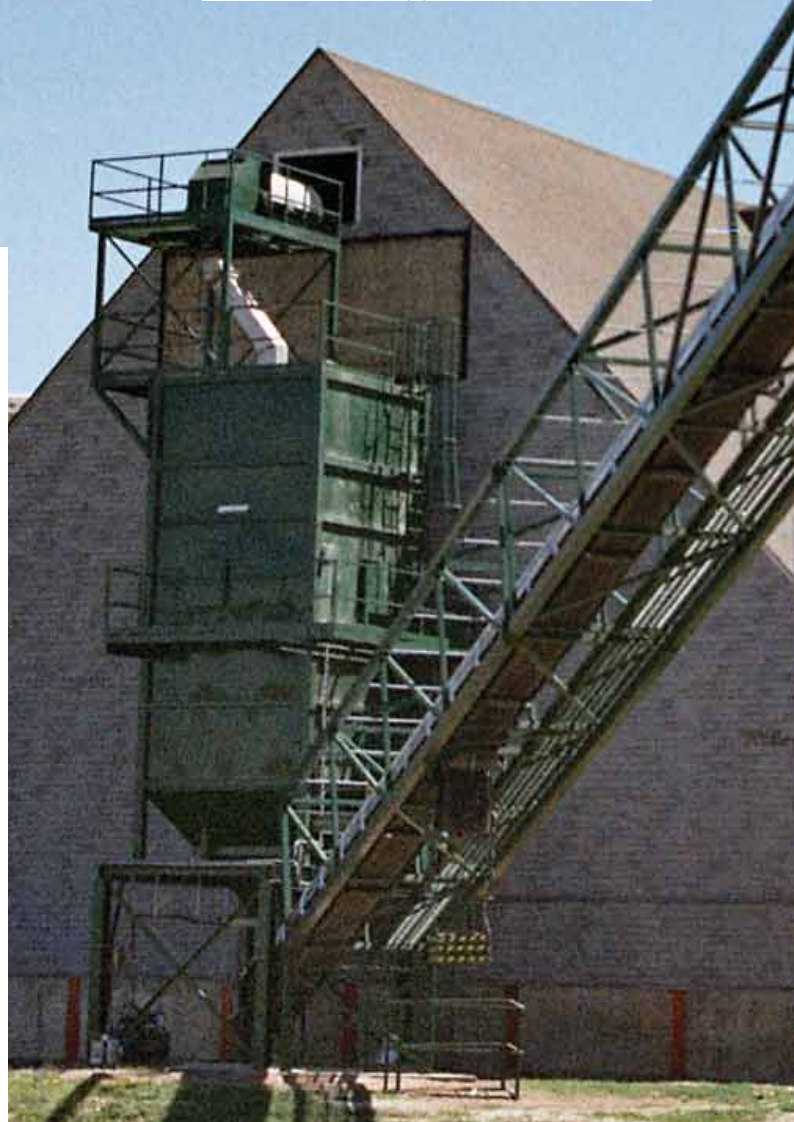
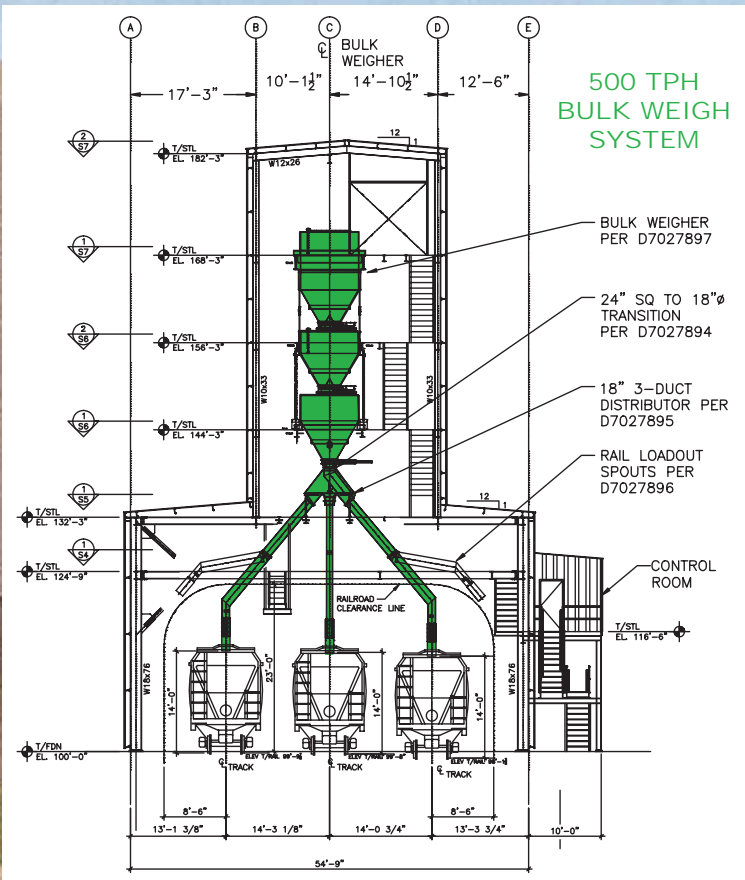
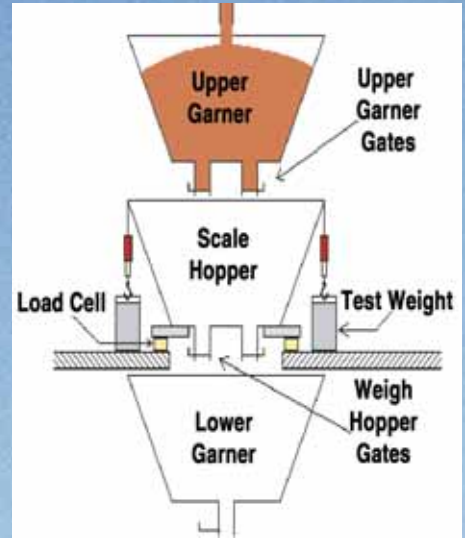
### Options

