

MARKET LEADERS IN

ENGINEERING PLASTIC SOLUTIONS



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.

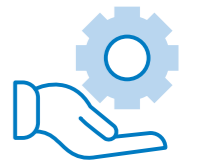


OUR CAPABILITIES



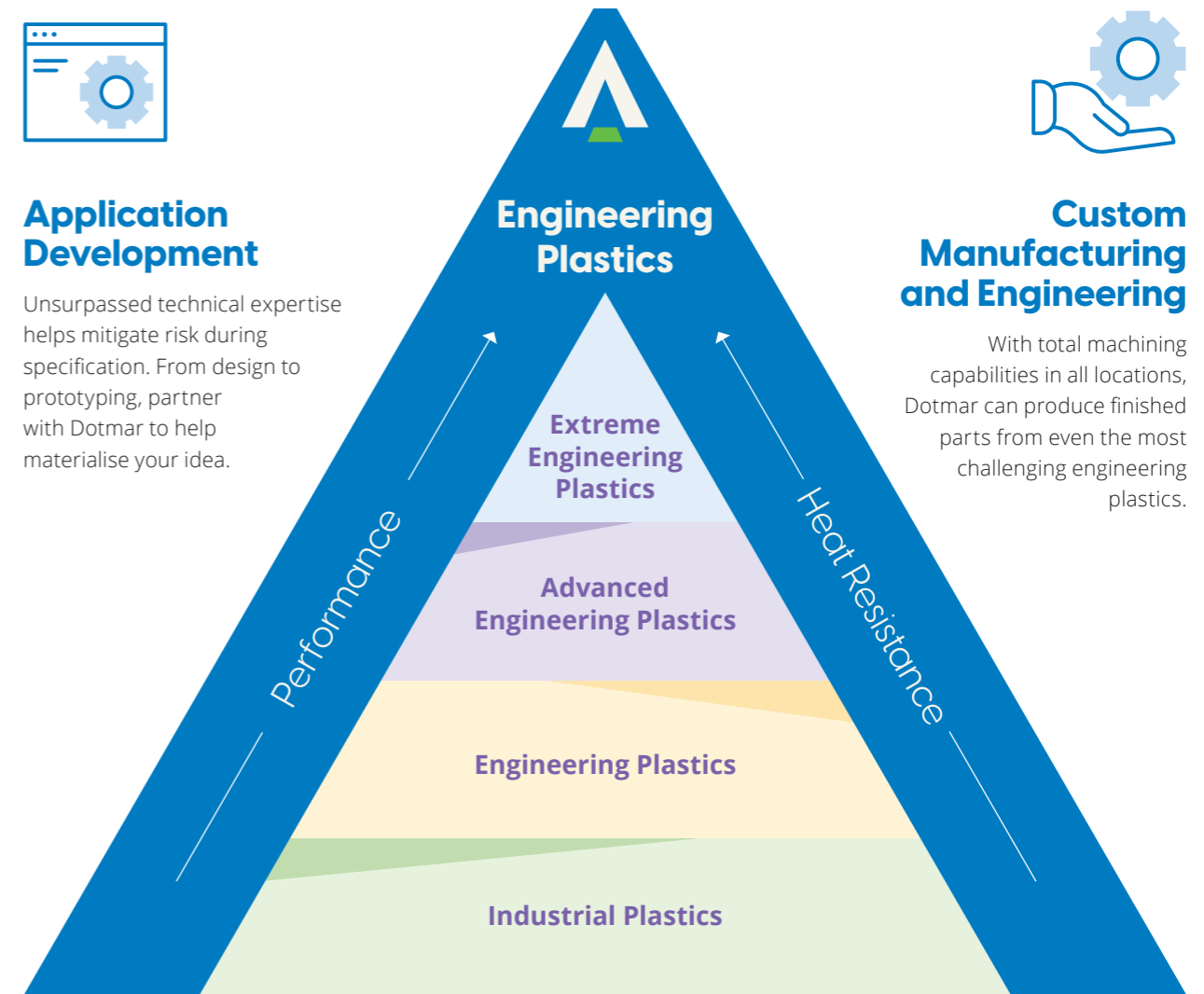
Application Development

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.

