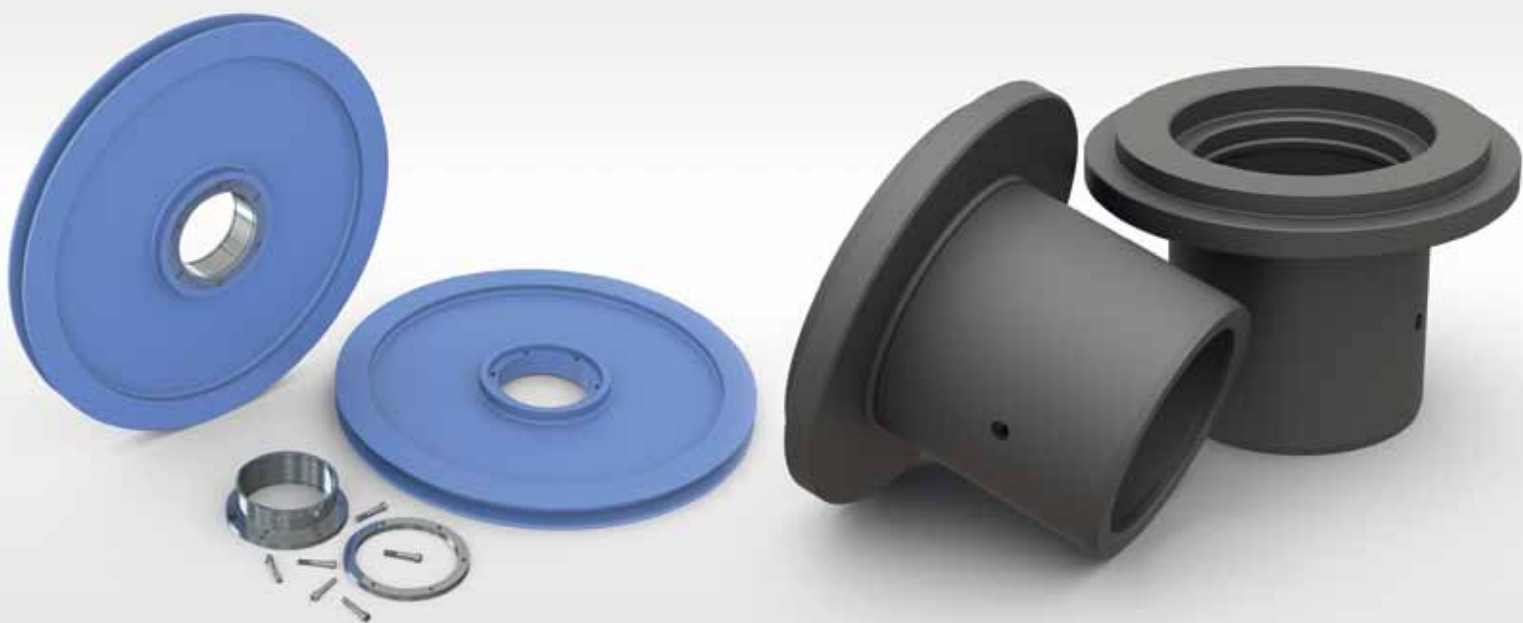


James Walker®

Devlon® engineered thermoplastic components



Construction, quarrying and mining industries

Issue 2

Innovative Thermoplastic Engineering



Devlon® engineered thermoplastics

Our comprehensive range of engineered thermoplastics are amongst the toughest and hardest wearing available.

Produced by monomer casting and extrusion, they provide a comprehensive range of wear resistance, impact strength and toughness with almost limitless application potential.

The advantages over traditional metal components are clear:

- Less expensive
- Approximately 1/6th the weight of bronze
- Zero corrosion
- Low friction
- Resistant to shock loading
- Significantly improved lifespan
- Exceptional resistance to wear
- Does not support marine growth

SUPPORT ROLLERS & THRUST ROLLERS

Typical applications include:

- Rotary drum dryers
- Conveyors
- Rotary screens

The benefits of Devlon® rollers are:

- They are lighter than steel and therefore easier to handle
- Zero corrosion
- Wear on the path ring is eliminated
- Noise is reduced

SHEAVES & PULLEYS

Commonly found in cranes and most other lifting equipment, sheaves & pulleys are traditionally manufactured from steel or cast iron.

