

MARKET LEADERS IN
**ENGINEERING
PLASTIC
SOLUTIONS**

DOTMAR

SINCE 1967



DELIVERING RESULTS THROUGH

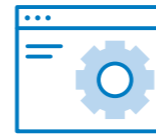
ENGINEERING PLASTIC OUTCOMES

With a legacy spanning over 50 years in the plastics industry, Dotmar stands as the largest distributor of semi-finished engineering thermoplastics and conveyor components across Australia and New Zealand.

Our unparalleled expertise coupled with our comprehensive range of products and services make us the ideal partner for companies seeking optimal plastics solution.

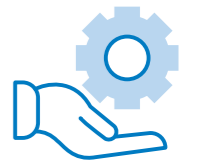


OUR CAPABILITIES



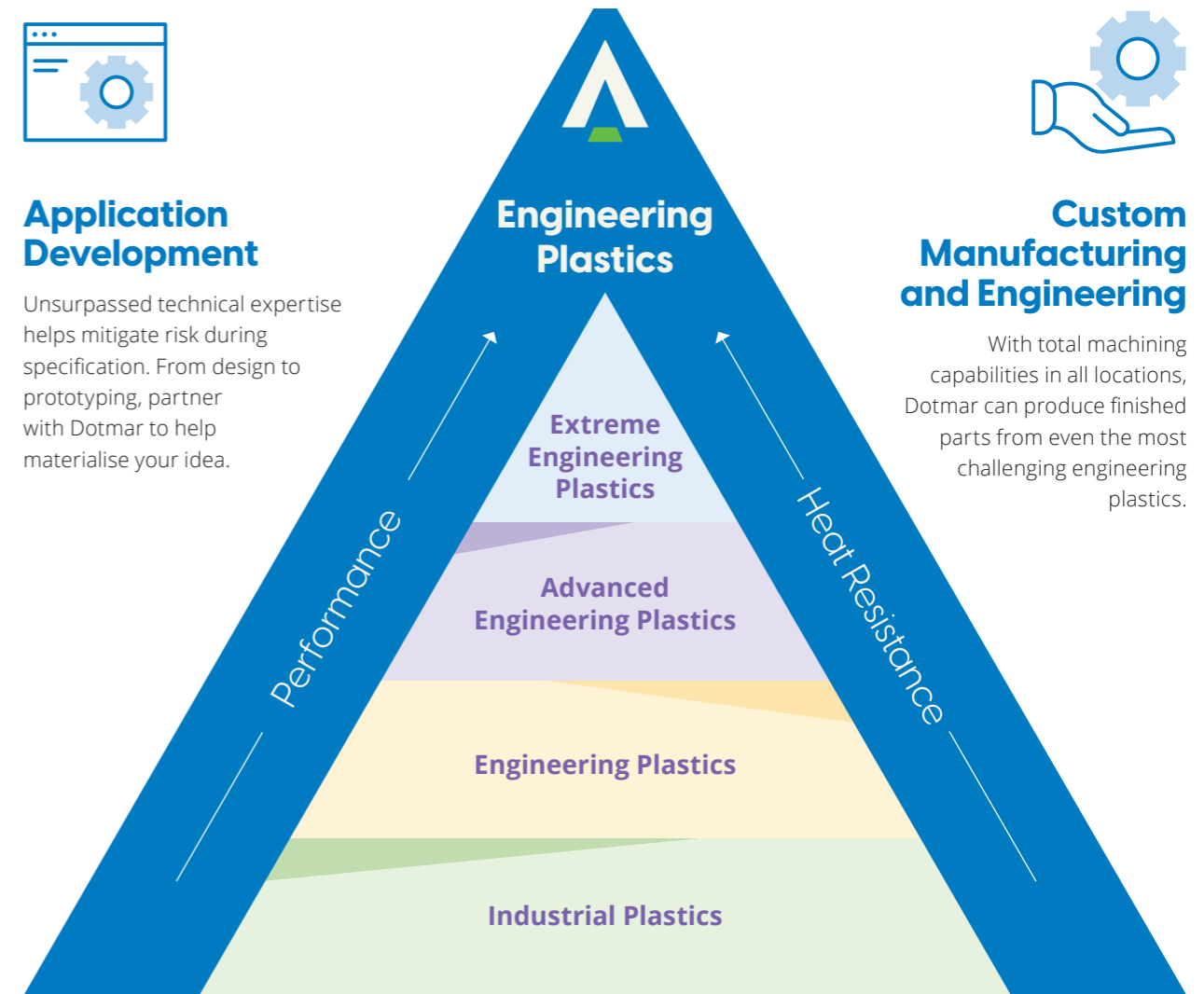
Application Development

Unsurpassed technical expertise helps mitigate risk during specification. From design to prototyping, partner with Dotmar to help materialise your idea.



Custom Manufacturing and Engineering


















With total machining capabilities in all locations, Dotmar can produce finished parts from even the most challenging engineering plastics.

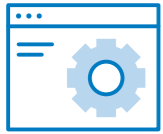


Largest Selection of Engineering Plastics

Representing the most reputable, semi-finished thermoplastic and conveyor part manufacturers, Dotmar stocks an unparalleled range of materials across Australia and New Zealand.

Industry Segments Serviced

- | | | | | | | | | |
|---|---|--|---|--|---|--|--|--|
| 
Aeronautical | 
Agricultural | 
Architectural | 
Beverage | 
Chemical Processing | 
Construction | 
Defence | 
Engineering | |
| 
Fabricator | 
Food | 
Forestry | 
Medical & Research | 
Mining | 
Packaging | 
Paper | 
Transport | 
Water Treatment |