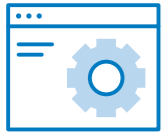


Largest Selection of Engineering Plastics

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 |



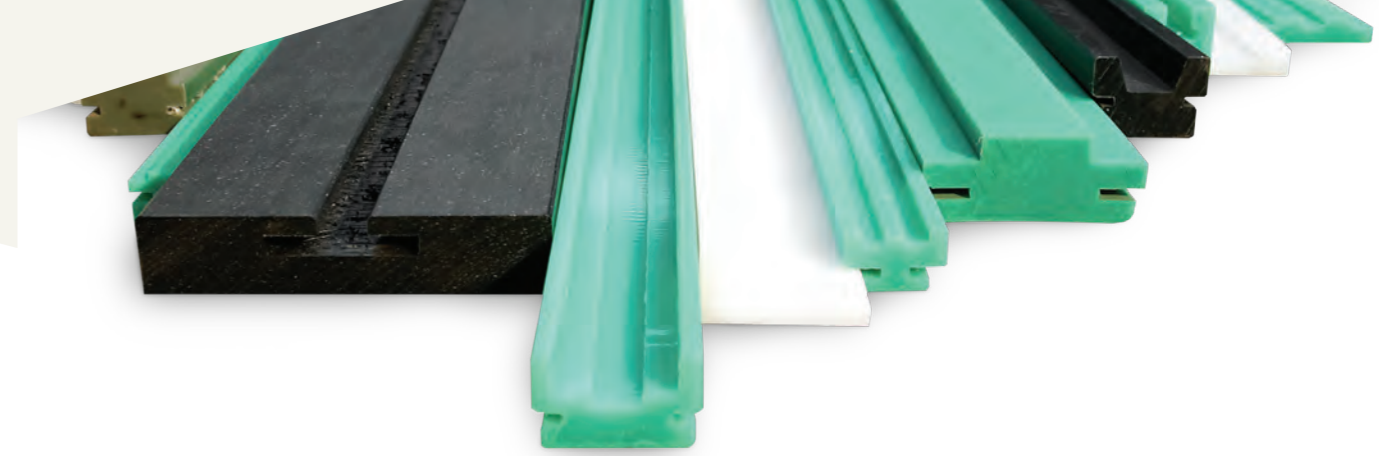
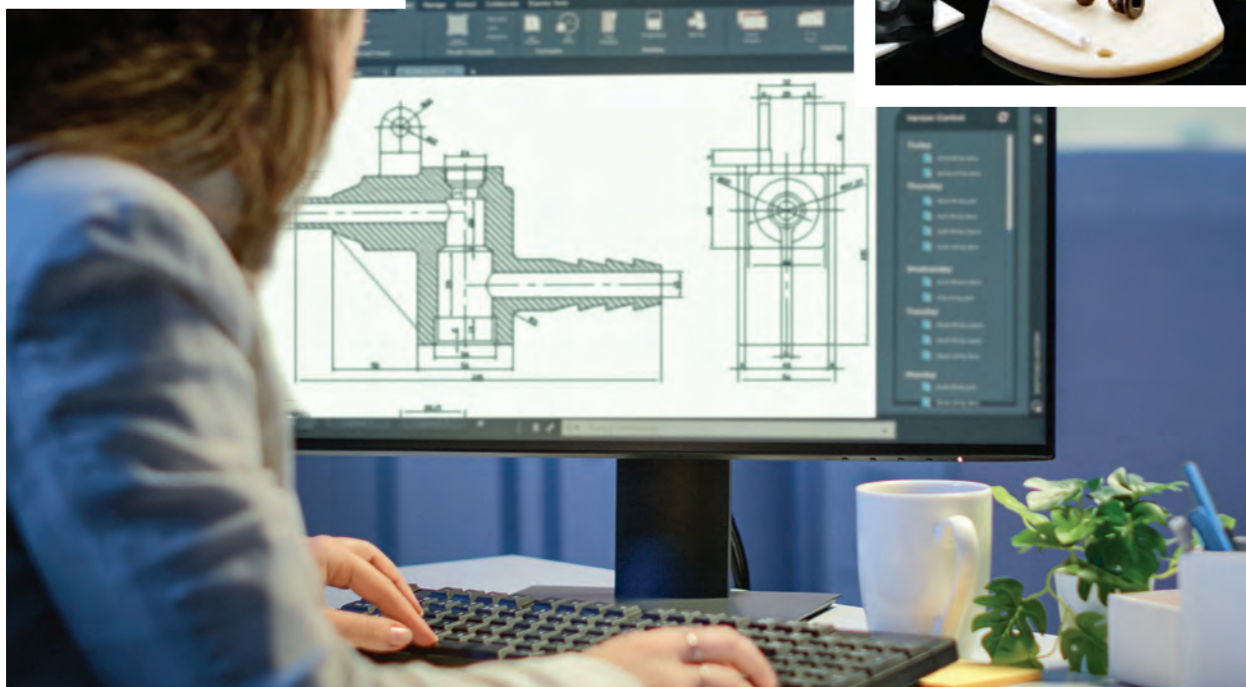
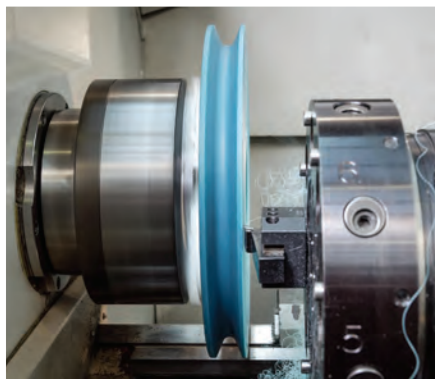
APPLICATION DEVELOPMENT

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 tools including CAMSAD (Computer Aided Material Selection and Design) and RITA (Rochling Integrated Tank Building Assistant), you can be assured that the advice you receive is substantiated and vetted by technically trained, thermoplastics specialists.

