

RPM[®] Mach
Rubber Plastic Machinery

2025-2026 K-Fair Product Catalog

From Concept to Compound, We Make It Happen.



Innovation.
Precision.
Trust.

More than a manufacturer, we are a partner in progress. Our technologies empower industries worldwide, creating lasting value and inspiring confidence across continents. Every solution is certified to the highest international safety and quality standards, with compliance to **2006/42/EC**, **2014/35/EU**, and **DIN EN 1417:2015-03** ensuring operator protection, operational excellence, and enduring performance.

www.rpmmach.com

INDUSTRIES WE SERVE

Global solutions for rubber, plastics, chemicals, energy storage and advanced materials, built to the highest safety and quality standards.

CUSTOMIZED SOLUTIONS

Custom rotors, machines built to customer scale and dimensions, automation, full integration. Flexible designs, reliable performance.

CERTIFICATES

Certified by ISO 27001:2022, ISO 9001, and CE for our mixers and specialized systems, including Wet Explosives Mixing Machines, Explosive Trommel Mixers, Rubber Mixing Mills, Banbury Mixers, Kneader Mixers, and Sigma Mixers, ensuring safety and compliance.



Rubber Banbury Mixers

RPM-KBM03-S Series



The RPMMach Rubber Banbury Mixer features a heavy-duty, robust structure designed for continuous use. Its advanced mixing technology ensures homogeneous blending with minimal dead zones, while customizable rotors offer both tangential and intermesh configurations. Intelligent control systems provide an easy-to-use interface with inverter control, and high throughput capacity reduces cycle times to 10–12 batches per hour.

Safety is prioritized with emergency stops, interlocks, and protective guards. Energy-efficient systems support sustainable, eco-friendly operation, ensuring both operator safety and environmental responsibility.

The pinnacle of innovation in rubber processing, engineered for unmatched performance, flexibility, and efficiency.

Model	RPM-KBM03-35S	RPM-KBM03-55S	RPM-KBM03-75S	RPM-KBM03-90S	RPM-KBM03-110S	RPM-KBM03-140S	RPM-KBM03-200S
Mixing Capacity (fill factor : 0,75)	35 L	55 L	75 L	90 L	110 L	140 L	200 L
Main Motor Power	110 kW	132 kW	160 kW	220 kW	315 kW	450 kW	500 kW
Machine weight (approximate)	10000 kg	12500 kg	17000 kg	20000 kg	26000 kg	30000 kg	35000 kg
Overall Sizes (mm)	4500x2500x2900	4500x2500x2900	4800x2500x4900	4900x2600x4950	5500x2700x5400	5700x2750x5500	5800x2800x5980
Mixing Time (approximate)	10-12 batch/h						
Rotor Type	Tangential & Intermesh (Motor powers increase for intermesh option)						
Rotor Speed	5-44rpm by inverter speed control, rate: 1: 1,15						

Lab Type Banbury Mixers

RPM-KBM03-S Series

Safety First is ensured with emergency stops, automatic interlocks, integrated sensors, and hydraulic operation. The user-centric design offers easy controls, an ergonomic build, and minimizes user error. Robust performance is delivered through durable components, providing reliable results for a variety of rubber formulations. Advanced temperature control allows precise regulation of mixing temperatures, while effortless batch mixing ensures quick transitions between batches with a capacity of 10–12 batches per hour.

Data logging and remote monitoring features enable full electronic recording of the mixing process along with PLC-based remote access. Comprehensive support includes operator training and after-sales service, ensuring efficiency, safety, and reliability throughout the machine's lifecycle.



Specially engineered for laboratory use, this Banbury Mixer combines precision, safety, and innovation, making it an essential tool for research and small-scale rubber processing.