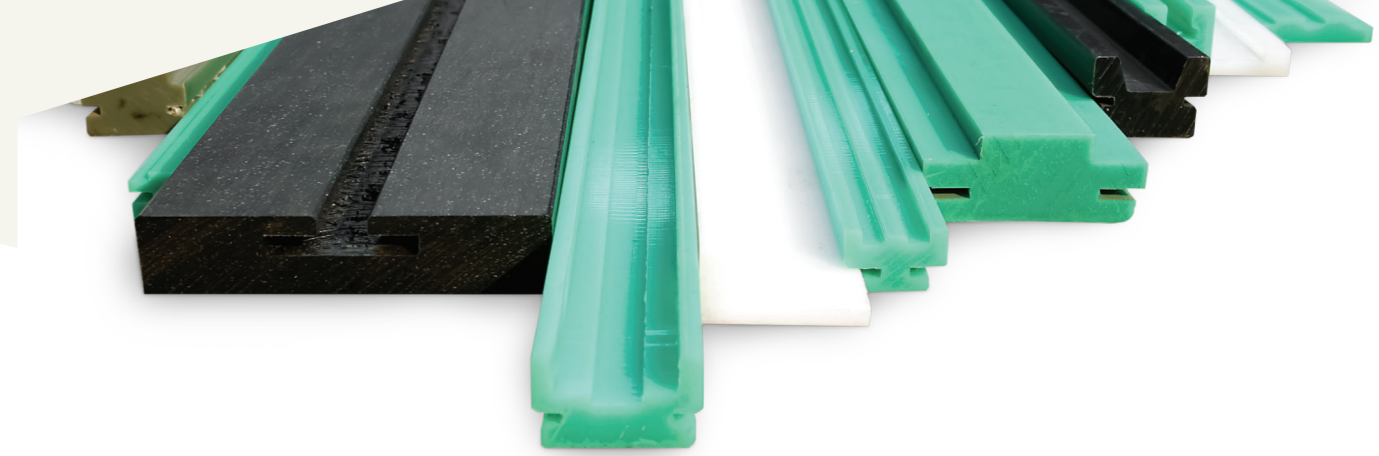
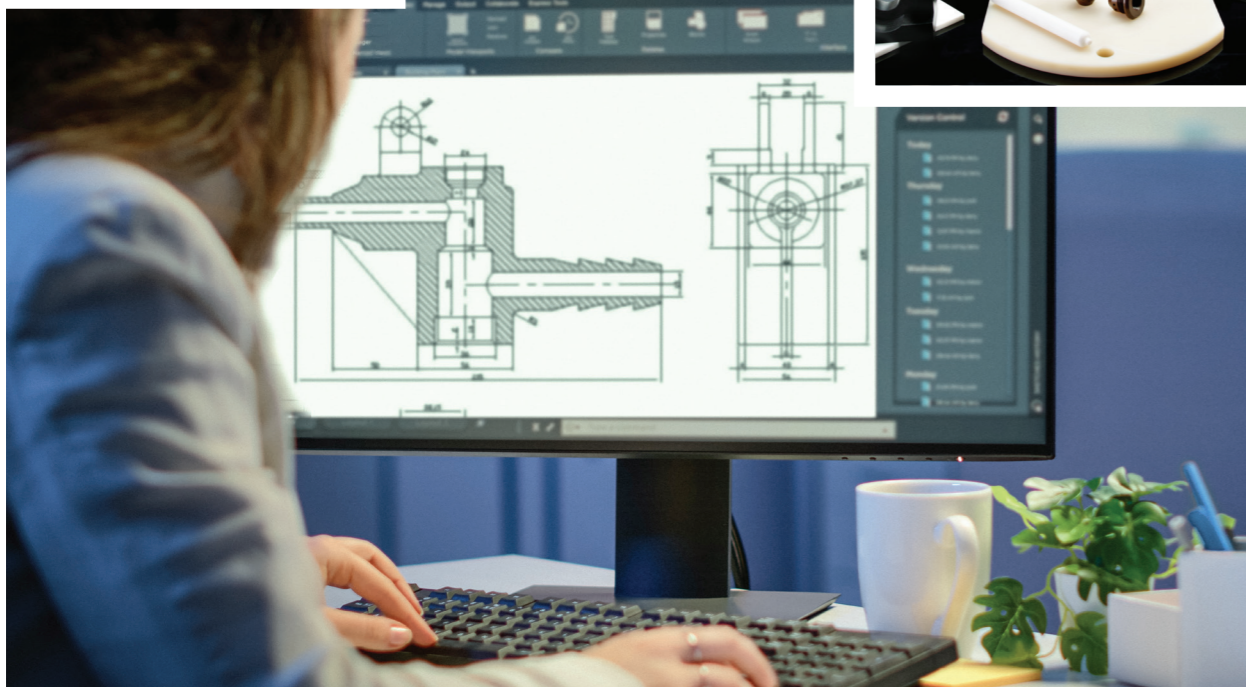
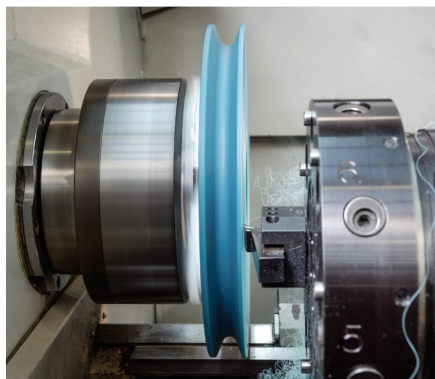
APPLICATION DEVELOPMENT

Partner with Dotmar's team of engineers and experienced industry experts across the entirety of the specification journey.

From the initial conceptualisation phase to design, through to development of prototypes for evaluation and testing, Dotmar can help your team mitigate potential risks.

Supplemented by sound engineering calculations and sophisticated tool RITA (Rochling Integrated Tank Building Assistant), you can be assured that the advice you receive is substantiated and vetted by technically trained, thermoplastics specialists.

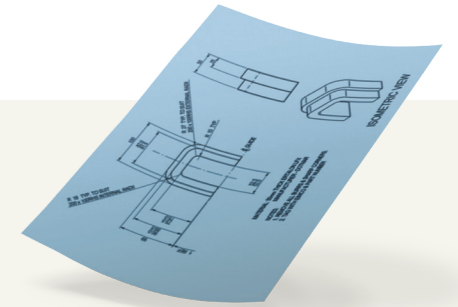
Backed by our exceptional service and technical expertise, Dotmar can be trusted with the most critical projects across a multitude of market segments.



