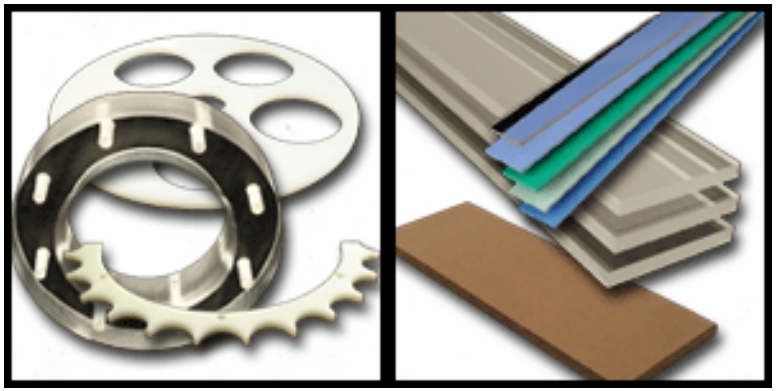
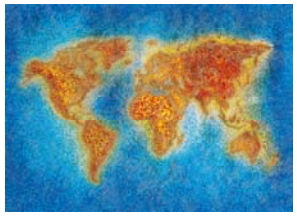
scm group USA



Machining Solutions for the Plastics Industry

scm group



- **Largest manufacturer of CNC machines for plastics, wood and composites in the world**
- **53 years engineering world class machinery**
- **3300+ employees**
- **Over $ 600 million in annual sales**
- **3,000,000 sq.ft. of manufacturing space**
- **18 mfg. plants/15 subsidiaries worldwide**
- **Over 2 mil working machines in 120 Countries**
- **Specialized Division for Plastics Machinery**

scm group USA

- **North American HQ - Duluth, GA (**80K sq.ft.)
- **Heavy Investment in Parts & Service**
- **Specialized Division for Plastics Machinery**

scm group USA

PLASTICS DIVISION

- Panel Saws designed for Plastics
- Improves Productivity & Yield
- Industry's Best Price/Performance Ratio

- Wide Range of CNC Routers for Plastics
- Excellent for Machining Small Parts
- Highly Productive Pendulum Mfg

- Wide Belt Sanders for Sizing Panel Thickness
- Precise Tolerance Planing and Calibration

- 5 Axis CNC Trimming and Routing for Solid And Thermoformed Products

GALAXY 125 PLM High Speed

PRECISION PANEL SAW for Plastic Material

GALAXY 125 PLM

KEY BENEFITS

- **Productivity - Our Customers Report Increases of 50%-200%**
- **Edge Quality – Reduces the Need for Secondary Processing**
- **Material Yield – Less Waste, More $$$ Savings**
- **Ease of Use - Powerful, Easy to Operate Software and Controls**
- **Accuracy & Reliability – Precise Tolerances for Your Customers**
- **Safety - State of the Art Features Protect You and Your Organization**

