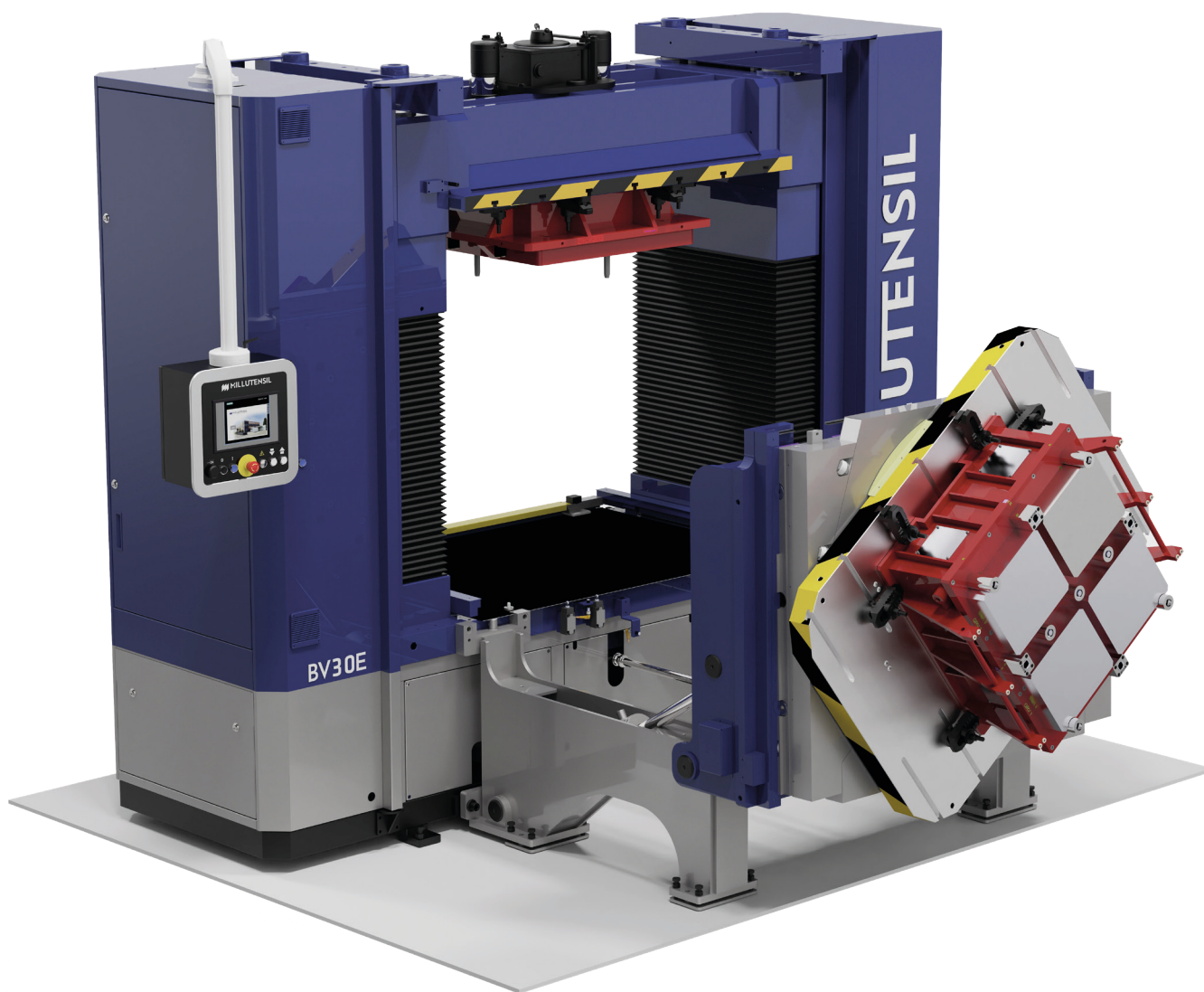




**MILLUTENSIL SPOTTING PRESSES  
MILLUTENESIL DIES SPLITTERS**

**EXECUTIVE SUMMARY**





## Millutensil Spotting Presses BV E Series Safety Features and Functional Capabilities

The Millutensil BV E Series is a compact and high-precision line of spotting presses engineered for the assembly, adjustment, inspection, and repair of small to medium molds and dies used in thermoplastic, die-casting, thermosetting, rubber, and sheet-metal applications.

