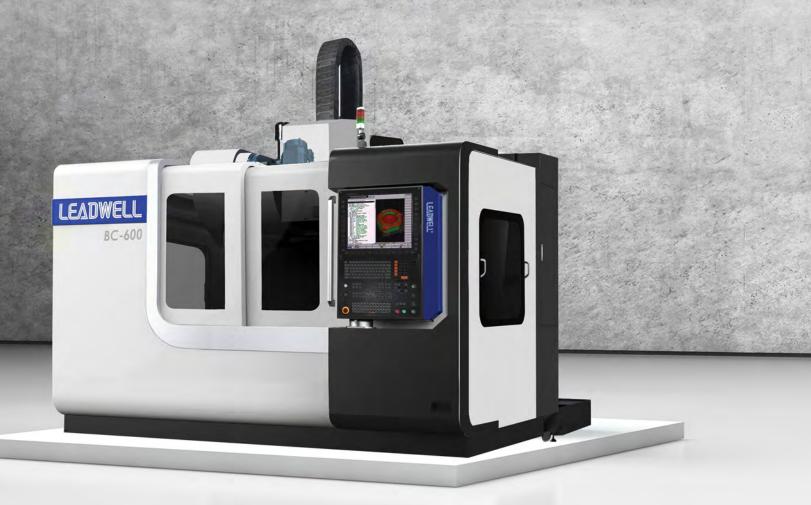
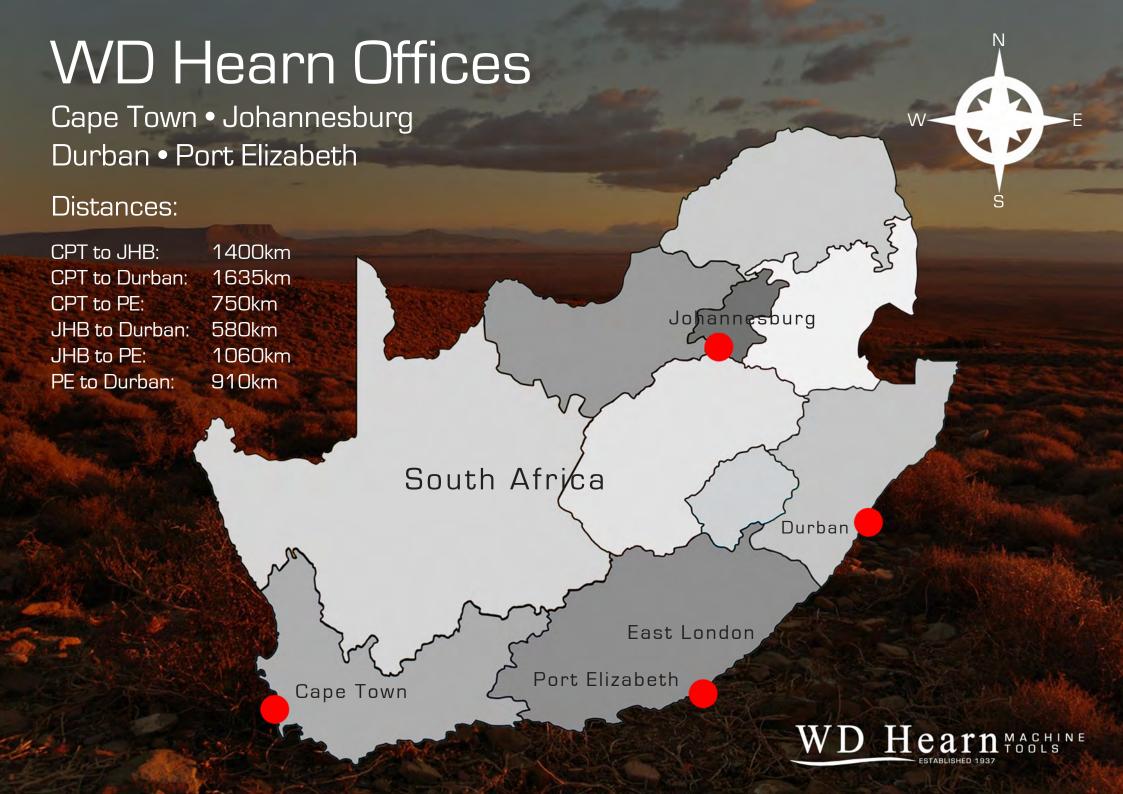


