

MONOTEC

MONOFILAMENT EXTRUSION LINES

SMART ENGINEERING. SEAMLESS INTEGRATION.

CONSUMER



- Zip Fasteners
- Hook & Loop Fasteners
- 3D Printing
- Oral & Personal Care Brushes
- Paint Brushes
- Brooms & Household Brushes
- Narrow Fabrics
- Anti Bird / Insect / Mosquito Nets
- Privacy & Shading Nets
- Ropes & Cords
- Artificial Hair
- Chairs

INDUSTRIAL



- Paper Machine Clothing
- Filtration Fabrics
- Brushes – Industrial
- Automotive – Tyre Chafer, Protection Sleeves
- Spacer Fabrics
- Brushes - Road Cleaning/Surface Cleaning
- Brushes - Door/Escalators
- Sieving Fabrics
- Industrial Sewing Thread
- Screen Printing Fabric
- Ropes – Marine / Rigging / Fishing
- Fibre Reinforced Concrete
- Baling Wires

AGRICULTURAL & ANIMAL HUSBANDRY




- Greenhouse Support Lines
- Nets - Safety/Fencing
- Nets - Agriculture/Horticulture
- Grass Trimmer Lines
- Farm Fencing Wire
- Livestock Fencing Wire

SPORTS & LEISURE



- Artificial Grass
- Strings for Musical Instruments
- Tennis Racquet Strings
- Nets - Sports

AQUACULTURE



- Fishing Nets
- Fishing Lines
- Long Lines

MEDICAL & HEALTHCARE



- Surgical Sutures
- Hernia Meshes

ENGINEERED FOR EXCELLENCE



OMGM Extrusionstechnik offers a sophisticated and reliable production platform that empowers you to achieve unparalleled efficiency and performance in monofilament manufacturing by integrating cutting-edge technology, modular flexibility, and stringent quality control.



ENGINEERED FOR LONGEVITY

Durability is built into every aspect of our machinery. Crafted from special-grade steel and treated with specialized surface treatments, our extruder screws and barrels are designed to withstand prolonged use, significantly lowering long-term maintenance costs.

MAXIMIZED PRODUCTIVITY

Designed for seamless integration with downstream operations, our in-house engineered precision winders ensure smooth yarn take-up for applications such as warp beaming and weaving. This results in an uninterrupted, high-efficiency production process that maximizes throughput.

PA. PET. PBT. PEEK. PP. HDPE.+

We offer a comprehensive range of monofilament production systems designed to exceed the demands and diverse needs of modern industries. Capable of processing fine to coarse diameters and producing diverse profiles and cross-sections — our systems empower applications across various industrial and commodity sectors. Our modular design allows scaling and tailoring the production line to specific output requirements.

PA 6.12
PA 6.10
PA 66
PA 6
PA Co
PBT
PET
PP
HDPE

ON DEMAND
PPS
PEEK
PVDF



SUPERIOR FILAMENT STRENGTH

Extruder design minimizes polymer exposure to heat, drastically reducing degradation. The process ensures yarn with exceptional tenacity and durability, setting a new benchmark in filament strength.

CONSISTENCY IN EVERY FILAMENT

Our system combines a uniquely engineered centralized feed, advanced melt-spinning design, and a meticulously crafted die head to ensure uniform melt distribution. The precision die design is critical in controlling filament geometry and cross-sectional profile, resulting in perfectly consistent diameter and shape that meets the most stringent industry standards.

OPTIMIZED EFFICIENCY

Every component is meticulously engineered for peak performance. Our gear metering pumps regulate polymer flow with pinpoint accuracy, not only enhancing product quality but also extending the system's operational lifespan.

PRECISION CONTROL

High-quality monofilament requires precise temperature management. Our advanced hot-air stretching ovens, paired with heated godets, maintain uniform temperatures throughout the process. This consistency ensures minimal variation in the final filaments, delivering products with consistent performance.

