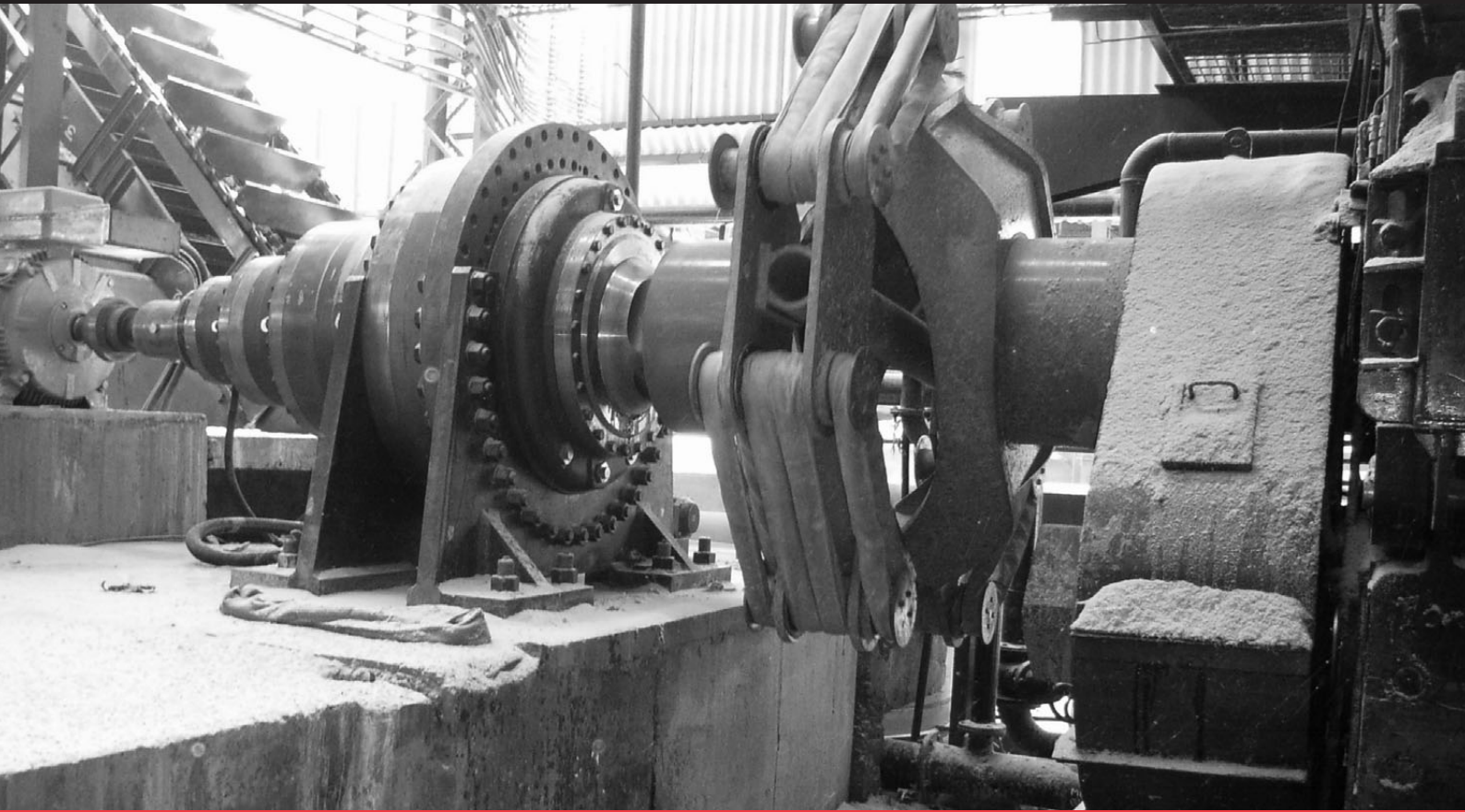




DRIVES



 *dinamic oil*

PLANETARY GEARBOXES

Technical Guide

BMG DRIVES - HUBS

Johannesburg Tel:+27 11 620 1803 email:graemen@bmgworld.net • Cape Town Tel:+27 21 945 1887 email:drivesctn@bmgworld.net

Durban Tel:+27 31 700 5042 email:drivesdbn@bmgworld.net • Port Elizabeth Tel:+27 41 406 0500 email:drivespe@bmgworld.net

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A DIVISION OF THE BEARING MAN GROUP