PRECISION PANEL SAW for Plastic Material

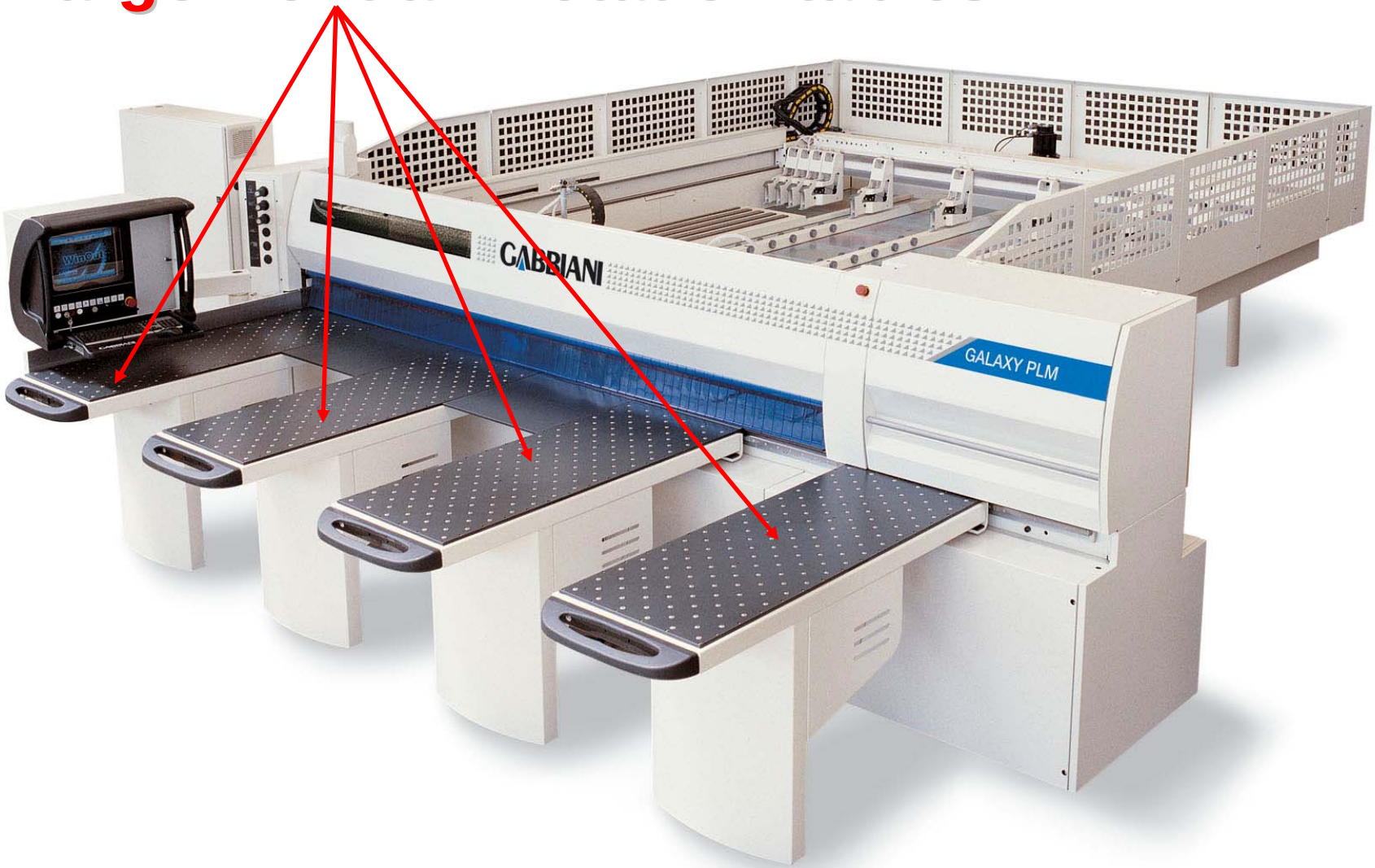
GALAXY 125 PLM High Speed

PRODUCTIVITY

PRECISION PANEL SAW for Plastic Material

Productivity: Automated Material Handling

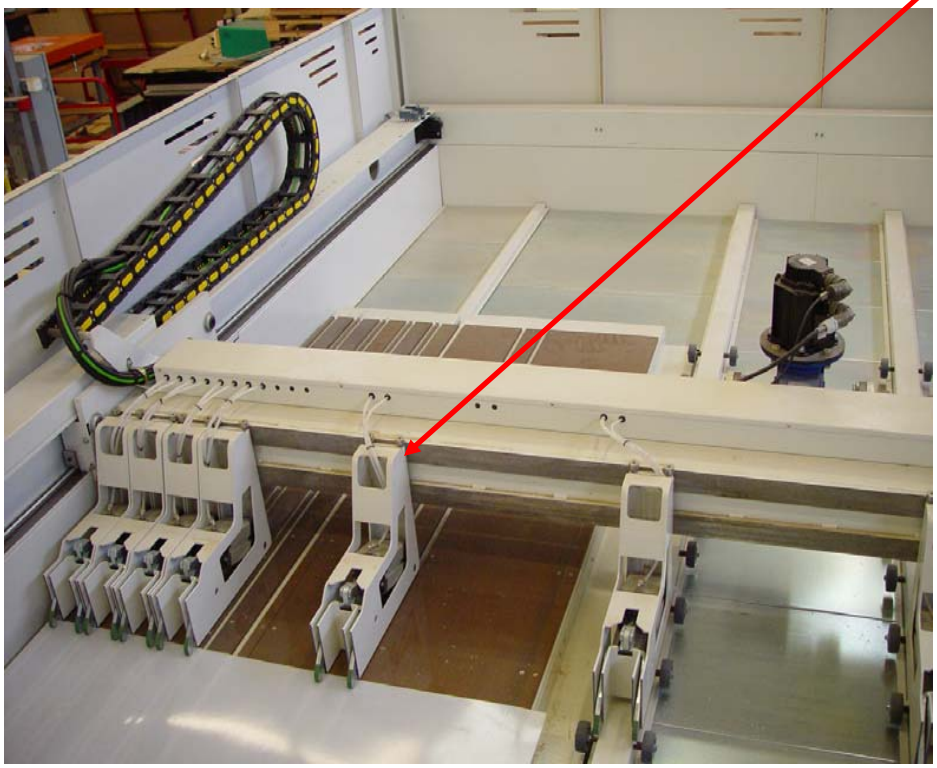
- Large front air flotation tables

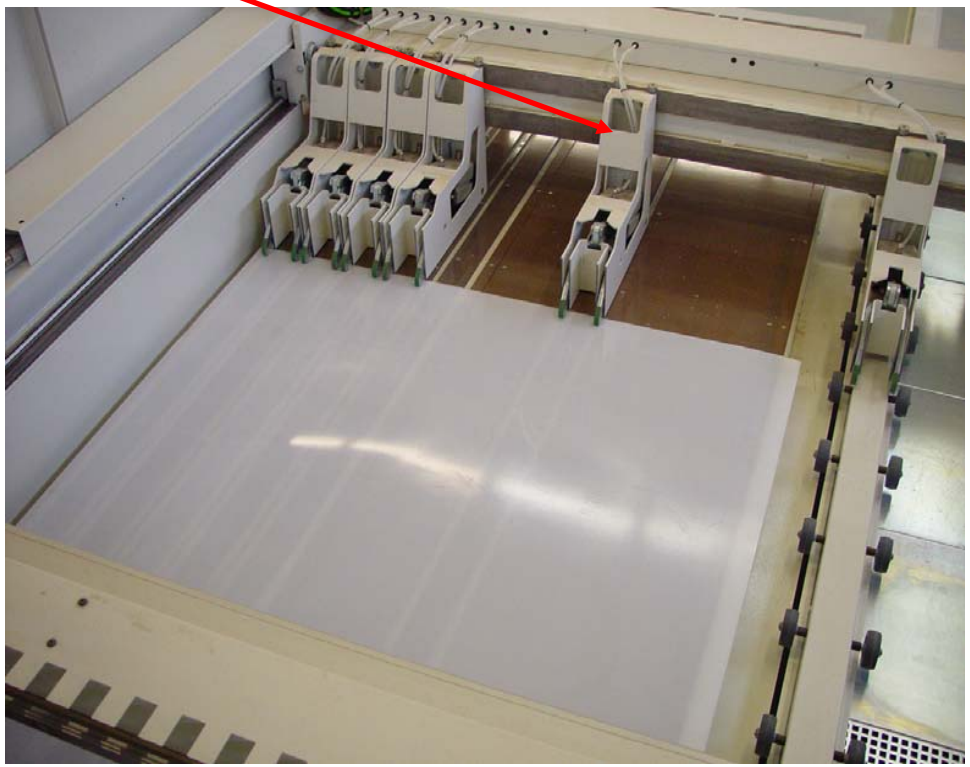


GALAXY 125 PLM High Speed

Productivity: Automated Material Handling

- High Speed pusher fence with clamps



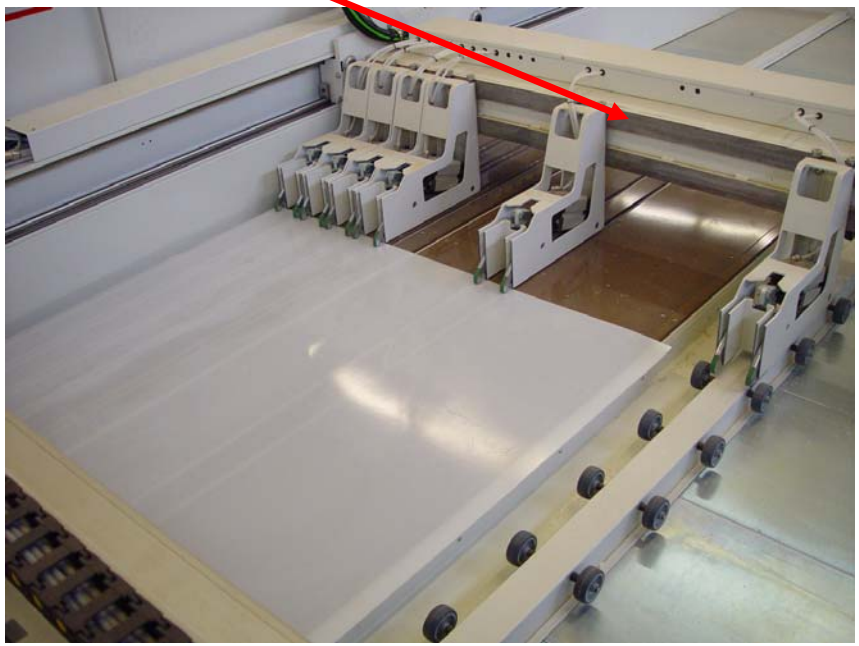


Automatically loads large, heavy stacks of material

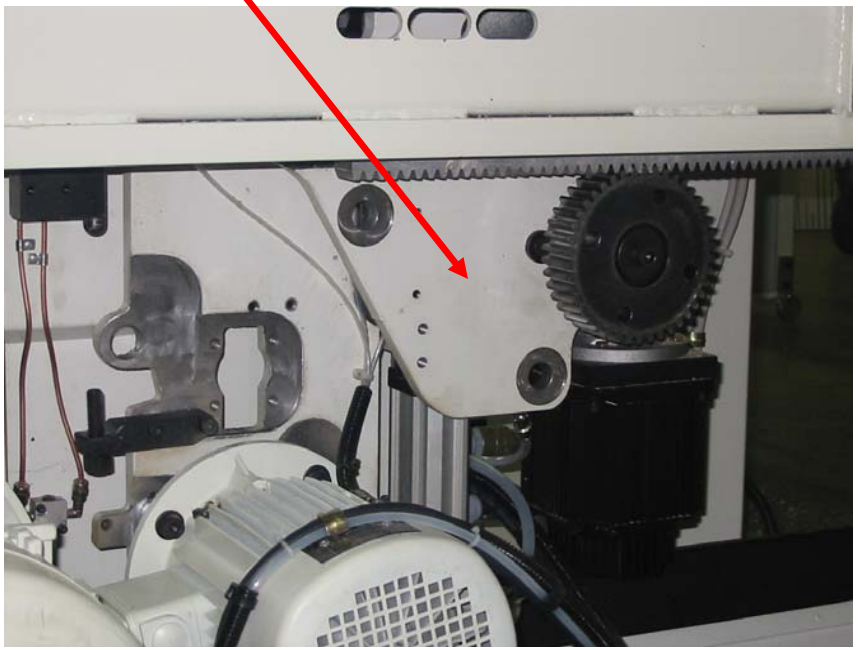
GALAXY 125 PLM High Speed

Productivity: High Speed Operation
Fastest Cycling Speeds Available

Pusher - 295 FPM



Carriage - 442 FPM



Rack & Pinion + AC Servo Drive System

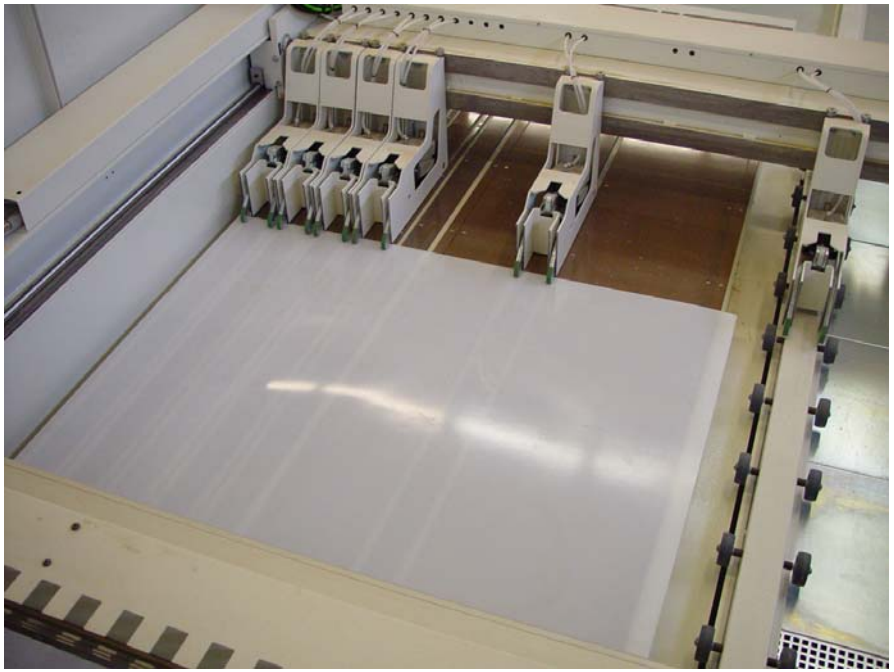
- High Speed Cutting and Return Speeds
- Quick Positioning for Fastest Cycle Times

GALAXY 125 PLM High Speed

Productivity: Quick Cycle Times
Optimized Operation

GALAXY 125 PLM High Speed

Productivity: Other Important Features



Pressure Beam Slots

- Faster Cycling Speed
- Less Manual Movement

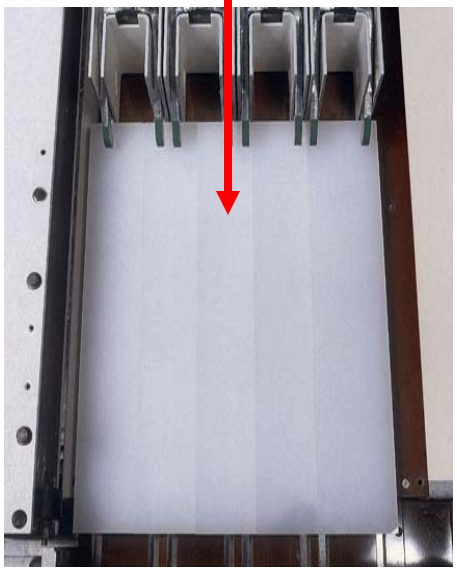
Solid Cross Cut Table

