GLOBAL MACHINERY REPORT • 2026 EDITION

2026 Plastics & Thermoforming Machinery Valuation & Depreciation Index

An empirical valuation benchmark, residual pricing index, and depreciation framework for plant managers, industrial investors, and machinery procurement directors worldwide.

2026 Global Pre-Owned Machinery Market Dynamics

The 2026 industrial thermoforming landscape is defined by aggressive factory modernization across Germany, Italy, and Northern Europe. Surging kilowatt-hour electricity rates are driving rapid phase-outs of legacy pneumatic/cam-driven lines in favor of regenerative servo-electric systems. Consequently, secondary markets present unprecedented acquisition value for high-precision mechanical lines, while late-model servo machines retain record-high residual valuations.

AVERAGE ANNUAL DEPRECIATION

6.8% / Year

Calculated for Tier-1 European thermoformers under regular maintenance.

SERVO VS CAM PREMIUM

+42% Residual

Full-servo drive lines yield higher liquidity and lower kWh consumption.

FACTORY REFURBISHMENT ROI

2.4x Multiplier

Certified re-conditioning recovers up to 85% of OEM operational speed.

4-Stage Machinery Appraisal & Valuation Decision Tree

1 Drive Architecture
Classify powertrain: Pure mechanical cam, pneumatic assist, or closed-loop servo.

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2 Operational Hours
Audit real run-hours against dry-cycle wear: <20k (Prime), 20k-45k (Mid), >45k (Overhaul).

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3 Controls Obsolescence
Inspect PLC: Siemens S7-300 / B&R legacy vs. modern TIA Portal / Beckhoff PC-based control.

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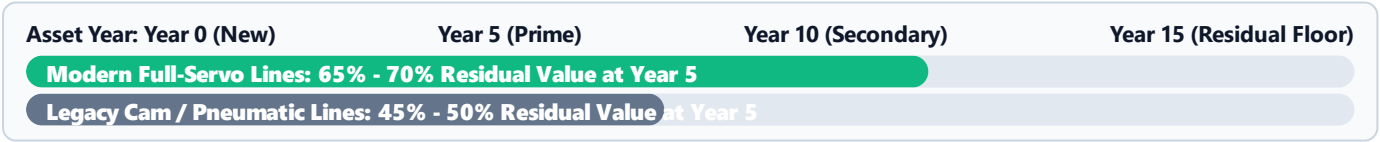
4 Fair Market Value
Derive baseline Net Book Value (NBV), Fair Market Value (FMV), and Orderly Liquidation Value.

2026 Model-by-Model Fair Market Value (FMV) Benchmark Table

Empirical secondary market data aggregated across European, Turkish, and Middle Eastern industrial auctions and brokerage transactions. Ranges assume operational condition with verified service history.

MANUFACTURER & MODEL	TYPICAL VINTAGE	DRIVE & CONTROL TYPE	2026 EST. MARKET VALUE	ANNUAL DEPR.	LIQUIDITY
Illig RDKP 72d / 72e Form & Separate Punch	2010 – 2016	Pneumatic / Mechanical Cam Siemens S7-300 / OP27	**€45,000 – €85,000** Turnkey loaded	**6.5% / yr**	**High**
Illig RDK 80 / RDK 90 Automatic Pressure Forming	2016 – 2023	Multi-Axis Closed Loop Servo Illig IPC Controls	**€120,000 – €260,000** Depending on tooling	**7.8% / yr**	**Very High**
Illig RDM 70K / 75K Cup & Deep-Draw Former	2012 – 2021	Mechanical Toggle + Servo Siemens TIA Portal	**€78,000 – €175,000** Inc. Rim Roller	**7.0% / yr**	**High**
Kiefel KMD 60 / KMD 75 Steel Rule SpeedFormer	2011 – 2018	Servo Toggle Platen SIMOTION / B&R Power	**€85,000 – €165,000** Cleanroom ready	**7.2% / yr**	**High**
Kiefel KMD 78 / KMD 85 High-Speed Industrial	2017 – 2024	Full Electric Servo Drive Kiefel KCS Touch	**€175,000 – €340,000** Premium tier	**8.0% / yr**	**Very High**
Gabler Swing 2 / Focus Tilt-Mold In-Mold Trim	2013 – 2022	Hydraulic-Cam / Servo Hybrid B&R Automation	**€88,000 – €190,000** Includes stacker	**6.8% / yr**	**Moderate**
GN Plastics 3021 / 3625 Contact Heat Pressure	2014 – 2022	Electro-Mechanical Beckhoff / Allen-Bradley	**€68,000 – €135,000** Compact footprint	**7.4% / yr**	**High**

