



Experience
Quality
Reliability



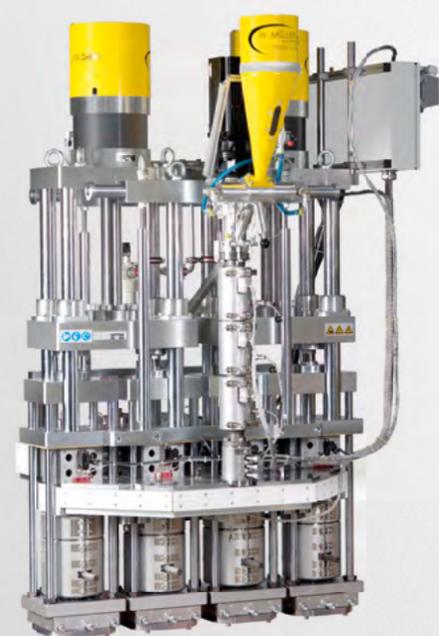
Why you should choose W. MÜLLER Blow Molding Technologies

Founded in 1976, W. MÜLLER GmbH is a second generation, family owned and operated company with a traditional heritage. Being a traditional company doesn't only mean consistency and quality, but also continuous development in all areas of the company.

The best results require constant dedication; starting from engineering and development, through manufacturing, and beyond installation, customer satisfaction is our measure of success.

This catalog will give you just a brief look into our capabilities and solutions, as well as the broad range of applications covered by our extrusion heads and auxiliary equipment.

We look forward to sharing our experience with you.



With over 43 years of experience, and over 4,000 extrusion heads and 3,500 extruders delivered in over 50 countries, we are your #1 partner in extrusion technology.



FAMILY OWNED FOR OVER 40 YEARS



Building a sustainable future together.

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Why choose W. MÜLLER GmbH extrusion heads?



SOLUTION ORIENTED
—
Your ideas brought to market

CREATIVITY
—
Creative solutions for all of your ideas



COLLABORATIVE
—
Your vision; our expertise



REPUTATION
—
We achieve an ongoing positive customer feedback



QUICK
—
Your needs handled quickly

LIFELONG SERVICE
—
Product support through its lifetime



LABORATORY TESTING
—
Your visions come to life in our lab

Our Common Goal - Your Product

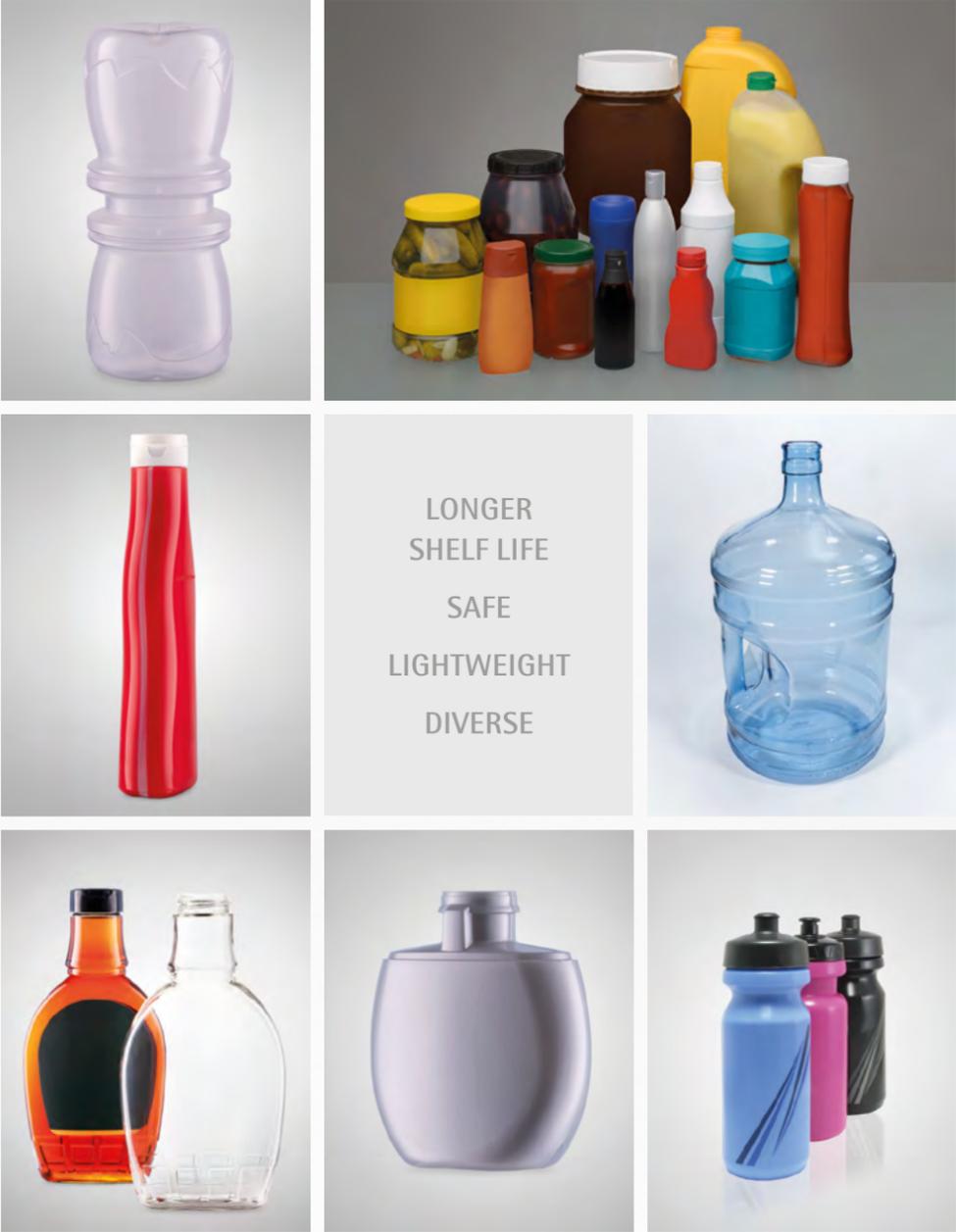


Food Packaging

The food industry places particularly high demands on packaging properties.