- Supports Thin Strip Cutting
- 47” (4ft) Crosscut Support

GALAXY 125 PLM High Speed

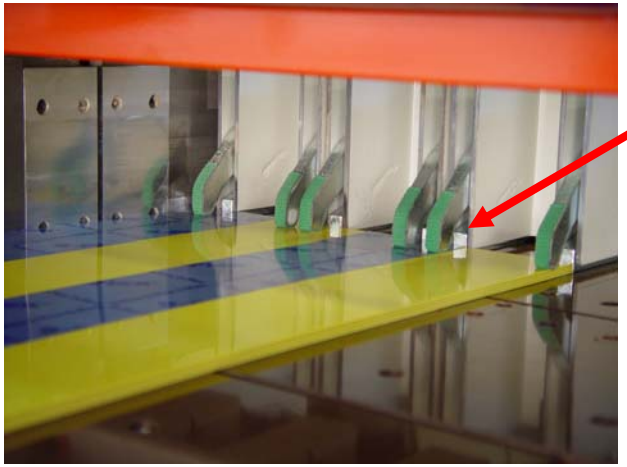
Productivity: Other Important Features

Cutting Strips



Solid cross cut table

This solid table enables a group of narrow strips and rods to be cross cut



Clamps

Clamps are arranged close together so that a group of narrow strips can be stacked, clamped and cross cut

GALAXY 125 PLM High Speed

Productivity: Other Important Features

Control Desk

- Non proprietary IBM PC
- Windows XP operating system
- Easy Access pneumatic controls

On Board Diagnostics Software

- Quick Effective Troubleshooting
- Real Time Remote Diagnostics via phone line if required

GALAXY 125 PLM High Speed

GALAXY 125 PLM High Speed

Edge Quality

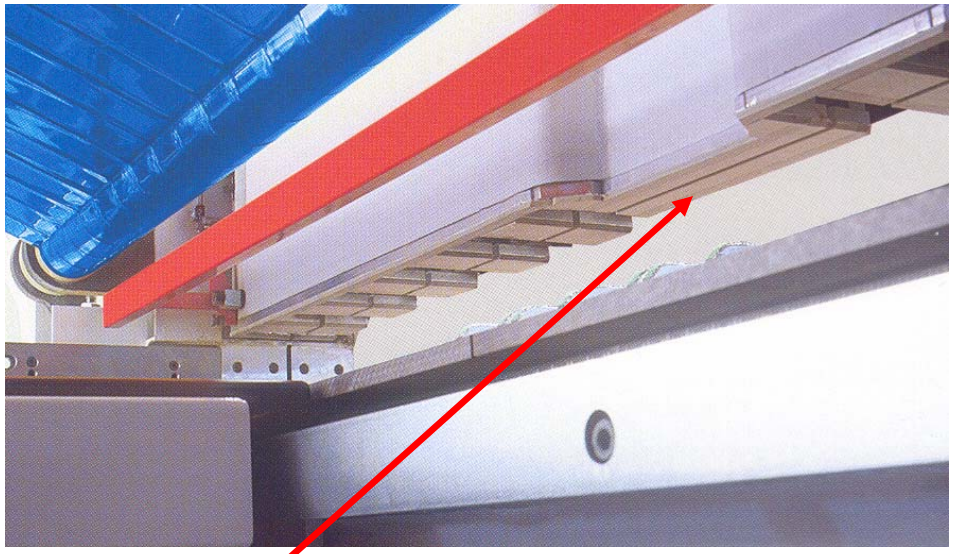
PRECISION PANEL SAW for Plastic Material

EDGE QUALITY – Specially Designed Cutting Table and Clamp System

These features eliminate vibration in the stack and enables stacks of thin material to be cut into chip free parts

CUTTING TABLE

Narrow grooves for clamp fingers allows the table to provide full support for the stack of material



