



**PRODUCT** +  
CATALOGUE



# ***OUR MACHINES ARE IMPORTED***

**"WE STRIVE FOR SERVICE EXCELLENCE"**



# INTRO & INDEX

## ABOUT US

Established in 2012 Omega Africa started in Port Elizabeth South Africa. With more than 70 years combined plastic processing, tool making and administrative proficiency. We are now broadening our horizons: offering extensive knowledge of injection molding, ultrasonics, gravimetric blending and mixing, hot runner systems and controllers.

## OUR VISION

To create long term valued relationships with our customers through our passion for world-class service and our commitment to offer competitive and quality products.

*"We strive for service excellence"*

## OUR MISSION

To constantly improve our service and product quality so we can provide our customers with a one-of-a-kind hassle-free experience and to grow OA-Agencies to become the name you can trust in the injection moulding industry.

**INJECTION  
MOULDING  
MACHINES**



**ANCILLARY  
EQUIPMENT**



**TURNKEY  
SOLUTIONS**



**ULTRASONIC  
EQUIPMENT**



**LOADING AND  
WEIGHING  
EQUIPMENT**



**PRINTING AND  
LABELING  
MACHINES**



# INJECTION MOULDING MACHINES

With the global demand for low-carbon emissions and environmental friendly production, together with the fast development of plastic industry the need for multi-cavity, light-weighting and faster cycle times have become a necessity for injection molding factories. At Omega Africa Agencies we offer Injection Moulding Machines with the

latest energy saving servo motors, double linear guide rail to ensure faster more precise operation and high-tech modular design for easy upgrades to ensure that all our machines provide world class performance and reliability

**FÜHRUNG**

**FUHRUNG SERIES**



## **MECHANICAL UNIT**

- Larger space between tie-bars, suitable for larger and multi-cavity moulds
- Longer and wider guide length for higher repeatability, precision and improved product quality
- Better designed mechanical structure and toggle system for faster cycle times and improved production efficiency
- Graphite-copper bushes and sliders used on tie-bars, movable platen and ejector to ensure fast and precise mold opening and closing

## **INJECTION UNIT**

- Double linear guide rail for faster speeds and more precise, stable operation
- Double carriage cylinder to ensure perfect, fast and precise injection
- Fully supported injection unit to prevent the injection unit moving up or down
- Injection proportional back-pressure control for more convenient operation and shot stability

## **HYDRAULIC UNIT**

- High quality, precision and energy saving servo power systems, to prevent energy waste  
Depending on the plastic parts being produced and the material being used, energy-saving ability can attain between 20 & 80%
- Servo motors have a precise internal gear pump, with a top of the range pressure sensor for optimal control and improved product quality
- High speed: High response hydraulic circuit and a high performance servo system coupled together with the advanced KEBA controller

## **ELECTRICAL UNIT**

- Stable and reliable hardware: World class hardware and production testing technology ensures reliable, quality operation
- Precise measurement and control: Excellent interference immunity ensuring precision and stability of measurement and control.  
Ability to direct the drive PQ valve and other external equipment to avoid amplifying converters and saving costs.
- Fast response: 400MHz, 32 bit CPU, 128MB SDRAM, and a high speed task cycle time of 2ms together with a high performance CPU and logic task distribution system

# INJECTION MOULDING MACHINES

**BLAZE** Series

**BLAZE SERIES**

**UPVC SERIES**



## **MECHANICAL UNIT**

- Box-type mold platen design for increased strength and durability
- High quality copper bushes on tie bars increase tie bar lifespan
- Push platen adopts the self-lubrication copper bushes, for high speed & precision
- Thickened platen center to maximize product precision

## **INJECTION UNIT**

- Fully supported injection unit base, for increased stability and precision
- Faster response check valve with 20ms response time
- High quality SKD61 screw tip, check ring and thrust ring and 38CrMoAl screw and barrel

## **HYDRAULIC UNIT**

- World famous hydraulic parts ensure machine's stability and fast response
- Visible and dischargeable oil tank for easy hydraulic circuit maintenance
- Modular adaptor valve blocks
- SELF-SEAL magnetic suction filter, makes maintenance more convenient



# INJECTION MOULDING MACHINES - SERIES MODELS

## FUHRUNG SERIES

Model	Clamping Force kN	Distance between Tiebars mm	Max Opening Distance mm
LWF900	900	420*370	710
LWF1300	1300	470*420	830
LWF1600	1600	520*470	965
LWF2200	2200	570*520	1040
LWF2800	2800	630*630	1230
LWF3500	3500	720*720	1380
LWF4500	4500	820*820	1560

## BLAZE SERIES

### UPVC SERIES

Model	Clamping Force kN	Distance between Tiebars mm	Max Opening Distance mm
LWB600	600	310*310	610
LWB1000	1000	370*370	725
LWB1400	1400	420*420	830
LWB1700	1700	470*470	955
LWB2100	2100	520*505	1005
LWB2600	2600	580*580	1130
LWB3200	3200	660*660	1340
LWB3800	3800	720*700	1485
LWB4200	4200	760*760	1520
LWB5000	5000	820*780	1580
LWB6000	6000	880*880	1770
LWB8000	8000	980*980	1910
LWB11000	11000	1170*1170	2500
LWB13000	13000	1280*1280	2820
LWB16000	16000	1520*1420	3180



# TURNKEY SOLUTIONS

Omega Africa Agencies provide professional and complete turnkey solutions for the injection moulding industry. We provide our customer's with cost effective solutions by incorporating cutting edge products with a wealth of

experience and know how. We take projects from concept to completion while delivering professional tailor made solutions.