SANS ISO 9001:2008

COMPACT HIGH TORQUE PLANETARY GEARBOXES

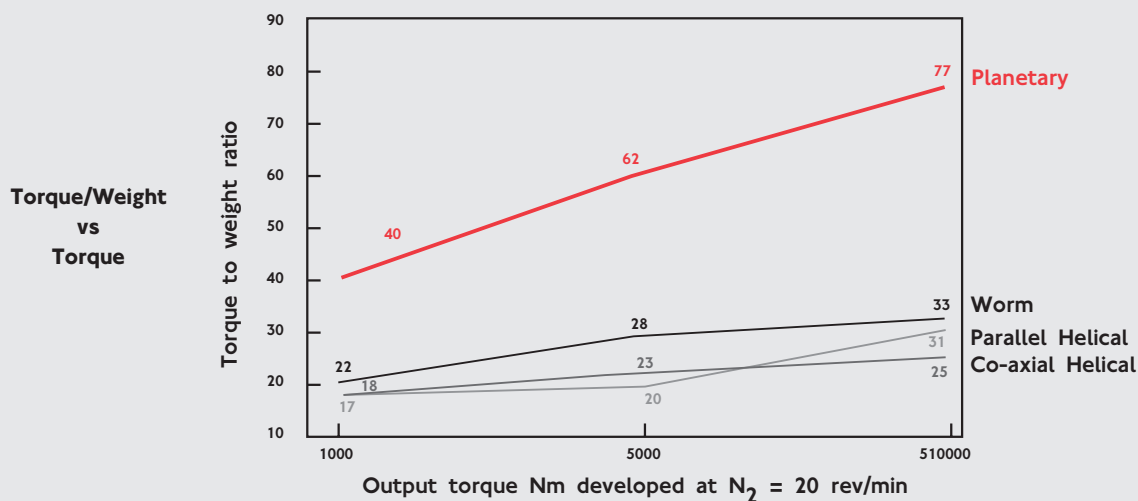
DESCRIPTION

- Simple, flexible and dynamic planetary gearboxes to satisfy the needs of the modern market
- From 45Nm to 1,200,000Nm
- Wide range of reduction ratios from 3,5 to over 5000:1
- Ideal for exceptionally high torque, low speed applications, slewing and positioning drives
- Foot mounted supports
- Keyed, cylindrical or splined female and male output shafts
- Hexagonal male output shafts
- Torque Arms
- Input V drive motor mounts
- Range of hydraulic motor inputs
- Output options include coupling flanges and splined or hexagonal bushes
- Input options include supports, bevel gears and new concept brakes
- Hydraulic winches and pulley winches also available that conform with UNI ISO 4301/1 standards
- Winches are available with or without axial or radial piston hydraulic motors.



COMPARISON BETWEEN PLANETARY & OTHER GEAR SYSTEMS

The graph clearly demonstrates the weight savings achieved by planetary gear units over conventional gear systems.

















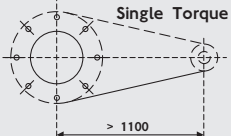
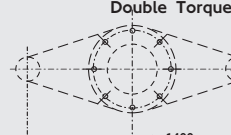

