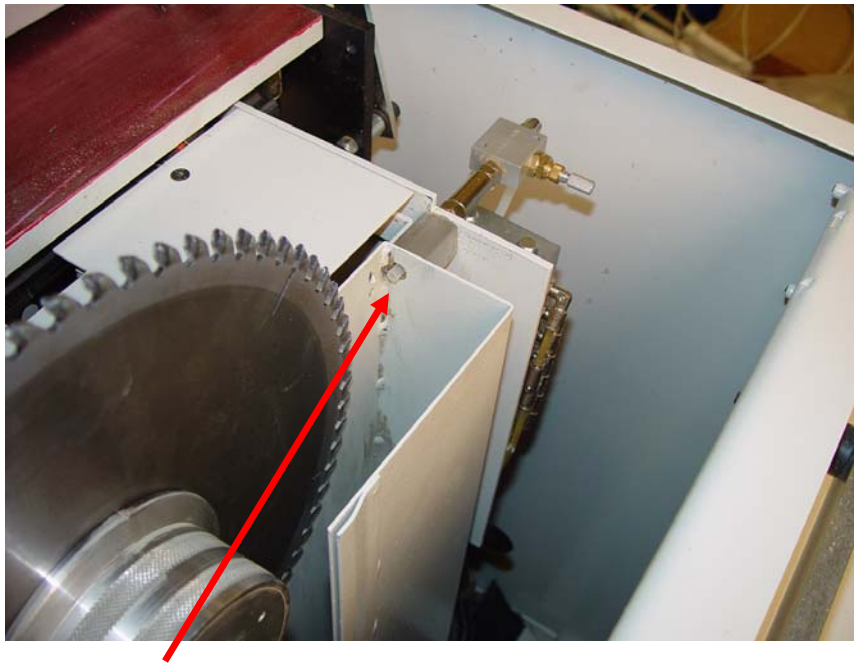
PRESSURE BEAM

Narrow opening for the blade applies full support to the stack of material

GALAXY 125 PLM High Speed

EDGE QUALITY – *CHIP FREE RESULTS*

Specially designed features to obtain highest quality edge finish



Spray Mist/Air Cooling

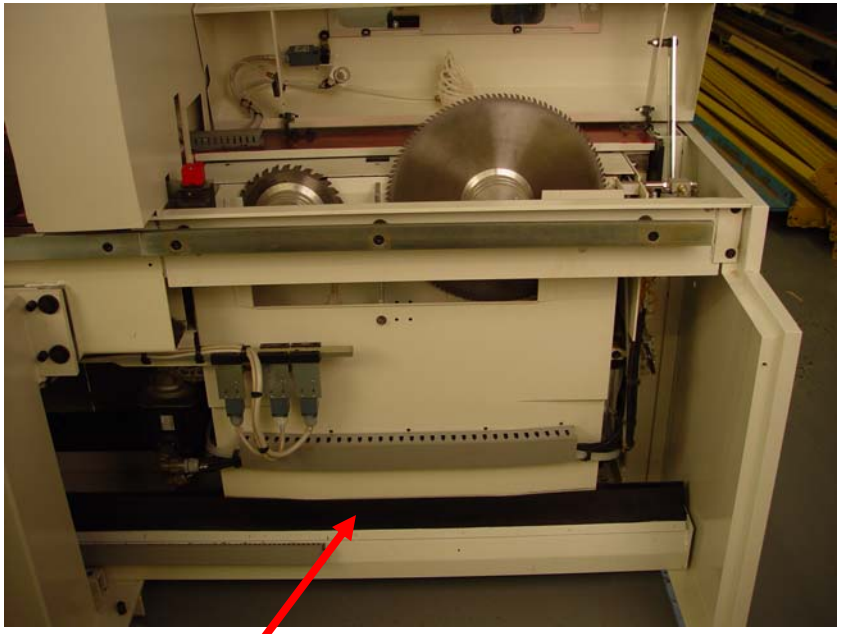
- Improves cutting quality
- Prolongs blade life

Carriage Speed & Blade RPM Control

- Carriage speed 0 – 442 FPM
- Quick Main Blade RPM Adjustment

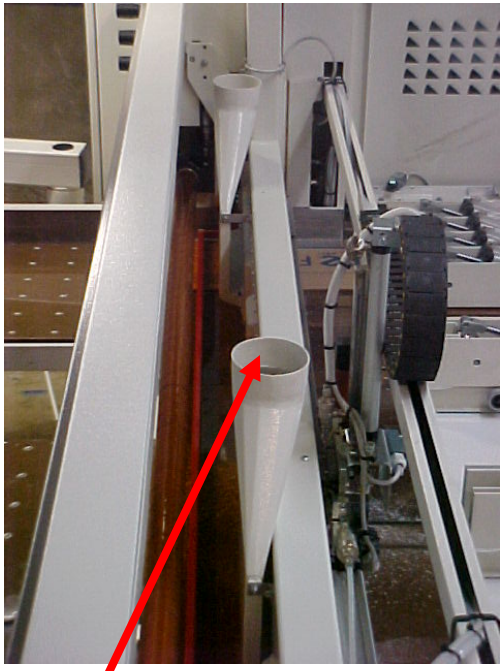
GALAXY 125 PLM High Speed

EDGE QUALITY – *OTHER FEATURES*



Dust/Chip Collection

Saw carriage is enclosed and connected with rubber lips to the dust evacuation channel which extends the entire length of the saw. This enables dust to be evacuated efficiently



Dust/Chip Collection

Four Ports provide the Galaxy PLM with maximum suction resulting in outstanding edge quality

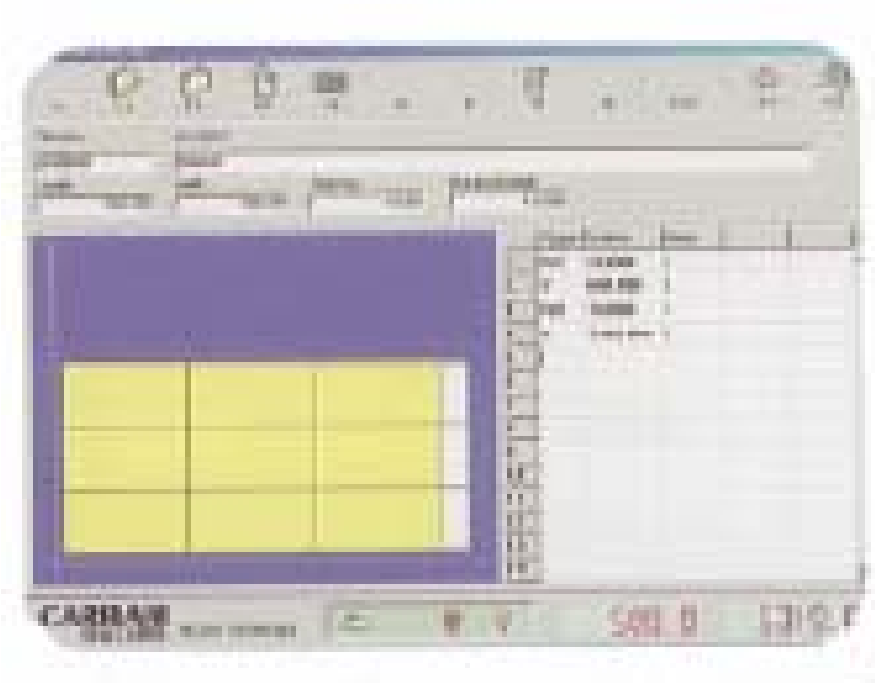
GALAXY 125 PLM High Speed

GALAXY 125 PLM High Speed

Improving Yield

PRECISION PANEL SAW for Plastic Material

IMPROVING YIELD



Optimization Software

- “Cutty” Optimization Software
- Assists your operation to obtain maximum yields from material
- Repeat work can be saved as a unique file for each job

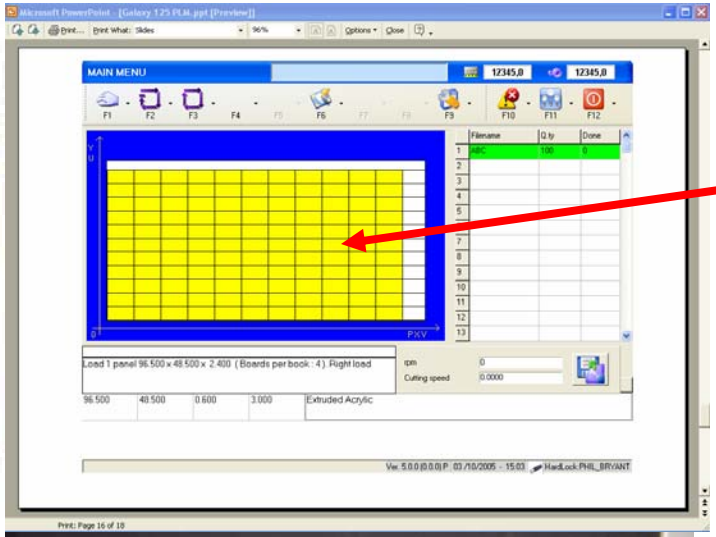
Slotted Pressure Beam

- Precision positioning maintained to the end of the sheet
- Improved material yield

