Introducing Jomar Products & Services 2024

Jomar®

Making the World's Finest Injection Blow Molding Systems for over 50 years

Introduction to Jomar

- Jomar's headquarters is located within a 42,000 sq foot facility in Pleasantville, New Jersey
- Jomar celebrated its 50th year of business in 2019
- Jomar only builds Injection Blow Molding (IBM) machines
- With over 2,000 machines delivered, Jomar is the world's leading manufacturer of injection blow mold machines.
- About 75% of Jomar's business takes place outside the US, so we're very familiar with supporting customers remotely.

Introduction to Jomar

Some of the most recognized brands in the world have chosen Jomar to handle their packaging needs.

- Gerber’s
- Crayola
- Merck
- P&G
- Unilever
- Avon
- L’Oreal
- Goya

Introduction to Jomar

Some of the world's leading bottle manufacturers use Jomar machines for their production.

- Amcor
- Drug Plastics
- Berry
- ThermoFisher
- Alpha Packaging
- Gerresheimer
- Silgan
- Creative
- Pretium
- Orange Products

Introduction to Jomar

Typical bottles made in IBM

TABLET or PILL BOTTLES

These bottles can be designed with complicated injected neck finishes for child resistance or tamper-proofing. Also the neck finish is excellent for barrier seals against moisture with a plug seal closure, and also very flat for tamper foil applications.

DROPPER BOTTLES

These are usually produced in LDPE for pharmaceutical use. Using only virgin plastic, IBM machines are installed in clean manufacturing environments worldwide. Alternatively the products can be stripped from the core rods whilst still very hot and carried to the clean rooms in sterile air for packing. This eliminates any machine or material contamination in the clean room.

MASCARAS

Small necks make EBM difficult. The process advantage with IBM is the quality of the neck and surface gloss finish and ease of manufacture.

OVALS, CYLINDRICALS AND BOSTON ROUNDS

These bottles are made in a wide variety of materials. Up to 24 cavity molds from 10-15 second cycles. The process advantage is that no secondary trimming (scrap) is required when making the neck finish

ONE PIECE ROLL-ON DEODORANTS

Close tolerance of injected ball seating allows even application of product.

MISCELLANEOUS USES

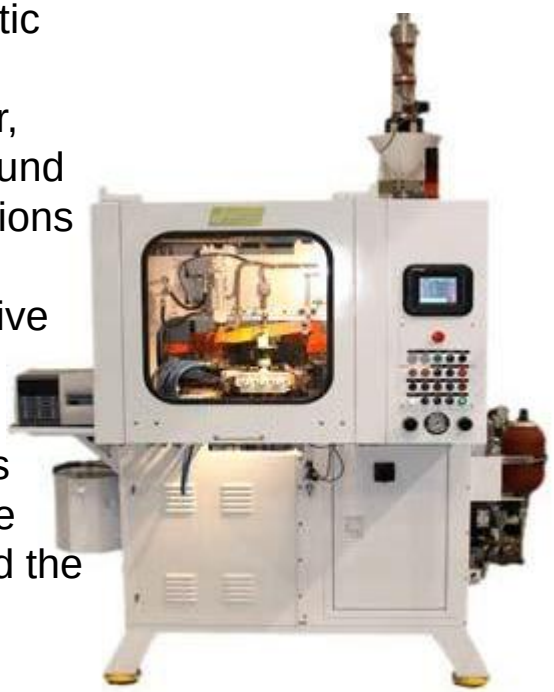
Some other uses include the production of Bellows, Laboratory ware, Baby bottles, Christmas tree balls, Light globes, Fish bowls, Flower vases and bowls, lemons, etc

Injection Blow Molding

The injection blow molding (IBM) process produces billions of plastic containers each year. Primarily ranging in size from 1 ml to 1 liter, these containers are popular around the world for a myriad of applications including pharmaceuticals, cosmetics, homegoods, automotive and many others.

Injection Blow Molding derives its name from the process where the neck area is injection molded and the body is blow molded.

