Presentation Overview

• Columbia Okura History & Update
• Strategic Partnership with Statec Binder
• Bagging Technology
  a. Types of Bags
  b. Machine Models and applications
  c. Net Weighers
  d. Bag Closing Equipment

• Robotic Palletizing Technology/Capabilities
  a. Flour palletizing applications – Bags, bundles etc.
  b. Bag Accessories
Our Company

• Headquartered in Vancouver, WA
• Established 1996
• Joint Venture between Columbia Machine and Okura Yusoki
• 53 Employees
• Robotic Palletizing Experts
750+ Systems Sold
Strategic Partnership

• Industry leading robotic bag palletizing expertise
• Designs, integrates, and commissions end of line robotic palletizing solutions
• Delivering custom engineered solutions meeting demanding customer requirements

• Worldwide market leader in high speed bagging
• High quality product range
• High reliability, innovation and precision
• 40 years of experience

INTEGRATION DRIVING PRODUCTIVITY
• Located in **Gleisdorf**
  Austria

• All machines are manufactured in
  Austria

• Approx. 50 employees
STATEC BINDER machines can handle different types of bags:

- Paper
- PE - bags
- PP - woven bags

Changing to other types or formats of bags need only short time!
Open Mouth Bagging Machines

principac
up to 2000 bags per hour for open mouth bags

certopac
up to 1500 bags per hour for open mouth bags

acropac
up to 600 bags per hour fully automatic packaging machine for open-mouth bags

circupac
up to 1200 bags per hour fully automatic packaging carousel for open-mouth bags

Form Fill Seal Machines

system-T
up to 2400 bags per hour Form, fill & seal from tubular PE

system-F
up to 900 bags per hour Form, fill & seal from flat film
CERTOPAC

Fully automatic high-speed packaging machine

- Filling system: Swivel spout
- Design capacity: up to 1500 bags per hour
- Capacity of magazine: up to 800 bags / magazine
- Number of magazine: 2 / 4
- Bag material: Paper, PE, woven PP
- Filling weight: 5 - 80 kg
CIRCUPAC

Fully automatic high-speed packaging carousel

Filling System: Carousel

Design capacity: up to 1200 bags per hour

Capacity of magazine: up to 800 bags / magazine

Number of magazine: 1

Bag material: Paper, PE, woven PP

Filling weight: 10 - 50 kg
CIRCUPAC
system-T

Form-Fill-Seal packaging machine

up to 2400 bags per hour

Filling system: FFS
Design capacity: up to 2400 bags per hour
Roll material: Thermoplastics and compound materials
Package types: Flat and gusseted
Filling weight: 5 - 50 kg
Max. diameter of roll: 1500 mm
SYSTEM-T
Net weighers

Belt fed net weigher
for moderately flowing products

Gravity fed net weigher
for free flowing products

Screw fed net weigher
for fine and powdery products
Bag closing systems

Automatic sewing machine with plain infeed or bag top folder

Automatic bag closing system with double sewing head

Automatic bag closing system with a heat sealed woven PP over tape
Flour Palletizing Applications

- Standard Bag Palletizing
- Controlled Bag Placement
- Stacking Bin
- Bundles
- Small Bags 10lb
- Small Bags 5lb High Speed
Standard Bag Palletizing
Controlled Bag Placement
Stacking Bin
Bundles
Small Bags 10Lb.
5lb Bag High Speed
Accessories For the Milling Environment

1. Dusty Environments
   a. Class II Div. 1 Group G Classification
   b. Sealed control panel with positive pressure & AC
   c. Sealed cable trays Nema 12 (Dust Tight)
   d. Laser sensors in place of retro reflective because of dust

2. Height Sensing – for varying bulk densities

3. Bag Printing

4. Bag Flattening
Automatic Height Adjustment
Bag Printing

• Ability to print on the butt of the bag just prior to being picked up for palletizing.
• Able to print multiple lines of information.
Bag Flatteners
Key Reasons to choose Robotic Palletizers

- **Flexibility** — Able to handle multiple product weights and sizes with little to no change over

- **Reliability** — 99% plus available uptime for palletizing

- **Low Maintenance** — Fewer moving parts

- **Safety** — Eliminates back & repetitive motion injuries

- **Easy to Program** —

- **Capable of overlap stacking bags** —

- **Low Utility Requirements** —
Thank you!