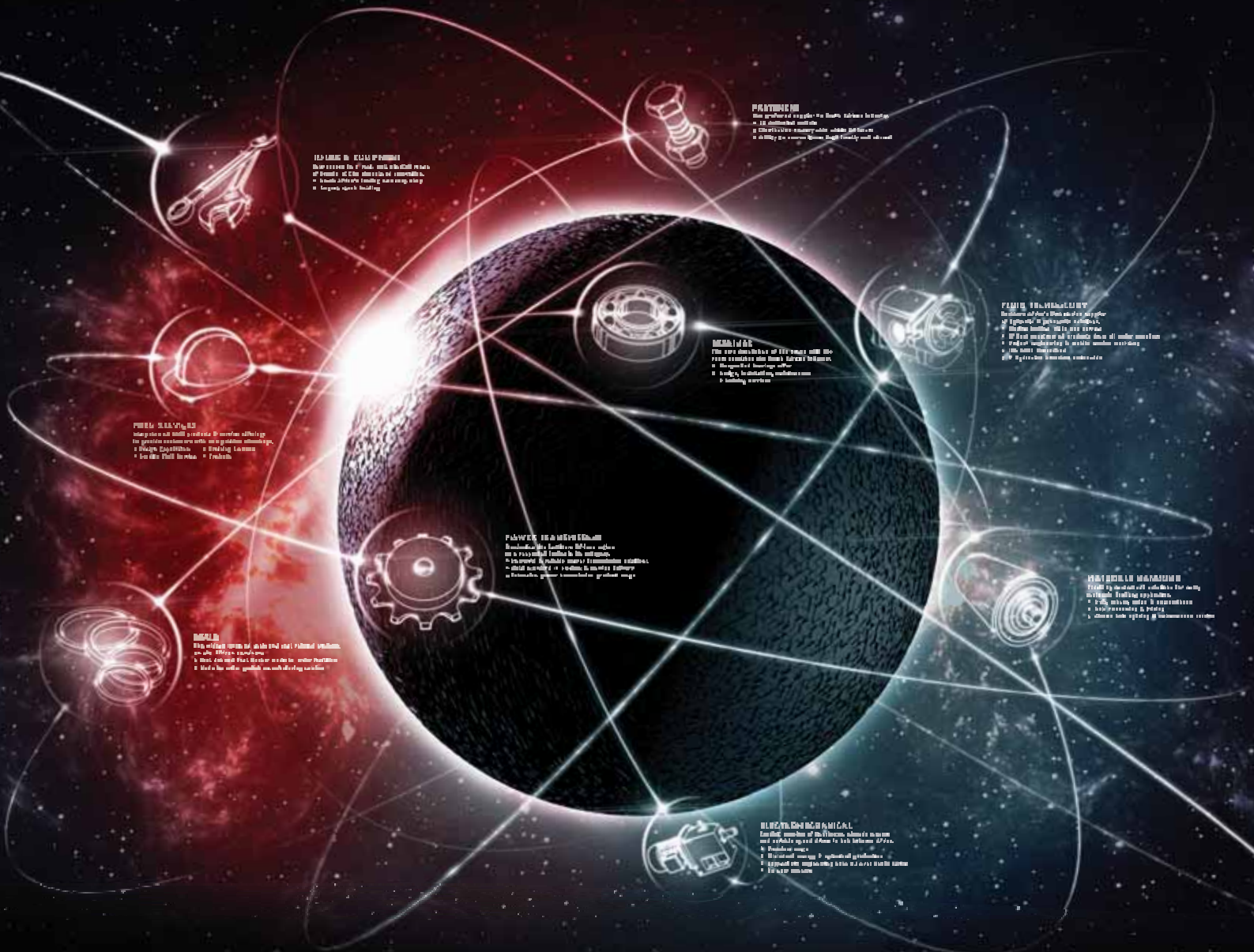


Quality Components    Technical Expertise    Superior Service

# PART OF THE PROCESS



**TECHNICAL EXPERTISE**  
Our experts are at your service to provide you with the best technical advice and support, ensuring your system is designed and built to last.

**QUALITY COMPONENTS**  
We provide a wide range of high-quality components, ensuring your system is built to last and meets all your requirements.

**GLOBAL CONNECTIVITY**  
Our global network of experts and service centers ensures you can get the support you need, wherever you are.

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**BEE3**  
VALUE ADD SUPPLIER

ISO 9001 Certified

Maintain full operational capacity all year round, with BMG's all-encompassing range of products and services.

## PROGRESSING WITH PURPOSE

Since 1974, with the establishment of a small bearing shop in Durban, our company has consistently extended its product and service offerings and enjoyed a proud history of opportunity-driven expansion. This expansion has spearheaded the continuous evolution into the consolidated powerhouse that is BMG.

- A major company within Invicta Holdings Limited.
- Annual turnover in excess of R4 billion (2016)
- More than 3000 employees - experts in every field in which BMG operates.
- Unrivalled product availability from more than 120 locations.
- Total customer support from spare part supply to engineered solutions and site-work.

**BEE3**

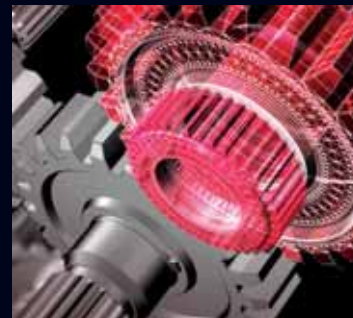
VALUE ADD SUPPLIER

ISO 9001 Certified



Our continually expanding product and service ranges now cover 10 broadly defined disciplines and comprehensively cater for all industrial sectors. This breadth and scope uniquely positions BMG as an all encompassing solutions provider with the ability to combine products and services to solve productivity issues on entire production processes.

**BEARINGS • SEALS • POWER TRANSMISSION • DRIVES & MOTORS**  
**MATERIALS HANDLING • FASTENERS & TOOLS • FILTRATION • HYDRAULICS**  
**LUBRICATION • TECHNICAL RESOURCES • FIELD SERVICE**







*As Africa's leading distributor of engineering components, BMG offers a convenient, single source of supply to industries across the continent.*

## A PART TO PLAY IN EVERY PROCESS

Every day, machines are put to work, powering mass production and driving modern industries forward. Inside every machine, a multitude of parts are hard at work, the role of each and every component is quintessential to the machine's operation and has a vital part to play in the ongoing pursuit of maximised productivity. At both micro and macro levels, from the smallest bearing to larger drive systems, BMG's engineering components all contribute to the full spectrum of production operations.