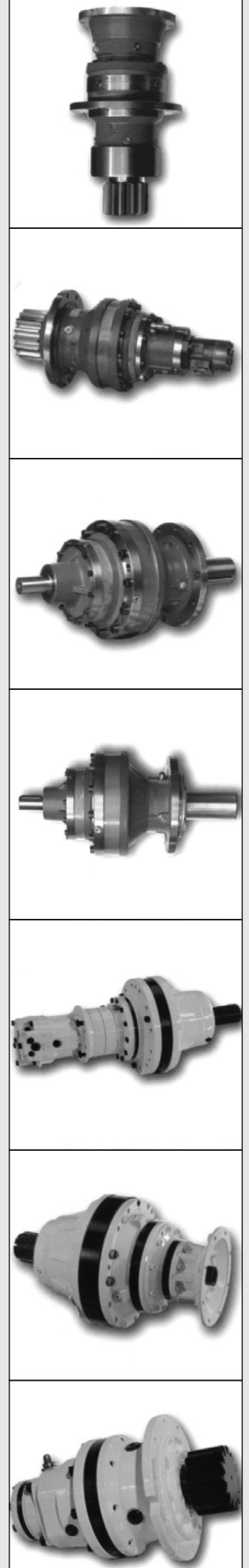
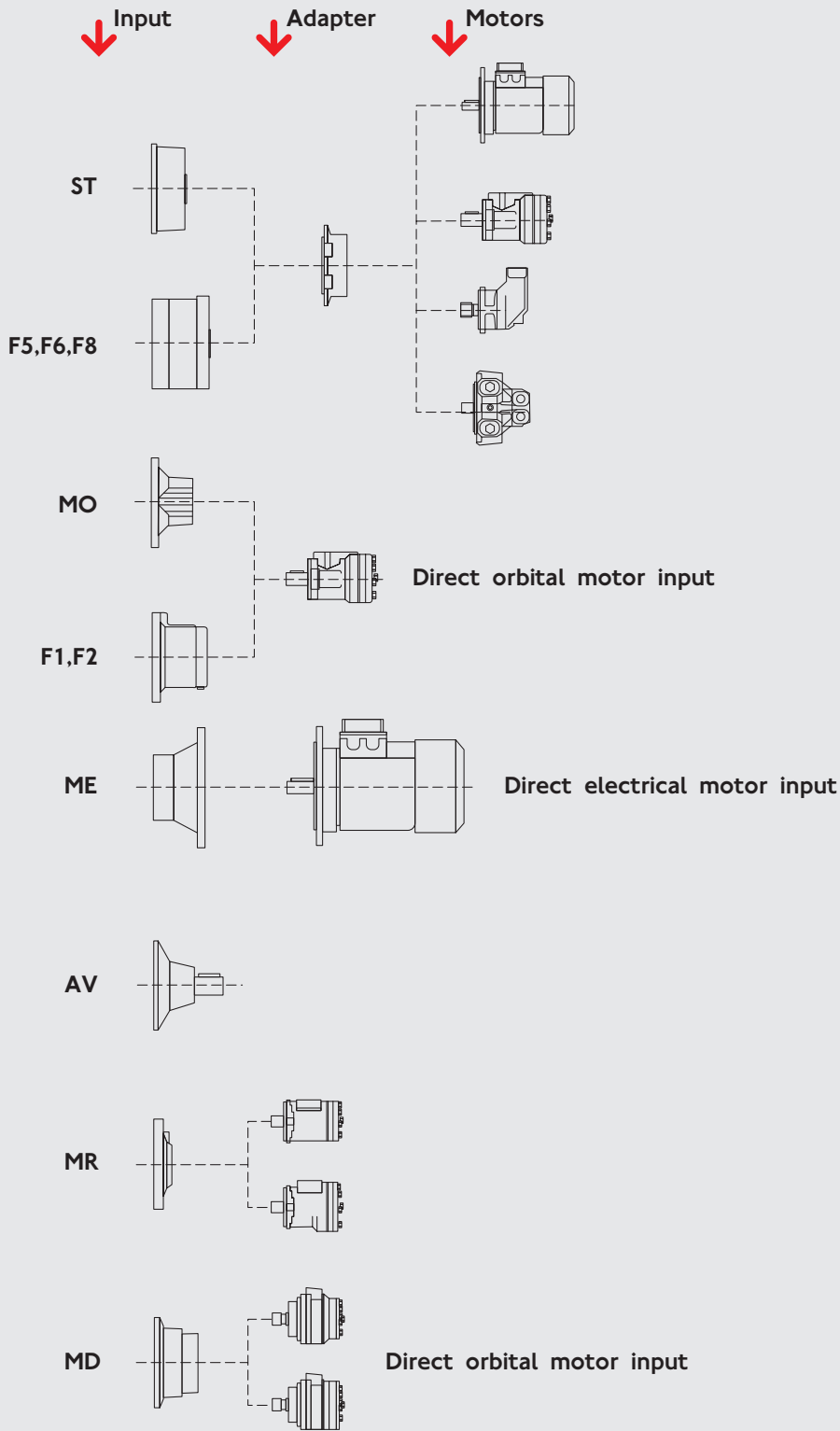
TYPICAL SAVINGS WITH PLANETARY GEAR TECHNOLOGY:

- 50% on size ~ more efficient use of factory space
- 60% on weight ~ less costly support structures
- 30% on power ~ less energy consumption








Ultimately this leads to significant cost savings.

OUTPUT VERSIONS

				NS	NC	TS	TC	PS	PC	NE	NQ	FS		
	i	T ₂ (Nm)		Flanged with splined shaft	Flanged with cylindrical shaft	Flanged with reinforced splined shaft	Flanged with reinforced cylindrical shaft	Foot with splined shaft	Foot with cylindrical shaft	Flanged with hexagonal shaft	Shaft mounted with shrink disc	Flanged with splined hollowshaft		
														
110	3.48	1591.2	1100	•	•	•	•	•	•	•	•	•		
210	3.48	2153.4	2100	•	•	•	•	•	•	•	•	•		
240	3.82	1659.0	2400	•	•	•	•			•	•	•		
310	3.60	1990.7	3100	•	•	•	•	•	•	•	•	•		
510	3.60	1990.7	5100	•	•	•	•	•	•	•	•	•		
810	3.56	2264.2	8100	•	•	•	•	•	•	•	•	•		
1020	3.56	2264.2	10000			•	•			•	•	•		
				HS	HC							HQ	FS	
														
1520	4.09	2041.2	15000	•	•	•	•			•	•	•		
2520	4.00	1925.5	25000	•	•						•	•		
3510	3.84	2392.6	35000	•	•						•	•		
5020	4.14	1816.9	50000	•	•						•	•		
				HS	HC								HQ	FS
														