For example, bottles for this sector must ensure optimum protection of the filled product with no risk of contamination. At the same time, the packaging must be break resistant and aesthetically appealing. Cost-effective production is also a welcome bonus.

In this case, plastic bottles offer the ideal properties. A multi-layer wall structure consisting of diverse plastic materials enables the combination of various aspects, such as; optimum shape and transparency, with, for example, an oxygen barrier to help preserve the filled product. Plastic bottles are also particularly lightweight and break resistant during filling and handling processes.

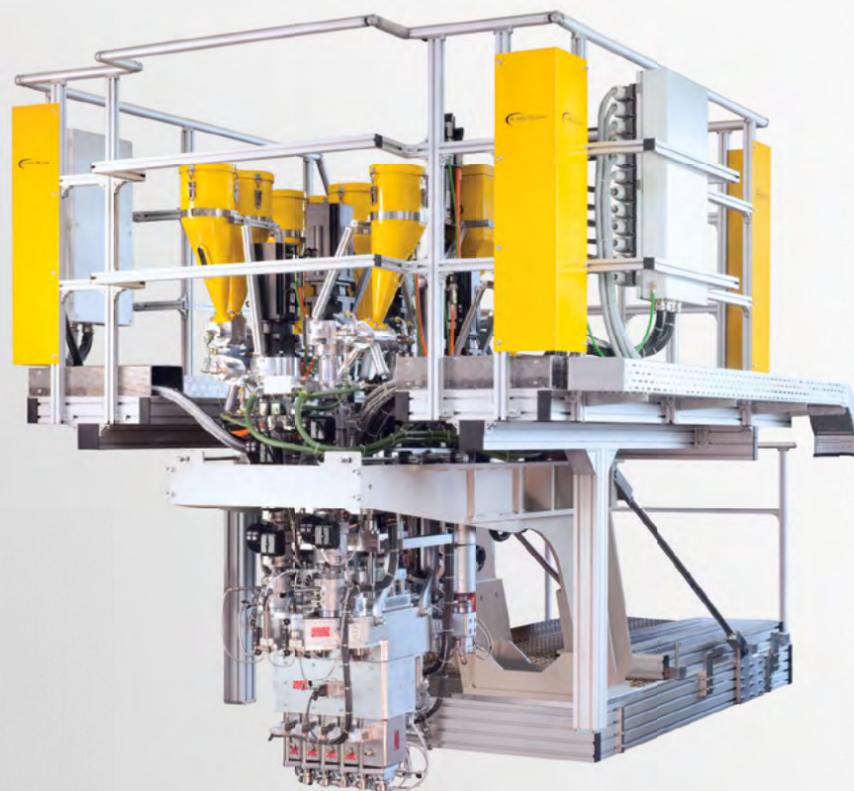


Cosmetics Packaging

Cosmetics packaging must emphasize the high quality and exclusiveness of the product. The focus here is on the individual design and application of high-quality materials. A glass-like appearance with impressive depth effect and special color effects can add to the level of attractiveness.

The application of special materials in the outer layer enhances the feel and aesthetics of the surface.

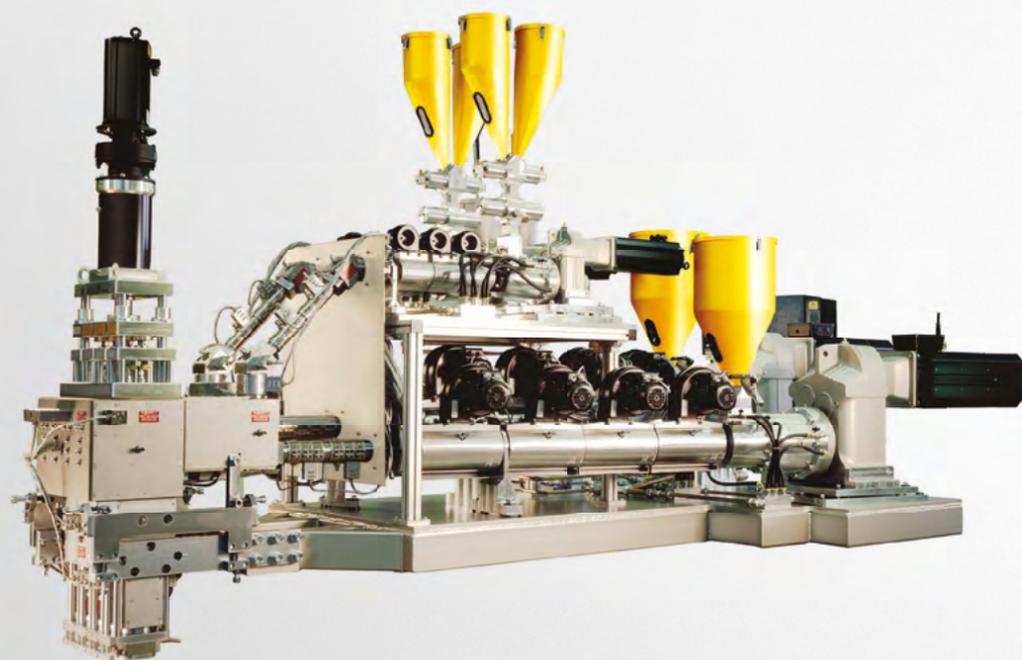
A trend in this sector is relatively small bottle sizes designed for travel and active use.



Pharmaceutical Packaging

Health comes first for pharmaceutical applications. Sterility takes top priority. Eye drop bottles, blood bags, transfusion bags, and medical packaging are manufactured under clean room conditions. The design of the packaging is often customized to the respective area of application.