- Various bin and blender configurations
- Re-elevate package
- 70 ton through 200 ton towers
- Stainless steel tower bins
- Manual or electric distributor and dust spouts

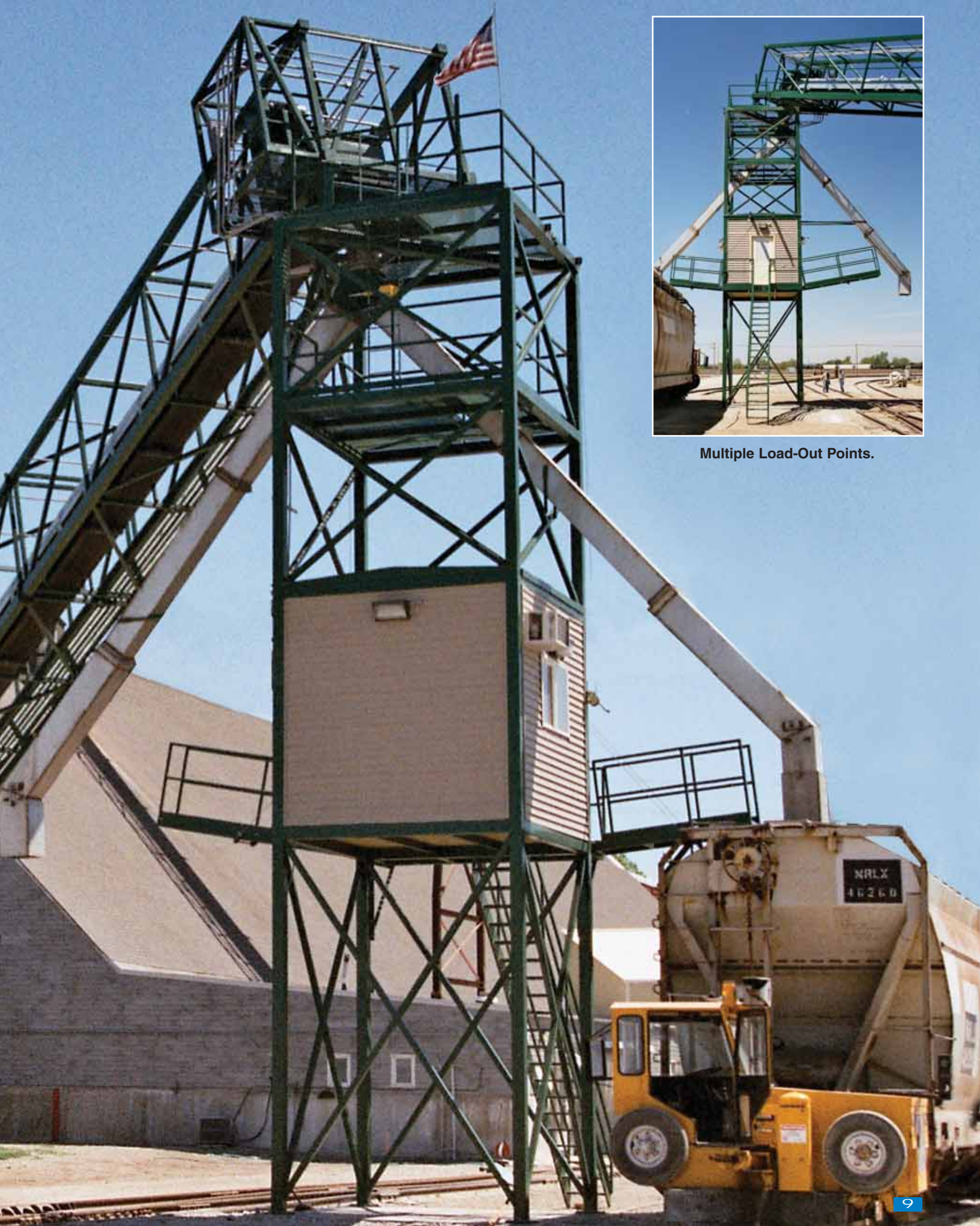
**Bulk Weigh Systems can save you a tremendous amount of time**, because they continuously weigh and discharge virtually any free-flowing bulk material. Systems designed and manufactured by Waconia are in operation throughout North America. Capacities range from 15 TPH to 3,100 TPH.