Result:
Bottles that meet exacting standards for the neck area and as well as consistent weight, wall thickness and volume without generating scrap or the need for de-flashing or trimming.



<u>IBM Bottle Attributes</u>

- Exact Neck dimensions
- Thick, even walls
- Nearly invisible parting lines.
- Virgin material (no re-grind)
- Variety of different finishes are possible

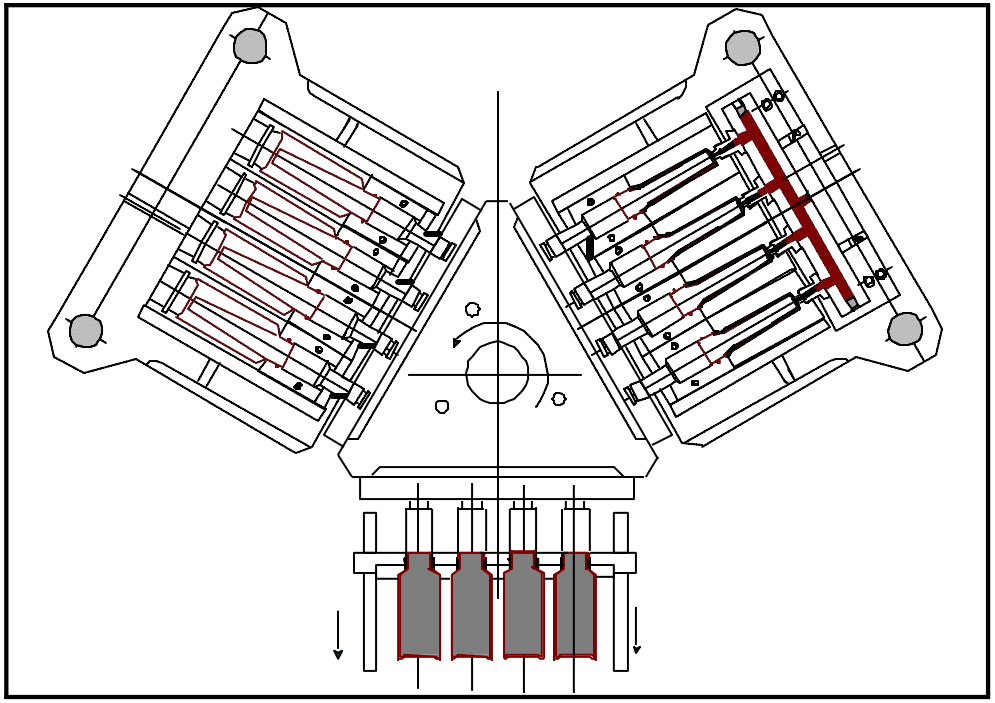
<u>IBM Process Attributes</u>

- No scrap
- No trimming
- No waste
- Not much auxiliary equipment required

Injection Blow Molding

The heart of the injection blow molding process is a triangular rotary table, which indexes in 120º steps. Core rods mounted on the face of the table form the inside of the hot parison (or preform) that is later blown into the finished container. In the final stage, the bottles are stripped from the core rods and removed from the machine.

Station 2
Blow Mold



Station 1
Preform Mold

Station 3 - Ejection

Extrusion Vs. Injection Blow Molding

Extrusion Blow Molding	Injection Blow Molding
• 20-40% scrap during production • Wall thickness variation • Bottle weight variation of 3% • Fast cycle time / less cavities • Thick & thin wall capabilities • Hollow Handleware • Necks made with blow molded tolerances • One technician per 1-2 machines • Variable process requiring constant adjustment • Lots of ancillary equipment needed	• No scrap • Uniform wall thickness • Bottle weight variation of 1% • Slower cycle time / more cavities • Thin walls difficult to control • Hollow Handleware not possible • Necks made with injection molded tolerances • One technician per 4-6 machines • Process is controlled and repeatable with no adjustments • Almost no ancillary equipment

The Jomar Advantage

Advantages of the Jomar Machine

Most compact machine in the injection blow molding industry

Fastest open-transfer-close time of any IBM machine

Greatest Swing Radius – Jomar machines don't have tie bars on the main platen, which means that we can swing a bigger tool without the possibility of hitting anything. Our machines can accommodate molds with higher cavitation and greater output.