Available in three core models – BV26E, BV28E, and BV30E – with platens sizes from 980×750 mm up to 1,500×1,000 mm, the BV E Series combines robust structure, advanced automation, and integrated safety systems.

### **Structural Design & Control**

- Heavy-duty welded and normalized steel frame with cast-iron base platen for maximum rigidity and durability.
- Hydraulic system with servo-proportional valves for smooth, precise motion control.
- Siemens S7-1500 PLC and graphical touch-panel interface providing intuitive cycle management and diagnostics.
- Adjustable motion speeds (L1 / L2 / L3) to balance safety, speed, and precision.

## Safety Integration

- Safety is engineered at every level – mechanical, hydraulic, and electronic.
- Parallelism control system with four magnetic encoders ensures accurate platen alignment; automatic shutdown in case of deviation.
- Speed control (L1 / L2 / L3) minimizes risk of accidental impacts.
- Independent CE / UL / CSA-compliant electrical cabinet.
- “Green Mode” for reduced energy use and automatic hydraulic stand-by after inactivity.

## Functional Capabilities

Designed for flexibility and accessibility in mold operations:

- Upper platen: vertical movement with 360° tilting capability for ergonomic mold access.
- Lower platen: hydraulically extendable on ball-bearing guides for safe and easy mold handling
- Automation options:
  - “-R” version: 90° tilting lower platen.
  - “-G” version: extendable + rotating platen (various angle configurations).
  - “-RG” version: combined features.
- Optional units: hydraulic ejection, single-shot energy accumulator, wax injection, auxiliary cylinder control, external hydraulic unit.

## Performance & Management Benefits

The BV E Series represents a reliable, energy-efficient investment for operations requiring precision, safety, and compact design.

- Full operator protection and compliance with international safety standards.
- Increased productivity via ergonomic access and automatic cycles.
- Lower maintenance costs thanks to modular design and built-in diagnostics.
- Energy-efficient “Green Mode” reducing power consumption and wear.
- Global Millutensil service and spare-parts support network.





## Millutensil Die Splitters AM Series Safety Features and Functional Capabilities

The AM Series (small to medium dies) and AMS Series (large dies) are engineered for assembly, adjustment, inspection, and repair of molds and dies across plastics, die-casting, sheet metal, and rubber sectors.

These die-splitters provide robust construction, ergonomic access, precise alignment, and high operational safety.

### Key Shared Features

Heavy-duty welded and normalized steel frame with cast-iron base for rigidity and bending resistance.

- Upper platen guided vertically and capable of rotation up to 180°, providing ergonomic access.
- Lower platen extendable and sliding on ball-bearing rollers for easy die handling.
- PLC control with touch-panel interface for intuitive operation.

## Safety Features

Designed to protect the operator, die, and press:

- Upper Platen Parallelism Control: Electronic monitoring maintains alignment; automatic stop and safe repositioning if limits exceeded.
- Two-Hand Operation: Downstroke and critical functions require two-hand control in compliance with CE / UL / CSA.
- Light Curtains & Protective Devices: Optional safety barriers in hidden zones.
- Green Mode: Low-pressure hydraulic circuit reduces energy use and heating; hydraulic unit enters automatic standby after inactivity.
- Stable & Ergonomic Design: Upper platen tilting, lower platen extension, and smooth ball-bearing guides ensure safe die handling without strain.

## Functional Capabilities

- Die Handling & Accessibility: Upper platen rotation + lower platen extension allows full access to die halves without repositioning.
- Precision & Repeatability: Electronic parallelism and hydraulic systems guarantee accurate alignment and safe operation.
- Automation & Optional Features: Auxiliary cylinder control, hydraulic ejection, energy accumulators, tilting/rotating platen, and motorized upper/lower trucks (AMS) for very large dies.

## Performance & Management Benefits

- Enhanced Safety: Operator protection, compliance with international standards, and die/press safeguarding.
- Productivity Gains: Ergonomic work positions, easy die handling, and faster setup/disassembly.
- Operational Efficiency: Precision, repeatability, and modular options reduce downtime and maintenance costs.
- Flexibility: Configurations for small to very large dies with optional automation and tilting/rotating platens.
- Global Support: Millutensil service network ensures worldwide assistance and spare-part availability.

Size Range: AM Series: small/medium dies; AMS Series: very large dies up to 4 500 × 2 800 mm

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