**We design the air/hydraulic power system and all the control devices necessary for operation. And our designs are NTEP certified.**





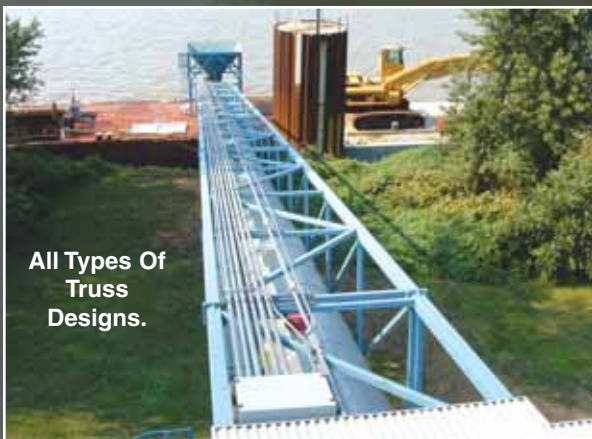
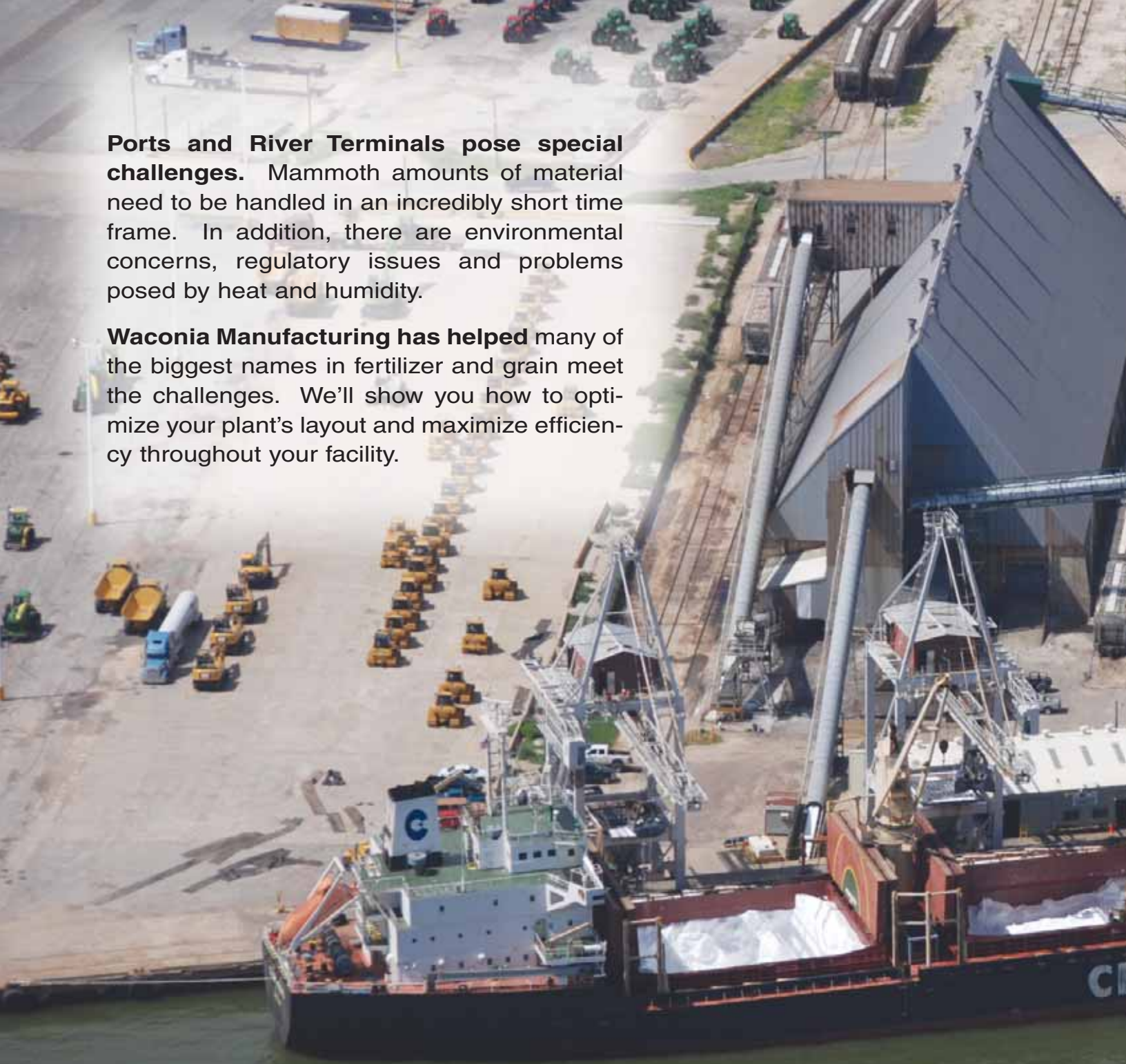