The special requirements placed on the properties of the containers are met by using a multi-layer container wall structure, consisting of various plastic materials.



STERILE
CLEANROOM
READY
FUNCTIONAL
SAFE



Household Packaging

Many household products are manufactured in large quantity runs. Packaging costs play a major role when calculating the overall product costs and this is the reason why extremely thin-walled bottles that require less material are often preferred. However,

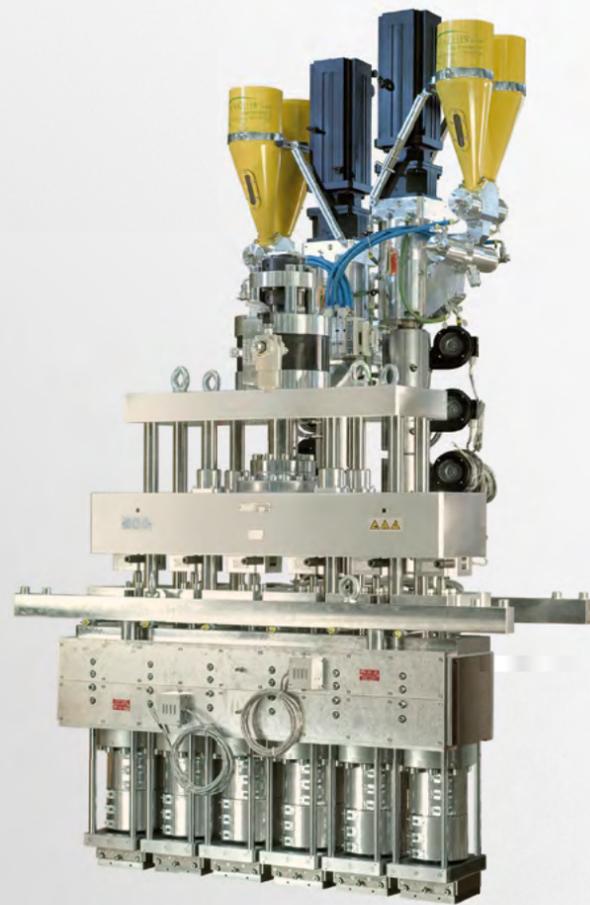
only uniform material distribution across the entire container ensures efficient material usage and thus cost-effective production conditions.



Chemical Packaging

Environmental protection is a key aspect of chemical packaging. Diffusion of the aggressive fluid through the container wall should always be prevented. This is achieved reliably and effectively for plastic bottles and contain-

ers through special inner plastic layers that give barrier properties. Furthermore, the design ensures almost complete emptying of the containers.



ENVIRONMENTAL
PROTECTION
NO DIFFUSING
RESIDUE FREE



Industrial Packaging

Various requirements regarding safety during storage and transportation are placed on industrial packaging. At the same time, varying requirements for protecting the respective filled product must be met: high mechanical strength, stackability, burst pressure safety rating, barrier properties, the

integration of conductive layers and the use of recycled resin, just to mention a few of the many demands.

It is also critically important not to compromise the visual appeal of industrial packaging.



DURABLE
STRONG
STACKABLE



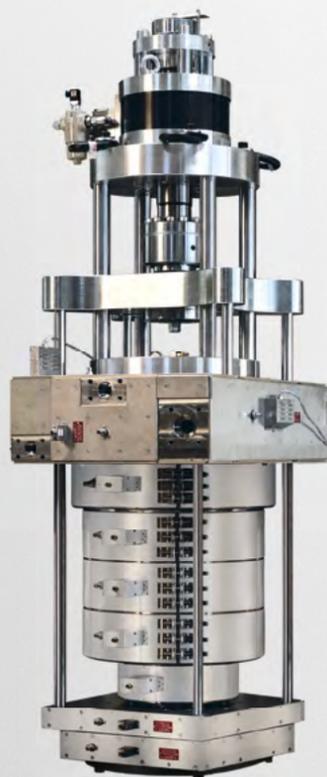
HIGH BURSTING
STRENGTH
VIEW STRIPES
INDUSTRIAL GRADE
BARRIER LAYERS



Automotive Applications

When developing new components for the automotive industry, the goal of weight and cost reduction is just as important as safety issues. Complex designs mean that components come in all shapes and sizes. At the same time, very high demands are placed

on components in terms of their durability, strength and eco-friendliness. Moreover, in engine compartments the components must be able to withstand considerable temperature fluctuations while minimizing any negative impacts.



LIGHTWEIGHT
DURABLE
TEMPERATURE
RESISTANT

CRASH SAFE
NOISE
REDUCING



Photo courtesy of Kuraray

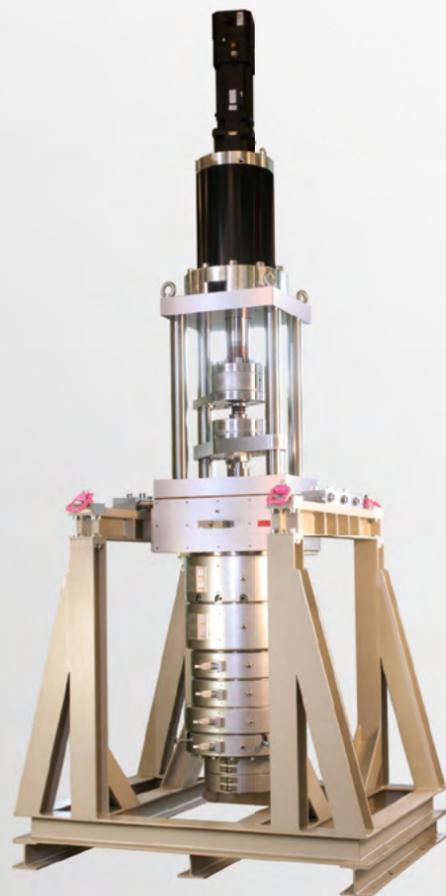


Bulk Containers

Today, large containers, such as barrels, IBCs (Intermediate Bulk Containers), and storage tanks, are generally available as mono-layer containers. In this case, the container wall consists of one type of material which sometimes includes additives. These containers are often treated with fluorine gas to achieve the desired barrier properties. This treatment raises major concerns with regard to environmental protection as well as health and safety compliance.