Small footprint gives Jomar the highest output per square foot in the industry.

Simple maintenance and simple to use.

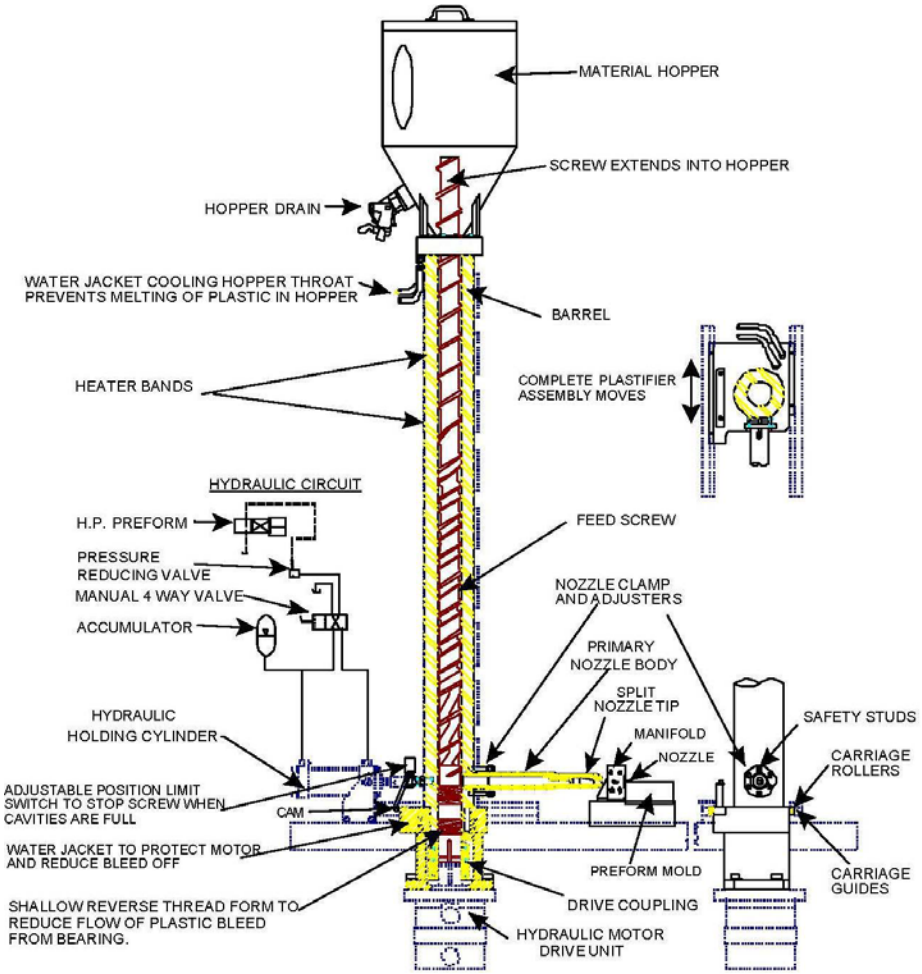
Open molding area makes tooling changes easy.

Longevity – Jomar has machines in the field that have been making bottles for over 45 years.

Vertical plastifier

The Jomar Advantage

The Vertical Plastifier



"INTRUSION" molding is where the melt pressure required to fill the preform cavities is created by screw rotation in the vertical barrel only. There is no secondary horizontal screw or ram.

The benefits of intrusion are lower melt pressures and temperatures resulting in less stress and lower melt temperature in the preform.

The screw rotates longer to fill the cavity and therefore smaller diameter screws can be used compared to the same output in horizontal Injection Blow Machines.

An additional benefit is that less energy will be required on the vertical plastifier for the same shot weight of plastic.

