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Used NISSEI ASB injection molding machine, 2 unit - Year 2017

Machine type:	Injection Molding Machine
Ref:	PR31
Model:	PM-70/65 NII
Year:	2017
Condition:	Ready for Operation
Formats:	1.25 L, 1.5 L, 2 L, 1 L
Containers:	PET
Products:	Oil, Water (Sparkling), Water (Still), CSD

Technical details

No. of cavities:	24	Neck type:	28 mm TST neck; 28 mm CSD short neck
Preform weight:	10	Safety features:	Yes
Manuals:	No	Weight:	10000 kg
Voltage:	415 V	Frequency:	50 Hz
Ampere:	137 A		

Description

Used NISSEI ASB injection molding machine, 2 unit - Year 2017

Technical Specifications & Performance Data

Nissei ASB PET preform injection molding equipment for the production of PET preforms used in water, carbonated soft drink and oil bottle applications. The available production set comprises two injection molding machines manufactured in 2017, supported by mould inventory and auxiliary cooling, drying and dehumidification equipment.

- Manufacturer: Nissei ASB / ASB International Pvt. Ltd.
- Injection molding machines: 2 units Models: PM-70/65 NII and PM-70/111N
- Cycle time: 12 sec 5 cycles per minute (300 cycles per hour).
- No. of cavities: 24
- Electrical supply: 415 V, 50 Hz, 137 A for PM-70/65 NII; 166 A for PM-70/111N

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- Machine mass: 10,000 kg for PM-70/65 NII and 11,500 kg for PM-70/111N
- Available mould inventory: 8 mould references for preform weights from 10 g to 32 g

Advanced Automation & Control Systems

The injection molding machines operate on a 415 V, 50 Hz electrical supply. Full-load current is 137 A for the PM-70/65 NII and 166 A for the PM-70/111N. The production equipment is supported by process cooling, PET drying and dehumidification systems to help maintain stable resin conditioning and moulding conditions. Auxiliary equipment includes multiple chillers, dehumidifiers and PET dryers. The PET dryers are fitted with 6.2 kW blowers and 36.10 kW heaters, supporting controlled preparation of PET resin before injection molding.

Auxiliary equipment

No.	Equipment	Qty.	Manufacturer	Model / type	Year	Key specifications
1	Chiller	2	Chilton	Model not recorded	2014	415 V. Unit 1: 40 A, 20 TR; Unit 2: 30 A, 15 TR.
2	Chiller	1	Airtech Cooling	AS6 F140T	2017	Connected load 42 kW; 40 TR.
3	Chiller	4	Microgel	RCP 450 HS (2); RCM130 12HP (2)	2017 noted for RCM units	RCP: R407C; 16 kg charge; 79 A; +7 to +30 °C. RCM: 310 kg; 28 A; -5 to +90 °C.
4	Air dryer	1	Not recorded	Not recorded	Not recorded	Specifications not recorded.
5	Dehumidifier	2	Matsui India Ltd.	AMDDI-900-IN	Jan 2017	415 V AC, 50 Hz.
6	PET dryer	1	Matsui Technologies India Ltd.	APD-200-IN	Jan 2017	415 V, 3-phase, 50 Hz; blower 6.2 kW; heater 36.10 kW.
7	PET dryer	1	Matsui Technologies India Ltd.	APD-170-IN	Jan 2017	415 V, 3-phase, 50 Hz; blower 6.2 kW; heater 36.10 kW; capacity 650 kg recorded.
8	Blower	2	Motan Colortronic / Motan	Model not recorded	Not recorded	Made in Germany noted.

Production Line Integration Capabilities

This PET preform production line is designed as an integrated upstream solution for PET bottle manufacturing and can supply preforms to downstream stretch blow molding and beverage production operations. The available preform range supports bottle formats from 0.15L to 2.0L, depending on the neck design and preform weight selected. The mould inventory includes preforms for water, soda and oil applications. Water preforms use a 28 mm TST neck, while

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soda preforms use a 28 mm CSD short neck. The line is therefore suited to industrial packaging operations requiring multiple PET bottle formats and product-specific preform designs.

Machine Condition & Maintenance History

The two main Nissei ASB injection molding machines were manufactured in 2017. Associated auxiliary equipment includes units manufactured in 2014 and 2017. The equipment package includes two main injection molding machines, cooling equipment, PET dryers, dehumidifiers, an air dryer and blowers. For a second hand PET preform production installation, commissioning should include inspection of mould condition, resin drying performance, cooling circuits, electrical connections, heaters, blowers and all safety interlocks before integration into a used bottling line or industrial packaging facility.

Operational Performance & Versatility

The 24-cavity PET preform injection molding configuration is intended for repeatable, high-volume preform manufacture. **Eight mould** references are included, **covering preform weights of 10 g, 13.5 g, 15 g, 18 g, 19 g, 20 g, 22 g, 23 g, 26 g and 32 g**. Supported PET preform applications include water bottles in 0.3L, 0.5L, 0.75L, 1.0L, 1.25L, 1.5L and 2.0L formats, plus soda bottle formats from 0.15L to 0.5L. PET preform options also include a 0.75L oil bottle application. This flexibility makes the equipment relevant for beverage production and industrial packaging operations using PET containers.

Installation Requirements & Site Preparation

Installation requires a 415 V, 50 Hz electrical supply sized for the injection molding machines and auxiliary equipment. A suitable production area should provide access for installation, mould handling, resin loading, chilled-water connections and maintenance around the machines. Cooling capacity is supported by Chilton, Airtech Cooling and Microgel chillers. PET resin preparation is supported by Matsui India and Matsui Technologies India dehumidification and drying equipment. Site preparation should provide appropriate process cooling connections, ventilation and material handling for resin, moulds and finished PET preforms.

Safety Standards & Compliance Certification

Safe operation of PET injection molding equipment requires guarded mould areas, controlled access during mould changes, electrical isolation procedures and verification of emergency stop circuits. Process heaters, moving clamp assemblies, cooling systems and resin drying equipment should be inspected and commissioned by qualified personnel before production use. For industrial packaging and beverage production environments, operating procedures should include routine checks of electrical connections, cooling performance, dryer operation, mould condition and PET preform quality. The 28 mm TST and CSD neck configurations should be verified against the intended bottle and closure specifications before production.