A trend towards multi-layer wall structures is currently underway to achieve enhanced container properties. By combining various plastics with different properties, the qualities of the containers are perfectly adapted to the respective area of application.

Furthermore, uniform distribution of raw material across the entire container surface plays a significant role in assuring a cost-effective production, in particular when manufacturing large material-intensive containers.



<p>INDUSTRIAL GRADE BARRIER LAYERS STACKABLE</p>	
	<p>DURABLE TRANSPORTABLE RE-USABLE</p>



Sustainability

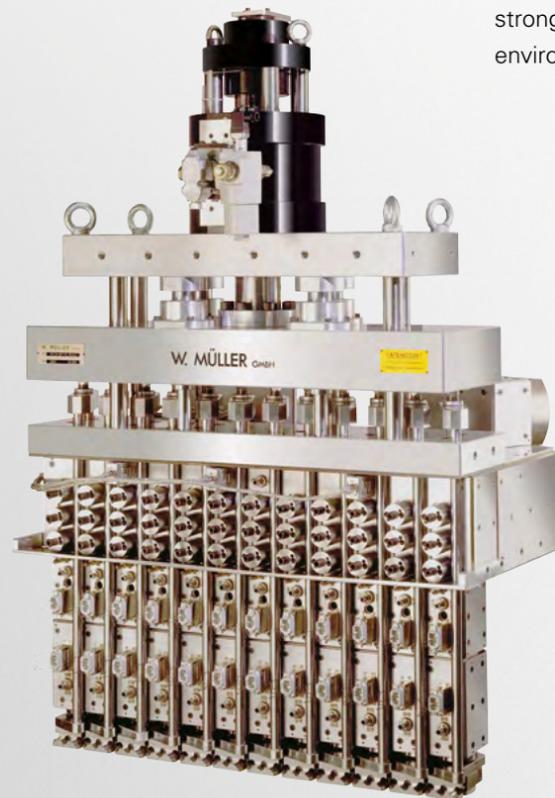
Changes in global demand and increased criticality towards plastics mean new and increased customer expectations.

We build sustainability into our extrusion solutions, so that you can add sustainability and resource conservation to your production capabilities.

Our extrusion heads are capable of:

- Processing recycled materials: Our ReCo multilayer technology is perfect for processing Post Consumer Recyclables (PCR) and production scrap. By creating a middle layer out of recycled material, you not only save virgin material and colorant, but also create a „closed loop“ for your production. ReCo3 containers are 100% recyclable.
- Physical Foaming: Foaming the material in the middle layer saves weight, material usage, and increases physical tolerances. Lower weight means less CO2 emissions during transport.

Our precision wall thickness control system adds another dimension to material usage reduction. By guaranteeing uniform wall thickness distribution that is both thin and strong, you can increase savings and reduce environmental impact even further.



PCR
RESOURCE
CONSERVATION
COST REDUCTIONS
UNIFORM WALL
DISTRIBUTION
FOR MINIMUM
MATERIAL USAGE

ReCo

1. Outer Layer - Virgin & Color
2. Middle Layer - e.g. PCR & Re grind
3. Inner Layer - Virgin



Future Applications

Packaging of the Future - Where are we Headed?

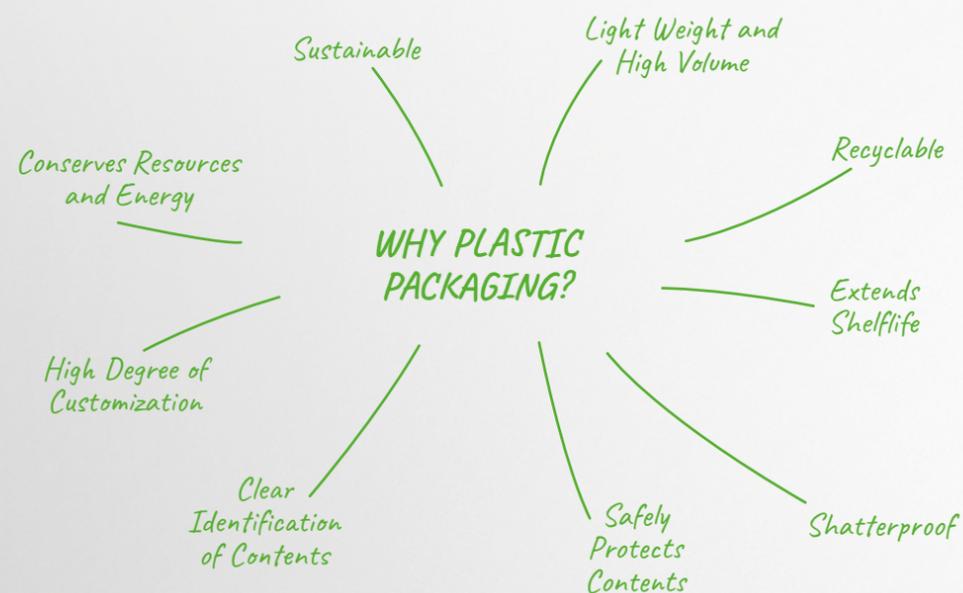
Packaging increases the lifetime of products for daily consumption, like food and medical supplies, and also allows distribution into geographic areas that would otherwise go without.

A life without packaging is impossible; but, we need to change our perspective. Packages can no longer be throw away articles, they must be seen as valuable resources.