The Jomar Advantage

Introduction

Jomar®

Your partners in Injection Blow Molding

The Jomar worker is a skilled craftsman. The average employee has been with Jomar for approximately 20 years.

Jomar has several million dollars invested in spare parts inventory, ready for delivery.

We are a single source for the entire IBM process from bottle concept to production and beyond.

The Jomar Partnership separates us from the competition. We emphasize:

- Service
- Training
- Turnkey Package

This is what we do.

The Jomar Advantage

Service

Jomar prides itself on uncompromising customer service. We realize that sales are won by price but lost by service. Our 50 years in business and numerous repeat customers reflect our dedication to after-sales service.

Our service personnel are veteran engineers and technicians with specialized knowledge of Jomar machine building, hydraulics and electrical systems, spare parts - everything that makes a Jomar injection blow molding machine run.

Approximately 80% of Jomar's business takes place outside the United States. As a result, Jomar's service department is expert in diagnosing and resolving problems remotely via telephone, email & Skype.

The Jomar Advantage

Training

Jomar wants to share its knowledge of IBM with customers and train technicians in all facets of production and maintenance.

Jomar will conduct training sessions at your plant, but we also invite your technicians to participate in classes held in our training facility at Jomar Corporate headquarters.

Training is coordinated with the customer's equipment or on a similar machine in our R&D laboratory. We cover all phases of machine/mold set-up and operation and also include basic electrical and hydraulic trouble-shooting.

Besides mechanical training, Jomar also offers classes in Process Engineering, so that your staff is able to recreate the process parameters established by our process engineers and then make adjustments in the field.

The Jomar Advantage

Turnkey System

Turnkey customers are those that purchase both a machine and mold from Jomar. It's the best way to take advantage of our years of experience because you gain numerous services such as the ones listed to the right.

- Jomar assumes all responsibility from tooling design to production. A single point of contact handles all your IBM needs.
- Jomar tests the unit cavity and production mold in the actual machine that will be used in production.
- Jomar modifies machinery and molds (if necessary) to create the optimum process window. All optimization and troubleshooting for the machine/mold integration is completed before the equipment leaves Jomar.
- Jomar process technicians deliver a customized set up sheet with all the process data (times, temperatures, pressures, etc) that can be duplicated in your plant.
- Process technician visits your plant for training and to ensure that you are capable of full production.

Getting Started with Jomar

We need some basic information about your project in order to verify that your bottle is suitable for injection blow molding and to determine the appropriate machinery.

Please provide us with the following information:

1) Bottle size that you wish to make

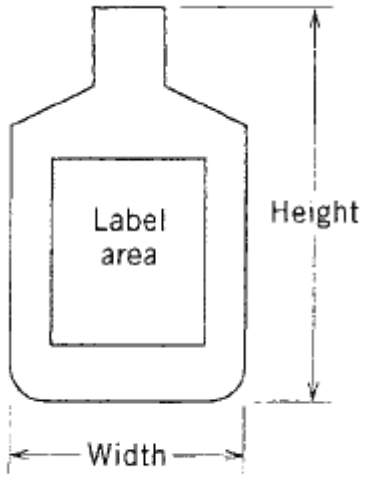
2) Number of bottles per year

3) Your resin selection

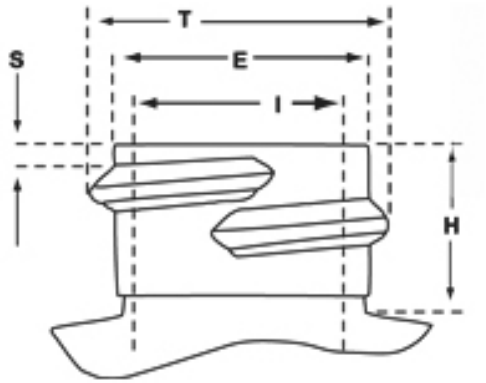
4) Can you provide a fully-detailed product drawing that indicates the gram weight?