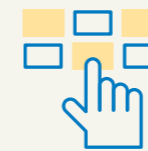
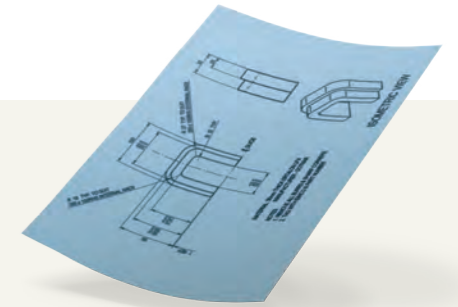
Backed by our exceptional service and technical expertise, Dotmar can be trusted with the most critical projects across a multitude of market segments.



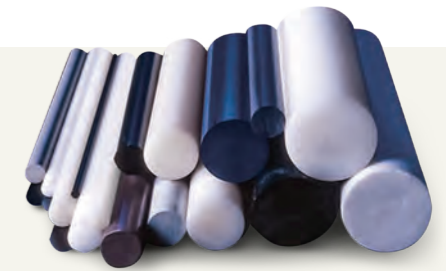
Application Development Workflow



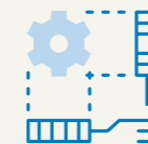
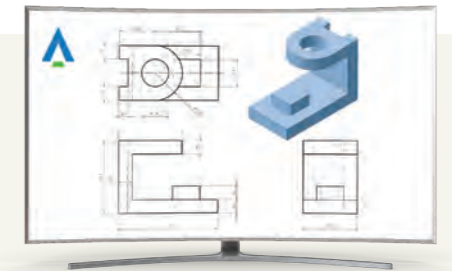
Comprehensive needs analysis of application