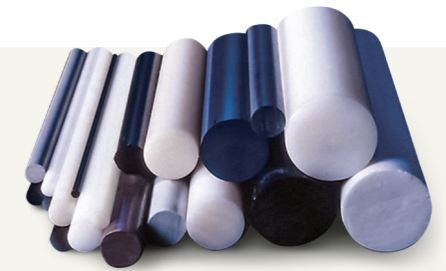
Application Development Workflow



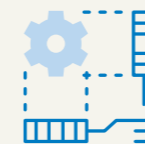
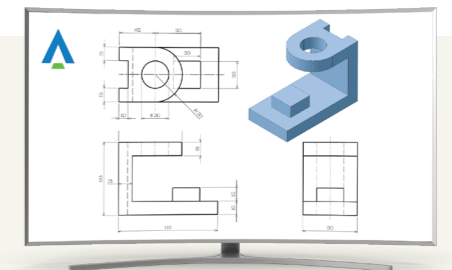
Comprehensive needs analysis of application



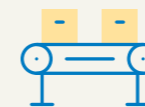
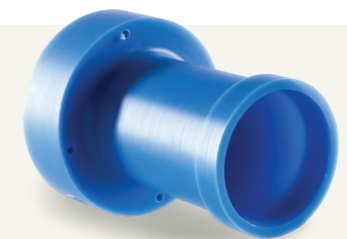
Material selection and specification



Engineering drawings/reverse engineering of existing parts

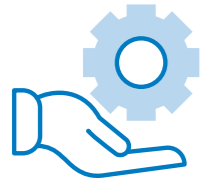


Prototype creation for client evaluation