All of these products help position BMG as an integral and essential PART OF INDUSTRIAL PROCESSES. BMG is relied upon to keep machinery running, powering the mighty, relentless rhythm of progress.

# PART OF THE PROCESS



*BMG offers and maintains a comprehensive, unrivalled inventory of product by sourcing the best quality engineering components from around the globe.*

## **BRINGING IN THE WORLD'S BEST BRANDS.**

In the bid to procure cutting-edge components at competitive prices, BMG is able to capitalise on long-standing relationships with leading manufacturers dedicated to excellence in design and production.

Products are imported from countries including China, Germany, Japan, United Kingdom and USA.

These products are brought to BMG's strategically located distribution facilities and regional service centres via the main distribution hub in Johannesburg.

It's in these warehouses that shipments are sorted, allocated and re-bundled according to the unique requirements of specific orders and contracts.



## GETTING THEM OUT TO YOU.

*Products & Services are distributed via BMG's extensive distribution network. It's through the sheer size and reach of our infrastructure, that BMG can be found wherever industry has established itself; delivering the correct components at the right time, to the far-flung coalfaces of our customers' operations.*



## EXTENSIVE STOCKHOLDING CAPABILITIES

- 60 000 sqm of warehousing.
- Over 250 000 product line items.
- Around 4 000 transfers per day out of central warehouses in Johannesburg.
- Over 1 000 tons of imported stock landing per month.

## A FORMIDABLE FOOTPRINT

- Over 160 strategically situated branches throughout Southern Africa.
- Vendor Managed Inventory sites (dedicated on-site stockholding).
- Our Exports Division further supplies to a number of other countries across Africa.
- Locally empowered distribution chains.

Quality Components





*We don't JUST sell parts. In order to achieve our vision of truly enhancing every customer's operations - to truly add value – it's essential that our Quality Components are also bolstered by real Technical Expertise.*



ACADEMY OF  
EXCELLENCE

## A MINDSET OF CONTINUED LEARNING.

To foster this technical expertise, we cultivate a mindset of continued learning and personal development in our people. Our in-house Academy of Excellence is accredited by MERSETA to conduct learnerships which equips all staff with the skills and knowledge necessary to more effectively meet the needs of our customers and their industry requirements. Through this resource, we train our people and ensure a continual supply of talent into the BMG organisation.

- The expertise to properly evaluate each client's production operations with a specialist authority.
- The competence required to ensure the best possible selection, application and operation of our products!





## A DEDICATED TEAM DELIVERING SPECIALIST KNOWLEDGE AND EXPERT ACTION.

*Our Technical Resources team delivers a variety of specialist services on-site, in sync with customer needs for enhanced operational efficiency and maximised productivity. From custom design capabilities, to on-site maintenance and support, plus classroom and hands-on training to enhance customer knowledge.*

### CORE SERVICES

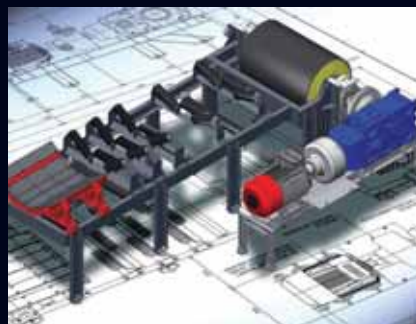
- Manufacturing area & capability
- On-site breakdown maintenance, repair and refurbishment.
- Product installation, commissioning and trouble shooting.
- Planned maintenance and service contracts.
- Preventative maintenance and condition monitoring (predictive maintenance).
- Laser alignment and balancing.
- Oil analysis and thermographic studies.



### SPECIALIST OFFERINGS

- Customised product design.
- System design and evaluation.
- Reliability investigations and recommendations.
- Energy efficiency studies with suggested improvements.
- Project management.
- Unitary and bulk materials handling design and installations.