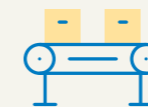
Material selection and specification



Engineering drawings/reverse engineering of existing parts

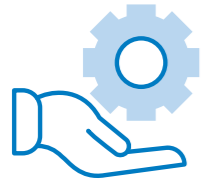


Prototype creation for client evaluation



Full scale production





TOTAL MACHINING SOLUTIONS

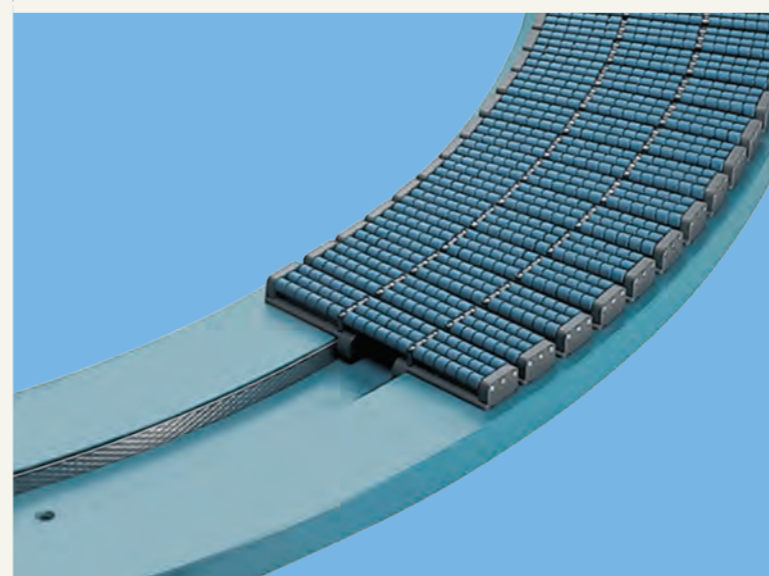
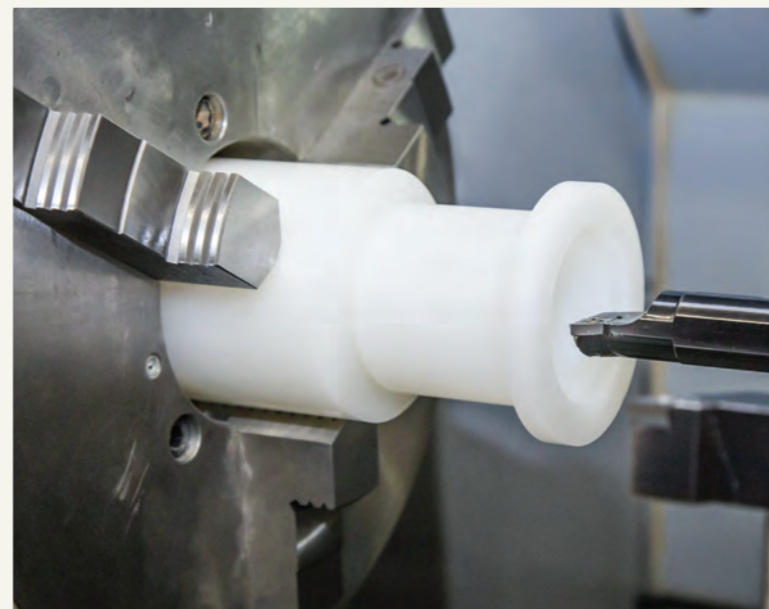
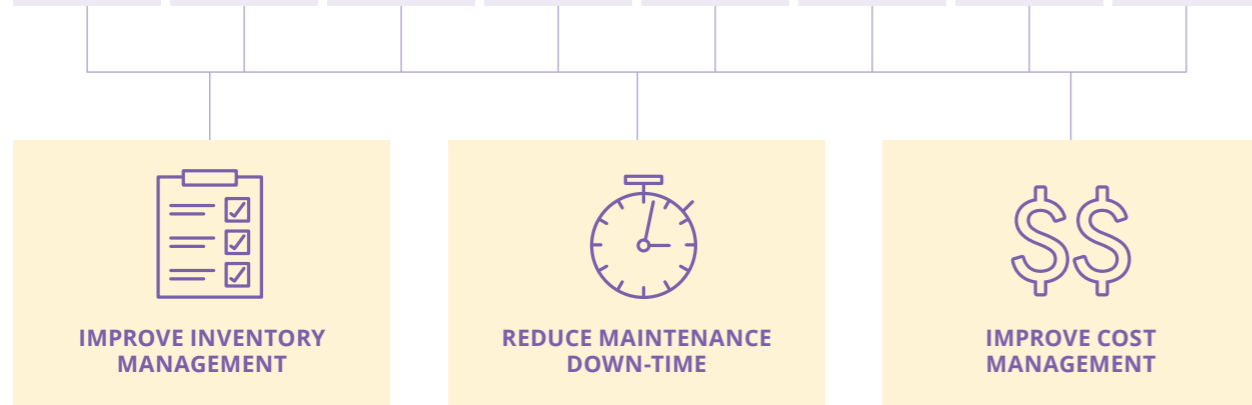
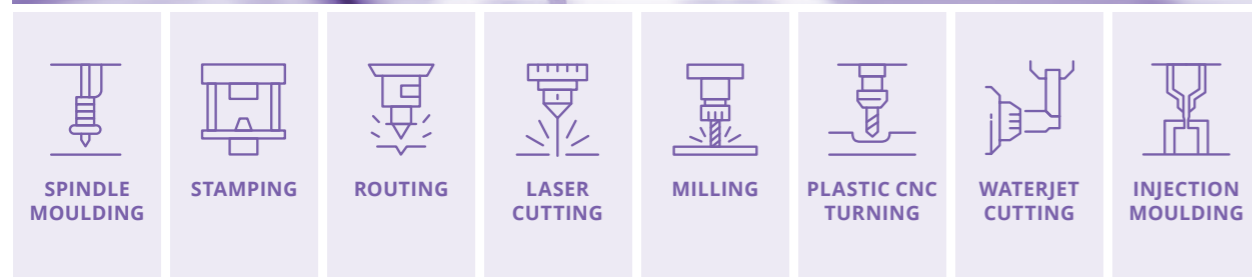
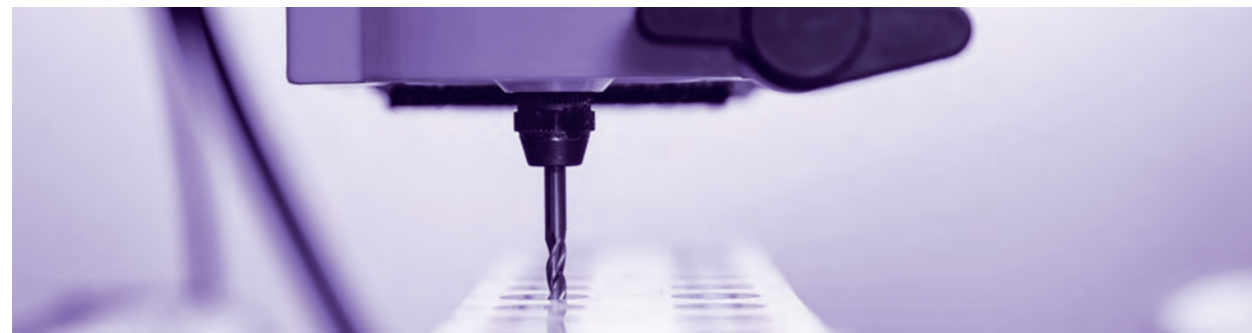
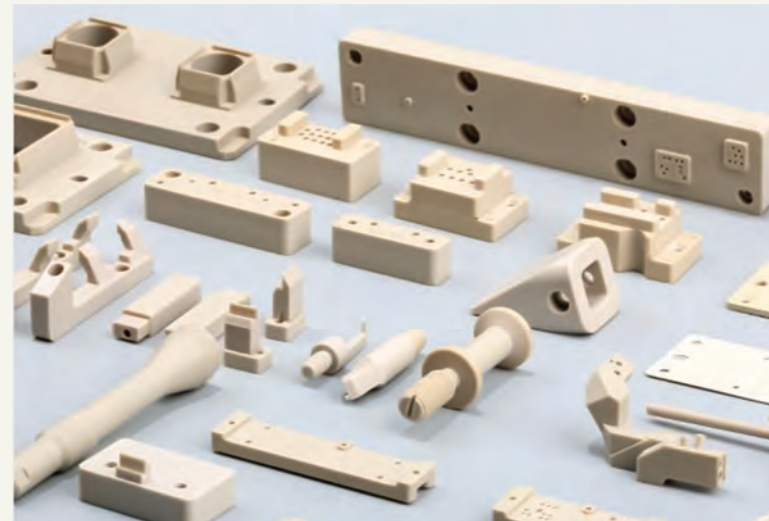
Dotmar operates seven cutting-edge plastic machining technology centers throughout Australia and New Zealand.