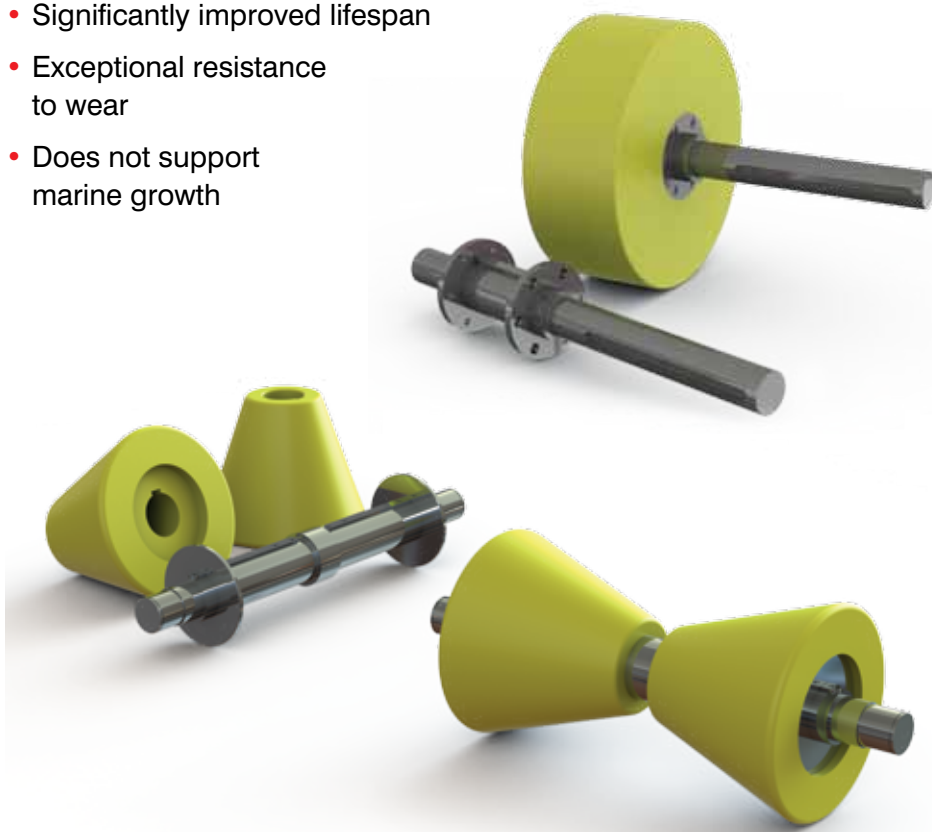
The disadvantages to these materials include excessive wear to the cable/rope, corrosion issues, higher boom weight and on-going maintenance costs.

Typical applications include:

- Mobile cranes
- Lattice boom cranes
- Truck mounted cranes
- Railroad cranes
- Overhead cranes
- Piling equipment
- Drilling rigs
- Vehicle winches
- Boat hoists

Benefits of Devlon® sheaves/pulleys:

- Lightweight – meaning they reduce the load on the boom and are easier to handle
- Significant extension in wire rope life
- Excellent resistance to abrasion
- Increased stability and lifting capacity
- Improved vibration damping
- Higher load capacity due to increased surface contact area



Devlon® engineered thermoplastics

BUSHES & BEARINGS

Commonly found in large vehicles and lifting equipment, bushes and bearings are traditionally manufactured from bronze, steel or thermoset / laminate materials.