Technical Expertise

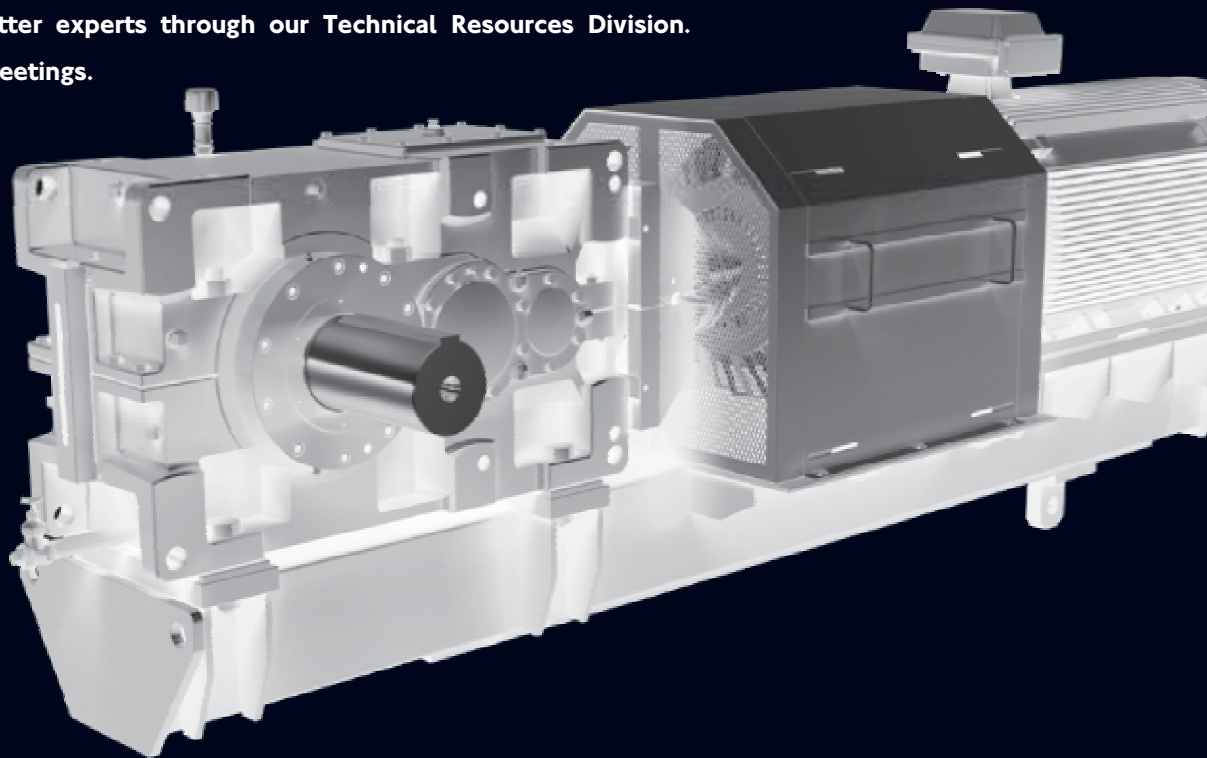


*It's by virtue of our technical competencies, combined with the quality of our inimitable product offering, that BMG is able to deliver on the 3<sup>rd</sup> aspect of our promise: that of SUPERIOR SERVICE.*

*Our dedicated OE projects division manages projects from initial scope of work to final delivery – all from a single point of contact. Appropriate design, the correct specification of product, performance and delivery are thereby ensured.*

## **PROJECT MANAGEMENT**

- **Project description.**
- **Project specifications.**
- **Deliverables.**
- **Documentation- Technical & commercial.**
- **Comprehensive quotation.**
- **General arrangement drawing.**
- **Microsoft project program at various intervals.**
- **Work breakdown structure.**
- **Subject matter experts through our Technical Resources Division.**
- **Progress meetings.**





# Superior Service

Provided 24 hours a day, throughout the year, BMG offers a service that satisfies the requirements of continuous process and multi-shift operations. It's an integral part of our mission to offer one source of supply to the replacement, resale and OEM markets.

It's a trusted offering that sets BMG apart in a competitive marketplace, backed up by a sought-after ISO 9001 quality certification.

This guarantees our activities conform to the highest quality assurance standards and has already established BMG as an engineering partner to many prestigious companies and organisations.

BMG 's embodied by a unified team of skilled, experienced and motivated people that get involved in meaningful client consultation; offering expert advice with added insight and foresight in relation to our products. We strive to be an integral part of our clients' business, their productivity and their operations.

BMG. Proud contributors to your success...

**PART OF YOUR PROCESS!**

**ISO 9001** Certified

**24hr DISTRIBUTION & SERVICE**





# BEARINGS

Bearings are the firm foundation on which BMG was established, and after 40 years of nurturing strong relationships with customers and world-leading brands alike, the extensive product range remains a major element of BMG's operations.

BMG proudly supplies the full range of bearing products and associated components to industry, helping to maximise operational up-time at steel mills, mines, power stations, motor assembly plants and major agro-industrial producers.

The extensive, unbeaten BMG product range includes bearings in all sizes, from giant steel mill bearings to miniature bearings, as well as all related systems and products.

In addition, BMG's unequalled bearings offer is bolstered by training, design, installation and maintenance services from BMG's Technical Resources Division to ensure a full basket of benefits for customers.

- **Ball bearings**
- **Roller bearings**
- **Super precision bearings**
- **Miniature bearings**
- **Ball bearing units**
- **Spherical roller housed units**
- **Plummer blocks, sleeves & accessories**
- **Steel balls & rollers**
- **Needle bearings**
- **Linear way systems**
- **Ball screws**
- **Rod ends & spherical plain bearings**
- **Slewing rings**
- **Split roller bearings**
- **Thin section bearings**
- **Oils & greases**
- **Bearing pullers & heaters**
- **Automotive bearings and components**

**NSK RHP**

**TIMKEN**

**NTN** 

**IKO**



**TR**







# SEALS

BMG boasts the widest range of seals, gaskets and seal-related products on the African continent. With countless applications, BMG seals are truly Part of the Process, fulfilling vital functions in the demanding environments of numerous industries. BMG stocks only the world's best, innovation-driven Sealing brands.

In addition to an extensive stock holding of seal products, customised seals can be manufactured using our own CNC Seal Manufacturing made-to-order facilities, allowing BMG to meet customer requirements with precision, accuracy and 100% home-grown capabilities. These machines are strategically situated in Johannesburg, Durban and Cape Town and manufacture a wide range of seals, o-rings and special profiles from multiple materials up to 520 millimetres in diameter.

The entire compliment of sealing and gasket products is available from stock, or to order through BMG branches and exclusive seals outlets trading as BMG Sealco. These specialist branches have extensive expertise in hydraulic cylinder sealing and cater to the niche needs of Earthmoving, Mining, Agricultural and Manufacturing industries.

A complete gasket manufacturing capabilities using CNC machinery as well as traditional press cut methods for small quantities produces a comprehensive range of gaskets from most commonly used materials.

## SEALS

- Industrial rotary shaft seals
- Torric / face seals
- V rings
- Hydraulic cylinder seal kits for earthmoving equipment
- Hydraulic seals
- Pneumatic seals
- Custom-made seals
- O-rings & back-up rings
- O-ring kits & cord
- Rotary / union couplings
- Circlips & circlip kits
- Single spring mechanical seals
- Gland packing
- Nilos rings
- Bonded washers
- Waved washers
- Bearing isolators
- Expansion joints
- Hydraulic & industrial hose & fittings
- Sealants & adhesives

## GASKETS

- Graphite sheeting & gaskets
- Rubber sheeting & gaskets
- Cork sheeting & gaskets
- Camprofile gaskets
- Boiler accessories
- Compressed fibre sheeting & gaskets
- PTFE sheeting & gaskets
- Flexoid sheeting & gaskets
- Spiral wound gaskets
- Halo seal gaskets
- Insulation products
- Expanded PTFE products







# POWER TRANSMISSION

BMG's vast range of Power Transmission products dominates the sub Saharan region and is the respected leader in its category.

BMG Power Transmission has the exclusive distribution rights to world renowned brands like Fenner, Tsubaki and Rexnord, allowing BMG to bring our full, cutting-edge product range to customers' facilities where powerful, reliable power transmission solutions are a necessity.