Company Presentation















COMPANY INFORMATION

- WD Hearn was established in 1937.
- First Leadwell CNC machining center sold in 1987.
- Over 1200 Leadwell's installed across the country.
- Outstanding service reputation in S.A.
- Skilled admin staff to handle imports & exports.
- Large stock holding of machine tools of all configurations.
- Four branches across South Africa.
- One of the top applications departments in S.A.
- Highly-skilled service, sales and applications engineers.
- Purpose built in-house training rooms in CT and JHB.
- Huge molding service department

WD Hearn is consistently up to date with the latest worldwide machine tool developments and current market trends. We also make a point of understanding all customers needs to ensure that professional and customer-specific advice is given.









CAPE TOWN: HEAD OFFICE





- 1200m² of floor space.
- All operations are managed from here.
- Communication link to all WD Hearn's international principles.
- Sales and marketing support to other branches in South Africa.
- Spindle Refurbishment centre.
- Sales team offers outstanding product knowledge and machining advice.
- Supply, installation and support of a huge variety of CNC configurations.
- For customers who require temporary additional capacity WD Hearn runs a loan machines project.







CAPE TOWN: HEAD OFFICE







Matthew Noah



Andre Eslin



Satish Dayal



Mike Clayton



Thys Thiart



Ismail Mohamed



Juan Joubert



Dylan Eva



Beatrice Coakley



Yulinda Theys



Rugayah Ryland



Cheryl Noah





JOHANNESBURG CNC TECHNOLOGY CENTER







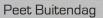


- WD Hearn CNC Technology Centre and Siemens control specialists.
- Drive motor and electronic testing facility Large machine type experts.
- Large spare parts stock holding 700m² of floor space.

State of the art facility

- The Johannesburg multi-purpose CNC Technology Center was launched in 2016 to perform the following functions.
- A showroom to display products and perform demos/simulations.
- To function as our Johannesburg sales and service office.
- To host special events, exhibitions, and presentations.
- A training facility offering courses in CNC programming.
- New machine training for WD Hearn service engineers.
- A motor and drive service center, including a test bench for motor repair.





Satish Dayal



Marius Conradie

Math Robson















DURBAN

THE PARTY OF THE P

- Factory floor space: 220m²
- A Cad Cam training facility for Edgecam/Sinutrain.
- Fully operational sales office and accounts department.
- IMM group specialists
- PLC Experts
- Stockholding of cnc machining and turning centres here.
- Second-hand division.



Myles Crosthwaite

Dale Otto







Brett Shelley



Kershlan Odiar



Christian & Philani

PORT ELIZABETH





- Showroom and office space: 800m²
- Special purpose fixturing design specialists
- GSK Specialists
- CNC Machine Tool Service experts
- Stock holding spares
- CNC retrofit services
- Centrally located
- Mechanical and Electrical service engineers







Mick Griffiths



Nikky Marais



Lloyd Qawe





Training Facility

- The growing demand for CNC Programmers/Operators/Setters has resulted in a demand for qualified training.
- The training facility was installed at the WD Hearn Cape Town premises in 2015.
- Specialising in CNC programming training.
- Equipped with Siemens Sinutrain for training on all Siemens control systems.
- Courses in Edgecam CAD CAM software as well as custom Fanuc training.









Siemens Sinutrain

- SinuTrain, Siemens offers a hands-on solution for CNC training beginners and experts.
- SinuTrain allows you to expand your programming and operation expertise of the innovative numerical control features found in SINUMERIK.
- The intuitive, PC-based solution consists of control-identical software that is perfectly tailored to meet your needs
- Beyond milling and turning SinuTrain offers a wide range of technologies.







SERVICE DEPARTMENT

- · WD Hearn has one of the largest, most highly skilled service departments in the country.
- We focus on sharing ownership of the installation of CNC machines into machine shops through the expertise of skilled technicians and application engineers.
- · All of our engineers have been for product training at the machine tool builders facilities; Siemens Germany, Yushine, Flow Waterjet, Leadwell and Sanco.





Service Engineers employed:

- Mechanical
- Electrical
- Applications

Service offered:

- CNC Retrofits
- Special purpose machine design and local build
- PLC: Writing & Programming
- Turn key projects: Programming, Fixtures

Applications:

- CNC Programming
- Cvcle times
- · Renishaw retrofits & system solutions

Siemens

WD Hearn became official Siemens partners in 2007 and have been handling the aftersales service on all our Siemens 802dsl & 828D control requirements, including stocking of Siemens drives, controllers and motors in JHB and Cape Town.