Approximately 3 billion people have no access to frequent trash collection or recycling. A lot needs to happen in order to change this, and it starts with us changing our perspective to make better use of plastics.

We at W. MÜLLER follow trends in packaging very closely, and see a lot of possibility. What are the opportunities for blow molding in the future? How can we contribute to best protect our planet today?

We look forward to finding these answers with you.



<p>RECYCLING PCR AND RAW MATERIALS</p> <p>–</p> <p>PCR needs to be produced and collected much faster to meet the growing production demands.</p>		<p>USAGE OF PLANT BASED PLASTICS</p> <p>–</p> <p>Reduction of petroleum usage by using organic, blended materials. Fully recyclable.</p>
	<p>W. MÜLLER GMBH</p> <p>DeCo and ReCo Multilayer Technologies</p> <p>–</p> <p>Experience the future of your products in our lab.</p>	
<p>MATERIAL USAGE REDUCTION</p> <p>–</p> <p>Reduce raw material usage through physical foaming and optimized wall thickness distribution.</p>		<p>USAGE OF 100% RENEWABLE RESOURCES AND MATERIALS</p> <p>–</p> <p>For certain applications.</p>



Why choose W. MÜLLER GmbH extrusion heads?



High-level of customization, designed for customer demands, tried and tested in 24/7 operation.

Our experienced customer service engineers always provide friendly, efficient, and effective support.

We offer prompt delivery and installation worldwide.

The demands of production stability and functional reliability are always met, even with complex new developments.



Our combination of control systems, customized software development, and control cabinet construction guarantees the full integration of procedures into your production process.

Our extrusion heads ensure excellent uniform distribution, precise melt transport, and short color-change intervals for all blow molding plastics.

We maintain a large inventory and prompt availability of all spare parts.

We have extensive experience in the multi-layer extrusion of hollow articles and are the world's leading provider of 4 and 6-layer systems for the production of hollow plastic articles with barrier properties.



Our in-house design and production capacity ensures the highest quality for all our products and services.

Our products are safe and comply with European directives.



All our products are designed for long-term performance and in comparison always the most cost-effective solution!



Layer Options



Mono-Layer

For Mono-Layer designed containers or parts, we provide our "spider-type" heads, whose technical design ensures uniform material distribution even with varying throughput requirements and the shortest material and color changeover periods. A wide range of plastic raw materials are processed using this style of extrusion heads.

DeCo

Our DeCo technology offers a cost effective and resource-saving alternative to monolayer production. Savings in colorant alone can reach as high as an 80% reduction in usage, and depending on the application, the inner layer can be made out of recycled/reused materials.

ReCo

This environmentally friendly, all-rounder solution adds an extra layer of virgin material on the inside of the bottle, allowing recycled/reused materials without being in contact with the content filled into the container. This allows the same benefits in sustainability and recycling as DeCo, with the ability to be used for food packaging.

Plastics of the same family do not need adhesives, which is an additional cost saving.

CoEx

Our CoEx technology turns every possibility into an application. Numerous virgin plastics, barriers, adhesives, and recycled materials come together to create fully customizable containers in up to 7 layers.

View stripes can also be added to display container contents without affecting barrier coverage.

Our product portfolio offers numerous head sizes with parison diameters from 25 mm to 650 mm as well as multiple extrusion heads with up to 24 parisons for multi cavity blow molding machines.

Please ask us about your individual material and layer option requirements. Our laboratory has all of the necessary experience and technology to bring your product idea to market.

Mono-Layer

1. Virgin & Color

DeCo

1. Outer Layer - Virgin & Color
2. Inner Layer - Virgin & Re grind

CoEx 3

1. Outer Layer - Barrier (EVOH / Nylon)
2. Tie Layer - Adhesive
3. Inner Layer - Virgin & Color

CoEx 5

1. Outer Layer - Virgin
2. Tie Layer - Adhesive
3. Barrier Layer (EVOH)
4. Tie Layer - Adhesive
5. Inner Layer - Virgin

CoEx 7

1. Outer Layer - Virgin & Color
2. Virgin & Re grind
3. UV Barrier - Virgin & Black Color
4. Tie Layer - Adhesive
5. Barrier Layer (EVOH)
6. Tie Layer - Adhesive
7. Inner Layer - Virgin

ReCo

1. Outer Layer - Virgin & Color
2. Middle Layer - e.g. PCR & Re grind
3. Inner Layer - Virgin

CoEx 4

1. Outer Layer - Virgin
2. Virgin & Re grind
3. Tie Layer - Adhesive
4. Inner Layer - Barrier

CoEx 6

1. Outer Layer - Virgin & Color
2. Re grind Layer - Virgin & Re grind
3. Tie Layer - Adhesive
4. Barrier Layer (EVOH)
5. Tie Layer - Adhesive
6. Inner Layer - Virgin

CoEx6 with viewstripe

A viewstripe is available from monolayer to CoEx7 without affecting barrier layer coverage.



Extruders

Co-Extrusion demands the use of high-quality extruders, in particular to plasticize functional layers that consist of special raw materials.