BMG has established a facility where special attachment chains are assembled to exact requirements in under a week. A wide range of Tsubaki attachments are available on any suitable American or British chainproduct up to 50 metres in length.

BMG's extensive Power Transmission product range includes Ironware, Chain, Drive Belts and Agricultural Components. This offering is continually being extended through the sourcing of innovative new solutions ensuring that BMG continuously sets premier standards in product and service delivery.

## CHAIN

- Cable carrier chains
- Transmission & conveyor chain
- Slat top chain
- Drop forged chain
- Overhead conveyor systems
- Elevator chain
- Linear actuators
- Energy / drag chain
- Cam clutches / back stops

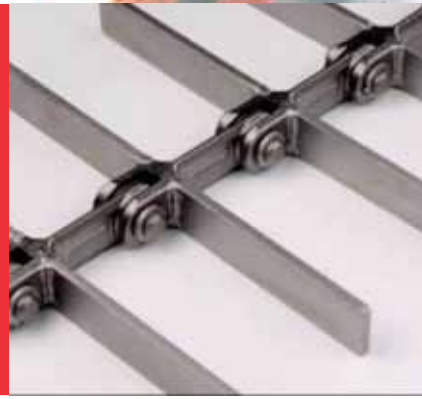
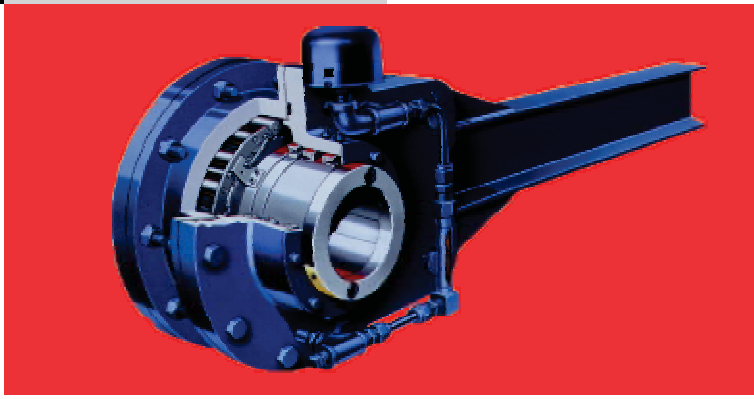
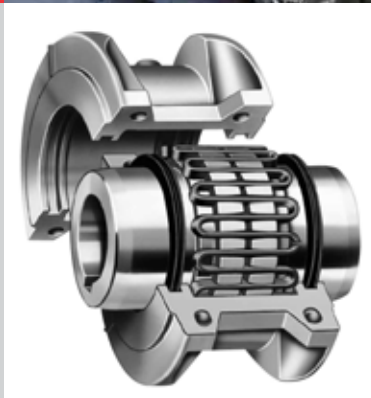
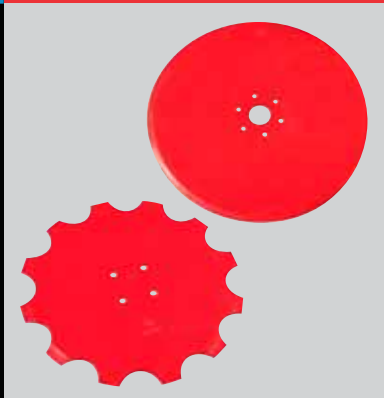
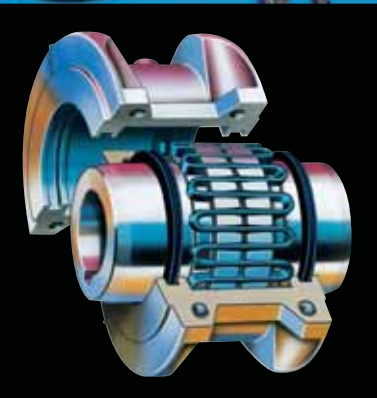
## DRIVE BELTS

- V & wedge belts
- Powertwist / Powerlink belts
- Variable speed belts
- Banded belts
- Timing belts
- Poly vee belts
- Synchronous belts

## IRONWARE

- Couplings for all applications
- Full range of pulleys
- Sprockets
- Torque limiters
- Universal joints
- Locking elements
- Bushes
- Bolt & weld on hubs
- Agricultural components







# DRIVES & MOTORS

As a leading supplier of electric motors, gear units and variable speed drives, BMG brings together the world's leading brands to provide versatile motive power solutions to industry and mining alike throughout sub Saharan.

Integrated solutions to every conceivable application in industry and mining are engineered by BMG's wealth of experience in these fields.

Efficiency and reliability are the key consideration factors applied to every BMG drive solution with a critical eye on creating competitive advantage for our customers. For example, in designing the high quality Synergy Series of electric motors, an equal amount of emphasis was placed on energy efficiency and reliability enhancing features. The result is high dependability with low energy consumption. When combined with the ingenuity of Danfoss variable speed drives, the outcome is an unbeatable package.

Operating out of strategically located engineering hubs, BMG Field Service teams provide maintenance services on customers' plant and equipment to achieve smooth, reliable and efficient operation. By drawing from the entire BMG product arsenal, which consists of the very best products the world has to offer, these teams ensure the highest levels of productive capacity for all industry sectors in our region.

## GEARED MOTORS

- Helical
- Worm
- Helical Bevel
- Planetary gear units
- Cycloidal drives
- Custom built gear units
- Speed reducers
- Drive packs

