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Used AOKI AL-500LL-50S injection molding machine - Year 2018

Machine type:	Injection Molding Machine
Ref:	PR33
Model:	AL-500LL-50S
Year:	2018
Condition:	Ready for Operation
Containers:	PET

Technical details

No. of cavities:	7	Safety features:	Yes
Manuals:	No	Width:	3220 mm
Length:	6390 mm	Height:	3490 mm
Weight:	11600 kg	Power:	94 kW
Voltage:	380 V	Frequency:	50 Hz
Ampere:	168 A		

Description

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Technical Specifications & Performance Data

The AOKI AL-500LL-50S is an injection molding machine designed for PET container manufacturing through an integrated injection and blow molding process. This used bottling line asset is configured with **7 cavities**, supporting efficient production of molded containers for industrial packaging and beverage production applications.

- **Manufacturer:** AOKI Technical Laboratory, Inc.
- **Model:** AL-500LL-50S
- **Manufacturing year:** 2018
- **Including:** compressor and chiller
- **Cavity configuration:** 7 cavities
- **Screw diameter:** 64 mm
- **Injection capacity:** 522.8 cm^3/shot

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- **Injection mold clamping force:** 500.3 kN
- **Preform length below neck:** 150 mm
- **Blow mold clamping force:** 608.3 kN
- **Blow air pressure:** 3.0 MPa

Advanced Automation & Control Systems

The machine is equipped for three-phase electrical operation at 380 V and 50 Hz. Its installed electrical load is 94.0 kW with a current requirement of 168 A. The injection molding platform combines turntable and screw drive functions with hydraulic and pneumatic utilities for controlled molding cycles.

- Three-phase electrical supply
- Voltage: 380 V
- Frequency: 50 Hz
- Power: 94.0 kW
- Current: 168 A
- Hydraulic pressure: 17.5 MPa
- Pneumatic pressure: 3.0 MPa
- Water supply pressure: 0.3 MPa

Production Line Integration Capabilities

This AOKI injection molding machine can be positioned upstream of a used bottling line to produce PET containers directly from resin, reducing dependence on externally supplied bottles. Machines of this type are suited to integrated industrial packaging layouts where container production is coordinated with downstream handling, filling, capping, labeling and secondary packaging equipment.

The 7-cavity configuration supports repeatable container molding for beverage production. Integration planning should consider molded-container discharge, conveyor connection, compressed-air supply, chilled-water services and downstream accumulation capacity.

Machine Condition & Maintenance History

The machine is offered as a second hand industrial packaging asset and is ready for operation. No mold is included with the machine, and auxiliary parts are not included. Buyers should plan tooling selection and auxiliary equipment integration according to the required container design and production process.

Operational Performance & Versatility

The AL-500LL-50S combines injection molding and blow molding functions for PET container production. Its technical configuration includes a 600 mm injection mold clamping stroke, a 115 mm blow mold clamping stroke, and a maximum chilling capacity of 51.2 kW. The machine requires cooling-water management and compressed air to support stable molding operation.

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Injection capacity varies according to the resin and molding parameters used. Actual operating pressure is governed by the installed machine and mold specifications, allowing the process to be configured around the selected tooling and required container geometry.

Installation Requirements & Site Preparation

The machine requires a prepared installation area with three-phase electrical power, hydraulic services, pneumatic supply and cooling water. Overall dimensions including the safety door are 6.39 m in length, 3.22 m in width and 3.49 m in height. Approximate machine weight is 11,600 kg, requiring suitable floor loading capacity and handling equipment during installation.

Operation air consumption is 519.5 L/min based on a 16-second cycle. A compressor sized at 1.5 to 2 times the required air volume is recommended for stable operation. Cold water is required for the water-cooled chiller, and machine cooling-water demand is 139 L/min.

Safety Standards & Compliance Certification

The machine carries CE marking and is designed with a safety-door enclosure. The stated overall dimensions include the safety door. Safe installation requires appropriate guarding, electrical isolation, pressure-system controls and access around the machine for operation, maintenance and mold changes.

The listed machine weight excludes molds, safety guards including safety doors, and hydraulic oil. Tooling, utilities and protective systems should be assessed as part of the commissioning scope for this injection molding machine.