Typical applications include:

- Oscillating hitch bushes
- Bucket pivot and linkage bushes
- Balance beam pivot bushes
- Steering bushes
- Axle pivot bushes
- Lift arm bushes
- Mast tilt bushes
- Stabiliser leg bushes

Benefits of Devlon® bushes & bearings:

- Directly interchangeable with existing components so simple to replace bronze, steel parts
- Significantly extended bush and shaft life
- Low friction and outstanding wear resistance
- Little or no lubrication required, therefore extending greasing intervals
- Service downtime is reduced
- Corrosion free

WEAR PADS & SLIDES

These parts are typically found in applications where they protect moving steel parts, such as telescopic booms and piling equipment.

Typical applications include:

- Telescopic cranes
- Stabiliser legs
- Loaders and excavators
- Aerial work platforms

Benefits of Devlon® wear pads & slides:

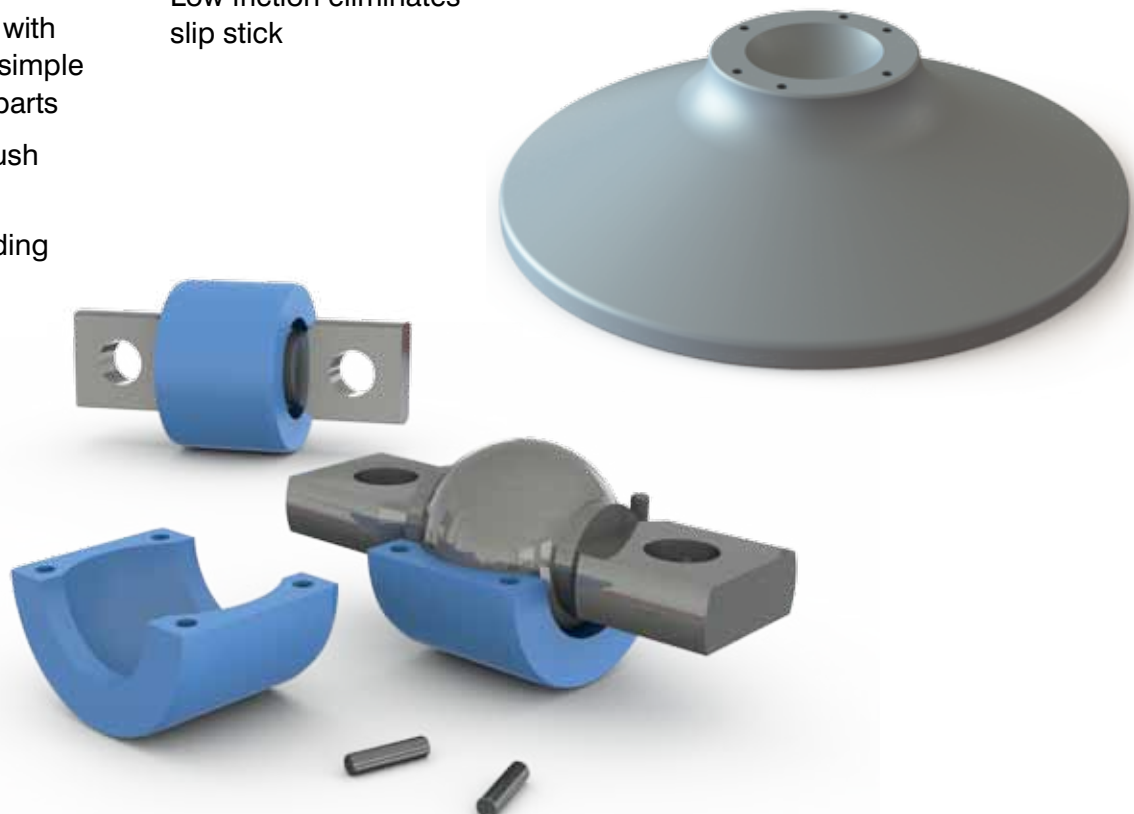
- No lubrication required
- No corrosion
- Excellent wear/abrasion resistance
- Low friction eliminates slip stick

OUTRIGGER FEET

These parts are used on machinery such as mobile drilling rigs and telescopic booms. They act as a support and provide a hardwearing, steady platform.