Ford Installation @ Common Com



In 2012 WD Hearn Machine Tools were responsible for the installation of 80 Horizontal Machining Centers into Ford, the largest engine plant in Africa. The project is running triple shifts with more machines likely to be ordered.





We have extensive product knowledge within the WD Hearn group in both application and service & repair. For an outstanding reference list, please don't hesitate to contact your nearest branch.





RENISHAW



WD Hearn owns Renishaw probing/lazer systems and software for machine accuracy testing, repairs and maintenance. Renishaw probes offer the highest precision and accuracy, while providing solutions for tool setting, broken tool detection, component set-up, in-cycle gauging and first-off inspection of parts, with automatic offset updates.

Renishaw XL-80 laser measurement system

The XL-80 laser interferometer offers the ultimate in high-performance measurement and calibration for motion systems, including CMMs and machine tools. Linear measurement accuracy is an assured $\pm 0.5 ppm$ over the whole environmental range. Readings are taken at 50kHz, with a maximum linear measurement speed of 4m/s and a linear resolution of 1nm.



QC20-W ballbar

The QC2O-W is a brand new design featuring a Renishaw developed linear sensor and Bluetooth wireless technology. This design offers benefits in ease of use and enhanced durability, and allows the QC2O-W to be used for testing even in "closed door" manufacturing, where access for wiring can raise safety and procedural issues.



APPLICATIONS

- WD Hearn's application engineers' expertise and experience allows WD Hearn to offer tailor-made application solutions that no other machine tool company in South Africa.
- Satish Dayal and Andre Enslin handle our applications in Port Elizabeth and Cape Town
- Johan Neveling takes care of all Johannesburg and Durban's application requirements.
- We are capable of handling training on all popular control types.
- We offer support on a variety of CAD/CAM systems.
- Training offered on a broad range of machine configurations, from C-axis Lathes to 5-axis Machining Centers, to Swiss Type Turning and Horizontal Machining Centers.

Training



WD Hearn offers full CNC training on-site, or at our training room in Cape Town; fully equipped with Sinutrain for training on all Siemens control systems, as well as courses in using Edgecam's CAD CAM software.

Turn Key Projects



WD Hearn offers a broad range of fully designed & delivered turnkey solutions to fit any production or jobshop requirements. Our solutions come complete with extremely accurate cycle times and advice on the correct equipment to purchase.

Remote Programming Assistance



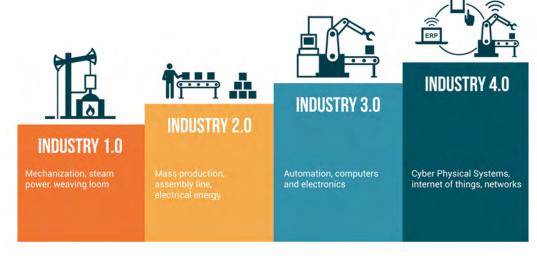
If you are a WD Hearn CNC client in South Africa and require quick programming assistance, we can help online and telephonically with full programming and application support.





INDUSTRY 4.0

Industry 4.0 creates what is known as a "smart factory" and allows for immediate real time information and data direct to your smart device so you can access your machines from anywhere in the world. It includes cyber-physical systems, the Internet of things, cloud computing and cognitive computing. Industry 4.0 is commonly referred to as the fourth industrial revolution.



Within the modular structured smart factories, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things, cyber-physical systems communicate and cooperate with each other and with humans in real time, and via cloud computing, both internal and cross-organizational services are offered and used by participants of the value chain.



In 2017 WD Hearn launched the NC Touch system. This step made WD Hearn one of the first companies to introduce Industry 4.0 to the wider South African engineering community. NC Touch, from Siemens solution partner Mill IT, is capable of capturing all information from the SINUMERIK 828D and SINUMERIK 840D sI control systems and using it to generate easy-to-understand graphics on a simple HMI.