SPECIFICATION

DESIGN

DEVELOPMENT

MANUFACTURE & TEST

DOCUMENTATION & DELIVERY

## LOADING AND WEIGHING EQUIPMENT

### VENTURI HOPPER LOADERS

#### CA3 COMPRESSED AIR LOADERS FOR QUIET RELIABLE LOADING.

CA3 Loaders provide trouble free loading up to 130 kg per hour. CA3 loaders have no moving parts or motors to maintain. They come complete with controls, material sensor, hose and material wands. CA3 Loaders feature our clamp-on design that makes maintenance simple. No more wrestling to get hoses on and off. Just mount our clamp-on machine flange and add the parts you need. You can even clamp-on a color feeder.

- Class 3A Food Grade Polished Stainless Steel
- No-Load Alarm sound, Will sound alarm when material runs dry
- Stainless Steel, Energy Efficient Material Wand
- Self cleaning and clean room ready



### AUTO LOADERS

#### SPAL RANGE

The SPAL Range detachable and independent Auto Loaders have been manufactured from the highest quality parts to provide our customers with cost effective durable solution for all there material loading needs. The SPAL Range autoloaders are available in a wide variety of power and loading capacities to suite any machine specifications.

- Stainless steel Hopper loader
- No load alarm, Will Sound Alarm when material runs dry
- Micro processor controlled for optimum performance



# LOADING AND WEIGHING EQUIPMENT

## WEIGHING & CONTROL SYSTEMS

### **COLORSAVE 1000**

ColorSave 1000 is a highly accurate and cost-effective single component masterbatch & additive gravimetric feeder for injection molding, extrusion and blow molding machines, that offers significant cost-savings and production efficiency advantages for plastics manufacturers.

ColorSave 1000 is the original single component gravimetric feeder for injection molding machines, and is still the only gravimetric feeder available with an internal weighing hopper ensuring unmatched resistance to mechanical shocks and vibrations, while providing the most accurate weighing and dosing.



### **COLORSAVE MICRO**

ColorSave-Micro is the world's first small dose gravimetric feeder. The ColorSave-Micro's accurate and consistent shot to shot dosing will reduce your product rejects, maintenance time and additive waste.



### **FLOW SAVE**

FlowSave is a Continuous Loss-In-Weight Gravimetric Blender and fulfills the extrusion sector's demands for accurate and homogenous dosing and constant blending, by providing highly accurate loss-in-weight blending and feeding of various size and bulk density materials such as pellets, regrinds and powder.



### **SPECTROSAVE**

SpectroSave is a multi-channel in-line spectrometer that integrates within the production line, providing on-site and realtime QA of colors. As opposed to stand alone spectrometers, SpectroSave communicates with the additive feeder, providing real-time feedback and correction of dosing quantities for 100% of machine cycles.



### **LIADVIEW**

LIAD-View is an in-line monitoring and control software available with LIAD's products. With LIAD-View, you gain access to valuable, real time job performance parameters necessary to run your business.



# ANCILLARY EQUIPMENT

## GRANULATORS

The SPG Series granulators are manufactured from high quality parts and are ideal for the recycling of plastic waste and rejects primarily from injection and blow molding processes. No matter what your requirements, there is a SPG model available to suit your individual needs.

- High grade chromium alloy tool steel blades
- Specially designed cutter Blades to increase cutting efficiency and blade life span
- Improved design minimizes pileups and simplifies cleaning and maintenance
- Energy saving, low noise design



## CHILLERS

The SPI series chillers are available in a wide variety of air and water cooled versions. The SPI range is specifically designed with energy efficiency and system protection in mind and also features a unique condenser to improve heat exchange efficiency.

- Pump and compressor overload protection and warning light
- Stainless steel water tank
- Customizable acid and alkali resistant upgrades available



## DRYERS AND DEHUMIDIFIER

The SPD Range Dryers and dehumidifiers are designed and manufactured to the highest standards to provide a durable, cost effective and user friendly product, for all your material drying needs. They range from standard and euro type hoppers dryers to 3 in one and honeycomb dehumidifiers .

FEATURES:

- Stainless-steel contact parts
- Aluminum cast hull for improved temperature consistency
- Low noise and easy open design
- Closed loop design to prevent external air contact



## AUTOMATION ROBOTS

The SP-Robot range offer a wide range of high quality, affordable automation robots for the plastic industry and are extensively applied throughout the injection moulding industry. Available from 50t to 3500t.