## MOTORS

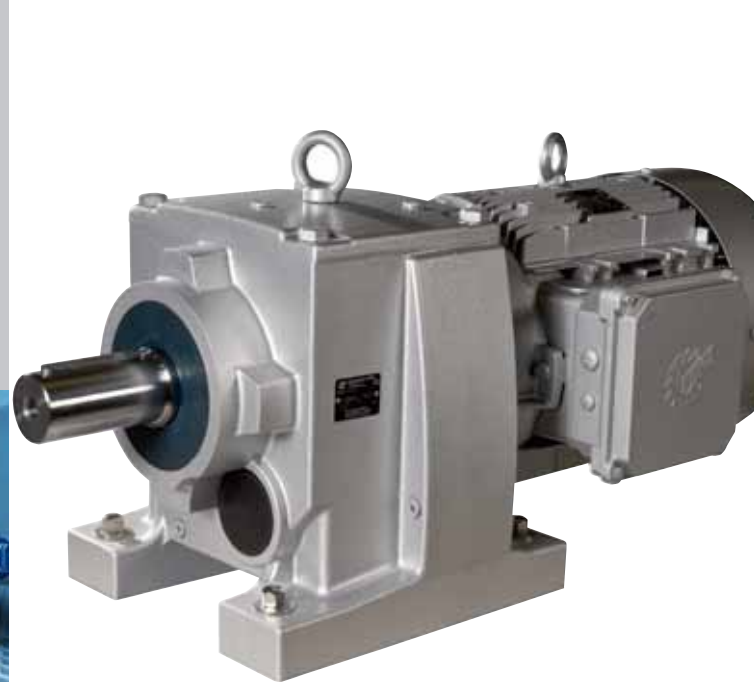
- Single & 3-phase motors
- Cast iron or aluminium
- High voltage motors
- Energy efficiency motors
- Pad mount motors
- Brake motors

## ELECTRONICS

- AC Frequency converters
- Soft starters











# MATERIALS HANDLING

A wide range of products and services associated with general materials handling and conveying are available from BMG. The speciality range caters for both light and bulk materials handling sectors. With conveying equipment forming the backbone of production processes, BMG's response is to offer our customers a comprehensive, ex-stock belt and accessories supply, together with field service installation and repair services.

A wide range of products and brands are sourced from the world's most renowned conveyor and transmission belt manufacturers to satisfy the needs of both light and bulk materials handling applications.

'Light Materials' products include synthetic, polyamide and light duty rubber belting, belt fasteners, extruded polyurethanes, modular and slat top chain and conveyor components. 'Bulk Materials Handling' products encompass heavy rubber, PVC solid woven, belt fasteners, elevator products, belt care products, conveyor frames, idlers and screen panels. Furthermore, BMG's own heavy rubber conveyor belting range has been manufactured to SABS standards to ensure that it meets South Africa's unique operational conditions.

BMG is acutely aware that conveying systems are very often at the heart of manufacturing and mining processes and that reliability, as well as rapid response when production is interrupted, are vital service elements that can have major financial implications for continuous process and multi-shift operations.

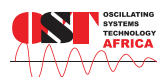
BMG is acutely aware that conveying systems are very often at the heart of manufacturing and mining processes and that reliability, as well as rapid response when production is interrupted, are vital service elements that can have major financial implications for continuous process and multi-shift operations. Therefore, in addition to our Engineering Hubs that perform fabrication operations such as belt conversion and joining, we are also proud to offer a sophisticated on site belt splicing and maintenance service that brings our expertise right into the customer's operation.

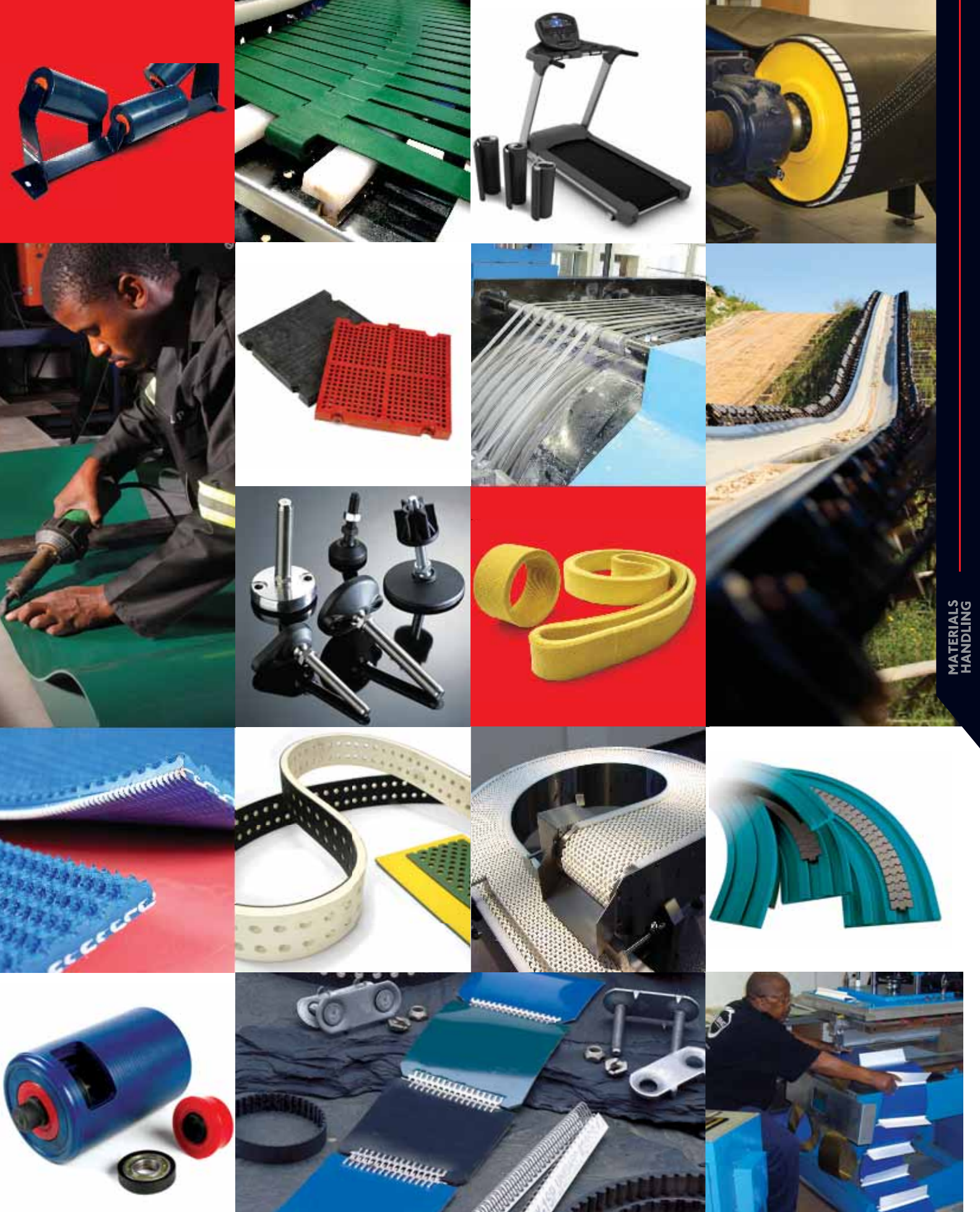
## LIGHT MATERIALS HANDLING

- Synthetic conveyor & process belts
- Engineered belts
- Food quality conveyor belts
- Modular belting
- High performance flat belts
- Belt fasteners
- Endless woven belts
- Slat top chain
- Conveyor components