The benefits of using Devlon® for these parts include:

- Lightweight
- Robust
- Impact resistant
- Operational cost saving as a result of the parts being lighter and faster to change



James Walker worldwide support & distribution

James Walker Asia Pacific

Tel: +65 6715 6300
Fax: +65 6715 6301
sales.sg@jameswalker.biz

James Walker Australia

Tel: +61 (0)2 9721 9500
Fax: +61 (0)2 9721 9580
sales.au@jameswalker.biz

James Walker Benelux (Belgium)

Tel: +32 3 820 7900
Fax: +32 3 828 5484
sales.be@jameswalker.biz

(Netherlands)

Tel: +31 (0)186 633111
Fax: +31 (0)186 633110
sales.nl@jameswalker.biz

James Walker Brasil

Tel: +55 11 4392 7360
Fax: +55 11 4392 5976
sales.br@jameswalker.biz

James Walker China

Tel: +86 21 6876 9351
Fax: +86 21 6876 9352
sales.cn@jameswalker.biz

James Walker Deutschland

Tel: +49 (0)40 386 0810
Fax: +49 (0)40 389 3230
sales.de@jameswalker.biz

James Walker France

Tel: +33 (0)437 497 480
Fax: +33 (0)437 497 483
sales.fr@jameswalker.biz

James Walker Iberica

Tel: +34 94 447 0099
Fax: +34 94 447 1077
sales.es@jameswalker.biz

James Walker Inmarco (India)

Tel: +91 (0)22 4080 8080
Fax: +91 (0)22 2859 6220
lionpak@jwinmarco.com

James Walker Ireland

Tel: +353 (0)21 432 3626
Fax: +353 (0)21 432 3623
sales.ie@jameswalker.biz

James Walker Italiana

Tel: +39 02 257 8308
Fax: +39 02 263 00487
sales.it@jameswalker.biz

James Walker Middle East

Tel: +971 4 817 8888
sales.jwme@jameswalker.biz

James Walker Mfg (USA)

Tel: +1 708 754 4020
Fax: +1 708 754 4058
sales.jwmfg.us@jameswalker.biz

James Walker New Zealand

Tel: +64 (0)9 272 1599
Fax: +64 (0)9 272 3061
sales.nz@jameswalker.biz

James Walker Norge

Tel: +47 22 75 75 00
sales.no@jameswalker.biz

James Walker Oil & Gas (USA)

Tel: +1 281 875 0002
Fax: +1 281 875 0188
oilandgas@jameswalker.biz

James Walker South Africa

Tel: +27 (0)31 304 0770
Fax: +27 (0)31 304 0791
sales.za@jameswalker.biz

James Walker UK

Tel: +44 (0)1270 536000
Fax: +44 (0)1270 536100
sales.uk@jameswalker.biz

Information given in this publication is given in good faith and represents the results of specific individual tests carried out by James Walker in accordance with the methodologies described in this publication, performed in a laboratory. No representation or warranty is given in relation to such information. Values and/or operating limits given in this publication are not an indication that these values and/or operating limits can be applied simultaneously. While such results may comprise useful additional information and are industry standard tests, they are no substitute for conducting (or procuring from James Walker) your own tests and engineering analysis and satisfying yourself as to the suitability of the material you select. Please also note that material tested in accordance with the published methodology may not perform to such values in application and/or under different test conditions or methodologies for a variety of reasons, including but not limited to the environment in which it is used/tested or which passes through it or otherwise affects the material, or due to the design of the product made with the material, handling, storage or installation, or due to the effect of housing or other parts. Our personnel will be happy to discuss any historical examples we have of the material having been previously used in a particular application.

Environmental statement: This brochure is manufactured using advanced environmentally friendly technologies and follows the strict environmental standard BS EN ISO 14001. Made from chlorine-free pulp (ECF) with post-consumer recycled fibre obtained from sustainable wood forests, and printed using vegetable-based inks, by Binfield Printers Ltd. For those who wish to reduce further their impact on the environment, this publication is also available as a PDF from: www.jameswalker.biz