Model	RPM-KBM03-0.5S	RPM-KBM03-1.5S	RPM-KBM03-3S	RPM-KBM03-5S	RPM-KBM03-10S
Mixing Capacity (fill factor : 0,75)	0,5 L	1,5 L	3 L	5 L	10 L
Main Motor Power	7,5 kW	11 kW	22 kW	37 kW	45 kW
Machine weight (approximate)	1900 kg	1500 kg	3500 kg	10000 kg	12500 kg
Overall Sizes (mm)	1600x920x1900	1700x920x1900	1800x920x1900	4500x2500x2900	4500x2500x2900
Mixing Time (approximate)	10-12 batch/h (Fill factor : 0,75)				
Rotor Type	Tangential & Intermesh (Motor powers increase for intermesh option)				
Rotor Speed	5-44rpm by inverter speed control, rate: 1: 1,15 (variable independed speed Rotors Optional)				

Lab Type Mixing Mill with Cross-Blender

RPM-KHM01-S Series



Our patented laboratory-type rubber mixing mill delivers unmatched safety and precision in research and development environments. Rolls are manufactured from hardened casting iron (DIN 42CrMoS4 / AISI 4140) with a minimum surface hardness of 60 HRC and Ra 0.3 surface roughness. Each roll is hard-chrome coated with at least 50 microns, ensuring long-lasting durability.

The system operates with a double motor and double inverter, offering variable friction rates based on processing requirements. Roll speeds can be adjusted between 1 and 20 rpm. A drilled-type peripheral cooling circulation keeps roll temperatures stable, while heavy-duty spherical bearings and double Cardan shaft connections guarantee reliable performance in continuous use.

Operator safety is protected by advanced systems that exceed DIN EN 1417:2013 standards. An ergonomic touchscreen, integrated digital manuals, and optional remote connectivity provide an efficient and modern user experience for laboratory-scale rubber mixing.

Capacity	Model	Roll Size (mm)	Motor Power	Size in Inches	Weight	Overall Sizes (mm)
6 L	RPM-KHM01-8S	200 x 450	4x2=8 kW	8" x 18"	2300 kg	2000×1000×1400

The mill features hardened rolls with 60 HRC surface hardness, Ra 0.3 finish and a minimum 50 µm hard-chrome coating. Variable friction rates are achieved through a double motor and double inverter system, with roll speeds adjustable from 1 to 20 rpm. Peripheral drilled-type circulation ensures efficient cooling, while heavy-duty spherical bearings and double Cardan shaft reducer connections provide maximum reliability under continuous operation.

Rubber Two Roll Mixing Mills with Cross- Blender

RPM-KHM01-S Series

We bring laboratory-grade safety and precision to large-scale rubber production through the innovation of our patented cross-blender design. Engineered for high-volume operations, the fully automated system delivers unmatched compound homogeneity while protecting operators with advanced safety features that meet and exceed DIN EN 1417:2013 standards.

Operator experience and efficiency are enhanced with an ergonomic touchscreen interface, integrated digital manuals, work area illumination, and optional remote connectivity for monitoring and optimization. This ensures safe, reliable, and consistent production at every batch