Full scale production





TOTAL MACHINING SOLUTIONS

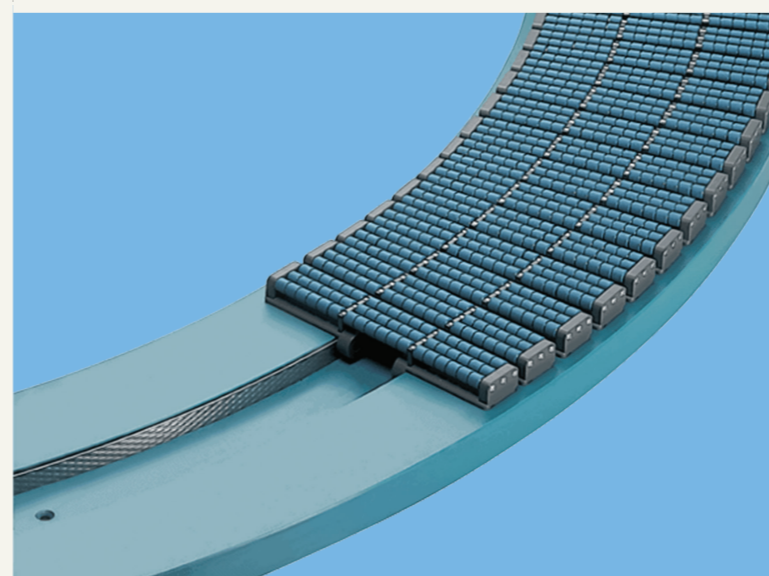
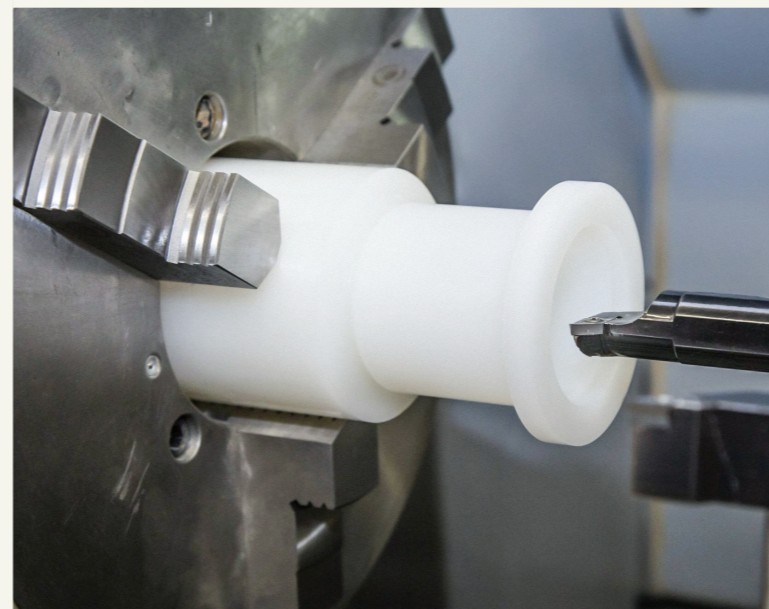
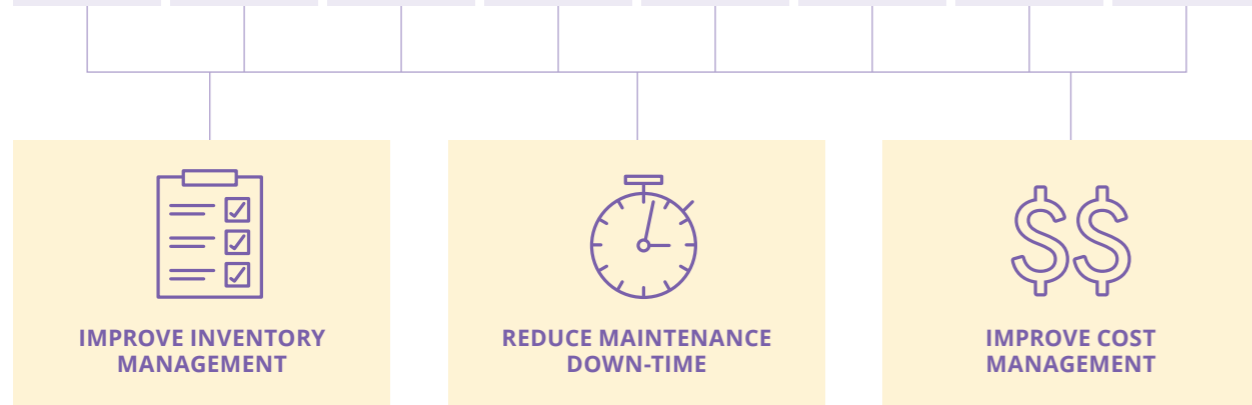
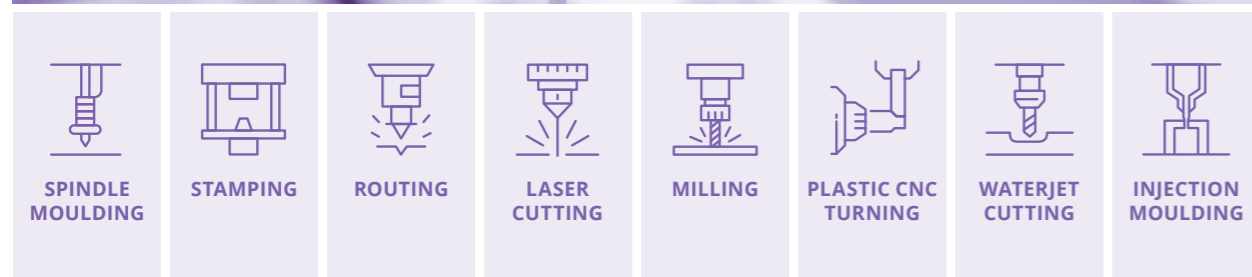
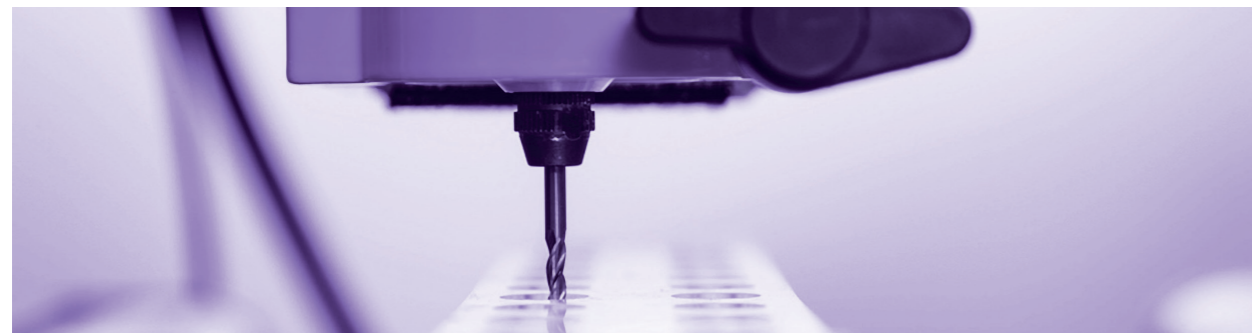
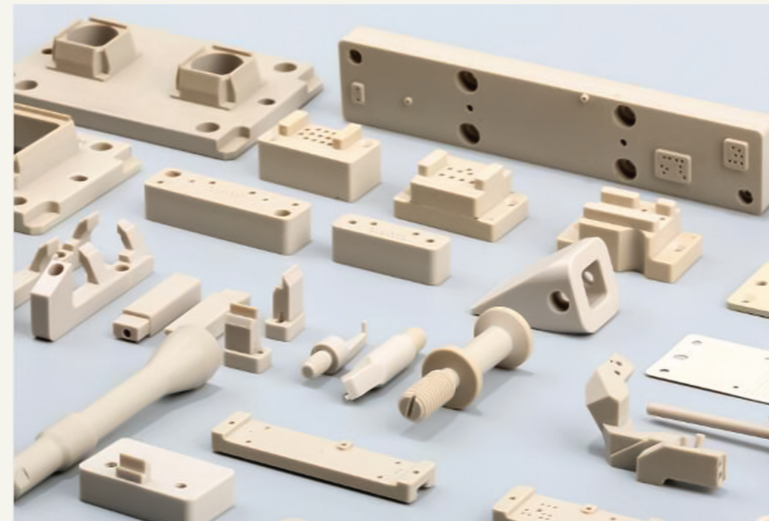
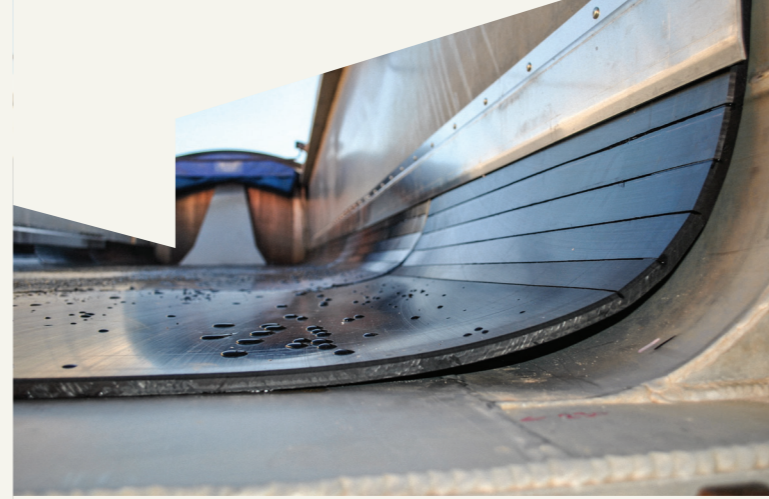
Dotmar operates seven cutting-edge plastic machining technology centers throughout Australia and New Zealand.