FEATURES:

- 320×240 Color Display
- High speed, highly efficient 16Bit CPU
- Separate Servo and CPU boards allow for independent replacement
- USB interface for easy updates



# ULTRASONIC EQUIPMENT



Our high quality ultrasonic equipment can be used in a wide variety of applications in today's plastic industry. Most commonly used for welding of thermoplastics it can also be used to insert, stake, stud, sieve, spot weld, slit, seal

and laminate. In addition it also has a wide variety of applications for NDT testing and cleaning of parts and equipment. Ultrasonic components are also easily integrated into automated systems.

## ULTRASONIC WELDING

As a joining process for industrial plastics, the ultrasonic method is very well proven in practice. Particularly in the production of mass produced parts, the process offers definite advantage over previous methods such as for instance high strength, clean weld seams, fast processing time, extremely low rejection rates and low energy consumption.

FEATURES:

- Precise time setting with least count of 0.001 second, thus avoiding over welding, deformation, reduction of production rate and excess consumption of power
- Additional ultrasonic vibration at the end of cycle resulting into removal of particles from horn
- Self diagnosis Microprocessor allows operator to rectify the system



## ULTRASONIC CLEANING

Ultrasonic bath works on the principle of Ultrasonic cavitation i.e. high frequency vibrations, generate agitation in liquid resulting into rapid formation and collapse of minute bubbles in liquid. Implosion of bubbles with high pressure on exposed surface of component dislodges and removes contamination like dirt, dust, oil, grease, chips, wax, lapping paste, carbon etc.

FEATURES:

- User friendly operation
- Generously dimensioned heating system for rapid heating of the liquid, 20 and 80°C
- Remaining cleaning time is optically displayed
- Complete high grade stainless steel bath
- Timer operation 1-99 min and continuous operation
- Digital Control of time and temperature
- Tank contents 1.5 - 28 ltr
- Suitable for continuous operation
- Rugged and easy to clean stainless steel housing



# ULTRASONIC EQUIPMENT

## NDT EQUIPMENT

Ultrasonic Thickness measurement is non destructive method of measurement and particularly, suitable for components having access only from one side, where conventional gauge cannot be used.

### FEATURES:

- Light weight, easy to use
- Thickness measurement possible for one side access components
- On line thickness monitoring, with suitable fixtures
- Microprocessor controlled with facility to store calibration and measured data



## SONO CHEMISTRY

### LIQUID PROCESSING

Within the ultrasonic liquid processing domain, a wide range of chemical and physical processes can be influenced by this state of the art ultrasonic equipment.

Numerous chemical and physical processes can be performed such as the disruption of cells, preparation of emulsions and dispersions, homogenizing of liquids, acceleration of various chemical reactions, atomization, degassing of liquids and the extraction of several substances from organic sources.

Furthermore, the equipment is ideally suited for development activities in the area of sono chemistry research.



### SONO SIEVING

With our high tech ultrasonic sieving equipment we have transformed conventional sieving procedures.

Not only can the screening process be accelerated radically (Up to 30 times) also the mesh quality and its lifetime can be increased. Also you improve your through put and the quality of your products.

In addition to the conventional method, "SONOSCREEN" ultrasonic supported sieving technology evenly transmits as oscillating motion, in the micron range, onto the screen surface reducing the friction between the sieve mesh and bulk material. This Enhances the throughput and quality of your present vibratory screener, sieve or sifter.



# PRINTING AND LABELING MACHINES

## LACQUER & LABELING MACHINES

The LL-60 is unique in its application as it is the first time that a machine with lacquering and labeling application on tubes is offered. This compact machine is developed for high speed label applications and can apply paper, PVC, opaque & transparent pressure sensitive labels. The various operations that are possible on this unique machine are Corona Treatment, UV Lacquering, UV Curing and Label Application. Combining the LL-60 with this Capping Machine CP-60+ or CP-60-OR could help you to set up a dedicated production line for labeled tubes.

### FEATURES:

- NO Tube NO Labeling – reduce wastage
- Quick & easy change over for different tube sizes
- Automatic rejection of faulty tubes – Ensure good labeled tube going to customer



## HOT-FOIL STAMPING MACHINES

The STM150 is a Highly versatile machine to perform hot foil stamping and heat transfer on various convex shapes like Oval, Square, Round, Elliptical & others.

Over the years this machine got reputation of being the most efficient machine present in the world. This machine has become the preferred option of hot foil stamping for leading cosmetic and personal care companies around the world.

Presently over 2,900,000 caps are being hot foil stamped on these machines in the world every day. With an output up to 65 caps per minute this machine has got quick payback time.

### FEATURES:

- This machine is capable of doing hot foil stamping on various shapes of caps and closure likes Oval, Square, Round, Elliptical and other con-vex shapes
- Low Cost Per Piece – Reduction in foil consumption up to 30%
- High Speed With Fully Automatic Operation – Up to 65 caps /min



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PLASTIC MANUFACTURING MACHINE PRODUCT RANGE



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