Depreciation Trajectory: Servo-Driven vs. Mechanical Lines (15-Year Horizon)



6 Critical Machinery Valuation Modifiers

When calculating the precise transaction value of a pre-owned thermoformer, apply these empirical adjustment multipliers to baseline book values:

1. Multi-Axis Servo Plug Assist **+10% to +14%**

Independent servo drive on plug assist yields superior material distribution on deep tubs, boosting resale demand.

2. Quick-Lock Tooling Package **+8% to +12%**

Hydraulic or pneumatic rapid mold clamping hardware cuts changeover downtime by up to 60%.

3. Obsolete PLC & Drive System **-18% to -25%**

Machines fitted with Siemens S5, legacy Indramat, or discontinued B&R 2005 CPUs carry heavy replacement risk.

4. Automatic Stacking Robot **+12% to +15%**

Integrated pick-and-place or A/B/C count stacking automation reduces shop-floor labor by 2 operators per shift.

5. Factory Maintenance Logs **+6% to +8%**

Continuous service logs stamped by OEM technicians streamline customs clearance and bank lease financing.

6. High-Response Quartz Heaters **±5% Factor**

Upgraded fast-response quartz infrared elements offer 18% lower energy draw, preferred for rPET/PP processing.

CFO Valuation Formula & Pricing Rule-of-Thumb

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FMV = Replacement Base × (1 - Annual Depr)^Age × (1 ± Modifier Index) × Inspection Score
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Example Calculation: A 2018 Illig RDK 80 (Replacement Base: €380,000). At 8 years age with 7.8% annual compound depreciation, fitted with servo plug assist (+10%) and full service logs (+6%), with an inspection score of 90%:
`€380,000 × (0.922)^8 × (1 + 0.16) × 0.90 ≈ €206,450 Fair Market Value`.

Allplastix 3-Step Turnkey Appraisal & Liquidation Process

Whether you are decommissioning an entire production line or sourcing certified pre-owned equipment, Allplastix provides transparent engineering valuations, verified buyer matchmaking, and secure cross-border settlement.

Step 1: Specification Audit

Transmit your machinery nameplate, operating hours, tooling specs, and high-definition operational video directly via our portal or WhatsApp.

Step 2: Valuation & Listing

Our industrial engineers establish a data-backed valuation benchmark and present your equipment directly to over 4,200 verified manufacturing buyers.

Step 3: Escrow & Settlement

We manage international escrow contracts, machinery de-installation, export crating, and insured freight logistics from factory floor to seaport.

Why Global Plastics Converters Partner With Allplastix

- **Zero Upfront Valuation Fees**
  Comprehensive appraisal reports are generated without obligation or listing charges.
- **Discretion & Confidential Liquidation**
  Protect plant operational confidentiality with anonymized VIP consignment protocols.
- **Technical On-Site Inspection**
  Senior European & Turkish engineers verify mechanical tolerances prior to fund transfer.
- **Turnkey De-Commissioning**
  Heavy rigging, electrical isolation, and anti-corrosion barrier packing for overseas transport.

Request an Instant 24-Hour Valuation

Planning to sell surplus machinery or verify the fair market value of equipment you intend to purchase? Connect directly with our appraisal desk. Send photos and nameplate data for immediate evaluation.

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