With ncTOUCH, users can create their own web-based interfaces for SINUMERIK 840Dsl and 828D, and link these to data from the SINUMERIK CNC. The provided scripting language allows for quick implementation without any in-depth programming skills. A large number of different templates and ready-to-use applications for ncTOUCH already exist, which can be adapted with ease, from layout to additional functions.

ncTOUCH forms the interface between the SINUMERIK CNC and the web browser. Due to the complete integration within the SINUMERIK software, no additional components are required. The programming is done by simply editing normal text files, with no need for a special development environment. Thanks to the integrated networking suite, information from multiple cross-linked machines can be collected on a server, allowing for centralized access, with ncTOUCH handling the encryption and data transmission.





INTERNATIONAL SUPPLIER VISITS



TAIWAN

2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018



GERMANY -

2012, 2013, 2014, 2015, 2016, 2018



JAPAN 2015, 2016, 2017



2010, 2011, 2012, 2013, 2014, 2015, 2016



TRADE SHOW -2011, 2013, 2015, 2017



2014, 2015, 2016, 2017, 2018



2007/09/11/13/15/17/19

Other Overseas Visits: Flow Waterjet in Germany, Nikon Metrology in France, SANCO in Taiwan, and Renishaw in the UK.













CUSTOMERS



















































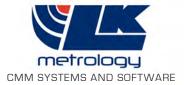




AGENCIES













































SIEMENS









HEIDENHAIN



Sinumerik

808D Advanced 828D, 828D Basic 840D sl



Oi-Series

31i-MB Oi-MF

Oi-TF



Mitsubishi CNC

M70/700

M800/M830W

D-Cubes



Syntec CNC

21MA



Arumatik

Exclusive to Kitamura Machines



Most Machines come with Heidenhain iTNC 530 as optional. Other models: TNC 640, TNC 620, TNC 320, TNC 128



LEADWELL®

WD Hearn Machine Tools have been selling Leadwell since 1987 when we sold our first CNC. Since then over 1000 Leadwell CNC machines have been installed around South Africa.

- Vertical Machining
 Centers NV Series, MCV Series, VE Series
- 5-Axis Machining
 Centers T Series, BC Series, MU Series
- Horizontal Turning
 Centers T Series, LTC Series
- Multi Tasking Turning
 Centers TM Series, TW Series





LEADWELL

INSTALLATIONS

































LEADWELL®

INSTALLATIONS



































KITAMURA®

Machining Challenges-Simplified®

For over 80 years, Kitamura machinery has created innovative machining centers that meet the strictest demands of manufacturers worldwide. In March 2015 WD Hearn visited Kitamura precision machinery in Japan. The visit was a huge success and WD Hearn has agreed to become the company's sole representation in South Africa. Kitamura is one of the most impressive and innovative companies to join WD Hearn's agency list.

5-Axis
Machining Centers

Vertical Machining Centers

4G | 5G | 7G

3XG|3XiG|2XD|2XDSP|3XD|4XD

Horizontal Machining Centers

Double Column
Machining Centers

HX 250iG up to HX 1000G

6G | 8G | 10G | 12G



KITAMURA®

Machining Challenges-Simplified®

INSTALLATIONS

CONFERHEUR ENGINEERING









Mould & Die







MYCENTER HX250G



Executive Engineering BK



HENTIQ





FERMAT

FERMAT is a highly professional Horizontal Boring Mill Manufacturer with a tradition of producing metal working and processing equipment in the Czech Republic.





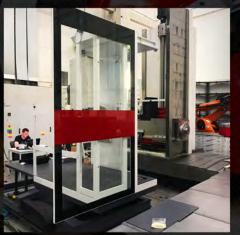






TABLE TYPE HORIZONTAL BORING MILL

Table Type Horizontal Boring Mill



FLOOR TYPE HORIZONTAL BORING MILL

WRF 130/150/160 CNC





WF 13 CNC

HORIZONTAL BORING MILL

WFC 10 CNC











SANCO

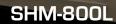
INSTALLATIONS



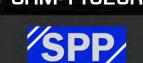








TRANSNET





SVW-4222

TRANSNET









CHIAH CHYUN MACHINERY is one of the most professional manufacturers of CNC Lathes, Auto Lathes and Bench Lathes in Taiwan. They were the first company certified by ISO 9002 for Automatic Lathes and CE quality certification in Taiwan.