5) Number of hours per day that your factory is operating

Getting Started with Jomar



Front View



If you are not able to provide a detailed product drawing, please try to give us the following critical dimensions:

1) The overall height of the bottle
2) The overall width off the bottle at the parting line
3) The “E” dimension of the neck.
4) The weight (in Grams) of the bottle

The “E” dimension is the outer diameter of the neck excluding the threads.

Jomar IntelliDrive Series

Jomar IntelliDrive Series

Featuring Servo-Driven Hydraulics

- **40-50% energy savings**
- **1.8 second dry cycle time**
  (On Model 85S)
- **18-month warranty on hydraulics**
- **40% less hydraulic oil needed**
- **40% less tower water**
- **Less noise & vibration**

Same frame as standard Jomar

IntelliDrive available for Model 85S, Model 135 & Model 175

Energy consumption figures contingent upon machine model, container specification and material process

Jomar IntelliDrive Series

Comparison of the Jomar IntelliDrive Series

Jomar IntelliDrive 85S vs. Competitor Equivalent

	Competitor equivalent	Jomar IntelliDrive Model 85S	Improvement %
Dry Cycle Time	2.5 seconds	1.8 Seconds	**28.0%**
Avg. Running kW	45 kW	21.8 kW	**51.6%**
Oil Capacity	200 gallons	60 gallons	**70.0%**
Tower Water Required 80 degrees, 60 psi	35 gallons	15 Gallons	**57.1%**

Energy consumption figures contingent upon machine model, container specification and material process

Jomar Extrusion Blow

N. America Only

Jomar represents ***Automa by Magic*** EMB machines in North America.

This partnership encompasses 10 extrusion blow molding machines (3 accumulator head and 7 continuous extrusion models), from 2 to 55 US tons, all equipped with the proprietary UNIKO 2.0® PLC and software.

Jomar now has a solution for the mass production of everything from small bottles to jerry cans.

Jomar Versatility

Jomar TechnoDrive 65 PET

Standard Resins and Beyond

- **Specifically engineered to run PET but can easily revert to common IBM materials such as PP and PE**
- **Combines core rod conditioning and ejection into a single station**
- **Retains fast 1.8 second dry cycle time**
- **Each machine is custom built for your project but retains adaptability for other production runs.**

Energy consumption figures contingent upon machine model, container specification and material process

New for Jomar

Jomar Hybrid Machines

Electric plastifiers now available

- **All electric plastifying units can be fitted to larger models (85S and above)**
- **Removes all hydraulics from plastifier assembly**
- **Within 15% of standard machine price**

Contact Jomar

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General Specifications

Standard Features

- Programmable control system with touch screen
- Screw speed tachometer
- Running time recorder
- Alarm system (visual and audible)
- Two pressure blow air
- High and low plastifier temperature alarms
- Cycle time indicator
- Preform hot water manifold
- Blow mold cooling manifold
- Choice of plastifier screws: General purpose for PE, PS and PP or special screws for PVC, PP and PET
- Laser Electric preform detector
- Current ANSI safety standards
- Ceramic heater bands
- Integrated heat controls
- Cycle counter
- Retains 30 sets of process parameters
- Internal and external cooling

Options

- Bottle Orientating Stripper System (B.O.S.S.)
- BOSS plus with vacuum
- Machine color finishes to customer specification
- Rotary Union for core rod temperature control
- WYE Delta electric motor start
- Outboard cylinder reducing pressure (for smaller molds)
- Automatic air system drain
- One year spare parts kit
- Non split nozzle
- Barrel fan cooling
- Air intensifiers
- HEPA filters

Machine Dimensions

	US	Metric
Length	81"	206 cm
Width	52"	132 cm
Height with 1.125" (28.57mm) 27:1 Screw	100"	254 cm
Installed Weight	3,710 lbs	1683 kg