Model	RPM-KHM01-10S	RPM-KHM01-14S	RPM-KHM01-16S	RPM-KHM01-18S	RPM-KHM01-22S	RPM-KHM01-24S	RPM-KHM01-26S	RPM-KHM01-28S	RPM-KHM01-30S
Mixing Capacity (Max.)	10 L	18 L	28 L	44 L	58 L	104 L	136 L	162 L	195 L
Size in Inches	10" x 20"	14" x 35"	16" x 39"	18" x 47"	22" x 59"	24" x 71"	26" x 84"	28" x 90"	30" x 98"
Main Motor Power (Double Motors)	11x2 = 22 kW	22x2 = 44 kW	45x2 = 90 kW	55x2 = 110 kW	90x2 = 180 kW	110x2 = 220 kW	160x2 = 320 kW	185x2 = 370 kW	200x2=400 kW
Roll Size	250x500 mm	360mmx900 mm	400x1000 mm	450x1200 mm	550x1500 mm	610x1800 mm	660x2100 mm	700x2300 mm	750x2500 mm
Machine weight (approximate)	3500 kg	11280 kg	15000 kg	20000 kg	25000 kg	35000 kg	63000 kg	66000 kg	41600 kg
Overall Sizes (mm)	2500x1300x1580	3050x1400x1770	4000x1500x2000	4800x2000x2050	5600x2050x2100	6000x2350x2150	7200x2950x2300	7500x3000x2450	7800x3000x2580
Mixing Time (approx.)	6-10 Batches/h (depends on formulations)								
Rolls Material	Hardened Casting Iron & 1.7227, DIN 42CrMoS4, AISI 4140, min.60HRC surface hardnes, Ra 0,3 Surface Roughness , min.50 microns Hard chrom Coated								
Rolls Ratio (friction rate)	Variable friction rate depends on processing with DOUBLE MOTOR, Double inverter system								
Rolls Speed (Max.)	1-20rpm variable speed								
Rolls Cooling System	Peripherical Surface cooling circulation-Drilled type								
Rolls Bearing	Heavy duty Spherical Bearing type								
Rolls-Reducer Connection	By double Cardan shafts heavy duty type								

Rubber Mixing Mills with Stock Blender

RPM-KHM01-S Series

The Classic Stock Blender – Proven Performance, Still a Trusted Choice.

Our traditional Stock Blender Mixing Mill remains a trusted choice for many industries, combining decades of proven engineering with robust performance. Designed for consistent and repeatable mixing, it delivers excellent compound quality while keeping operation simple and cost-effective.

Equipped with a reliable stock blender system, this machine ensures uniform blending and improved cooling efficiency across the rolls. Its heavy-duty construction, precision-machined rolls, and durable drive components provide long service life with minimal maintenance.



Mixing Time ranges from 6–10 batches per hour, depending on the formulations. The rolls are supported by heavy-duty spherical bearings with a variable friction ratio, powered by a double motor and double inverter system. Maximum roll speed is 1–20 rpm, connected via double Cardan shafts for smooth and reliable operation.

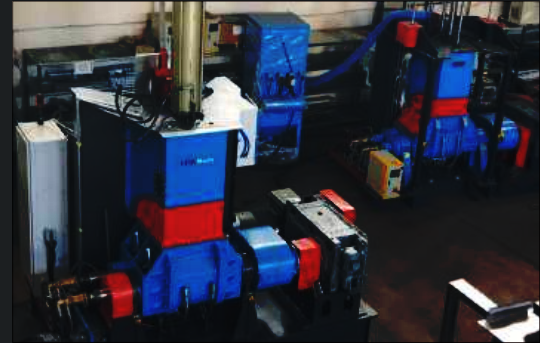
Rolls are cooled using a peripheral drilled circulation system, and made from hardened casting iron (DIN 42CrMoS4 / AISI 4140) with a minimum 60 HRC hardness, Ra 0.3 surface finish, and 50 µm chrome coating, ensuring durability and long service life.

Rubber Kneader Mixers

RPM-KKM02-S Series

Heavy-Duty Construction with a durable frame ensures long-lasting performance under harsh conditions. High motor power and a robust gearbox provide smooth operation, while the high-performance gear system maximizes efficiency. Advanced rotor and barrel materials offer superior hardness and abrasion resistance, extending lifespan 4–5 times.

Efficient pressurized water cooling keeps the chamber, rotors, and RAM at optimal temperatures, and the quiet motor–reducer drive ensures low-noise operation. Ergonomic, user-friendly controls simplify process management, boosting productivity and operator comfort.