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.





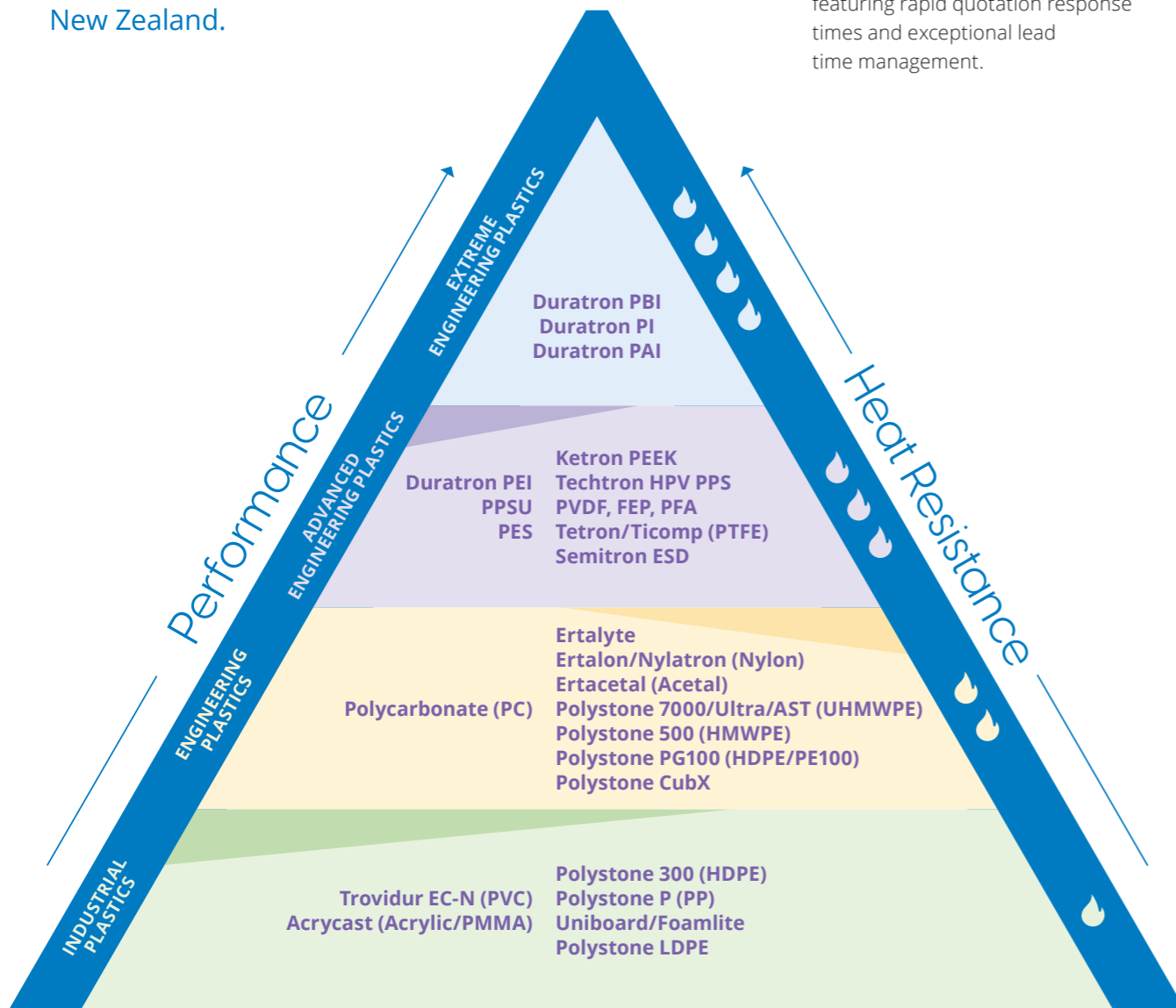
LARGEST SELECTION OF ENGINEERING PLASTICS