Our machining centers are technology hubs featuring equipment dedicated exclusively to producing custom plastic parts for a wide range of applications.

Our staff are extensively trained in the full spectrum of engineering thermoplastics. With their expertise, materials like Acetal (Sustarin), Nylon (Sustamid), HDPE (Polystone G 300), UHMWPE

(Polystone M 7000) and PEEK, are easily machined to the highest standards.

Additionally, we work with various grades of PTFE, PVC, and even challenging materials like PAI, PEI and PSU, all of which can be efficiently handled by Dotmar's expert machinists.





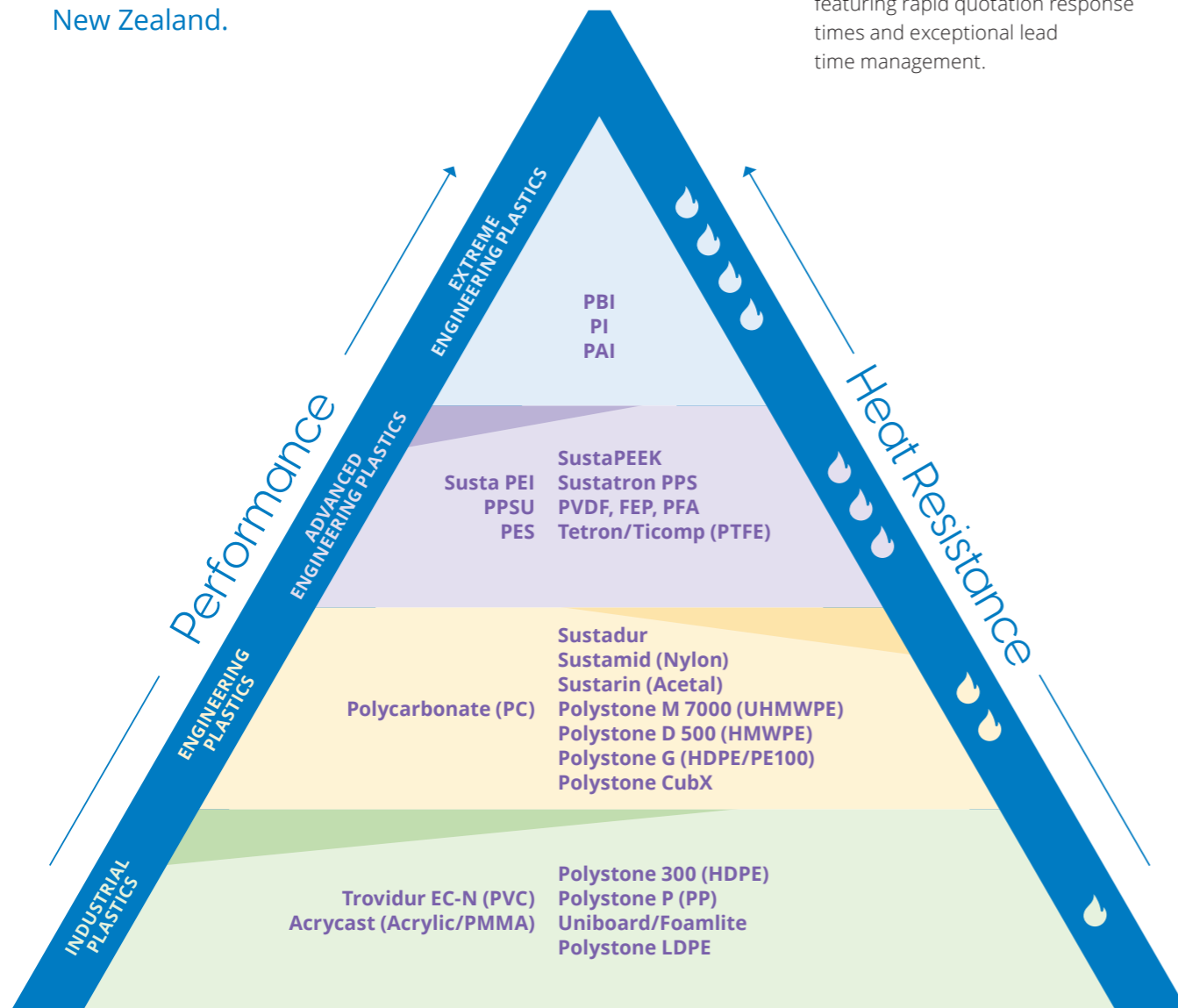
LARGEST SELECTION OF ENGINEERING PLASTICS

Dotmar operates across the Australian market with 5 locations positioned in major metropolitan areas, while 3 locations cover New Zealand.

Our large footprint is further strengthened by strategic reseller partners. These partners predominantly cater to regional Australia, delivering personalised services to local markets with extensive geographic coverage.

Partnering with Dotmar ensures that you have access to an unparalleled range of products and the most extensive stock inventory across Australia and New Zealand.

Our commitment to excellence extends to customer service, featuring rapid quotation response times and exceptional lead time management.



Material Comparison Table

Material	Tensile Strength (MPa)	Impact Resistance	Bearing Wear Resistance	Abrasion Wear Resistance	Thermal Exp x 10 ⁻⁶	Co-Efficient of Friction	Machinability	Moisture Absorption	Chemical Resistance	Temperature		Suitable for Food Contact
										Min °C	Max °C (Long Term)	
Polystone G PE100	24	Med	Low	Low	190	0.15	High	Low	High	-50	80	Yes
Polystone G 300	22	Med	Low	Low	190	0.15	High	Low	High	-50	80	Yes
Polystone D 500	27	Med	Low	Med	190	0.15	High	Low	High	-100	80	Yes
Polystone M 7000	20	High	Med	High	190	0.13	High	Low	High	-250	80	Yes
Polystone M 7000 AST	22	High	Med	High	190	0.13	High	Low	High	-150	80	Yes
Polystone M Flametech AST	22	High	Med	High	190	0.15	High	Low	High	-250	80	No
Polystone Matrox	20	High	Med	High	190	0.12	High	Low	High	-250	80	No
Polystone Marine-Tec	22	Med	-	-	190	-	Med	Low	High	-30	80	No
Polystone P(H)	32	Med	-	-	155	-	Low	Low	High	0	100	Yes
Uniboard/Foamlite	18	Low	-	-	155	-	Med	Low	High	-30	90	No
Sustarin C	67	Med	Low	Low	110	0.3	High	Low	Med	-50	100	Yes
Sustarin C GLD 350	45	Med	High	Low	120	0.15	High	Low	Med	-50	100	Yes
Sustadur PET	85	Low	High	Low	60	0.15	High	Low	Med	-20	115	Yes
Sustadur PET GLD 130	75	Low	High	Low	65	0.15	High	Low	Med	-20	115	Yes
Sustamid 6	80	High	Med	Med	90	0.4	Med	High	Med	-40	85	Yes
Sustamid 66	85	High	Med	Med	80	0.4	Med	High	Med	-30	95	Yes
Sustamid 6G	75	High	Med	Med	80	0.4	Med	Med	Med	-40	110	Yes*
Sustamid 6G OL	70	High	High	Med	80	0.2	High	Med	Med	-40	110	No
Sustamid 6G HS	75	High	Med	Med	80	0.4	Med	Med	Med	-40	120	No
Sustamid 6G GF 30	85	High	Med	Low	50	0.45	Med	Med	Med	-20	120	No
Sustamid 6G MO	82	High	Med	Med	80	0.35	Med	Med	Med	-40	110	No
Sustaglide	75	High	High	Med	80	0.2	High	Med	Med	-40	110	Yes*
Sustatron PPS MOD	50	Med	High	Med	50	0.25	High	Low	High	-20	220	Yes
SustaPEEK	110	Med	Med	Med	50	0.25	High	Low	High	-60	250	Yes
SustaPEEK MOD	75	Med	High	Med	30	0.15	High	Low	High	-30	250	No
SustaPEEK GF 30	80	Med	High	Low	30	0.3	High	Low	High	-20	250	No
SustaPEEK CF 30	120	Med	Med	Low	25	0.2	High	Low	High	-20	250	No
Polystone PVDF	55	Med	-	-	120	-	High	Low	High	0	140	Yes
Sustason PSU	80	Low	-	-	55	-	Med	Low	Med	-50	160	Yes
SustaPEI	110	Low	-	-	45	-	High	Low	Med	-50	170	Yes
Tetron S	28	Low	Low	Low	129	0.06	High	Low	High	-200	250	Yes
Tetron G	17	Low	Med	Low	84	0.15	Med	Low	High	-200	260	Yes
Tetron C	17.6	Low	Low	Low	70	0.12	High	Low	High	-200	260	No
Tetron B	23	Low	Med	Low	132	0.13	High	Low	High	-200	260	No
Tetron GR	16.5	Low	Med	Low	68	0.1	High	Low	High	-200	260	No
Polycarbonate UV2	62.5	High	-	-	65	-	Med	Low	Low	-50	120	No
Polycarbonate AR	62.5	High	-	-	65	-	Med	Low	Low	-50	120	No
Trovidur PVC	50	Low	-	-	70	-	High	Low	High	-20	60	No