The key requirements placed on these extruders are:

- High melt quality for the production of extremely thin layers
- Constant and consistent output for uniform plastification
- Gentle processing of sensitive raw materials
- Low wear and maintenance operation

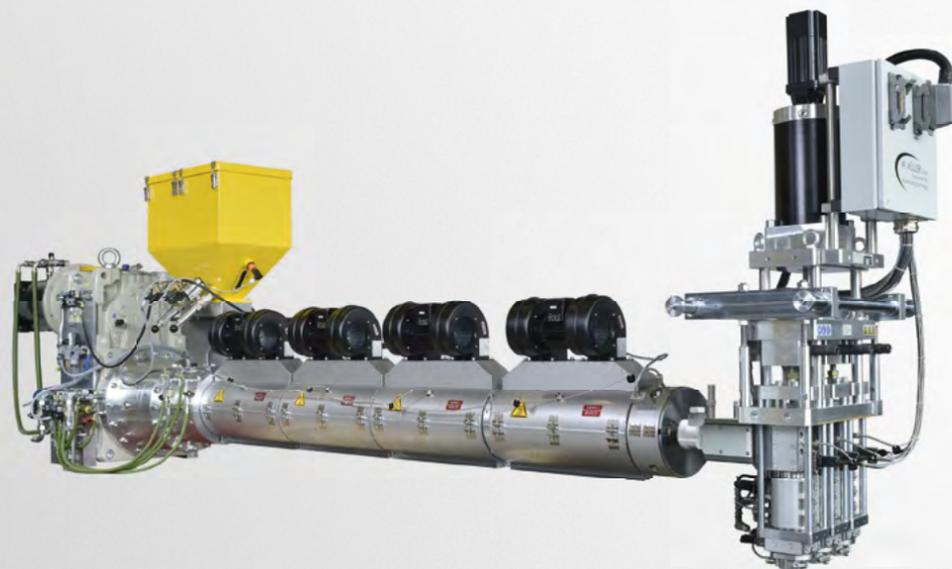
In order to meet these demands, we offer in-house developed extruders for horizontal and vertical installation.

The following sizes are available:

Extruder	Position
18/25D	Vertical
25/25D	Vertical/Horizontal
30/25D	Vertical/Horizontal
30/28D HD	Vertical
35/25D	Vertical/Horizontal
40/25D	Vertical/Horizontal
40/28D HD	Vertical
50/25D	Horizontal
50/25D WT	Horizontal
60/25D	Horizontal
60/25D WT	Horizontal
75/25D WT	Horizontal
90/25D WT	Horizontal
100/25D WT	Horizontal
120/25D WT	Horizontal
100/25D PVC	Horizontal

*HD – High Output, *WT – Heat Separated Barrel

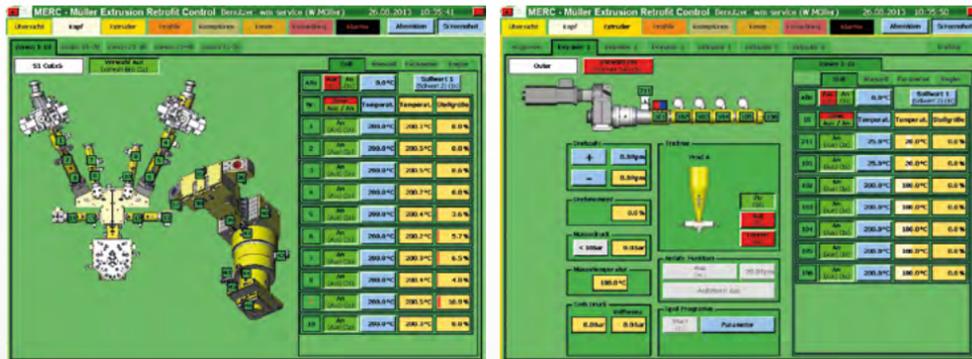
As with our extrusion heads, we also provide customized extruders.



VERTICAL &
HORIZONTAL
CONSISTENCY
HOMOGENEOUS
MELT
LOW
MAINTENANCE



MERC: Müller Extrusion Retrofit Control



To provide complete control of blow molding processes, we offer several control concepts customized for our extruders and extrusion head systems.

We deliver fully equipped electrical cabinets, including control panels adding to the functions of an existing machine control system. Our MERC (Müller Extrusion Retrofit Control) is available for new blow molding machines and as retrofit of existing equipment. The MERC provides easy-to-use, self-explanatory operator guidance and assures complete control at all times.

The **MERC** was designed especially for multilayer retrofits and provides control of all key extrusion functions. Thanks to the 15 - 21" TFT screen, it is possible to view all required process data simultaneously. A highlight

of the MERC system is its ability to display 3D graphics of the extrusion head and the extruders simplifying the operation even of complex retrofit solutions considerably.

As the name suggests, the **mini-MERC** is a MERC system with fewer features for simpler retrofits. The mini-MERC system consists of a 7" touch screen PC in a mobile enclosure still providing all basic functions required for the extrusion.

With its wall thickness Control (WTC) feature, the mini-MERC can also be used as a compact and cost-effective WTC retrofit replacing any outdated rack-style parison programmer.

You just need the WTC function? Our 19" **mini-WTC** is the perfect, fit into the spot, solution.



Equipment	miniWTC 19"	miniMERC v2.0	MERC v2.0
General			
Display size	5,7"	7"	15 - 21"
Touch operation	•	•	•
2D/3D graphic displays	-	•	•
Trend curves	-	-	•
Recipe management	•	•	•
User control	•	•	•
Extended user control	-	-	•
Online help	-	-	•
Language options	•	•	•
Remote maintenance	-	Optional	•
Heating			
Maximum No. of heating zones	-	40	220
> Head zones	-	20	60
> Extruder zones	-	10	20
Energy-saving heating ramps	-	•	•
Set-point switchover	-	•	•
Heating current monitoring	-	•	•
Heating circuit monitoring	-	•	•
Timer	-	•	•
Extruder control			
Maximum No. of extruders	-	2	8
Start-up programs	-	-	•
Rinse programs	-	-	•
Speed monitoring	-	•	•
Melt pressure monitoring	-	•	•
Screen changer control	-	•	•
Hopper slide control	-	•	•
Hopper monitoring	-	•	•
Screw tip cooling	-	-	•
Synchronous adjustment	-	-	•
Process overview	-	-	•
Parison manipulation			
Maximum No. of channels	2	3	18
WTC	•	•	•
PWTC	-	•	•
RWTC	-	-	•
ACCU	-	•	•
Support air	•	•	•
Profile points per channel	100	100	100
Marker points per channel	100	100	100
Interpolated points per channel	400	400	400
Parison length control	•	•	•