6520	4.00	3090.5	65000	•	•						•	•		
11000	4.09	2992.5	110000	•	•						•	•		
13000	3.83	3096.7	130000	•	•						•	•		
18000	3.91	3044.3	180000	•	•						•	•		
21000	3.68	3128.0	210000	•	•						•	•		
31000	4.09	3468.7	310000		•						•	•		
37000	3.83	3056.0	370000		•						•	•		
53000	3.83	3134.5	530000								•	•		
61000	3.83	3157.3	610000								•	•		
 <p>Single Torque Arm > 1100</p>  <p>Double Torque Arm > 1400</p>														
														
														
														



OUTPUT ACCESSORIES

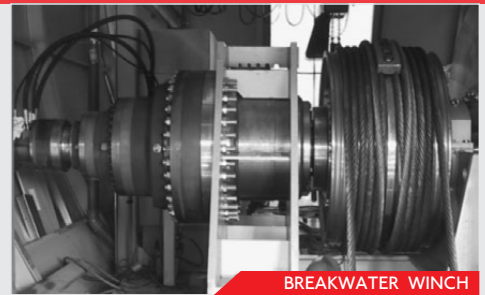
<p>P = Pinion indicate the Reference on the 2nd line</p> 	<p>FL = Flange</p> 	<p>BS = Parallel Bushing</p> 	<p>VE = Oil Expansion Tank</p> 
<p>ES = Hexagonal Bushing</p> 	<p>GA = Shrink Disc</p> 	<p>BF = Splined Bar</p> 	

TYPICAL INDUSTRIES

- Manufacturing
- Mineral processing
- Sugar
- Timber
- Transport
- Iron & steel
- Non-ferrous metals
- Chemical
- Construction

APPLICATIONS

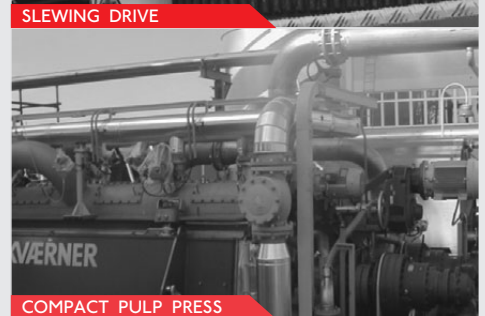
- Apron feeder conveyors
- Agitators & Thickeners
- Crystallisers
- Conveyors
- Mobile equipment
- Hoists & winches
- Slewing & positioning drives
- General process machinery



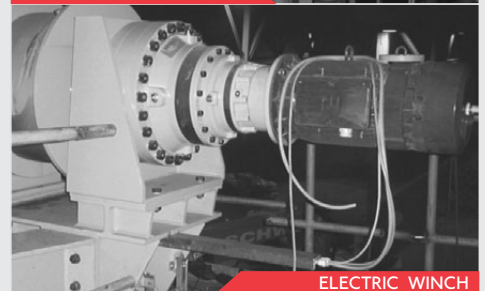
BREAKWATER WINCH



SLEWING DRIVE



COMPACT PULP PRESS

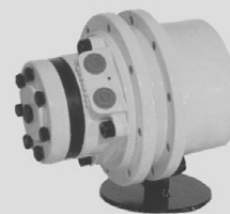


ELECTRIC WINCH

OTHER PRODUCTS



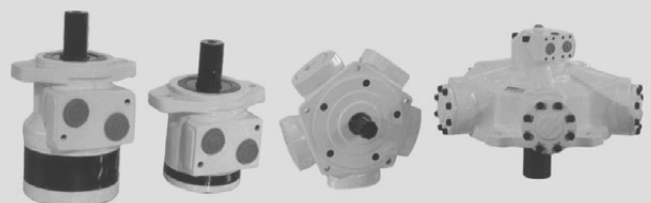
Rotary tables



Hydraulic winches & pulling machines



Wheel gearboxes



Orbit & radial piston motors



QUALITY & RANGE OF PRODUCTS

- Suppliers of the world's most respected product brands
- Unbeatable range to suite any application (from a gearbox weighing 1kg to 62T in weight)

STOCKHOLDING

- Vast stockholding ensures a quick turn-around time on orders
- Reliable availability of spare parts

ASSEMBLY WORKSHOPS

- State-of-the-art central workshops in Johannesburg and Cape Town
- Modern assembly presses, spray booths and dynamic test facilities

TECHNICAL SUPPORT

- All products are backed by expert technical service and support 24hrs a day
- An application engineering service is available for drive design, selection & trouble-shooting

SERVICE & DISTRIBUTION

- National coverage & distribution through Bearing Man Group network

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BRANCH HELPLINE:

0800 022 224

WEBSITE:

www.bmgworld.net



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