General Specifications

	US	Metric
Preform Clamp	21 US tons	19 metric tons
Casting Area[1]	11.7 in² 7.5 in²	75.4 cm² 48.3 cm²
Blow Mold Clamp	5 US tons	4.5 metric tons
Shut Height	8.00"	203.2 mm
Press Stroke	4.00"	101.6 mm
Maximum Die Set (W x L)	12.50" x 10.75"	317 mm x 273 mm
Max Trigger Bar Length*	8.33"	211.6 mm
Max Swing Radius	13.44"	341.4 mm
Shot Capacity	60 grams (HDPE) with a 1.125" (28.57mm) diameter 27:1 L/D Vertical Screw	
Motor Size	Standard 20 hp (14.9kw)	
Recommended Power Service	100 amps @ 380V - 460V, 3 phase 50 - 60 hz	
Dry Cycle Time	2.0 seconds	
Average Power Consumption	11 kW	

1 For Standard resins LDPE, HDPE, PP etc use the larger area, For Engineering resins PC, PVC, PET, etc use the smaller casting area

* For information on available trigger bar lengths please contact Jomar

Jomar®
115 East Parkway Drive
Egg Harbor Township, NJ 08234 USA
Website: http://www.jomarcorp.com
Email: info@jomarcorp.com

Jomar® TechnoDrive™ IBM Model 65

TechnoDrive™ Features

- **Proportional hydraulics**
- **Closed loop press control**
- **Jomar RPM plastifier motor**
- **Remote diagnostics capability**
- **Digital press transducers**
- **High efficiency 50 HP motor**
- **Non cushioned cylinders**

Standard Features

- Programmable control system with touch screen
- Screw speed tachometer
- Running time recorder
- Alarm system (visual and audible)
- Two pressure blow air
- High and low plastifier temperature alarms
- Cycle time indicator
- Preform hot water manifold
- Blow mold cooling manifold
- Laser Electric preform detector
- Current ANSI/EC safety standards
- Ceramic heater bands
- Integrated heat controls
- Resettable cycle counter
- Retains over 250 sets of process parameters
- Two pressure preform injection
- Internal and external cooling

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High Production Machine

Dry cycle time 35% faster than standard Model 65

General Specifications

Average Power Consumption	**27.5 kW***	
Dry Cycle Time	**1.8 Seconds**	
	US	**Metric**
Preform Clamp	52 US tons	47 metric tons
Casting Area	29.7 ins²	192 cm²
Blow Mold Clamp	17.0 US tons	15.4 metric tons
Shut Height	9.00"	228.6 mm
Press Stroke	5.00"	127.0 mm
Maxmum Die Set (W x L)	17.00" x 26.00"	432 mm x 660 mm
Max Trigger Bar Length**	25.75"	654 mm
Max Swing Radius	25.39"	645 mm
Oil Tank Capacity	100 gallons	378.5 liters
Plastification Rate	41 grams/sec. with 2" (50.8mm) screw (HDPE)	
Shot Size	205 grams based upon 5 seconds (HDPE)	
Motor Size	Standard 50 hp (37.3 kW)	
Recommended Power Service (Machine Only)	200 amps @ 380V - 460V, 3 phase, 50 - 60 hz	
Total connected load	55.0 kW	

Machine Dimensions

	US	Metric
Length	115"	292 cm
Width	78"	198 cm
Height with 2.0" (50.8 mm) 30:1 Vertical Screw	134"	341 cm
Installed Weight	16,480 lbs	7,475 kg

* **Energy consumption reduction contingent upon container specification and material process**

** **For information on available trigger bar lengths please contact Jomar**

Jomar® IntelliDrive™ Series IBM

Model 85S Gen II

Standard Features

- Programmable control system with touch screen
- Screw speed tachometer
- Running time recorder
- Alarm system (visual and audible)
- Two pressure blow air
- High and low plastifier temperature alarms
- Cycle time indicator
- Preform hot water manifold
- Blow mold cooling manifold
- Choice of plastifier screws: General purpose for PE, PS and PP or special screws for PVC, PP and PET
- Laser Electric preform detector
- Current ANSI/EC safety standards
- Ceramic heater bands
- Integrated heat controls
- Resettable cycle counter
- Retains over 250 sets of process parameters
- Fully proportional hydraulics
- Two pressure preform injection
- Internal and external cooling

