

Devol[®]

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PIONEERING
THERMOPLASTIC TECHNOLOGY



OFFICES IN:

EUROPE • USA • SOUTH AFRICA • AUSTRALIA

Devol Engineering Limited

world pioneers in the design, development and manufacture of advanced thermoplastics.

Over 50 different materials available including:

- Devlon
- Nylon
- Acetal
- PTFE
- PES
- PP
- Devlube
- UHMWPE
- PEEK
- PPS
- PVC
- ABS

The components produced by Devol directly replace and improve upon the performance levels offered by:

- Bronze
- Brass
- Hardened steel
- Laminates
- Incorrectly specified low performance plastics

Devol:

- Increases component life
- Extends life of mating parts
- Increases greasing and service intervals
- Is cost effective
- Does not require special fitting tools
- Is lightweight and easy handling



With the high operating costs involved in the earth-moving, mining and quarrying industries, plant users are demanding more efficient, reliable and cost effective equipment. Manufacturers recognise this need and are continually looking for ways of improving their equipment in performance and reliability which will give them the edge over their competitors.

Devol Engineering are renowned for the production of high quality, durable components made from polymers which are directly interchangeable with existing units, are corrosion free, have superior wear characteristics and offer a substantial weight saving.

In addition to manufacturing superior components, we pride ourselves on our exclusive "idea to innovation" service. Working in tandem with clients, Devol provide unique solutions to engineering problems, combining technical expertise, project management and state of the art equipment to offer optimal solutions to difficult application problems.

Through our innovative approach Devol identify areas where our materials will enhance performance and offer cost savings. The type of material we select from our range depends upon the demands of the application, and then we use the most modern CAD technology to model and design components. We also offer a prototype service which helps to reduce costs for clients. Devol works closely with the client throughout the development process and only when the client is satisfied is the design communicated to the factory where bespoke manufacturing capabilities allow us to machine individually tailored products for use in the most demanding environments.

DESIGNED TO PERFORM - ENGINEERED TO LAST



BUSHES & BEARINGS

*'However challenging the project,
we can provide the skills and
expertise to meet it'*

Stuart Dalrymple - Managing Director

ADVANTAGES

- Directly interchangeable with existing components - replaces inferior bronze, steel and thermosett materials
- Significantly extended bush and shaft life
- Low friction results in outstanding wear resistance
- Maximum utilisation of contact area to reduce surface pressure
- Little/no lubrication required – extended greasing intervals
- Lightweight and corrosion free
- Reduces service downtime

APPLICATIONS

- Oscillating hitch bushes
- Bucket pivot and linkage bushes
- Dipper arm and boom bushes
- Balance beam pivot bushes
- Tipping link bushes
- Lift arm bushes
- Mast tilt bushes
- Hydraulic cylinder bushes
- Stabiliser leg bushes
- Track rod end bushes
- Steering bushes
- Axle pivot bushes



Deyol[®]

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PULLEYS & SHEAVES

ADVANTAGES

- Significant extension in wire rope life
- Lightweight, easy handling, reduction on boom load
- High load capacity due to increased surface contact area
- Excellent resistance to abrasion
- Robust and impact resistant
- Reduces weight of boom
- Increases stability and lifting capacity

APPLICATIONS

- Mobile cranes
- Lattice boom cranes
- Truck mounted cranes
- Railroad cranes
- Overhead cranes
- Forklift hose sheaves
- Vehicle winches
- Cable driven conveyors



*'Our focus is simple:
To meet your needs and budget on
specification and on time,
every time.'*

Graham Adair - Technical Sales



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WEAR PADS & WEAR SLIDES

ADVANTAGES

- Unique Devlube material renowned for low friction, sliding properties
- No lubrication required
- Low friction eliminates slip stick
- Excellent wear/abrasion resistance
- Enables higher load bearing capacities
- Ease of fitting means reduced downtime
- Increased reliability of machine

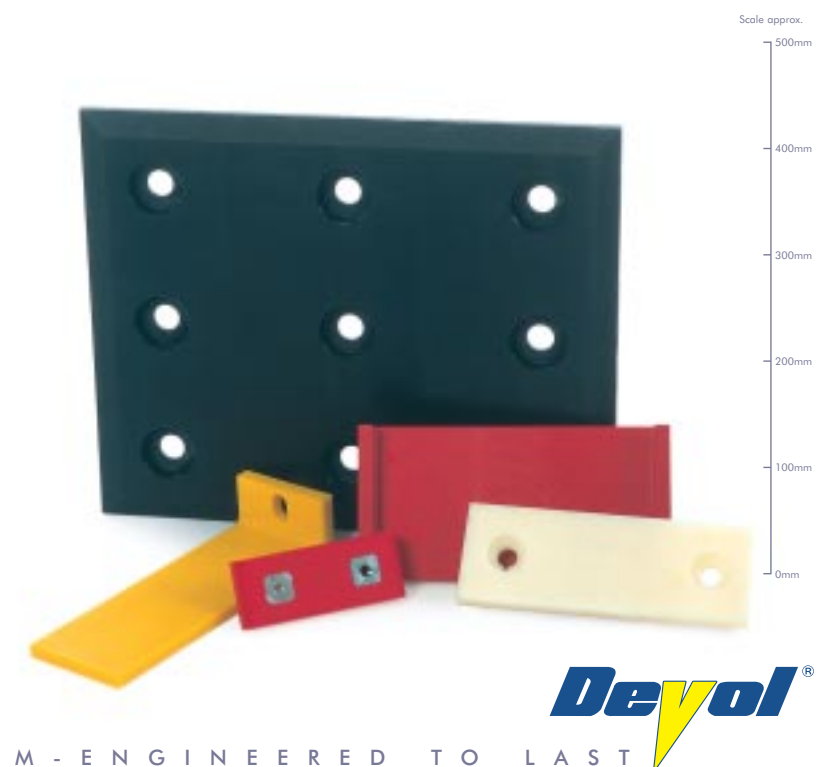
APPLICATIONS

- Telehandler booms
- Telescopic cranes
- Stabiliser legs
- Loaders and excavators
- Aerial work platforms
- Extending drill booms
- Container carriers



'We don't subcontract - we maintain our own skills base of professional staff who are trained to the highest standards. People you can trust.'

Graham Stark - Operations



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'Devol operates a process-based management system certified to ISO9001:2000'

Neil Hendry - QA

CUSTOMISED COMPONENTS

STABILISER FEET

- Lightweight
- Robust and impact resistant
- Operational cost saving due to faster change out
- Provides hardwearing steady platform
- Aids structural integrity



UNDERCARRIAGE ROLLERS & BUSHES

- Components fully replace bronze and steel
- Lightweight
- Withstand hostile environments

WASHERS

- Low friction ensures smooth operation
- Eliminates metal to metal wear
- Significant cost savings
- Increased part life means reduced downtime

ROLLERS

- Eliminates wear on path ring and trunnion
- Reduces noise
- One seventh the weight of steel
- High load bearing capability
- Reduces power consumption



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