GALAXY 125 PLM High Speed

GALAXY 125 PLM High Speed

PRECISION PANEL SAW for Plastic Material



Control Desk

Use of “Wincut” software automatically generates cut programs and saves the cutting parameters with each job

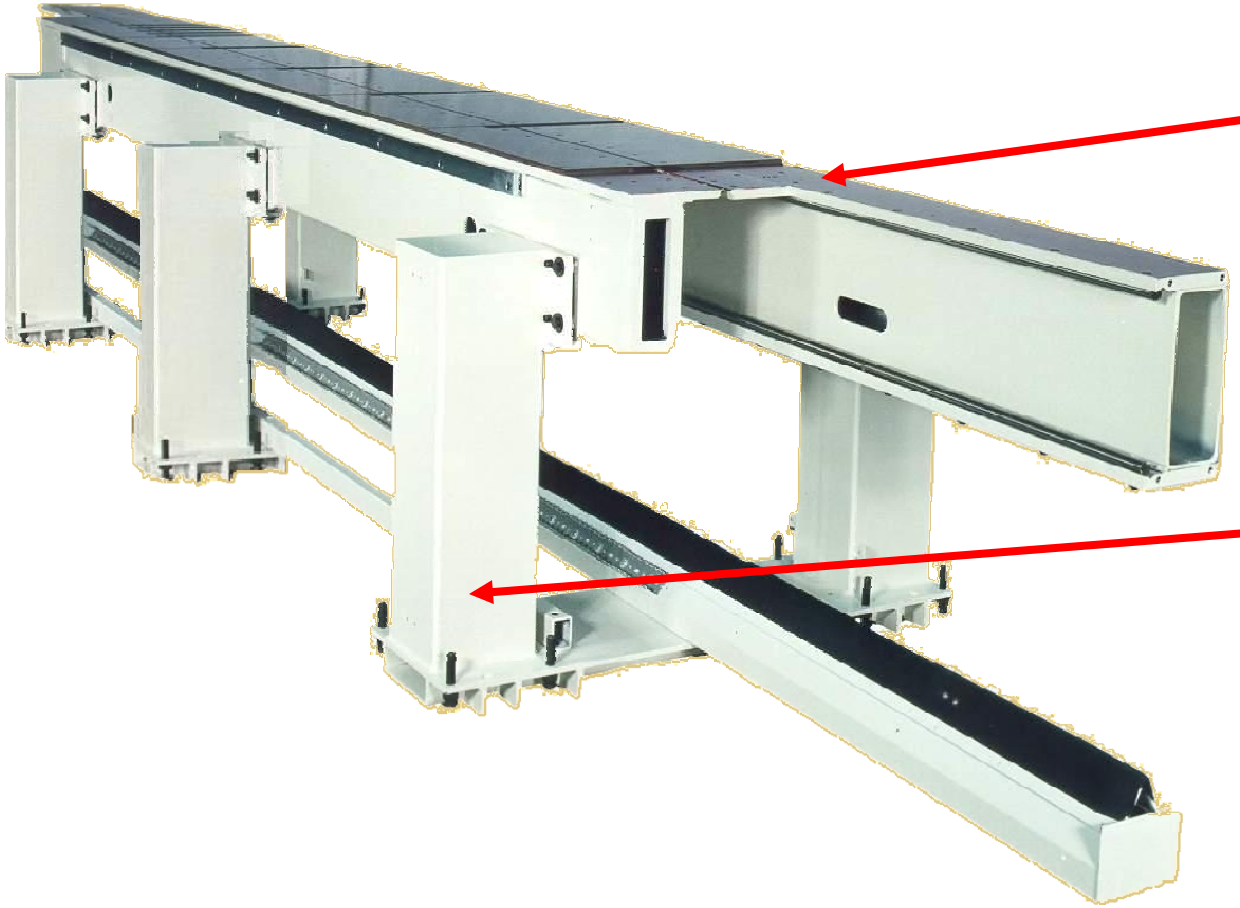
Operator control of blade RPM, and saw carriage speed both by software and potentiometer ensures optimum cutting results. Blade height is variable and easily set by saw operator.

GALAXY 125 PLM High Speed

ACCURACY & RELIABILITY

PRECISION PANEL SAW for Plastic Material

Accuracy: CNC Milled Heavy Duty Base



Solid Base Design

CNC Precision Milled Solid Steel Base

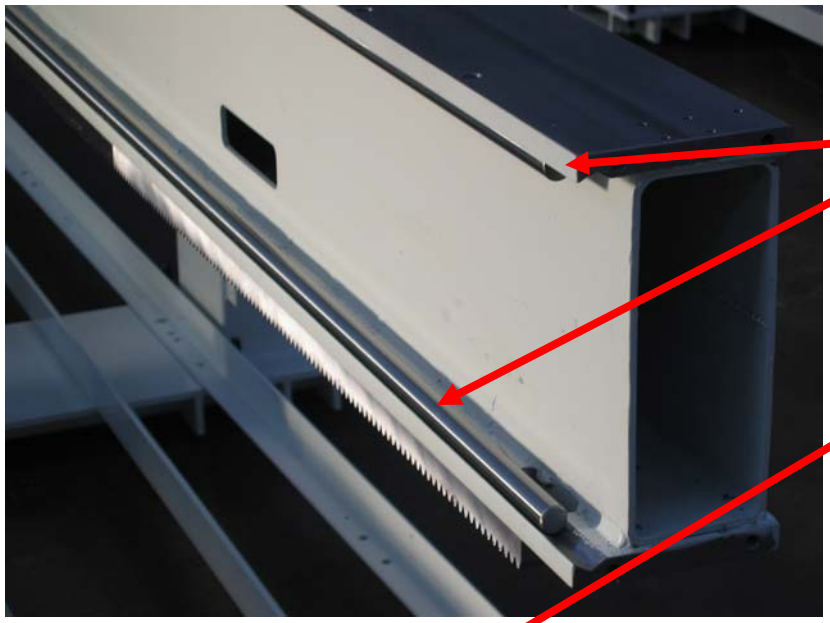
- Solid Foundation
- Supported Guideways

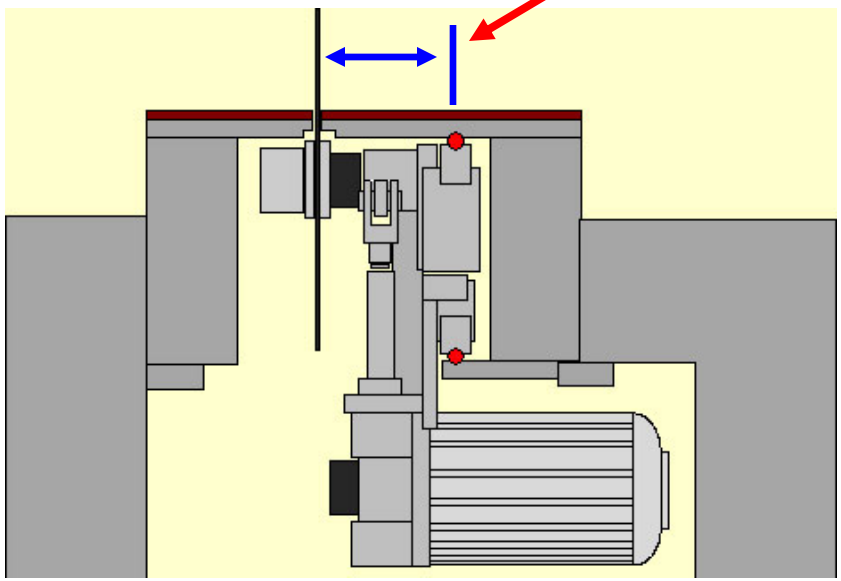
Heavy duty steel support legs

- Long-term, Precise angular accuracy
-Consistent repeatability
- Vibration free cutting

GALAXY 125 PLM High Speed

Accuracy: Superior Guide Way Design





CNC precision milled channels for hardened steel guide ways on a single beam structure.

Close proximity of blade to the guide ways on the single beam.