Unique to IntelliDrive™

- Servo motor-drive plastifier pump
- Jomar RPM for plastifier
- Jomar Power Pack
- Closed loop press control
- Electric controlled indexer
- Variable frequency drive
- Quick change cylinders
- Reinforced main platen
- Digital displacement transducers
- Special warranty

General Specifications

Average Power Consumption	28 kW	
Dry Cycle Time	**1.8 Seconds**	
	US	**Metric**
Preform Clamp	76 US tons	69 metric tons
Casting Area[1]	43.5 ins² 27.7 ins²	281 cm² 179 cm²
Blow Mold Clamp	11.8 US tons	11 metric tons
Shut Height	10.00"	254.0 mm
Press Stroke	5.00"	127.0 mm
Maxmum Die Set (W x L)	18.25" x 29.50"	464 mm x 749 mm
Max Trigger Bar Length*	26.5"	673 mm
Max Swing Radius	26.7"	678.2 mm
Shot Capacity	2.5" 24:1 Screw - 52.6 grams/second 2.5" 30:1 screw - 59.13 grams/second	
Total Connected Load	70 kW	

Machine Dimensions

	US	Metric
Length	131.25"	333 cm
Width	76.5"	194 cm
Height with 2.0" (50.8 mm) 30:1 Vertical Screw	134"	341 cm
Height with 2.5" (63.5 mm) 24:1 Vertical Screw	134"	341 cm
Height with 2.5" (63.5 mm) 30:1 Vertical Screw	154"	391 cm
Installed Weight	16,500lbs	7,485kg

1 For Standard resins LDPE, HDPE, PP etc use the larger area, For Engineering resins PC, PVC, PET, etc use the smaller casting area

* For information on available trigger bar lengths please contact Jomar

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Jomar® IntelliDrive™ Series IBM

Model 135

Standard Features

- Programmable control system with touch screen
- Screw speed tachometer
- Running time recorder
- Alarm system (visual and audible)
- Two pressure blow air
- High and low plastifier temperature alarms
- Cycle time indicator
- Preform hot water manifold
- Blow mold cooling manifold
- Choice of plastifier screws: General purpose for PE, PS and PP or special screws for PVC, PP and PET
- Laser Electric preform detector
- Current ANSI/EC safety standards
- Ceramic heater bands
- Integrated heat controls
- Resettable cycle counter
- Retains over 250 sets of process parameters
- Fully proportional hydraulics
- Two pressure preform injection
- Internal and external cooling

Unique to IntelliDrive™

- Servo motor-drive plastifier pump
- Jomar RPM for plastifier
- Jomar Power Pack
- Closed loop press control
- Electric controlled indexer
- Variable frequency drive
- Quick change cylinders
- Reinforced main platen
- Digital displacement transducers
- Special warranty

General Specifications

Average Power Consumption	**35.7 kW***	
Dry Cycle Time	**2.3 Seconds**	
	US	**Metric**
Preform Clamp	135 US tons	123 metric tons
Casting Area[1]	77.4 ins² 49.3 ins²	499 cm² 318 cm²
Blow Mold Clamp	28.0 US tons	25.4 metric tons
Shut Height	10.00"	254.0 mm
Press Stroke	6.00"	152.4 mm
Maxmum Die Set (W x L)	22.00" x 44.00"	559 mm x 1118 mm
Max Trigger Bar Length**	41.00"	1041.4 mm
Max Swing Radius	35.22"	895 mm
Shot Capacity	270 gr. (HDPE) with a 2.50" (63.5 mm) diameter 24:1 L/D Vertical Screw 360 gr. (HDPE) with a 2.50" (63.5 mm) diameter 30:1 L/D Vertical Screw 450 gr. (HDPE) with a 3.00" (76.2 mm) diameter 24:1 L/D Vertical Screw 550 gr. (HDPE) with a 3.00" (76.2 mm) diameter 30:1 L/D Vertical Screw	
Recommended Power Service (Machine Only)	200 amps @ 380V - 460V, 3 phase, 50 - 60 hz	
Total connected load	89.3 kW	