Model	RPM-KKM02-3S	RPM-KKM02-10S	RPM-KKM02-35S	RPM-KKM02-55S	RPM-KKM02-75S	RPM-KKM02-110S	RPM-KKM02-125S	RPM-KKM02-150S	RPM-KKM02-250S
Mixing Capacity (net)	3 L	10 L	35 L	55 L	75 L	110 L	125 L	150 L	250 L
Main Motor Power (Pneumatic/Hydraulic RAM)	7,5 KW / 15 kW	15KW / 30 kW	55KW /110 kW	75KW /160 kW	110KW / 220 kW	160KW / 315KW	185KW /355 kW	220KW /400 kW	250KW /450 kW
Machine weight (approximate)	1500 kg	2900 kg	7300 kg	11000 kg	15000 kg	20000 kg	25000 kg	30000kg	50000kg
Overall Sizes (mm)	2100x1000x2100	2200x1350x2250	3000x1920x2840	3250x2300x3450	5500x2700x5400	4150x2950x3900	4200x2950x4000	4300x3300x4700	4950x3700x5000
Mixing Time (approximate)	6-10 Batches/h								
Rotor Type	Tangential & Intermesh								
Rotor Speed	5-40rpm by inverter speed control, rate: 1: 1,25								

Sigma & Z Blade Closed Mixers

RPM-SM05-S Series



We design and manufacture both standard and fully custom-engineered Sigma and Z-blade mixers, tailored to the unique requirements of polymer and rubber compounding. Available with tilting or screw discharge systems, screw discharge models allow the screw to extend fully outside the mixing chamber for effortless cleaning and maintenance.

Optimized for silicone rubber, TPE, and specialty polymers, these mixers deliver intensive mixing and precise homogenization. For defense and sensitive applications, ATEX-certified, explosion-proof configurations are available to ensure safe handling of energetic and hazardous materials.

Capacity ranges from compact 2-liter laboratory units to heavy-duty 3000-liter production-scale mixers, accommodating a wide variety of production needs. With robust construction, advanced customization, and precise engineering, RPM Sigma and Z-blade mixers guarantee efficiency, consistency, and uncompromising safety in demanding industrial environments.

Model	RPM-SM05-50S	RPM-SM05-110S	RPM-SM05-220S	RPM-SM05-300S	RPM-SM05-500S	RPM-SM05-1000S	RPM-SM05-2000S	RPM-SM05-2500S
Total Capacity	50 L	110 L	220 L	300 L	500 L	1000 L	2000 L	2500 L
Net Mixing Capacity	25 L	55 L	110 L	150 L	250 L	500 L	1000 L	1200 L
Main Motor Power	18,5 kW	22 kW	45 kW	90 kW	110 kW	132 kW	185 kW	200 kW
Machine weight (approximate)	1200 kg	2550 kg	2780 kg	3390 kg	6800 kg	12300 kg	18550 kg	22450 kg
Overall Sizes (mm)	1100x1000x1400	1700x1050x1680	2700x1120x1870	3000x1300x1900	3500x1450x2100	4300x1550x2300	5100x1650x2500	5250x2100x2670
Mixing Time (approximate)	3-6 Batches/h (depends on formulations)							
Rotor Material	SIGMA BLADE & Z BLADE-1.7227, DIN 42CrMoS4, AISI 4140, min.64HRC surface hardnes, min.15mm SUS304 coating, Ra 0,3 Surface Roughness , min.50 microns Hard chrom Coated							
Rotor Ratio (friction rate)	1:1,3 (depends on requirements)							
Rotor max. Speed	1-36rpm adjustable							
Cooling System	circulation : inside of rotors fully crclulation, inside of chamber jacket							
Bearing	Heavy duty Spherical Bearing type + Conical Bearing supported							
Reducer Connection	Motor to Reducer; Pulley W belts, Reducer to Rotors ; direct coupling by ratio gear box							

Rubber Extruders

RPM-KE06-S Series

RPMach Rubber Extruders combine advanced engineering with high-performance capabilities for both product development and large-scale manufacturing. Optimized screw designs and powerful drive systems ensure consistent throughput while minimizing energy consumption.

Single or twin-screw configurations can be customized for different rubber formulations and capacities. Precise heating and cooling maintain material consistency, and intuitive control panels with integrated safety features protect operators and equipment.