Multiple Load-Out Points.



**Ports and River Terminals pose special challenges.** Mammoth amounts of material need to be handled in an incredibly short time frame. In addition, there are environmental concerns, regulatory issues and problems posed by heat and humidity.

**Waconia Manufacturing has helped** many of the biggest names in fertilizer and grain meet the challenges. We'll show you how to optimize your plant's layout and maximize efficiency throughout your facility.



All Types Of Truss Designs.

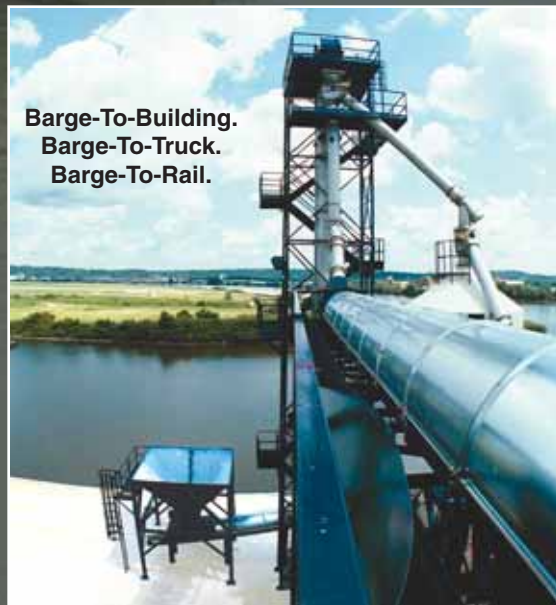


Virtually Unlimited Receiving and Load-out Capacity.





**Barge Hoppers, Lump Breakers  
and Product Conditioners.**



**Barge-To-Building.  
Barge-To-Truck.  
Barge-To-Rail.**



Incline Truss Conveyors.



Totally-Enclosed Truss Conveyors.



**Skimping on materials and taking shortcuts in construction isn't how we do business.** Compare the steel and welds in our truss conveyors to one of our competitors and see what we mean.

**Every truss we build** — box, hand rail, walk-through and totally enclosed — is engineered specifically for the application and built in our own plant. We engineer and manufacture all the support towers and A-frame supports as well.





Enclosed Truss Provides Clean and Controlled Environment.



Galvanized Rain Covers.


Walkway.



Long-Span and Walk-Through Truss Conveyors.