• standard - not available



EWTC: Electrical Wall Thickness Control

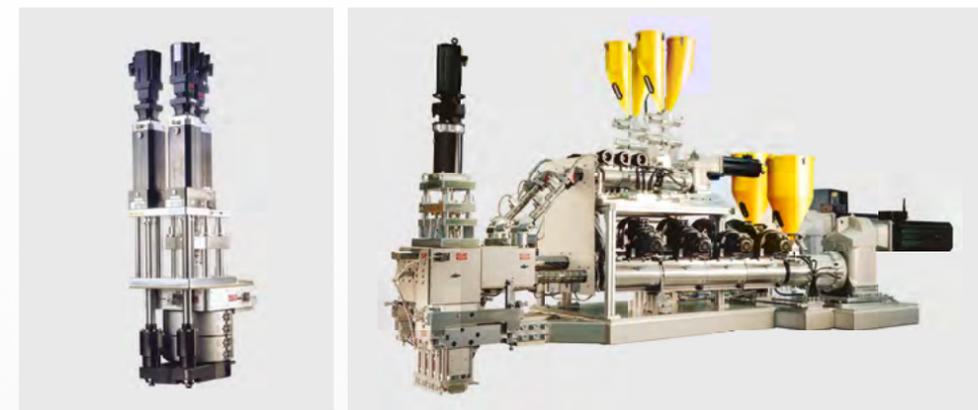
We offer you the perfect solutions for your all-electric machine and for production under clean-room conditions.

All our extrusion heads can be equipped with an electrically-driven, low maintenance WTC instead of a hydraulically-driven one.

These all-electric WTCs are provided with a force of up to 100 t!

The following installation sizes are available:

0,6 t	30,0 t
2,8 t	40,0 t
5,0 t	75,0 t
10,0 t	100,0 t
15,0 t	



FROM .6T TO 100T
CONSTANT CLAMPING
FORCE
LONG LIFETIME
LOW MAINTENANCE
FAST ACTUATION
SUITABLE FOR
USAGE IN
CLEAN-ROOM
ENVIRONMENTS



Accumulator-Heads

Accumulator supported heads enable a discontinuous production process and are usually used for:

- Technical components (e.g. car ventilation systems, air ducts)
- Large containers (e.g. barrels, IBCs, storage tanks)
- Containers with high parison weights
- Sequential Co-Extrusion products (SeCo = the extrusion of different materials one after the other)
- Processing of technical plastics
- Bottles with color gradation effect

Furthermore, an extrusion head equipped with an upstream accumulator is also suitable for continuous extrusion due to an integrated bypass system, thus ensuring a variety of application options. Electric cylinder actuation is also available.



Accumulator sizes

400 ml
600 ml
900 ml
1.200 ml
1.800 ml
2.500 ml
3.000 ml
4.000 ml
5.000 ml
7.500 ml
15.000 ml

Accumulator sizes

SK1/120/1,25 dm ³
SK1/120/1,8 dm ³
SK1/160/2,5 dm ³
SK1/200/4,0 dm ³
SK1/220/4,3 dm ³
SK1/300/6,5 dm ³
SK1/300/10 dm ³
SK2/160-320/2,5 dm ³



HIGH CONTAINER
VOLUME & WEIGHT
DIVERSE
APPLICATIONS
MULTIPLE SIZES



LOW MELT
VISCOSITY
MATERIALS
HIGH COMPLEXITY
CONTAINER
DESIGNS



Solutions for Technical Parts

Our technologies are applied far beyond their widespread use in traditional packaging. Our blow molding solutions are ideal for all high-quality containers, and have been found in automotive and appliance applications for many years.

Typical applications include:

- Tanks and filler pipes for fuels, fluids, and oils
- Bellows
- Air distribution systems
- Turbocharger intakes
- Electronic and machine housings

New concepts in mobility will be certain to rely more on the solutions provided by our blow molding technologies. Consumers and manufacturers both will be looking for components that maximize safety and thermal resilience, while minimizing weight, noise, material usage, and environmental impact.

These new demands will require a level of complexity and quality assurance that can only be achieved with our specially designed machinery and decades of technical expertise and experience.

Our solutions have also been continually proven and adopted in other wide-ranging applications.

Examples of such technical applications include:

- **Heads** up to 650 mm diameter and more for continuous and discontinuous extrusion of containers from 1 to 7 layers
- **Extruders** optimized for specific raw materials
- Patented **ring distributor system** allows for multilayer sequential or discontinuous extrusion
- **Accumulator system** allows for precise parison weight and hangtime control
- Patented **swiveling die system** (RWDS - Radial Wall Distribution System) allows for optimized wall thickness in individual areas on pipes and ducts
- Equipment to **physically foam** individual material layers

All equipment is designed and manufactured according to individual customer requirements. This guarantees the optimal performance for your application.



WEIGHT SAVINGS
NOISE REDUCTION
HIGH THERMAL STRENGTH
OPTIMIZED EXTRUDERS
RING DISTRIBUTORS
RWDS



Retrofit

Our complete systems are available both as original equipment on new machines, and as retrofits on existing blow molding machinery, with the following possibilities:

- Increase in production
- Production reliability
- Expansion of the product range
- From mono-layer to multi-layer production
- From single to multiple parison head
- Extrusion heads from mono-layer to CoEx 7-layer
- Extruders for horizontal and vertical installation
- MERC system
- Walkable extrusion platforms
- On-site installation and commissioning
- Global customer service

Benefit from our professionalism and experience!

Feel free to contact us by phone or online. We are happy to advise you on your individual needs, and visit your locations.