## HEAVY MATERIALS HANDLING

- Plyed rubber belting
- PVC solid woven belting
- Conveyor frames & idlers
- Belt care products
- Elevator products
- Screen panels
- Conveyor belt maintenance training courses
- Conveyor belt splice training - cold method







# FASTENERS & TOOLS

BMG has swiftly become a preferred supplier of Tools and Fasteners to the Southern African industry. Not only do we offer the largest local stock holding fasteners, but we are establishing ourselves as the country's one-stop shop for related hand and power tools, PPE, welding, lifting & rigging.

BMG's infrastructure enables customers to enjoy easy access to a vast, well-stocked range of key brands and products at the pinnacle of insight-driven innovation and rock-solid reliability. The range has grown exponentially, and now includes well known brands in the Tooling and Abrasives market to compliment the traditional fasteners range.

The principal Tools & Fasteners distribution centre is located in Johannesburg, with satellite warehouse in other major industry centres around South Africa. In addition, fasteners are also available from the majority of the group's branches and a growing number of specialist retail tool & equipment outlets.

Our service offering in this product range is bolstered by the ability to source non-stocked fasteners and tools countrywide within 24 hours.

## FASTENERS

- Bolts
- Nuts
- Washers
- Rivets
- Cap screws
- Threaded rod
- Anchors
- Screws

## TOOLS

- Tool kits
- Hand tools
- Abrasives
- Drill bits
- Electric power tools
- Pneumatic power tools
- Personal Protection Equipment (PPE)
- High pressure cleaning equipment
- Lock & lockout systems
- Cutting & drilling tools
- Electrical test equipment
- Hydraulic tools
- Lifting & rigging equipment
- Cleaning products & absorbents
- Welding equipment & accessories
- Workshop equipment & machinery







# FILTRATION

BMG Fluid Technology's Filtration projects efficiently serve a wide range of industries including petrochemical, power generation, mining, manufacturing, bulk fuel and oil solutions.

The South African filtration market is following international trends as it recognises the importance of using ISO4406 cleanliness level for fuels and oils. Prevention and control of contamination of water and particulate is vitally important to the reliability and long term performance and life extension of machinery, equipment and vehicles.

Filtration solutions sourced from the world's top suppliers are supported by knowledgeable BMG technicians and engineers, who in turn, draw on the global experience of our suppliers to ensure that you receive the best possible filtration solutions.

## PRODUCT RANGE

- Low, medium and high pressure filters
- Filler breathers
- Suction filters
- Monitoring equipment
- Bulk filtration systems - fuel and oils
- Pre-filter and fine filtration manifolds
- Mobile filtration equipment
- Onsite installation and commissioning
- Y, magnetic and basket strainers
- Filtration training
- Reusable magnetic pads











# HYDRAULICS

By combining years of knowledge and experience with state of the art technology to deliver first rate reliable hydraulic solutions, BMG has become Southern Africa's first choice provider. BMG's ability to offer a market leading all in one service has been solidified, and draws on decades of accumulated expertise, relationships and resources.

BMG stocks the widest spectrum of hydraulic products from leading manufacturers such as Eaton Vickers, Kawasaki Staffa, OMT, Marzocchi, Galtech, EPE, Oleoweb, ISO, Pilan and Emmegi.

Supporting this product offering are value-added services that include project engineering and a mobile service workshop that swiftly bring solutions straight to customers. All work is ISO 9001 accredited.

The extensive knowledge of the hydraulics workforce, which is empowered through continual training, is the foundation on which BMG's success in this field is built. Customers also benefit from courses, including hands on competency training that exceeds requirements laid down by the SA Fluid Power Association.

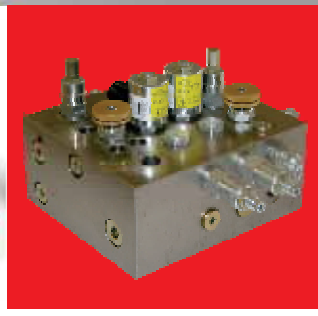
## PRODUCT RANGE

- **Accumulators - bladder and diaphragms**
- **Cylinders - industrial and tie rod**
- **Heat exchangers - air blast and stack/tube**
- **Hydraulic motors - gear, vane, orbital and radial piston**
- **Enerpac hydraulic**
- **Reservoir accessories - bell housings, couplings, filters, breathers, level and pressure gauges**
- **Pumps - gear, piston and vane**
- **Bieri - high pressure hydraulic equipment**

## HYDRAULIC SERVICES

- **Hydraulic testing and repair facilities**
- **Project engineering and consulting**
- **Mobile service workshop**
- **Cylinder design and manufacture**
- **Cylinder repair and testing**
- **Manifold design and manufacture**





HYDRAULICS



# LUBRICATION

BMG Fluid Technology is proud to represent exclusive brands and quality products which are recognised market leaders in their respective areas of operation. The OMSA brand has carved out a unique position in the South African market as the leading supplier of complete turnkey lubrication and filtration installations. Complimentary to the lubrication systems are industrial valves, process measurement, condition monitoring and control instruments used in the build of these systems.

It is important to note that BMG Fluid Technology supply approximately 80% of the components used in the build of a lubrication system from products managed and distributed directly by BMG. This provides a unique level of control as to the quality and after sales support for systems that are in the field.

Added to this is the Bijur Delimon product range which is a world leader in light and heavy industry centralized lubrication equipment for oil and grease. A fully automated centralized lubrication system ensures operational safety, long service, life, low maintenance requirements along with minimal lubricant consumption and eco-friendliness.

A comprehensive range of oil and grease drum pumps with the required ancillary equipment completes the lubrication range.

Each system is engineered and customized for each unique application and is in accordance with customer requirements / specifications.