* Denotes that this may not apply to all grades or colours in the range.



KEY PRODUCTS

Polystone® PE Family of Products (Polyethylene)



The Polystone® polyethylene family being one of the most well-known engineering plastics, covers the range from HDPE, HMWPE to UHMWPE with the highest molecular weight available, providing the best wear and abrasion resistance.

Polystone® G PE100 Black

Polystone® PG100 is a HDPE made from PE100, that meets the highest standards for tank fabrication (DVS), and the latest HDPE pipe standard.

Polystone® G 300 Natural (White) / Black / Yellow / Red / Green / Blue

Polystone® 300 is HDPE made from PE80, that still exceeds the performance of general-purpose HDPE.

Polystone® D 500 Natural (White) / Black / Red / Green / Dark Blue

Polystone® 500 is a HMWPE with outstanding mechanical properties such as scratch and cut resistance, and is often used in the food, bottling and medical industry.

Polystone® M 7000 Natural (White) / Black / Blue / Green

Polystone® 7000 is a 9.2m g/mol UHMWPE offering the highest abrasion resistance.

Polystone® M 7000 AST Black

Polystone® 7000 AST is an Anti-Static 9.2m g/mol UHMWPE offering the highest abrasion resistance.

Polystone® M Flametech Black

Polystone® Flametech AST is a 9.2m g/mol UHMWPE that is FRAS approved for underground coal mining that meets MDG3608.

Polystone® Matrox Grey

Polystone® Matrox is a specially formulated 9.2m g/mol UHMWPE with slip and release agents that is designed for flow promotion linings, together with being UV resistant.

Polystone Marine-Tec White

Polystone Marine-Tec is a colourfast white UV resistant sheet material, with an aesthetic textured surface that is scratch and mould/fungi resistant.



Polystone® P Family of Products (Polypropylene)

Polystone® P is a highly heat-stable polypropylene (PP) available as a homopolymer and copolymer. It lends itself to chemical environments and tank building.

Polystone® P Homopolymer Beige

Polystone® P Homopolymer stronger and stiffer than copolymer PP. It is also ideal for chemical, corrosive and hot environments, and is weldable for tank construction.



Uniboard/Foamlite® Family of Products

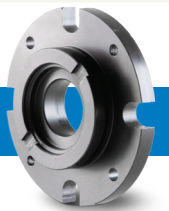


Uniboard/Foamlite® Foamed group of products are most commonly made from polypropylene, but is also available in HDPE, with a variety of surface textures and finishes.

Uniboard® ECO Black Foamlite (Colours)

Uniboard® ECO and Foamlite is a closed cell foamed PP sheet with a solid skin on both sides. It has a scratch resistant embossed surface, and is an ideal wood replacement material as it doesn't absorb moisture, won't rot and can be fastened in the same fashion as wood.

Sustarin® Family of Products (Acetal/POM)



Sustarin® are homopolymer and copolymer acetal materials for applications requiring improved dimensional stability but less wear resistance than nylons. Special formulations include an enhanced bearing grade material, a metal and x-ray-detectable acetal, food-contact compliant acetals, and a range of colours.

Sustarin C Natural (White) / Black

Sustarin C is a general purpose, copolymer acetal grade that is often favoured for its porosity-free nature. Offers low moisture absorption and excellent machinability capabilities. Used frequently for Food Contact and medical applications.

Sustarin C GLD 350 Blue

Sustarin C GLD 350 is a self-lubricating, copolymer acetal grade that exhibits low-stick extending the wear life over standard acetal. Offers low moisture absorption and excellent machinability capabilities. Used frequently for Food Contact.

Sustadur® Family of Products



Best known for its bearing wear properties, Sustadur® is a thermoplastic polyester based on PET-P. This family of products has exceptional dimensional stability coupled with excellent wear resistance, a low coefficient of friction, high strength, and resistance to moderately acidic solutions.

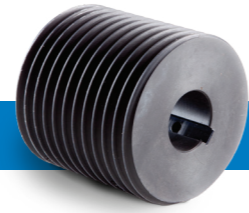
Sustadur® PET Natural (White) / Black

Sustadur® PET is characterised by its excellent wear resistance, low coefficient of friction, and high strength compared to nylons and acetals. It's ideal for bearing and structural applications throughout the pharmaceutical, food processing and packaging, and oil and gas industries.

Sustadur® PET GLD 130 Natural (Grey)

Sustadur® PET GLD 130 is a self-lubricated version of Sustadur PET furthering the bearing wear resistance with an even lower coefficient of friction. Ideal for high load and high-speed bearings.

Sustamid® Family of Products (Nylon/Polyamide)



The Sustamid® family is an all-rounder material. These nylons exhibit high toughness, a low coefficient of friction, and excellent wear resistance. These properties make them the industry standard for use in bearing and wear applications, and ideal replacements for materials ranging from bronze to rubber.

Sustamid® 6 Natural (White) / Black

Sustamid® 6 PA6 exhibits a great combination of mechanical strength, stiffness, toughness, mechanical damping properties, as well as creep and wear resistance, and is a "general purpose" grade nylon.

Sustamid® 66 Natural (Ivory) / Black

Sustamid® 66 offers higher mechanical strength, stiffness, heat and wear resistance than Sustamid® 6, and is more easily machined.

