



Requirements and Solutions

With 35 years of PET packaging expertise and technological market leadership, KHS Corpoplast represents the latest in mechanical engineering. With their modular and highly standardized concept, InnoPET Blomax stretch blow molding machines fulfill all requirements for maximum availability and precise production with the lowest possible energy consumption. The InnoPET Blomax machine family is perfectly suited to industry expectations: from 4 to 24 blow-molding stations, from 7,200 to 43,200 bottles per hour, hot-fill or preferential heating applications. Added to this is the development of premium lightweight bottles with the Bottles & Shapes™ program. All in all, these are the ideal prerequisites for optimizing overall operating costs.

Key Features

- Proven stretch below molding technology for high-precision, high-speed production of lightweight bottles including numerous bottle sizes and shapes.
- Low total operating costs thanks to maximum availability with minimum energy and material consumption.
- Gentle preform handling
- Use of widely differing bottle designs
- Shortest possible changeover times with the Speed-Loc system
- Use as InnoPET BloFill block in conjunction with KHS Innofill fillers

Standard Equipment

- Machine concept for every requirement: from 4 to 24 blow molding stations with outputs up to 43,200 bottles/hour
- Bottle sizes ranging from .12 to 2.5 liters
- Modular design, large number of identical parts
- Mechanical stretch system
- Airback® air recycling

Benefits

- Very low energy consumption
- Reliable neck-down conveying of preforms using mandrels
- Lowest possible preform spacing, best use of heating energy
- Precise, mechanical stretching (decisive for lightweight bottles)
- Very short changeover times for product changes with Speed-Loc quick-change mechanism
- 100% air recycling
- Low-maintenance, proven technology



2_INNOPET BLOMAX SERIE III

STRETCH BLOW MOLDING TECHNOLOGY FOR MEDIUM- TO HIGH-CAPACITY RANGES

PET PACKAGING SYSTEMS



Service

- Worldwide service
- Fast supply of spare parts
- Bottles & Shapes™ bottle design, development and tests
- Modernization, retrofits
- Blow molds (own manufacture)

Options

- Heat-resistant (HR) design for the production of bottles for hot filling
- Preferential heating (PH) design for the production of oval bottles
- Preform ionization
- UV treatment for preform bottle mouths
- Quality assurance systems

Main Technical Data for Series III InnoPET

Blomax stretch blow molding machines. Equipped with compact stations (up to 1,800 bottles/station/hour)

Max. nominal capacity, up to (bph) 1)

Blomax 4: 7.200 • Blomax 6: 10.800 • Blomax 8: 14.400 • Blomax 10: 18.000 • Blomax 12: 21.600 • Blomax 14: 25.200 • Blomax 16: 28.800 • Blomax 18: 32.400 • Blomax 20: 36.000 • Blomax 24: 43.200

Bottle sizes (liters)

Blomax 4-24: 0,12-2,5 2), 0,2-2,0

Max. diameter (mm) 3)

Blomax 4-24: 115/126

Max. length (mm)

Blomax 4-24: 350

Machine base area (A x B) (m) 5)

Blomax 4: 7,9 x 7,3 • Blomax 6: 8,3 x 7,6 • Blomax 8: 8,3 x 7,6 • Blomax 10: 9,9 x 7,9 • Blomax 12: 10,1 x 8,4 • Blomax 14: 10,2 x 9,3 • Blomax 16: 11,7 x 10,8 • Blomax 18: 11,7 x 10,8 • Blomax 20: 12,8 x 12,4 • Blomax 24: 12,8 x 12,4

Machine height (m)

Blomax 4-24: 3,1

Height of preform infeed (m)

Blomax 4-12: 4,1 • Blomax 14-18: 4,2 • Blomax 20-24: 4,7

Weight of basic machine (kg)

Blomax 4: 13.000 • Blomax 6: 13.500 • Blomax 8: 15.500 • Blomax 10: 16.000 • Blomax 12: 18.500 • Blomax 14: 19.000 • Blomax 16: 25.500 • Blomax 18: 26.000 • Blomax 20: 34.280 • Blomax 24: 34.780

Connected power, standard (kVA)

Blomax 4: 101 • Blomax 6: 120 • Blomax 8: 158 • Blomax 10: 196 • Blomax 12: 215 • Blomax 14: 253 • Blomax 16: 298 • Blomax 18: 317 • Blomax 20: 355 • Blomax 24: 412

Typical electrical consumption, 1,5-liter bottle (kW), 30g

Blomax 4: 52 • Blomax 6: 63 • Blomax 8: 80 • Blomax 10: 97 • Blomax 12: 109 • Blomax 14: 130 • Blomax 16: 147 • Blomax 18: 162 • Blomax 20: 187 • Blomax 24: 217

Air consumption, 35 bar, 1,5-liter bottle (Nm³/h)

Blomax 4: 412 • Blomax 6: 617 • Blomax 8: 822 • Blomax 10: 1.027 • Blomax 12: 1.234 • Blomax 14: 1.439 • Blomax 16: 1.644 • Blomax 18: 1.850 • Blomax 20: 2.056 • Blomax 24: 2.466

Typical cooling output (kW)

Blomax 4: 17 • Blomax 6: 23 • Blomax 8: 31 • Blomax 10: 39 • Blomax 12: 45 • Blomax 14: 54 • Blomax 16: 62 • Blomax 18: 68 • Blomax 20: 76 • Blomax 24: 90

Hopper size for preforms/production time (m³/min)

Blomax 4: 1,5/87 • Blomax 6: 1,5/58 • Blomax 8: 1,5/44 • Blomax 10: 3,0/70 • Blomax 12: 3,0/58 • Blomax 14: 3,0/50 • Blomax 16: 3,0/44 • Blomax 18: 3,0/39 • Blomax 20: 3,0/35 • Blomax 24: 3,0/29

Recommended buffer section, diameter 90 mm (m)

Blomax 4: 50 • Blomax 6: 66 • Blomax 8: 92 • Blomax 10: 108 • Blomax 12: 133 • Blomax 14: 149 • Blomax 16: 171 • Blomax 18: 188 • Blomax 20: 227 • Blomax 24: 260

Number of conveyor mandrels

Blomax 4: 116 • Blomax 6: 118 • Blomax 8: 168 • Blomax 10: 170 • Blomax 12: 226 • Blomax 14: 228 • Blomax 16: 278 • Blomax 18: 280 • Blomax 20: 384 • Blomax 24: 386

Number of bottles after preform-input-stop

Blomax 4: 124 • Blomax 6: 126 • Blomax 8: 183 • Blomax 10: 185 • Blomax 12: 243 • Blomax 14: 245 • Blomax 16: 295 • Blomax 18: 297 • Blomax 20: 404 • Blomax 24: 406

Number of heating chambers installed as standard

Blomax 4: 4 • Blomax 6: 5 • Blomax 8: 7 • Blomax 10: 9 • Blomax 12: 10 • Blomax 14: 12 • Blomax 16: 14 • Blomax 18: 15 • Blomax 20: 17 • Blomax 24: 20

Max. support ring diameter (mm)4)

Blomax 4-24: 36

1) 1,5-liter bottle, dependent on preform and bottle design 2) Dependent on bottle geometry 3) On request 4) Larger diameters on request 5) Including preform feed with box tipper