

PASKAL Group Colored Agriculture Clips

Business overview

- PASKAL Group is a global producer of greenhouse accessories and crop-support systems for the agriculture industry
- PASKAL Group manufactures over 4 billion plastic clips and hooks each year through continuous 24/7 injection molding,



Business challenge

- Previous dosing equipment showed major inconsistencies, particularly at low dosing percentages.
- When set at 0.5%, systems often delivered additive deviation, resulting in overdosing, color drift, and wasted masterbatch.
- With production running 24/7, even small inaccuracies created significant cost impact.

Business outcomes

- Dosing accuracy improved from $\pm 0.5\%$ to $\pm 0.05\%$, reducing color consumption (saving approx. €160,000 annually).
- No color drift or variation, even in low-opacity agricultural products.
- Operators report a quiet, stable process – no interruptions or complaints.

Capacity enabled

- Gravimetric dosing for precise control and consistent material flow.
- Self-calibrating and auto-adjusting system ensures stable operation without manual intervention.
- Unattended running after start-up supports 24/7 production without interruptions.

Business impact

Revenue increase	✓
Costs decrease	✓
Proof of compliance	✓
Increased efficiency	✓

Customer case



“After just two days of testing, it was clear that Movacolor’s system delivered the precision and stability we needed.

Jack Belmacher, Production Manager.

Business solution

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Technology enablers

- Gravimetric dosing technology measures material by weight rather than volume. This enables real-time compensation for bulk density changes, meaning if the material density shifts, the system still doses the correct weight.
- The feeder automatically adjusts dosing rates based on weight based material consumption, ensuring a consistent process and preventing over- or under-dosing of raw materials.

Customer case

 MOVACOLOR

Technology solution

Capabilities

- Consistent, high-precision dosing under varying production conditions.
- Reliable long-term performance across multiple sites and material types.
- Real-time material usage tracking for better cost control, sustainability reporting.

Benefits

- Verified cost savings and material efficiency after transition to MDS Balance.
- Operator satisfaction and production stability significantly improved.
- Sustainability gains through reduced colorant

Requirements

- Gradual rollout to other sites allows controlled adoption and minimal downtime.
- Ongoing integration with centralized monitoring systems to expand visibility and reporting.