Sustamid® 6G Natural (Ivory)

This unmodified cast nylon 6 grade exhibits characteristics which come very close to those of Sustamid® 66. It is manufactured and stocked in larger rod diameter and sheet thicknesses.

Sustamid® 6G OL Yellow

Sustamid® 6G OL is internally lubricated with oil specifically formulated for applications involving unlubricated, highly loaded, and sliding or rotating bearings.

Sustamid® 6G HS Natural /Black / Blue

Sustamid® 6G HS is a heat stabilised cast nylon 6, designed to minimise heat-aging / heat degradation.

Sustamid® 66 GF 30 Black

Sustamid® 66 GF 30 is 30% glass filled nylon 66, that increases the mechanical properties, and elevates the short-term temperature rating.

Sustamid® 6G MO Black

Sustamid® 6G MO is cast nylon PA6 filled with Molybdenum Disulfide (MoS₂), offering improved wear resistance, higher strength and stiffness, compared to Sustamid 6G, and is the industry standard for Wire Rope Sheaves.

Sustaglide® Natural (White) / Green

Sustaglide® is internally lubricated, reducing the co-efficient of friction and suited to higher speeds bearings in lubricated applications.

Advanced Engineering Plastics Family of Products (AEP)



The AEP's exhibit high mechanical strength and stiffness over an elevated temperature range. These thermoplastics have excellent dimensional stability and creep resistance, superior electrical characteristics (including insulating and dielectric properties), and some of the broadest chemical resistance of all engineering polymers.

Sustatron® PPS MOD Blue

Sustatron PPS MOD is an internally lubricated PPS offering superior wear resistance, outstanding chemical and hydrolysis resistance, excellent dimensional stability, great electrical insulating and dielectric properties, a low coefficient of friction, and inherently low flammability.

SustaPEEK® Natural (Beige) / Black

SustaPEEK® is an unfilled grade that offers the highest elongation and toughness of all materials in the PEEK family. Ideal for instrument and seal components, where ductility and inertness are critical.

SustaPEEK® MOD Black

SustaPEEK® MOD is modified bearing grade of PEEK, giving it the lowest coefficient of friction and the best machinability of all PEEK materials. Due to SustaPEEK's combination of low wear and friction, and high PV, this grade is often chosen as a solution for bearings and bushings.

SustaPEEK® GF 30 Natural (Beige) / Black

SustaPEEK® GF 30 is a 30% glass fibre reinforced grade with excellent dimensional stability and outstanding chemical, corrosion, and creep resistance. With the addition of glass fibres, SustaPEEK® GF 30 has a significantly lower expansion rate and high flexural modulus compared to SustaPEEK.

SustaPEEK® CF 30 Black

SustaPEEK® CF 30 is a 30% carbon fibre-reinforced grade that exhibits even higher stiffness, mechanical strength, and creep and wear resistance over SustaPEEK® GF 30. With a significantly reduced thermal expansion, and high thermal conductivity rates, SustaPEEK® CF 30 components are often favoured for their ability to extend part life and rapidly dissipate heat in bearing applications.

Polystone® PVDF Natural (Ivory)

Polystone® PVDF is a fluoro polymer that has excellent chemical resistance, machinability and stress-cracking resistance. It is often used when the PTFE is not mechanically strong enough, and has excellent ultrasonic transparency.

Sustason™ PSU Natural

Sustason PSU is a translucent material that offers a combination of excellent mechanical, thermal, and electrical properties. This grade is often used due to its high temperature resistance, chemical resistance, or autoclavability. Sustason PSU shapes are ideal for analytical instrumentation due to their outstanding radiation stability, and resistance to acidic and salt solutions, detergents, hot water, and steam.

SustaPEI Natural / Black / Blue

SustaPEI is a family of high-performance polymers that combine high strength and rigidity at elevated temperatures with long term heat resistance. PEI offers excellent dimensional stability combined with broad chemical resistance. Commonly machined into parts for reusable medical devices, analytical instrumentation, and electrical/ electronic insulators.

Tetron Family of Products (PTFE/Teflon)



The Tetron family is made from polytetrafluoroethylene (PTFE), and is known for its high temperature resistance (260°C), non-stick and low friction properties and being chemically inert.

Tetron S White

Tetron S is virgin PTFE. Chemically inert, lowest coefficient of friction of all materials, with ultimate non-stick properties. Excellent insulation characteristics and with continuous temperature resistance of 260°C.

Tetron G White

Tetron G is glass-filled PTFE, that improves the creep resistance, mechanical properties and wear resistance.

Tetron C Black

Tetron C is carbon filled PTFE. Improves creep and wear resistance, is anti-static with lubricity enhancement.

Tetron B Bronze

Tetron B is bronze filled PTFE, that provides the best creep resistance in the PTFE family, high thermal conductivity. The improved wear properties are often utilised in hydraulic systems. The chemical resistance is lower compared to other PTFE grades.

Tetron GR Grey

Tetron GR is a glass graphite filled PTFE that provides excellent wear properties against soft metals.



Polycarbonate® Family of Products (PC)

Polycarbonate® group of products are clear sheet grades that are extremely tough and impact resistant. With its most common application being clear see through safety machine guards.

Polycarbonate® UV2 Clear

Polycarbonate® UV2 is polycarbonate sheet that is UV resistant on both sides, suitable for safety machine guards, signage, covered walkways, bus shelters, sky lights and exterior applications.

Polycarbonate® AR Clear

Polycarbonate® AR sheet is abrasion resistant on both sides for high traffic areas, security applications and mass transport.



Trovidur® Family of Products (PVC)

Trovidur® PVC group of products are especially outstanding for their stability, excellent chemical resistance, thermoformability and excellent flame retardant properties.

Trovidur® EC-N Grey

Trovidur® EC-N is a plasticiser free PVC-U, which meets the requirements of RoHS, is weldable, self-extinguishing, with high chemical resistance.

Thermoset Family of Products

The thermoset family of products are materials of layered reinforced resins that exhibit very high mechanical properties particularly in compression in the Normal direction to the layers

Orkot C320 (TLG)

C320 is manufactured from medium weave fabrics with excellent mechanical strength and possessing dimensional stability when immersed in water, acids and chemical solutions. C320 grade incorporates graphite for improved dry running capability.