Machine Dimensions

	US	Metric
Length	149"	379 cm
Width	94.5"	240 cm
Height with 2.5" (63.5 mm) 24:1 Vertical Screw	134"	341 cm
Height with 2.5" (63.5 mm) 30:1 Vertical Screw	154"	392 cm
Height with 3.0" (76.2 mm) 24:1 Vertical Screw	154"	392 cm
Height with 3.0" (76.2 mm) 30:1 Vertical Screw	168"	427 cm
Installed Weight	32,200 lbs	14,606 kg

1 For Standard resins LDPE, HDPE, PP etc use the larger area, For Engineering resins PC, PVC, PET, etc use the smaller casting area

* Energy consumption reduction contingent upon container specification and material process

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Jomar® IntelliDrive™ Series IBM

Model 175

Standard Features

- Programmable control system with touch screen
- Screw speed tachometer
- Running time recorder
- Alarm system (visual and audible)
- Two pressure blow air
- High and low plastifier temperature alarms
- Cycle time indicator
- Preform hot water manifold
- Blow mold cooling manifold
- Choice of plastifier screws: General purpose for PE, PS and PP or special screws for PVC, PP and PET
- Laser Electric preform detector
- Current ANSI/EC safety standards
- Ceramic heater bands
- Integrated heat controls
- Resettable cycle counter
- Retains over 250 sets of process parameters
- Fully proportional hydraulics
- Two pressure preform injection
- Internal and external cooling

Unique to IntelliDrive™

- Servo motor-drive plastifier pump
- Jomar RPM for plastifier
- Jomar Power Pack
- Closed loop press control
- Electric controlled indexer
- Variable frequency drive
- Quick change cylinders
- Reinforced main platen
- Digital displacement transducers
- Special warranty
- Remote Access

General Specifications

Average Power Consumption	**48.1 kW***	
Dry Cycle Time	**2.5 Seconds**	
	US	**Metric**
Preform Clamp	**175** US tons	**159** metric tons
Casting Area[1]	**100** ins²	645 cm²
	63.6 ins²	**410** cm²
Blow Mold Clamp	**32.2** US tons	**29.2** metric tons
Shut Height	10.00"	254.0 mm
Press Stroke	6.00"	152.4 mm
Maxmum Die Set (W x L)	**25.00" x 54.00"**	**635 mm x1372 mm**
Max Trigger Bar Length**	**49.25"**	**1251** mm
Max Swing Radius	**38.9"**	**988** mm
Shot Capacity	270 gr. (HDPE) with a 2.50" (63.5 mm) diameter 24:1 L/D Vertical Screw	
	360 gr. (HDPE) with a 2.50" (63.5 mm) diameter 30:1 L/D Vertical Screw	
	450 gr. (HDPE) with a 3.00" (76.2 mm) diameter 24:1 L/D Vertical Screw	
	550 gr. (HDPE) with a 3.00" (76.2 mm) diameter 30:1 L/D Vertical Screw	
Recommended Power Service hz (Machine Only)	250 amps @ 380V - 460V, 3 phase, 50 - 60	
Total connected load	**120.2** kW	

Machine Dimensions

	US	**Metric**
Length	**174"**	**422** cm
Width	**105"**	**267 cm**
Height with 2.5" (63.5 mm) 24:1 Vertical Screw	**141"**	**358** cm
Height with 2.5" (63.5 mm) 30:1 Vertical Screw	**161"**	**409** cm
Height with 3.0" (76.2 mm) 24:1 Vertical Screw	**161"**	**409** cm
Height with 3.0" (76.2 mm) 30:1 Vertical Screw	**175"**	**445** cm
Installed Weight	**45,400** lbs	**20,539** kg

1 For Standard resins LDPE, HDPE, PP etc use the larger area, For Engineering resins PC, PVC, PET, etc use the smaller casting area

* Energy consumption reduction contingent upon container specification and material process

** For information on available trigger bar lengths please contact Jomar

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