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)	
Tetron G	17	Low	Med	Low	84	0.15	Med	Low	High	-200	260	Yes
Tetron S	28	Low	Low	Low	129	0.06	High	Low	High	-200	250	Yes
Tetron C	17.6	Low	Low	Low	70	0.12	High	Low	High	-200	260	No
Tetron GR	16.5	Low	Med	Low	68	0.1	High	Low	High	-200	260	No
Duratron PI	125	Med	Med	Low	40	0.3	High	Low	High	-196	300	No
Ketron CF30 PEEK	144	Med	Med	Low	25	0.2	High	Low	High	-20	250	No
Ketron GF30 PEEK	80	Med	High	Low	30	0.3	High	Low	High	-20	250	No
Ketron PEEK 1000	115	Med	Med	Med	50	0.25	High	Low	High	-50	250	Yes
Ketron PEEK HPV	78	Med	High	Med	35	0.15	High	Low	High	-20	250	No
Ketron PEEK TX	90	Med	High	Low	55	0.2	High	Low	High	-20	250	Yes
Boatboard	22	Med	-	-	190	-	Med	Low	High	-30	80	No
Polystone 500	27	Med	Low	Med	190	0.15	High	Low	High	-100	80	Yes
Polystone 7000	20	High	Med	High	190	0.13	High	Low	High	-250	80	Yes
Polystone 7000 AST	22	High	Med	High	190	0.13	High	Low	High	-150	80	Yes
Polystone 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 P(H)	32	Med	-	-	155	-	Low	Low	High	0	100	Yes
Polystone PG100	24	Med	Low	Low	190	0.15	High	Low	High	-50	80	Yes
Polystone Ultra	20	High	Med	High	190	0.15	High	Low	High	-250	80	Yes
Potystone 300	22	Med	Low	Low	190	0.15	High	Low	High	-50	80	Yes
Uniboard/Foamlite	18	Low	-	-	155	-	Med	Low	High	-30	90	No
Tetron B	23	Low	Med	Low	132	0.13	High	Low	High	-200	260	No
Trovidur PVC	50	Low	-	-	70	-	High	Low	High	-20	60	No
Duratron PAI	110	Med	High*	Low	35	0.25	High	Low	Med	-20	250	No
Duratron PBI	130	Med	High	Low	25	0.3	High	High	Med	-50	310	No
Ertacetal (C)	66	Med	Low	Low	110	0.3	High	Low	Med	-50	100	Yes
Ertalyte TX	76	Low	High	Low	65	0.15	High	Low	Med	-20	100	Yes
Ertalyte	90	Low	High	Low	60	0.15	High	Low	Med	-20	100	Yes
Duratron PEI	129	Low	-	-	50	-	High	Low	Med	-50	170	Yes
Ertalon 66GF30	85	High	Med	Low	50	0.45	Med	Med	Med	-20	110	No
Ertalon 66SA	90	High	Med	Med	80	0.4	Med	High	Med	-30	80	Yes
Ertalon 6PLA	88	High	Med	Med	80	0.4	Med	Med	Med	-30	90	Yes*
Ertalon 6XAU+	84	High	Med	Med	80	0.4	Med	Med	Med	-30	105	No
Ertalon LFX	73	High	High	Med	80	0.2	High	Med	Med	-20	90	No
Nylatron NSM	80	High	High	Med	80	0.2	High	Med	Med	-30	90	No
Nylatron 703XL	60	High	High	Med	85	0.12	Med	Med	Med	-20	90	No
Nylatron GS	95	High	Med	Med	80	0.35	Med	Med	Med	-20	80	No
Nylatron MC901	84	High	Med	Med	80	0.4	Med	Med	Med	-30	90	No
Nytatron GSM	82	High	Med	Med	80	0.35	Med	Med	Med	-30	90	No
Sultron PSU	88	Low	-	-	55	-	Med	Low	Med	-50	150	Yes
Techtron HPV PPS	78	Med	High	Med	50	0.25	High	Low	High	-20	220	Yes
Ertalon 6SA	80	High	Med	Med	90	0.4	Med	High	Med	-40	70	Yes
Polystone PVDF	55	Med	-	-	120	-	High	Low	High	0	140	Yes
Palsun AR	62.5	High	-	-	65	-	Med	Low	Low	-50	120	No
Palsun UV2	62.5	High	-	-	65	-	Med	Low	Low	-50	120	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® PG100 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® 300 Natural (White) / Black / Yellow

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

Polystone® 500 Natural (White)

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® 7000 Natural (White)

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

Polystone® 7000 AST Black

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

Polystone® Ultra Green

Polystone® Ultra is a distinctly coloured green 9.2m g/mol UHMWPE that has been specially designed for chain wear guides.

Polystone® 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.

Boatboard White

Boatboard is a colourfast white UV resistant sheet material, with a 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

Uniboard® ECO 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 fastener in the same fashion.

Ertacetal® Family of Products (Acetal/POM)

Ertacetal® 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 colors.



Ertacetal® C POM-C Natural (White) / Black

Ertacetal® 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.

Ertalyte® 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.



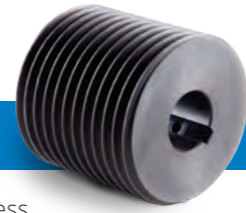
Ertalyte® PET-P Natural (White) / Black

Ertalyte® produced from proprietary resins and 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.

Ertalyte® TX PET-P Pale Grey

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

Ertalon®/Nylatron® Family of Products (Nylon/Polyamide)



The Ertalon® and Nylatron® 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.

Ertalon® 6SA Natural (White) / Black

Ertalon® 6 SA 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.

Ertalon® 66SA Natural (Ivory)

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

Ertalon® 6PLA Natural (Ivory) / Black

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

Ertalon® LFX Green

Ertalon® LFX is internally lubricated with oil specifically formulated for applications involving unlubricated, highly loaded, and sliding or rotating bearings.

