

# About BMB

BMB is a leading reality in the production of injection moulding machines.

Born in 1967 from a family venture, BMB offers itself as a reality with a high technological content and a 'human know how' that has innovated, transformed and advanced the times.

The founder, Mr. Egidio Bugatti, along with his son Marco, have a clear vision on how BMB should work.

Their purpose is to offer machines and personal solutions to solve any need in moulding.

Technology and innovation are obviously prerequisites to succeed in this hard task but it is equally important to have a strong and compact group where management and employees have the same values, with a shared responsibility towards the customer, to quality, transparency, reliability and credibility.

## Serie KW

160 t – 3500 t



KW patented clamping system



Accumulators on all the working phases of the machine



Voith pump and gears and Siemens motor



Colour touch screen monitor



Moog servo-valve



In line hydraulic motor



Quick change plasticising unit



Direct Torque electric motor

### Improving perfection...

Sometimes it is difficult to improve what is conceived and developed with the aim of achieving perfection.

We could never have imagined in the 90's, when the KW series with its famous, patented clamping unit, was introduced that it would still be considered innovative in today's highly sophisticated market place. Not only for the clamping unit, with its state of the art solutions, but the entire project which immediately became a model to follow and, in some cases, copy. Over time, the clamping/injection combinations have multiplied and managed to surpass almost all customer requirements. The BMB Research & Development department has constantly brought about improvements so that currently the injection machine shows higher performance, robustness and reliability than those on the market. We have made it simple to set and manage using a colour touch screen microprocessor so that the operator can use his most natural tool: the finger. We have increased the thickness of the platens, the dimensioning of the pump and gears, the equipment supplied in series and the details that made the difference, such as the threaded rolled tie bars and the bronze nuts in sturdy nickel-chrome-molybdenum, both tempered and chromed. We therefore invite you to discover the greater details.

## Serie KW Pi

160 t – 850 t



Patented KW clamping system



Colour touch screen microprocessor



Quick replacement of plasticising unit



Accumulators on all working phases



Direct in line hydraulic motor



Torque electric motor



Moog servo-valve



Voith pump and Siemens motor



<http://www.bmb-spa.com/eng/prodotti/kwpi/index.html#>

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### Reference in packaging

Pi Series: specific machines for packaging

For years this series of machines has been the protagonist of special technology dedicated to the production of thin wall, fast cycling products. Working in close collaboration with the manufacturing companies and the mould producers lead to mutual improvements being achieved in the end result.

The manufacturing costs are determined by the possibility to produce parts with certain features and the capacity to reproduce the results obtained consistently. The Pi series machines unite the best features to produce the "technical" pieces with maximum conditions to increase productivity. Only by having greater repetition can we produce "packaging" items with elevated and constant cycles and therefore in an "economic" manner. Only when the mechanics, hydraulics and electronics come from the same "source" can you reach the maximum output of the machine overall.

This was the winning choice for BMB in recent years.

# Serie KX

1400 t – 3500 t



Ejection plate in line and easily accessible



Colour touch screen monitor



Hydraulic system fully accumulated



KX 2700/32000 Machine assembly phase

### he “wide view” machine

The KX series by BMB was established to meet market needs for larger clamp force machines with particular features, thereby completing the extremely comprehensive range of existing products. The generous platen dimensions and the long opening strokes provide innumerable possibilities to install typical moulds, for example in the automotive sector. To ensure a perfect guide in the movement of the moving platen, the lower tie bars are ‘fixed’ to the base and enable a further guarantee of mechanical robustness. Despite the overall size of the project, our KX series offers contained and compact sizes. The KX series is available from 1,400 tons.

## Serie eKW

L'unica macchina elettrica con tutti gli azionamenti diretti.

The full electric machine with unique direct coupling between motor and axle

**100 t – 450 t**



touch screen control panel



machine tool CNC control system



direct drive system with Torque motors



quick replacement of plasticization unit



eKW clamping system



recirculating roller screws for all operations



recirculating roller screws in oil bath, on closing and ejection movements

### **The future is now**

We have achieved important goals over the last forty years in the production of advanced machinery for the injection of plastic materials.

Dedicated to sturdiness and robustness over long periods of time, our machines are capable of working in the most demanding conditions.

Responding to the ever increasing focus on environmental problems, we have managed to combine the success we have achieved with a KW toggle patent with a drastic reduction in the energy consumption, sound emissions and the cleanliness of the workplace by eliminating the use of oil for machine movements.

The CNC type control installed on the eKW has allowed us to achieve finite precision without having to reduce the speed of movement.

# Serie eKW Hybrid

160 t – 1150 t



touch screen control panel



machine tool CNC control system



direct drive system with Torque motors



quick replacement of plasticization unit



eKW clamping system



recirculating roller screws for all operations



recirculating roller screws in oil bath, on closing and ejection movements

### **Combined technology-highest performances**

The revolutionary eKW Hybrid Series has evolved from pursuing ever more creative solutions to attain the highest engineering level. BMB combined all the experience gained in two of its areas of speciality, the one dedicated to fast cycling machines and the other dedicated to full electric technology thus condensing all the advantages into one Series. Innovative technology creating extraordinary machines from every aspect: large capacity injection unit, precision, velocity, robustness and low energy consumption. 'Stepping Stones' to perfection. Range of the models is from 160 to 1150 tonnes.

## Serie eMC

70 t – 200 t





### **Simply easy**

The range of fully electrical machines in the eMC series is designed and built by BMB in 5 models from 70 to 200 tons clamp force.

These machines were designed and dimensioned for the production of technical items and in particular for all those applications where precision and repetition are specifically required.

To be a long term solution a new model must not only meet market demands but also take future developments into account. The advantages of fully electrical machines in terms of energy savings, precision and production quality are so convincing that they revolutionise the assessment parameters for investments in the next few years.

And the force behind such reasoning pushed us to develop a series of machines that represent a completely new proposal for the market.