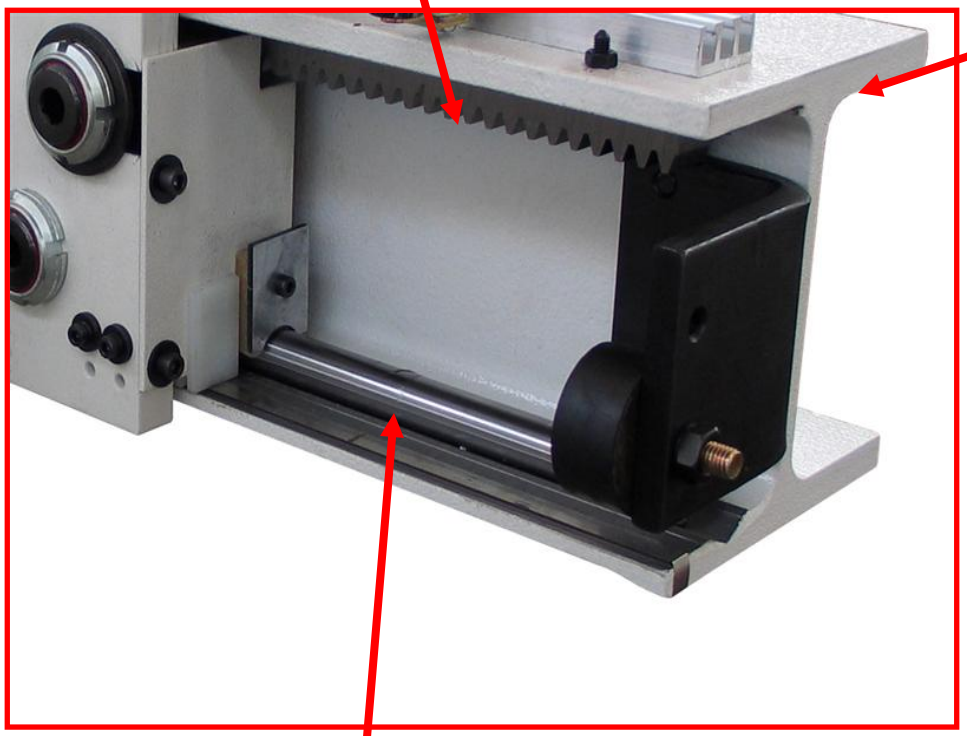
- **Angular accuracy**
- **Rigid Perpendicular Cuts**
- **Vibration free cutting**
- **High Speed Cycling**