SWISS TYPE TURNING CENTER
CDS-32



and serviced at Cambro in Cape Town

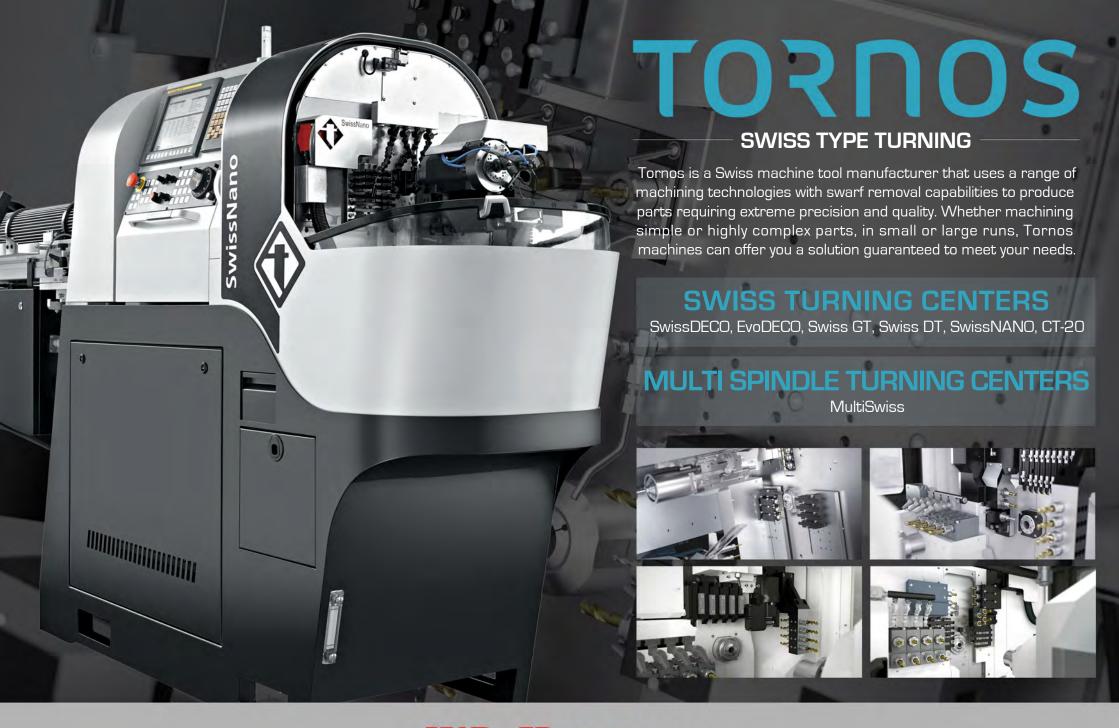


HORIZONTAL TURNING CENTER
CB-32M











RENISHAV

METROLOGY SYSTEMS

With core skills in measurement, motion control, spectroscopy and precision machining RENISHAW products are used for applications as diverse as machine tool automation, machine calibration, gauging, co-ordinate measurement, additive manufacturing, Raman spectroscopy, position feedback, CAD-CAM dentistry, shape memory alloys, large scale surveying, stereotactic neurosurgery, and medical diagnostics.

METAL ADDITIVE MANUFACTURING SYSTEMS (3D PRINTING)

AM250, AM400, RenAM 500M



LASER MEASUREMENT **SYSTEMS**

XL-80

MACHINE TOOL MEASURING **PROBES**

OMP40, OMP60, NC4, OTS, TS27R, RMP40

CMM FIXTURES AND VISION FIXTURES

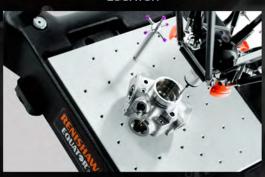


MODULAR AND CUSTOM FIXTURING



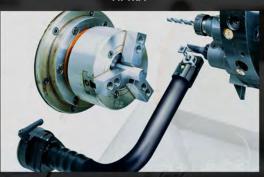
HIGH-SPEED INSPECTION GAUGE

EQUATOR



HIGH-PRECISION MOTORISED SWINGDOWN TOOL SETTING ARM

HPMA



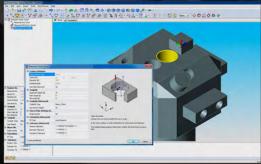
HIGH-PRECISION WIRELESS BALLBAR SYSTEM

QC20-W



PROBE SOFTWARE FOR **MACHINING CENTERS**

PRODUCTIVITY+





RENISHAW 6

INSTALLATIONS

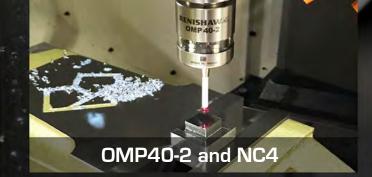




SA METAL GROUP

























MITSUBISHI ELECTRIC

EDM & WEDM

Mitsubishi Electric's state-of-the-art EDMs are used in the manufacturing processes of medical equipment, semiconductors and electronic devices. A plethora of innovative technologies are incorporated to ensure highly precise, fast processing.