Ertalon® 6XAU+ Black

Ertalon® 6XAU+ is a heat stabilised cast nylon 6, designed to minimise heat-aging / heat degradation.

Ertalon® 66GF30 Black

Ertalon® 66GF30 is 30% glass filled nylon 66, that increases the mechanical properties, and elevates the short-term temperature rating.

Nylatron® GS Dark Grey

Nylatron® GS is PA66 filled with Molybdenum Disulphide (MoS₂), offering improved wear resistance, higher strength and stiffness, and improved dimensional stability compared to PA66.

Nylatron® GSM Dark Grey

Nylatron® GS is cast nylon PA6 filled with Molybdenum Disulphide (MoS₂), offering improved wear resistance, higher strength and stiffness, compared to Ertalon 6PLA, and is the industry standard for Wire Rope Sheaves.

Nylatron® NSM Grey

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

Nylatron® MC901 Blue

Nylatron® MC901 is a cast PA6 with improved fatigue resistance.

Nylatron® 703XL Deep Purple

Nylatron® 703XL is internally lubricated offering the lowest co-efficient of friction, Zero 'Stick-Slip' and the highest performance wear pad material.

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.

Techtron® HPV PPS Deep Blue

Techtron® HPV PPS 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.

Ketron® PEEK 1000 Beige

Ketron® 1000 PEEK 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.

Ketron® HPV PEEK Black

Ketron® HPV PEEK is carbon fibre reinforced, with graphite and PTFE lubricants, giving them the lowest coefficient of friction and the best machinability of all PEEK materials. Due to Ketron® HPV PEEK's combination of low wear and friction, and high PV, this grade is often chosen as a solution for bearings and bushings.

Ketron® TX PEEK Blue

Ketron® TX PEEK is an internally lubricated, EU 10/2011 and FDA Compliant grade that offers improved wear and frictional performance over virgin PEEK. Often favoured for food and beverage processing, and pharmaceutical applications where extreme performance temperatures, critical tolerances, or low frictional heat are required.

Ketron® GF30 PEEK Brown-Grey

Ketron® GF30 PEEK is a 30% glass fibre reinforced grade with excellent dimensional stability and outstanding chemical, corrosion, and creep resistance. With the addition of glass fibres, Ketron® GF30 PEEK has a significantly lower expansion rate and high flexural modulus compared to Ketron PEEK 1000.

Ketron® CA30 PEEK Black

Ketron® CA30 PEEK is a 30% carbon fibre-reinforced grade that exhibits even higher stiffness, mechanical strength, and creep and wear resistance over Ketron® GF30 PEEK. With a significantly reduced thermal expansion, and high thermal conductivity rates, Ketron® CA30 PEEK 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.

Sultron™ PSU

Sultron™ 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. Sultron™ 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.

Duratron® PEI

Duratron® (PEI) is a family of transparent amber 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.

Advanced Engineering Plastics Family of Products (AEP)



Duratron® PAI

Duratron® PAI is a family of extreme plastics capable of performing under severe stress conditions at temperatures up to 260 °C. Duratron® PAI includes unfilled, bearing and reinforced grades with common applications including electrical connectors, bearing cages, mandrels, and labyrinth seals.

Duratron® PI

Duratron® PI stock shapes and direct formed parts are made from robust polyimide resins for demanding applications where exceptional thermal resistance, low wear and low friction, strength and impact resistance are required. The range includes unfilled, bearing and reinforced grades.

Duratron® PBI

Black

Duratron® PBI is the highest performance engineering thermoplastic available today. It has better wear resistance and load carrying capabilities at extreme temperatures than any other engineering plastic, reinforced or not. Duratron® PBI is very “clean” in terms of ionic impurity and it does not outgas (except water).

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 co-efficient 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.

Palsun® Family of Products (Polycarbonate / PC)



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

Palsun® UV2

Clear

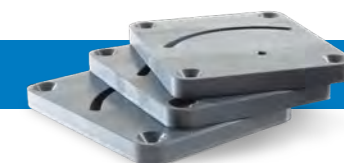
Palsun® UV2 is polycarbonate sheet that is UV resistant on both sides, suitable for safety machine guards, signage, covered walkways, bus shelters, sky lights and exterior applications.

Palsun® AR

Clear

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

Trovidur® Family of Products (PVC)



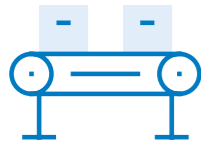
Trovidur® PVC group of products are especially outstanding for their stability, excellent chemical resistance, thermoformability and excellent flame retardant properties.

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.