Orkot C321 (TL)

C321 is manufactured from medium weave fabrics with excellent mechanical strength and possessing dimensional stability when immersed in water, acids and chemical solutions. C321 grade has a high resistance to gamma radiation and is recommended for nuclear engineering applications.

Orkot TLM Marine (TLMM)

Orkot® TLM Marine is a non-asbestos laminated material manufactured by impregnating special fabrics with thermosetting resins and incorporates solid lubricants. Orkot® TLM Marine possesses exceptional wear resistance and dimensional stability in water with virtually no swell.

PF CC 201

PF CC 201 is a medium weave cotton cloth reinforced phenolic resin sheet. Used for gears, high load wear pads/guides. A good electrical insulator, as well as being thermally stable, rigid and fire resistant

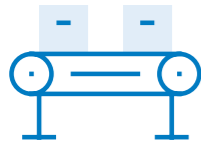
PF CP 201

PF CP 201 is a cellulose paper reinforced phenolic resin sheet. A good insulator, used as plates for electrical cabinets, holding fixtures and jigs, very rigid and thermally stable

PF CC 22

PF CC 22 is a medium cotton cloth reinforced phenolic resin tube. High bearing load resistance and dimensionally stable.

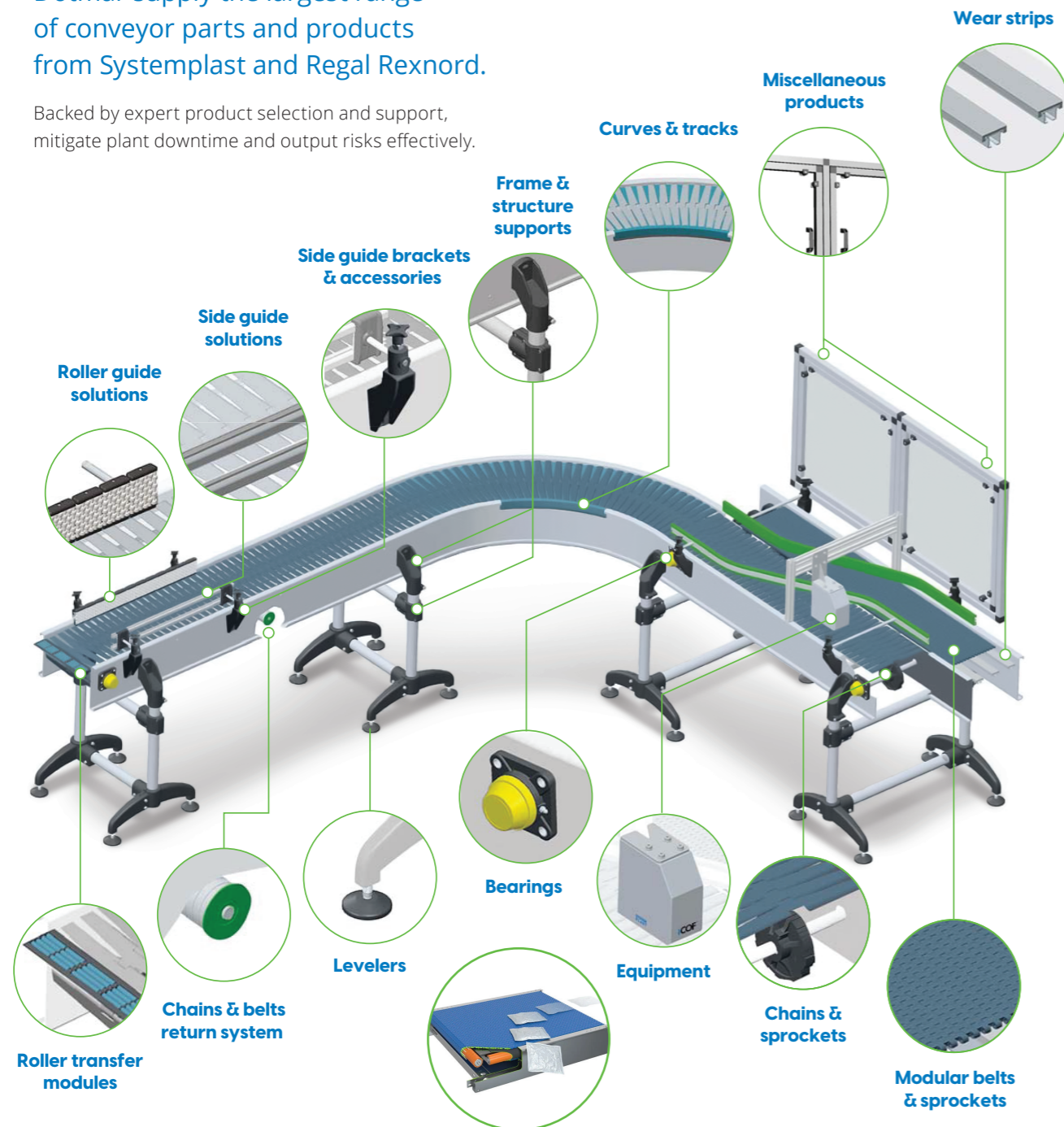




CONVEYOR PARTS AND PRODUCTS

Dotmar supply the largest range of conveyor parts and products from Systemplast and Regal Rexnord.

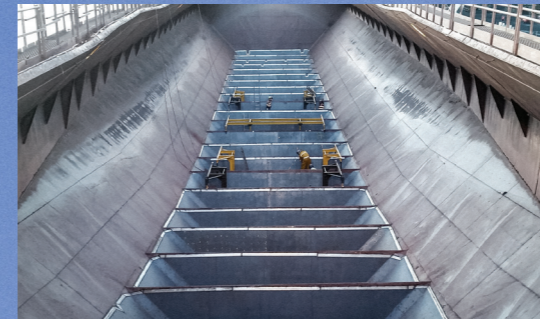
Backed by expert product selection and support, mitigate plant downtime and output risks effectively.



DOTMAR | **RegalRexnord** **SYSTEM PLAST**

MODSOFT **REXNORD**

MATROX FLOW PROMOTION LININGS



Advanced polymer alloys solving flow and wear issues across industries.

Featuring ultra-low friction, exceptional wear resistance, high impact strength, chemical resilience, and peak performance for challenging applications.

Tailored for bulk solids handling and mining, addressing flow challenges in bins, hoppers, chutes, and more.





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