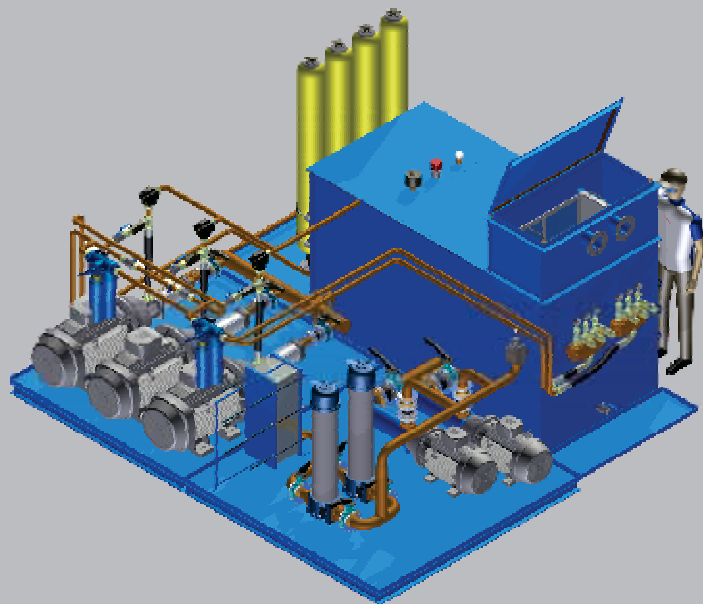
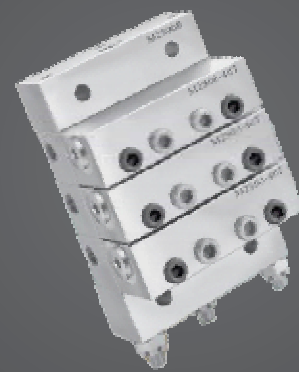
## CAPABILITIES:

- Technical Appraisal
- Design
- Engineering
- Manufacture
- System Development
- Installation
- Commissioning
- Servicing
- Maintenance
- Repairs

## PRODUCTS & SERVICES:

- Centralized Grease & Oil Lubrication Systems
- Oil Re-Circulation Systems
- Rope Spray Systems
- Railjet Wheel Flange Lubrication
- Girth Gear Spray Systems
- Air/Oil Lubrication Systems
- Drum Pumps for Grease & Oil
- Drip Feed Lubricators
- Spring Feed Lubricators
- Chain Lubrication Systems
- Field Services
  - Installation
  - Commissioning
  - Servicing
  - Repairs





**PUMPRITE**  
EST. 1978

**BIJUR DELIMON**  
INTERNATIONAL



# VALVES

BMG Fluid Technology's Valve offering has expanded and now meets the needs of a wide range of process industries.

We are proud to be exclusive partners of InterApp, manufacturers of manual and actuated butterfly valves with applications in chemical, petrochemical, mining and processing (acid extraction), pharmaceutical and foods and beverage industries. With their ultra-high wear resistance they are the ideal solution when safety and degradation resistance is crucial.

BMG's Valve range includes locally manufactured diaphragm valves available in a wide range of linings to meet any application's requirements. Complementing the diaphragm range is a long and short open frame pinch valve for slurry applications.

Our range of industrial and slurry knife gate valves include valves with hand wheels or actuators, assembled with either EPDM, polyurethane, PTFE or NBR liners and are suitable for abrasive and corrosive applications as well as water and wastewater.

## PRODUCTS & SERVICES

- Diaphragm valves (straight through type)
- Diaphragm valves (weir type)
- Butterfly valves
- Gate valves
- Check valves
- Pinch valves
- Angle seated valves
- Ball valves

## ACCESSORIES

- Pneumatic, hydraulic and electric motors
- Hand wheel operated gearboxes
- Hand wheel or hand lever for manual action
- Positioners, indicators and limit switches
- Replaceable liners for butterfly valves in our range
- Solenoid valves or coils