MODERNIZE YOUR EXISTING SYSTEMS

EXPAND YOUR PRODUCTION CAPABILITIES

ADD MULTILAYER CAPABILITIES

INCREASE CONTROL CAPABILITIES

INDIVIDUAL DESIGNING AND SUPPORT



Platforms & Quick Change Systems

For the optimal use of our multilayer technology, we offer a complete coextrusion system with several horizontal and vertical extruders, and an individually adapted 1 or 2 level platform with stairs.

To be able to produce a wide range of products on a single multilayer machine configuration, we also offer an optional Quick Change System. This system allows you to use one machine with multiple head configurations, saving time and floor space that is usually sacrificed when diversifying your product portfolio.

These short change-over times, combined with the individual nature of all of our solutions, allow you to enter new markets without unnecessary capital expenses.

We are happy to advise you individually about all of our available solutions.



One extrusion unit with *exchangeable* CoEx heads



INDIVIDUAL PLATFORMS
VERTICAL & HORIZONTAL EXTRUDERS
1-2 LEVELS



QUICK HEAD CHANGES WITHOUT MACHINE DISASSEMBLY
MINIMAL DOWNTIME



Service

From the day of your first inquiry until site acceptance for production, an experienced and dependable W. MÜLLER team will be at your side. Our service technicians are at your disposal for complex installations of multilayer retrofits, if maintenance or repair is required, or to train your employees on site.

At W. MÜLLER you are not only buying an extrusion head; in addition you will receive the service unique to your W. MÜLLER equipment throughout the entire lifespan – anywhere and anytime!

Our large parts inventory enables us to deliver a required spare part quickly and reliable. If a spare part is not immediately available out of our stock, our flexible in-house manufacturing will produce it promptly.

-  Integrated Quality Control
-  Responsiveness
-  Installation of Multilayer Extrusion Heads
-  On-site training of your personnel – on your equipment
-  Your Satisfaction 100% Guaranteed
-  Customer Service is Available Globally
-  After-Sales Service
-  Research and Development Support – Test your new ideas at W. MÜLLER
-  Retrofits and Conversions
-  Maintenance and Refurbishing

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RELIABLE
 & EXPERIENCED TEAM

FAST DELIVERIES
 & REPLACEMENTS

HIGHEST QUALITY
 STANDARDS

INSTALLATION,
 MAINTENANCE,
 & TRAINING



Laboratory

Our test laboratories in Germany and the USA allow you to test and sample product developments and new raw material combinations. You can also utilize our lab services to develop new products and processes that you are unable to realize with your own production systems.

The following equipment is available:

- W. MÜLLER single station blow molding machine with S1/60 P-PE, CoEx 6-layer extrusion head (at the test laboratory in Germany)
- W. MÜLLER double station blow molding machine (at the test laboratory in Germany) with:
 - 1x S1/60 T-PE/T-PVC
 - 1x S2/35-100 P-PE-Deco2
 - 1x Accumulator 300 ml
 - 1x S1/60 TP-PE Reco3 w/ Dynamic Mixer
 - 1x S1/35-P-PE 2x Gradation
- W. MÜLLER single station blow molding machine with S1/90 P-PE, CoEx 7-layer extrusion head (at the test laboratory in the USA)
- Single Extruder Station 90/25D
- Plastic Processing Equipment Including:
 - A dryer, nitrogen compressor for physical foaming, and shredder
- Computer-aided layer thickness analysis
- Professional documentation of the entire test procedure

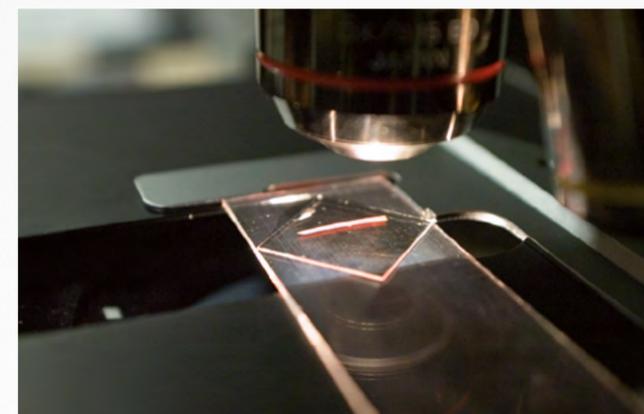
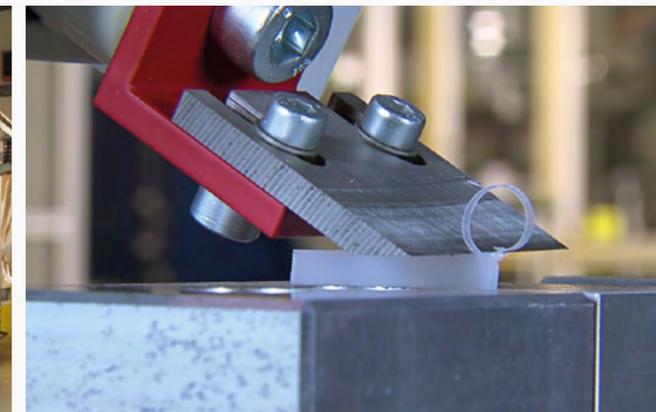
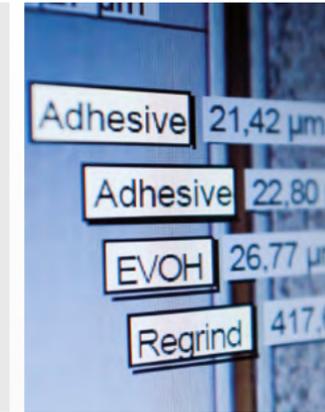


Our specifically designed extrusion head retrofit packages allow for temporary modifications of the machine equipment according to the test set-up. This means that almost any required layer configuration can be sampled and developed.

New developments require testing in a controlled, protected, and private environment, which we happily provide.



MATERIAL TESTS
NEW DEVELOPMENTS
SECURE & PRIVATE ENVIRONMENT



COMPREHENSIVE EQUIPMENT
EXPERIENCE





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