SCREW DIA (MM)

30 - 120

WORKING WIDTH (MM)

350 - 1300

MAX MELT OUTPUT (KG/HR)

Up to 250

MAX MECHANICAL LINE SPEED (MPM)

Up to 200

The design/configuration of machines can be customised for specific applications/output requirements.

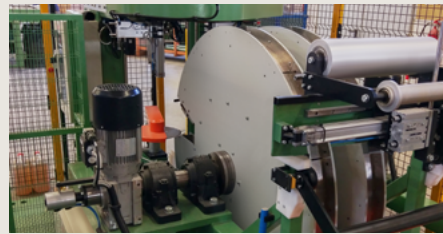
For details refer to quotation.

Specifications are subject to change without prior notice, due to continuous developments. Anything appearing in brochure is indicative and not binding.

Special versions for high temperature/corrosion resistant available.

0.08mm-6.00mm ∅

Enhancing our extrusion capabilities, we offer a comprehensive suite of advanced winding solutions for efficient monofilament take-up. Our equipment adapts seamlessly to a wide range of bobbin formats. The meticulous design ensures optimal winding speeds, smooth take-up, and consistently high-quality output for every production run.



Parallel Winders

STRAIGHT TUBES, BI CONICAL TUBES, FLANGED SPOOLS (ALL DIN, K SIZES)

The precision traverse mechanism guarantees even layering with zero overlaps or gaps, delivering consistent results across standard and special-design bobbins.

Beaming, Weaving, Knitting, Braiding and Coiling

200 – 600 mm TRAVERSE RANGE*

0.08 - 6.00 mm ∅

Cross Winders

STRAIGHT TUBES AND CORES

Electronic control ensures perfect bobbin build-up with consistent unwinding tension - ideal for high-precision applications.

Beaming, Weaving, Braiding, Coiling and Texturing

200 – 300 mm TRAVERSE RANGE*

0.15 - 0.60 mm ∅ SINGLE

Upto 5000 Den BUNDLED

Bristle/Hank Winders

HANKS AND PUCKS

Tailored for brush and broom filament production, these winders neatly bundle filaments into organised hanks, ensuring easy processing and superior quality.

Tufting, Twisting and Cabling

< 2.00 mm ∅

Beam Winders

BEAMS

Direct take up from extrusion line onto warp beams or spools, reducing handling, minimising downtime, and preserving filament integrity.

Knitting

0.5 - 3.0 mm ∅

*Other/Custom sizes on request

**Suitability of winders also depends on material of filament

PRECISION **x** PERFORMANCE

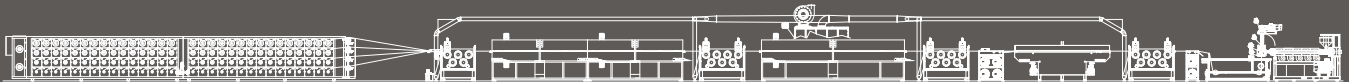
OMGM Extrusiontechnik is a strategic joint venture that brings together OMGM sas. (Italy), known for its Italian engineering excellence and decades of expertise in specialised extrusion lines for production of high-performance monofilament and strapping and Lohia Corp Limited (India) — a globally recognized leader in woven plastics machinery, with strong manufacturing capabilities and extensive international market presence.

This synergy combines European innovation with world-class manufacturing excellence, comprehensive support & service, helping customers achieve maximum productivity and return on investment.

OMGM Extrusiontechnik delivers a wide range of machinery for extrusion & winding of monofilament yarns and strapping. With a shared vision of advancing technology and enhancing customer success, we are ready to empower businesses with new benchmarks in performance, reliability, and efficiency.

OPTIONAL EQUIPMENT

- Dosing & Mixing
- Dryer & Crystalliser
- Embossing
- Spin Finish Applicator
- Inline/Offline Collection-Wrapping-Cutting for Filament Pucks
- Inline Diameter Monitoring



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