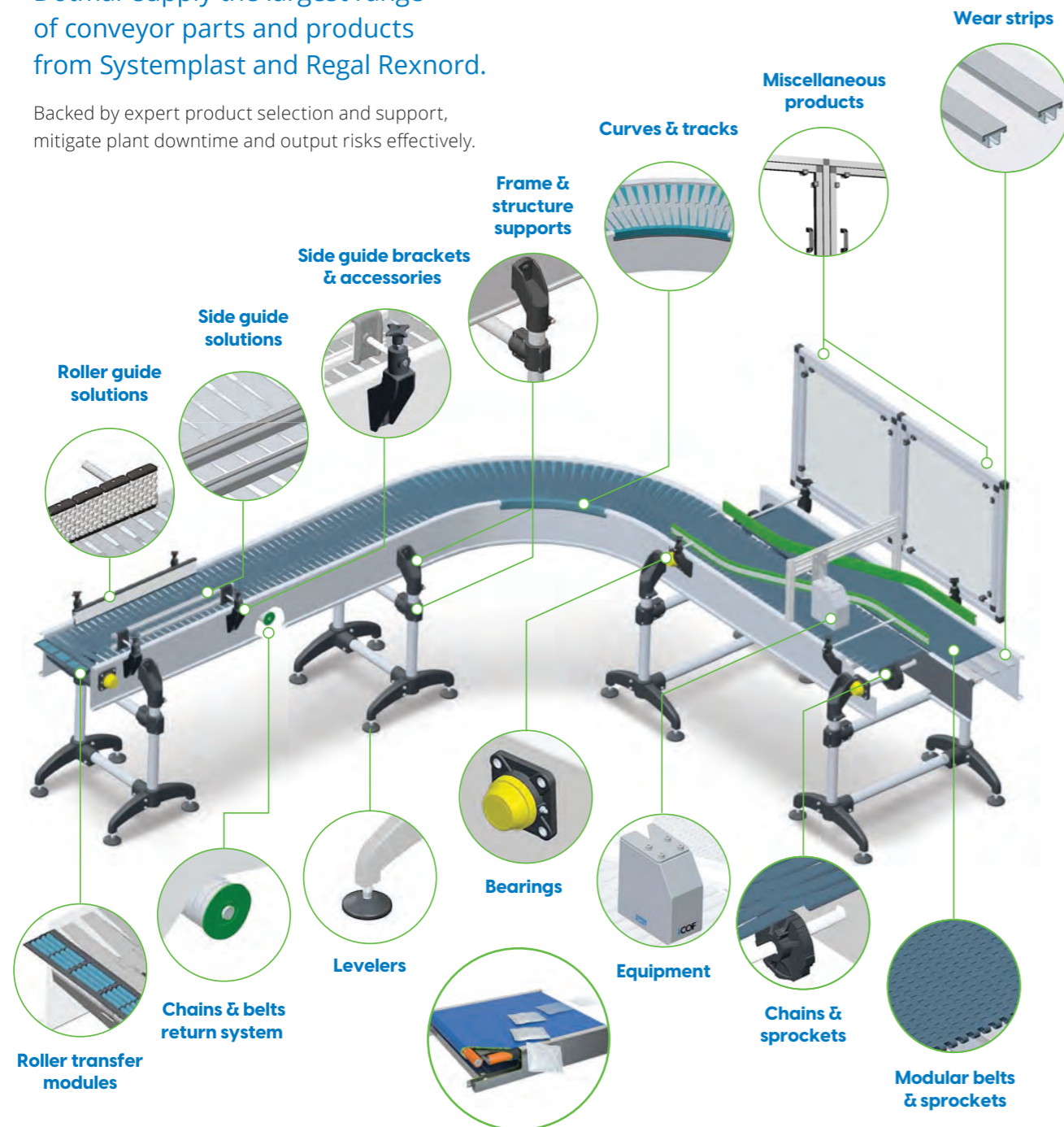




CONVEYOR PARTS AND PRODUCTS

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

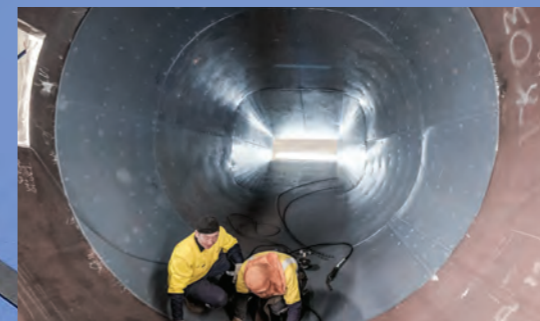
Backed by expert product selection and support, mitigate plant downtime and output risks effectively.



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

MODSO IT **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.

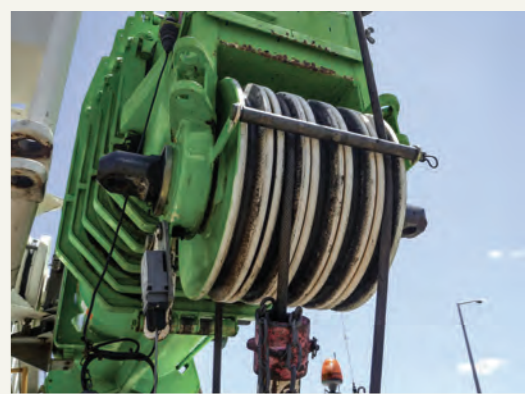
Tailored for bulk solids handling and mining, addressing flow challenges in bins, hoppers, chutes, and more.





Australia
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VICTORIA | NEW SOUTH WALES | QUEENSLAND
SOUTH AUSTRALIA | WESTERN AUSTRALIA

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