# CONVERSION CHART

## METRIC - IMPERIAL

NOTE: 1" = 25.4mm

Inch			1"	2"	3"	4"	5"	6"	7"	8"	9"	10"
Fraction	Decimal	mm	mm									
0	0	0.000	25.400	50.800	76.200	101.600	127.000	152.400	177.800	203.200	228.600	254.000
1/64	0.015625	0.397	25.797	51.197	76.597	101.997	127.397	152.797	178.197	203.597	228.997	254.397
1/32	0.03125	0.794	26.194	51.594	76.994	102.394	127.794	153.194	178.594	203.994	229.394	254.794
3/64	0.046875	1.191	26.591	51.991	77.391	102.791	128.191	153.591	178.991	204.391	229.791	255.191
1/16	0.0625	1.588	26.988	52.388	77.788	103.188	128.588	153.988	179.388	204.788	230.188	255.588
5/64	0.078125	1.984	27.384	52.784	78.184	103.584	128.984	154.384	179.784	205.184	230.584	255.984
3/32	0.09375	2.381	27.781	53.181	78.581	103.981	129.381	154.781	180.181	205.581	230.981	256.381
7/64	0.109375	2.778	28.178	53.578	78.978	104.378	129.778	155.178	180.578	205.978	231.378	256.778
1/8	0.125	3.175	28.575	53.975	79.375	104.775	130.175	155.575	180.975	206.375	231.775	257.175
9/64	0.140625	3.572	28.972	54.372	79.772	105.172	130.572	155.972	181.372	206.772	232.172	257.572
5/32	0.15625	3.969	29.369	54.769	80.169	105.569	130.969	156.369	181.769	207.169	232.569	257.969
11/64	0.171875	4.366	29.766	55.166	80.566	105.966	131.366	156.766	182.166	207.566	232.966	258.366
3/16	0.187500	4.762	30.163	55.563	80.963	106.363	131.763	157.163	182.563	207.963	233.363	258.763
13/64	0.203125	5.159	30.559	55.959	81.359	106.759	132.159	157.559	182.959	208.359	233.759	259.159
7/32	0.21875	5.556	30.956	56.356	81.756	107.156	132.556	157.956	183.356	208.756	234.156	259.556
15/64	0.234375	5.953	30.353	56.753	82.153	107.553	132.953	158.353	183.753	209.153	234.553	259.953
1/4	0.25	6.350	31.750	57.150	82.550	107.950	133.350	158.750	184.150	209.550	234.950	260.350
17/64	0.265625	6.747	32.147	57.547	82.947	108.347	133.747	159.147	184.547	209.947	235.347	260.747
9/32	0.28125	7.144	32.544	57.944	83.344	108.744	134.144	159.544	184.944	210.344	235.744	261.144
19/64	0.296875	7.541	32.941	58.341	83.741	109.141	134.541	159.941	185.341	210.741	236.141	261.541
5/16	0.312500	7.938	33.338	58.738	84.138	109.538	134.938	160.338	185.738	211.138	236.538	261.938
21/64	0.328125	8.334	33.734	59.134	84.534	109.934	135.334	160.734	186.134	211.534	236.934	262.334
11/32	0.34375	8.731	34.131	59.531	84.931	110.331	135.731	161.131	186.531	211.931	237.331	262.731
23/64	0.359375	9.128	34.528	59.928	85.328	110.728	136.128	161.528	186.928	212.328	237.728	263.128
3/8	0.375	9.525	34.925	60.325	85.725	111.125	136.525	161.925	187.325	212.725	238.125	263.525
25/64	0.390625	9.922	35.322	60.722	86.122	111.522	136.922	162.322	187.722	213.122	238.522	263.922
13/32	0.40625	10.319	35.719	61.119	86.519	111.919	137.319	162.719	188.119	213.519	238.919	264.319
27/64	0.421875	10.716	36.116	61.516	86.916	112.316	137.716	163.116	188.516	213.916	239.316	264.716
7/16	0.4375	11.113	36.513	61.913	87.313	112.713	138.113	163.513	188.913	214.313	239.713	265.113
29/64	0.453125	11.509	36.909	62.309	87.709	113.109	138.509	163.909	189.309	214.709	240.109	265.509
15/32	0.46875	11.906	37.306	62.706	88.106	113.506	138.906	164.306	189.706	215.106	240.506	265.906
31/64	0.484375	12.303	37.703	63.103	88.503	113.903	139.303	164.703	190.103	215.503	240.903	266.303
1/2	0.5	12.700	38.100	63.500	88.900	114.300	139.700	165.100	190.500	215.900	241.300	266.700
1/2	0.515625	13.097	38.497	63.897	89.297	114.697	140.097	165.497	190.897	216.297	241.697	267.097
17/32	0.53125	13.494	38.894	64.294	89.694	115.094	140.494	165.894	191.294	216.694	242.094	267.494
35/64	0.546875	13.891	39.291	64.691	90.091	115.491	140.891	166.291	191.691	217.091	242.491	267.891
9/16	0.5625	14.288	39.688	65.088	90.488	115.888	141.288	166.688	192.088	217.488	242.888	268.288
37/64	0.578125	14.684	40.084	65.484	90.884	116.284	141.684	167.084	192.484	217.884	243.284	268.684
19/32	0.59375	15.081	40.481	65.881	91.281	116.681	142.081	167.481	192.881	218.281	243.681	269.081
39/64	0.609375	15.478	40.878	66.278	91.678	117.078	142.478	167.878	193.278	218.678	244.078	269.478
5/8	0.625	15.875	41.275	66.675	92.075	117.475	142.875	168.275	193.675	219.075	244.475	269.875
41/64	0.640625	16.272	41.672	67.072	92.472	117.872	143.272	168.672	194.072	219.472	244.872	270.272
21/32	0.65625	16.669	42.069	67.469	92.869	118.269	143.669	169.069	194.469	219.869	245.269	270.669
43/64	0.671875	17.066	42.466	67.866	93.266	118.666	144.066	169.466	194.866	220.266	245.666	271.066
11/16	0.6875	17.463	42.863	68.263	93.663	119.063	144.463	169.863	195.263	220.663	246.063	271.463
45/64	0.703125	17.859	43.259	68.659	94.059	119.459	144.859	170.259	195.659	221.059	246.459	271.859
23/32	0.71875	18.256	43.656	69.056	94.456	119.856	145.256	170.656	196.056	221.456	246.856	272.256
47/64	0.734375	18.653	44.053	69.453	94.853	120.253	145.653	171.053	196.453	221.853	247.253	272.653
3/4	0.75	19.050	44.450	69.850	95.250	120.650	146.050	171.450	196.850	222.250	247.650	273.050
49/64	0.765625	19.447	44.847	70.247	95.647	121.047	146.447	171.847	197.247	222.647	248.047	273.447
25/32	0.78125	19.844	45.244	70.644	96.044	121.444	146.844	172.244	197.644	223.044	248.444	273.844
51/64	0.796875	20.241	45.641	71.041	96.441	121.841	147.241	172.641	198.041	223.441	248.841	274.241
13/16	0.8125	20.638	46.038	71.438	96.838	122.238	147.638	173.038	198.438	223.838	249.238	274.638
53/64	0.828125	21.034	46.434	71.834	97.234	122.634	148.034	173.434	198.834	224.234	249.634	275.034
27/32	0.84375	21.431	46.831	72.231	97.631	123.031	148.431	173.831	199.231	224.631	250.031	275.431
55/64	0.859375	21.828	47.228	72.628	98.028	123.428	148.828	174.228	199.628	225.028	250.428	275.828
7/8	0.875	22.225	47.625	73.025	98.425	123.825	149.225	174.625	200.025	225.425	250.825	276.225
57/64	0.890625	22.622	48.022	73.422	98.822	124.222	149.622	175.022	200.422	225.822	251.222	276.622
29/32	0.90625	23.019	48.419	73.819	99.219	124.619	150.019	175.419	200.819	226.219	251.619	277.019
59/64	0.921875	23.416	48.816	74.216	99.616	125.016	150.416	175.816	201.216	226.616	252.016	277.416
15/16	0.9375	23.813	49.213	74.613	100.013	125.413	150.813	176.213	201.613	227.013	252.413	277.813
61/64	0.953125	24.209	49.609	75.009	100.409	125.809	151.209	176.609	202.009	227.409	252.809	278.209
31/32	0.96875	24.606	50.006	75.406	100.806	126.206	151.606	177.006	202.406	227.806	253.206	278.606
63/64	0.984375	25.003	50.403	75.803	101.203	126.603	152.003	177.403	202.803	228.203	253.603	279.003

## NOTES

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