Capable of processing silicone, TPE, and specialty compounds, the extruders deliver reliable performance and durability. Data logging allows real-time monitoring and process optimization, while energy-efficient design supports sustainable operation. Compact in footprint and supported by operator training and technical assistance, RPMach extruders bring laboratory-grade precision and innovation to production environments. They set new standards in safety, efficiency, and reliability across all rubber processing applications.



Model	RPM-KE06-75S	RPM-KE06-90S	RPM-KE06-120S	RPM-KE06-150S	RPM-KE06-200S	RPM-KE06-250S
Screw& Barrel Diameter	Ø75 mm	Ø90 mm	Ø120 mm	Ø150 mm	Ø200 mm	Ø250 mm
Main Motor Power (Pneumatic/Hydraulic RAM)	55 kW	90 kW	160 kW	200 kW	200 kW	250 kW
Screw Speed (max)	40 rpm	40 rpm	40 rpm	40 rpm	35 rpm	35 rpm
Mixing Time (approximate)	150 kg/h	300 kg/h	650 kg/h	850 kg/h	1100 kg/h	1750 kg/h
Machine Weight (approximate)	900 kg	2100 kg	5200 kg	7100 kg	9800 kg	11700 kg
Overall Sizes (mm)	2500x700x1650	2800x800x1680	3500x980x1800	4300x1000x1900	4550x1100x2100	5000x1200x2100
TCU Temp.Cont. Quantity	4 Pcs	5 Pcs	6 Pcs	7 Pcs	7 Pcs	8Pcs
Extruding Pressure (max)	Max.40 MPa	Max.40 MPa	Max.40 MPa	Max.40 MPa	Max.40 MPa	Max.40 MPa

Rotary Vacuum Forming Machine

Specialized Solutions

High-Speed Precision for Automotive Floor Mat Production



The RPM Patented 12-Station Rotary Vacuum Forming Machine for TPE 3D Car Mats delivers high-efficiency, precision production with full automation and flexibility. Its continuous rotary cycle with 12 forming stations allows simultaneous preparation, forming, cooling, and unloading, producing mats in as little as 7 seconds per piece. Each station features independently adjustable vacuum pressure and programmable timing for consistent quality.

Advanced automation includes robotic sheet loading and edge trimming, reducing manual labor and cycle time. Energy-efficient heating panels ensure uniform sheet softening, while integrated cooling and optimized demolding maintain geometry and detail. A touchscreen PLC interface provides intuitive control, monitoring, and adjustments, while heavy-duty construction meets CE standards for durability and safety.

Custom configurations accommodate different mat sizes, shapes, and production capacities. RPM's rotary vacuum forming technology combines speed, precision, and automation to provide a turnkey solution for mass production of premium-quality TPE 3D automotive floor mats.



Custom Made Machines

Specialized Solutions

We provide full customization according to your production requirements, ensuring all machines are engineered for efficiency, safety, and durability, and supporting specialized and patented processes across laboratory, pilot, and industrial scales.

Custom-Made Solutions for Your Production

Silicone Extruders and Vulcanizing Lines,

Conical Screw Force Feeders and Pre-Shapers,

EVA/EPDM Splitter Machines,

Batch-Off Cooling Units,

Rubber Calenders,

MW Vulcanizing Ovens,

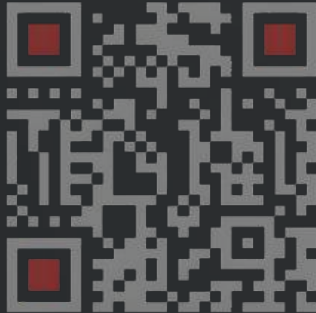
Hot Air Vulcanizing Ovens,

TPE 3D Car Mat Rotational Vacuum Forming and Production Line
(Patented Design: PCT/TR2021/050246, B60N3/04, B29C51/00),

Rubber Preformers (Barwells),

Rubber and Silicone Strainers with complete packing line.

From Concept to Compound, *We Make It Happen.*



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