WIRE EDM MACHINE

MV1200S



SINKER EDM MACHINE

EA-12S ADVANCE



START HOLE DRILLING

START YGS-43C



ULTRA PRECISION WEDM

MX600





MITSUBISHI ELECTRIC

INSTALLATIONS













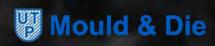












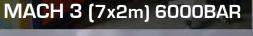




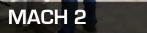




















METROLOGY DEPARTMENT



RENISHAW.

apply innovation™



PROBING AND GAUGING SYSTEMS

LASER MEASUREMENT

METAL ADDITIVE MACHINES/3D PRINTERS

FIXTURING

Nikon



COORDINATE MEASURING MACHINE
X-RAY AND CT INSPECTION
LASER RADAR
ARTICULATED ARM & SCANNING HEAD

Starrett



CNC VISION SYSTEMS OPTICAL PROJECTORS





2D INSPECTION
3D INSPECTION & REVERSE ENGINEERING

Nikon

Metrology Equipment

Nikon is the new global market leader in the high precision metrology sector offering a vast range of CMM's, scanners, articulated arms and lazer measuring systems to the worlds best OEM's. WD Hearn Machine Tools have already completed major Nikon installations thoughout South Africa.



Nikon LK40.12.10







MCAx & H120

Articulated Arm & Scanning Head



MV331/351

Laser Radar



MCT225

X-Ray and CT Inspection



FOCUS INSPECTION

Metrology Software



Precision Measuring Tools

The broad Starrett product line includes Precision Measuring Tools (Micrometers, Calipers, Rules), Levels, Electronic Gauges, Dial Indicators, Gauge Blocks & Granite Surface Plates, and custom engineered products. The company also offers metrology equipment including Vision Systems, Optical Measuring Projectors and Multi-sensor Measuring Systems, many of which are custom engineered.



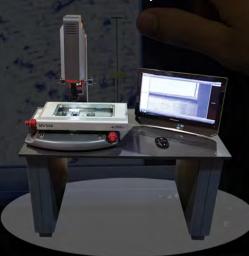






AV300

CNC Vision System



MV300

Manual Vision System



HB400

Horizontal Optical Comparator



PROFILE 360

Profile Measurement System







SOUTH AFRICA OVERVIEW



- Population: 56 Million
- SA's GDP: The 33rd biggest worldwide at 360 Million Dollars.
- GDP Growth: 2012 2.5% | 2013 1.9% | 2014 1.4% | 2015 1%, 2016 1st Quarter 0.5%
- Economic powerhouse of Africa and her natural resources.
- Best performing sectors: Automotive, Mining, Agriculture,
 Banking, Communications, Tourism, Wholesale and Retail trade, Finance and Business Services.
- Stock Exchange JSE among the top 20 in the world.
- Automotive OEM's in SA: Mercedes in East London, Toyota in Durban, BMW in Rosslyn Pretoria, VW in Uitenhague, and the Ford Struandale plant in Port Elizabeth.
- Transnet 2012 recapitalisation program.



Many Thanks!

For more information please contact one of our four branches

CAPE TOWN

Tel: +27 (0)21 534 5351 Sales: E-Mail - graeme@wdhearn.co.za | Tel: +27 (0)76 337 9011 E-Mail Service: hearn@wdhearn.co.za

DURBAN

Tel: +27 (0)74 055 9115/7
Sales: Email - mylesc@wdhearn.co.za | Tel - +27 (0)83 268 4232
E-Mail Service: hearn@wdhearn.co.za

JOHANNESBURG

Tel: +27 (0)11 970 7005 Sales: Email - mariusc@wdhearn.co.za | Tel - +27 (0)83 285 1655 E-Mail Service: hearn@wdhearn.co.za

PORT ELIZABETH

Tel: +27 (0)41 453 2142 Sales: Email - simong@wdhearn.co.za | Tel - +27 (0)72 067 5778 E-Mail Service: wdhearnpe@wdhearn.co.za