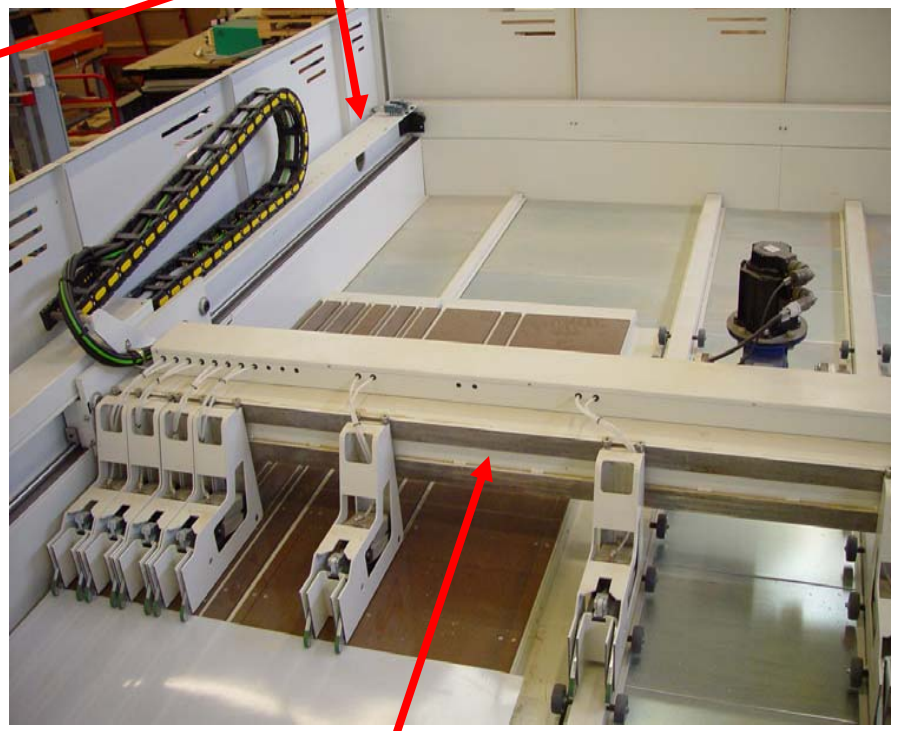
GALAXY 125 PLM High Speed

Accuracy/Reliability: Precision Pusher/Fence

Rack & Pinion Drive

Heavy Duty Steel I-Beam Construction



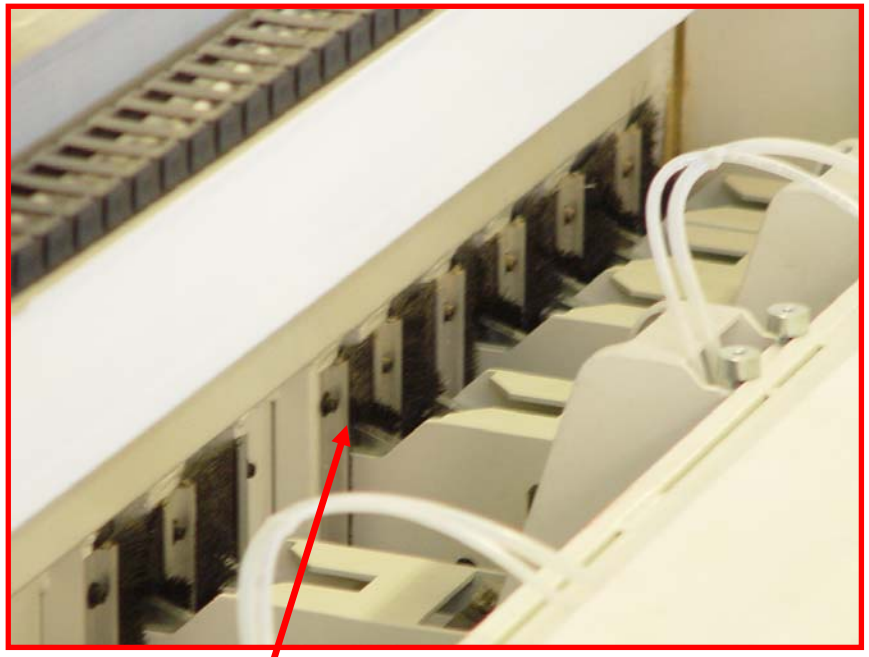


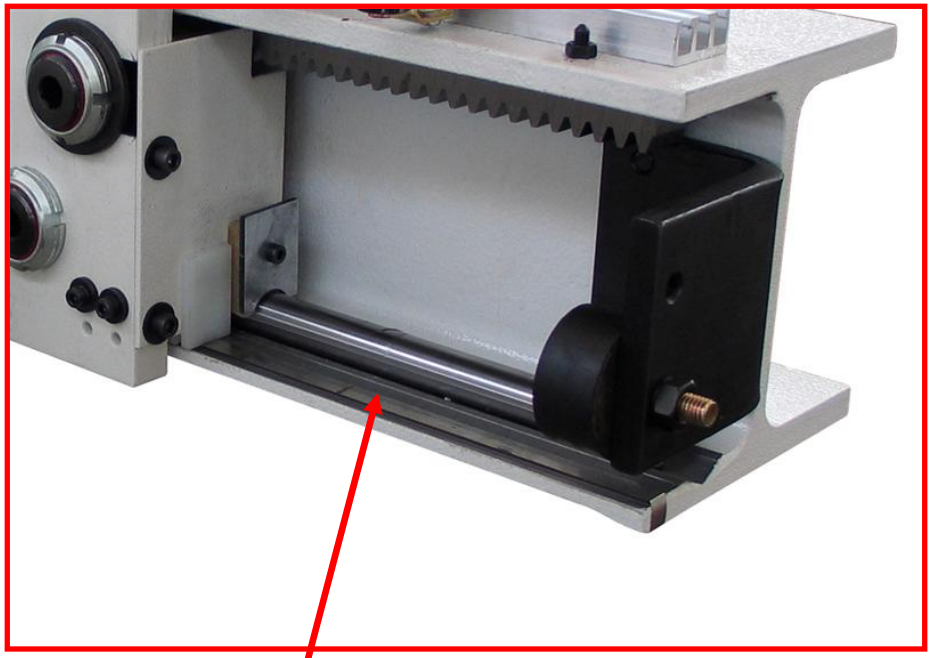
Precision Round Guide for Stability

Steel High Speed Pusher with Clamps

GALAXY 125 PLM High Speed

Accuracy: Other Important Features





Pressure Beam Slots

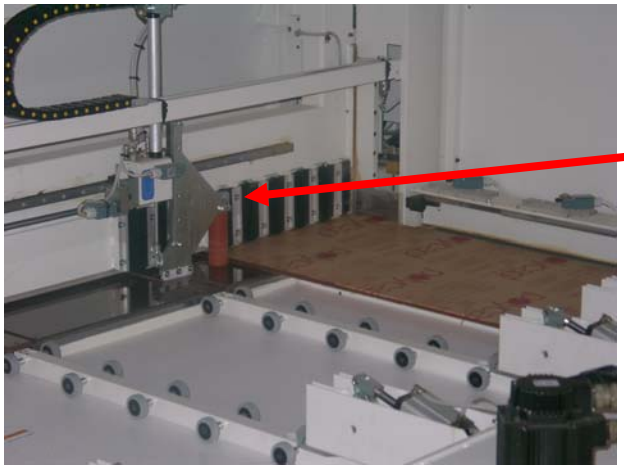
- Clamps control material for the entire cutting program
- Accuracy to final cut for thin strips

Magnetic Digital Encoder

- Provides reliable, accurate digital positioning

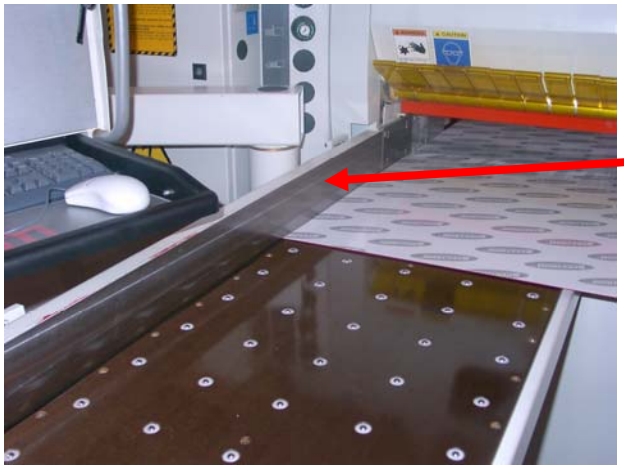
GALAXY 125 PLM High Speed

Accuracy: Other Important Features



Cross aligning device

Side aligner pushes and holds the material against the steel aligning fence while it is being cross cut



Aligning fence

Heavy duty steel fence ensures the tightest cutting tolerance for the life of the saw

GALAXY 125 PLM High Speed

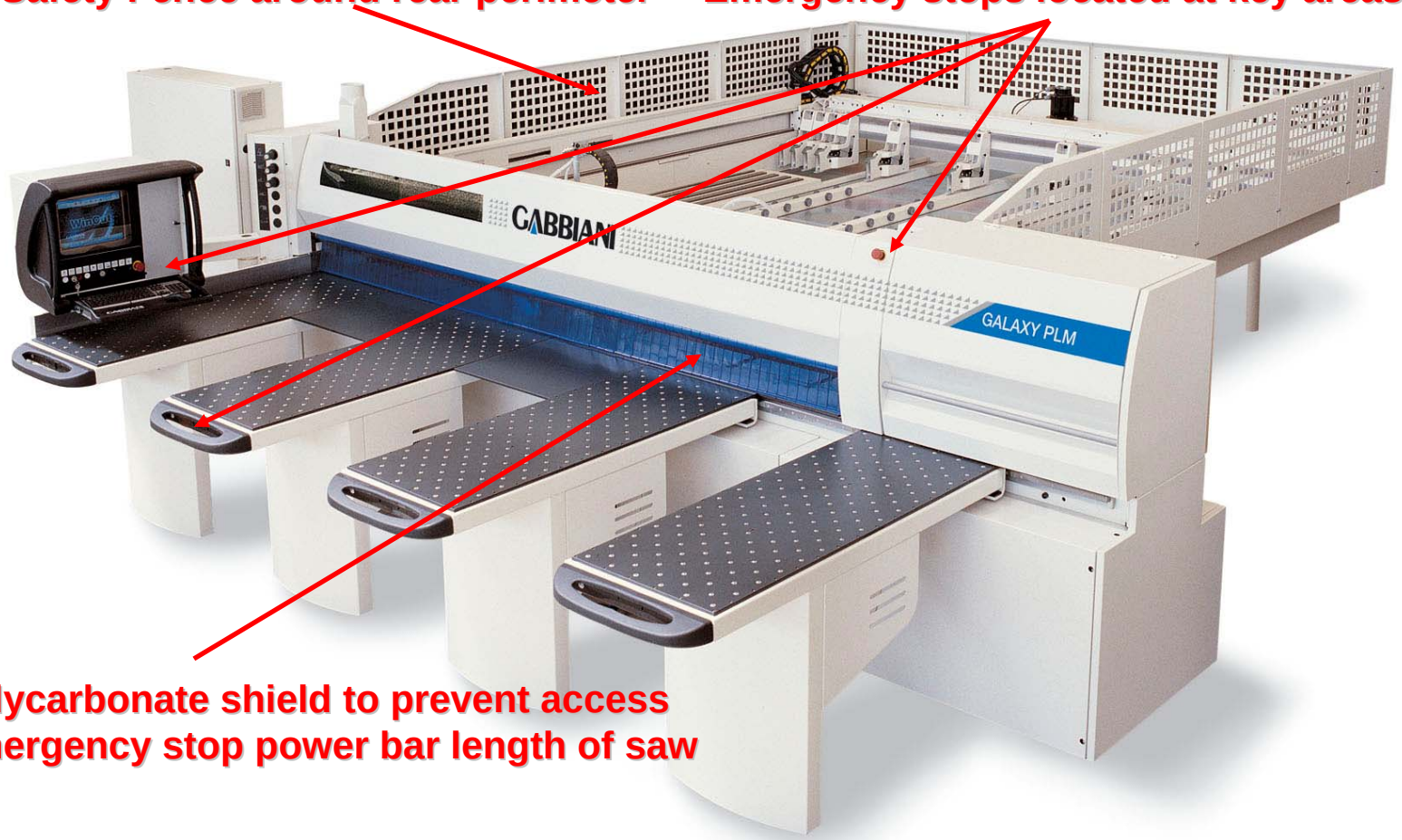
GALAXY 125 PLM High Speed

Safety Features

PRECISION PANEL SAW for Plastic Material

SAFETY FEATURES

- Safety Fence around rear perimeter
- Emergency stops located at key areas



- Polycarbonate shield to prevent access
- Emergency stop power bar length of saw