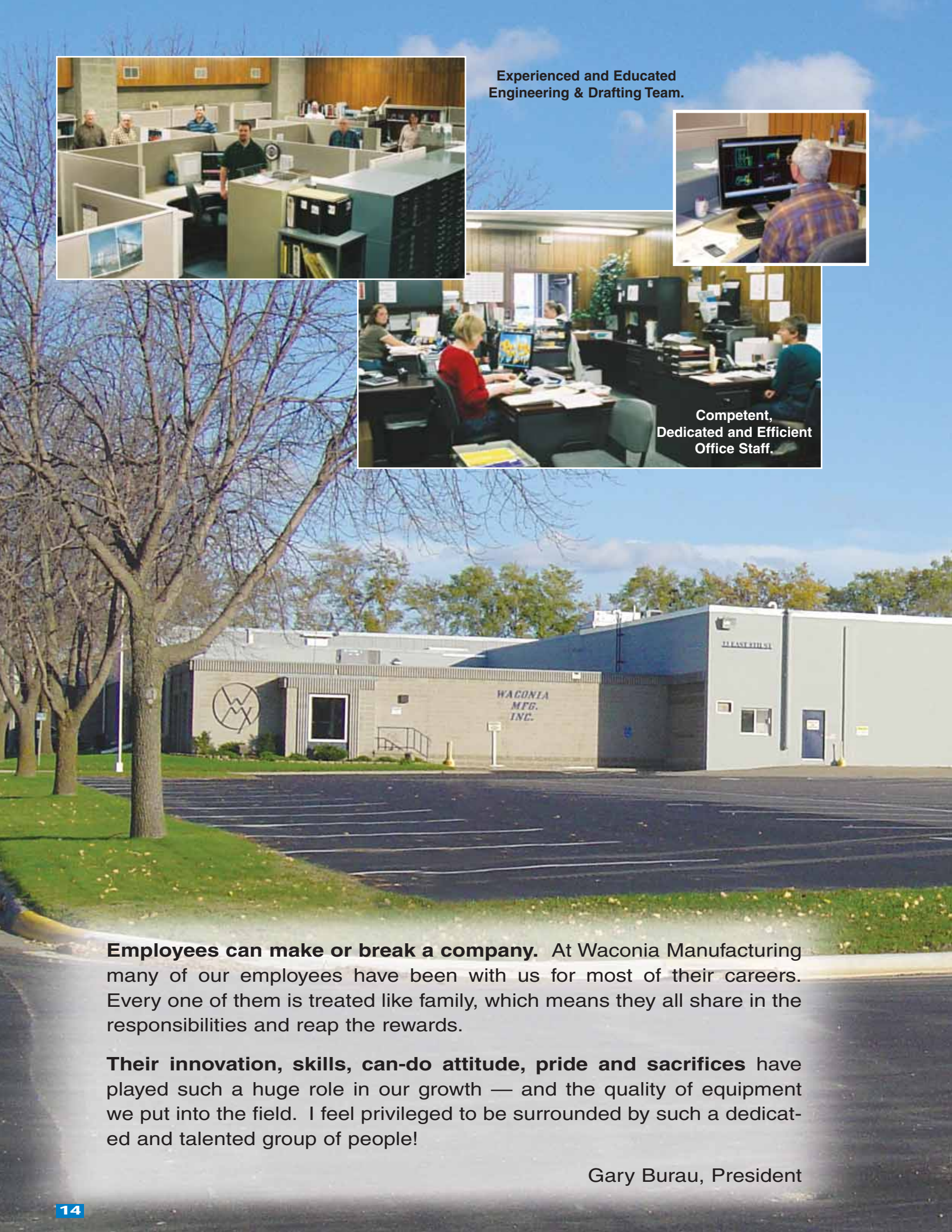






Experienced and Educated  
Engineering & Drafting Team.

Competent,  
Dedicated and Efficient  
Office Staff.



**Employees can make or break a company.** At Wagonia Manufacturing many of our employees have been with us for most of their careers. Every one of them is treated like family, which means they all share in the responsibilities and reap the rewards.

**Their innovation, skills, can-do attitude, pride and sacrifices** have played such a huge role in our growth — and the quality of equipment we put into the field. I feel privileged to be surrounded by such a dedicated and talented group of people!

Gary Burau, President





Ready For Delivery.



Inside Storage Protects Steel from the Elements.



Craftsmen At Work.



It's All About the Welds.



# *PLANT AND PROCESS DESIGN, ENGINEERING AND EQUIPMENT FOR FERTILIZER.*

*ANY CAPACITY.*

*ANYWHERE IN THE WORLD!*



- Receiving and Handling Equipment
- Blend Systems — Floor and Tower
- Dry Fertilizer Systems
- Delumping and Bagging Systems
- Fertilizer Plant Design
- Inland Terminals
- Port Receiving & Loading
- River Receiving & Loading



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