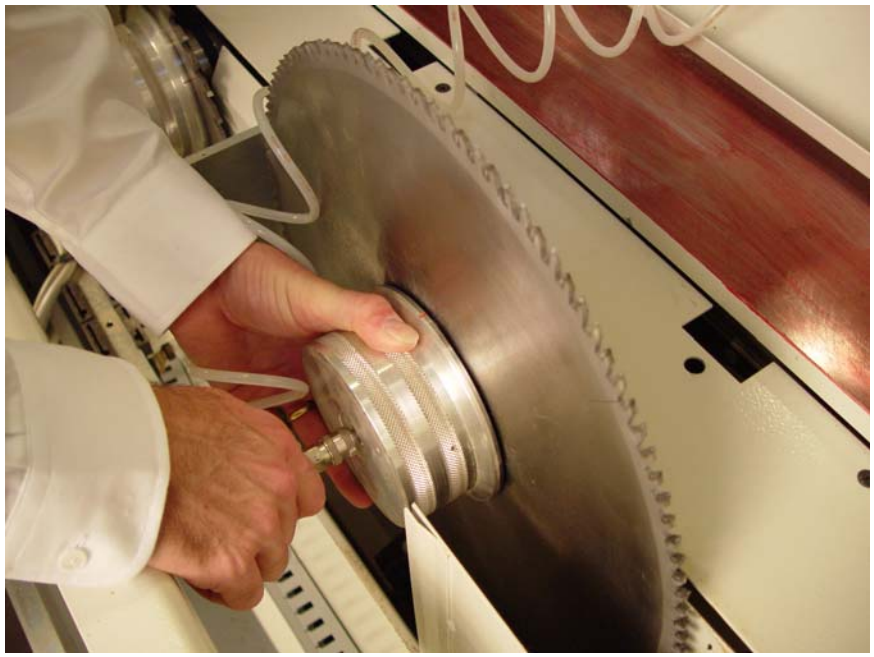
GALAXY 125 PLM High Speed

GALAXY 125 PLM High Speed

Additional Features

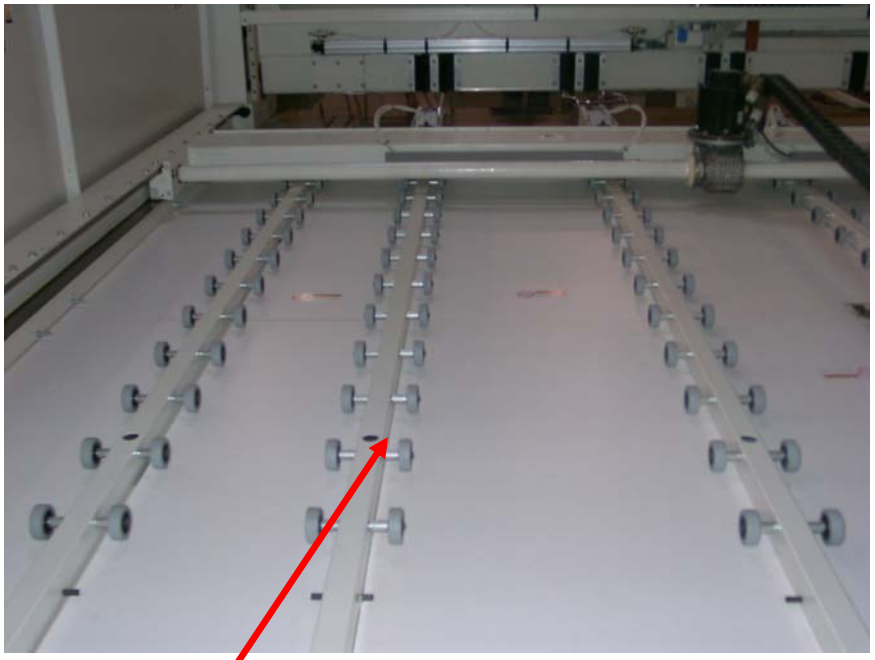
PRECISION PANEL SAW for Plastic Material

Additional Features



Pneumatic Blade Change

Fastest and safest blade change in the industry without a wrench



Roller table

Bed of soft, free running rubber rollers support the stack of material without scratching the bottom sheet

GALAXY 125 PLM High Speed

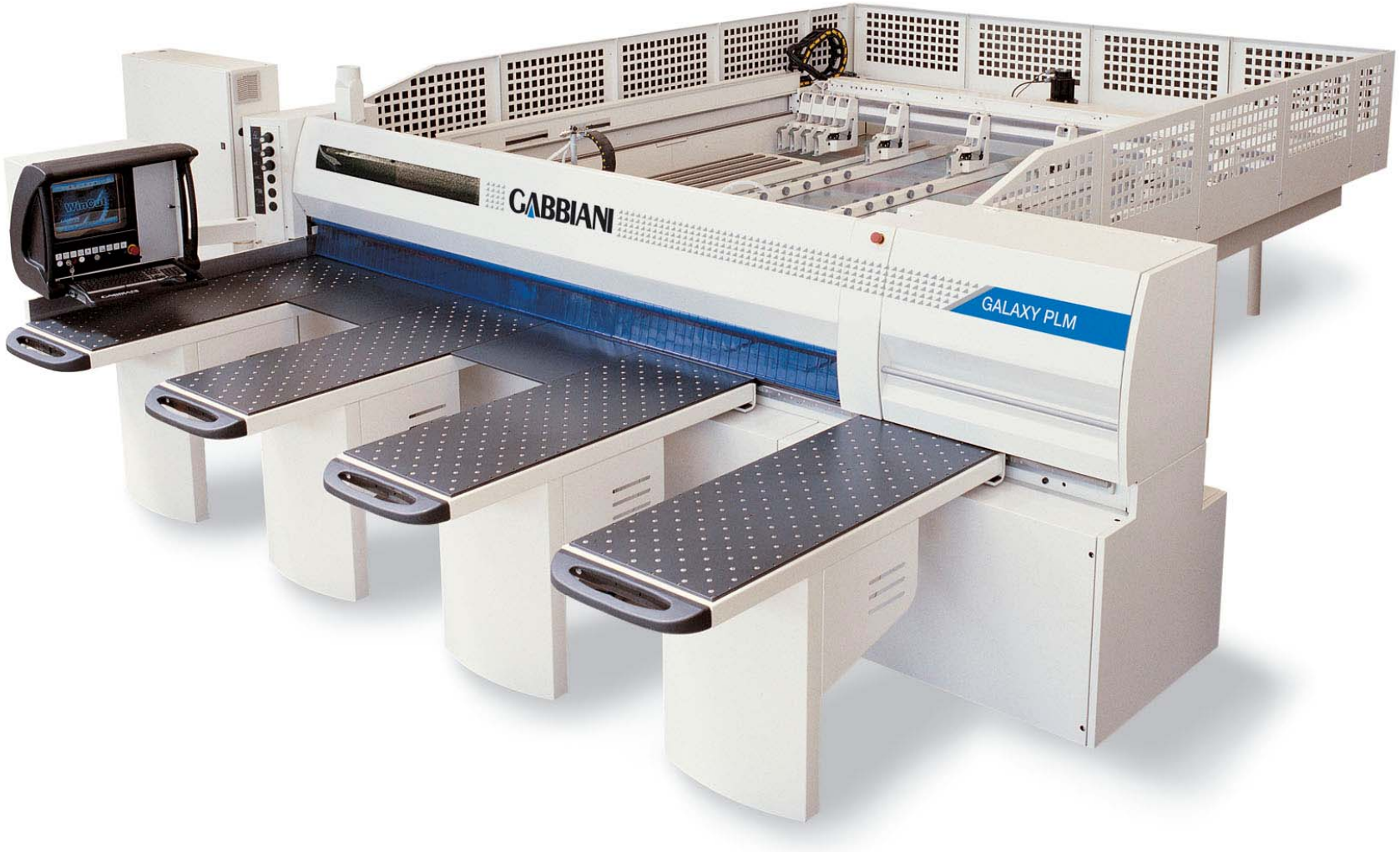
scm group USA

PROVEN TRACK RECORD

- LAIRD PLASTICS
- PIEDMONT PLASTICS
- LEHIGH VALLEY PLASTICS
- GE POLYMERSHAPES
- BOEDEKER PLASTICS
- REGAL PLASTICS
- CURBELL PLASTICS
- NATIONWIDE PLASTICS

Machining Solutions for the Plastics Industry

GALAXY125 PLM High Speed



PRECISION PANEL SAW for Plastic Material