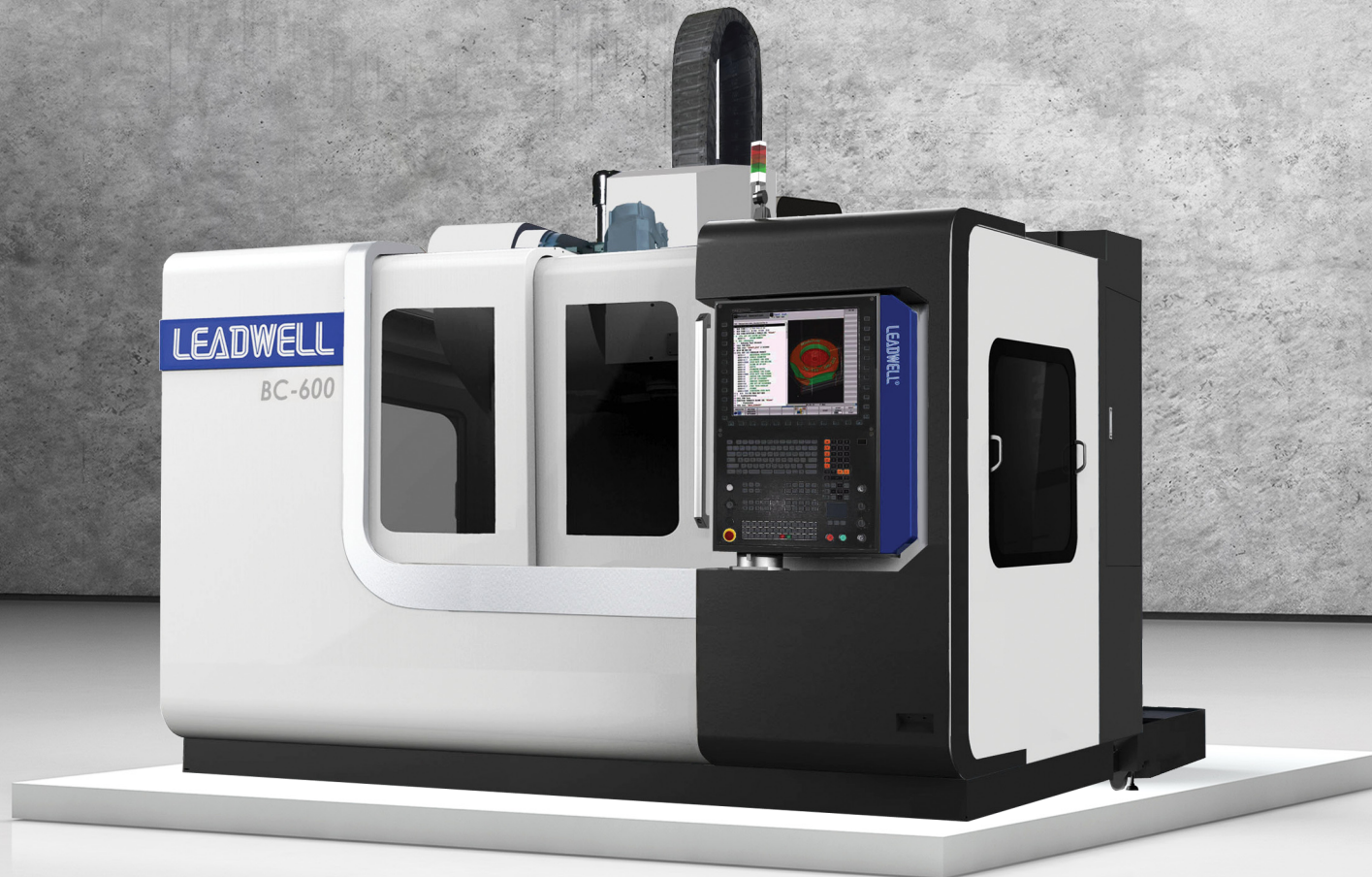




Company Presentation



WD Hearn Offices

Cape Town • Johannesburg

Durban • Port Elizabeth

Distances:

CPT to JHB: 1400km

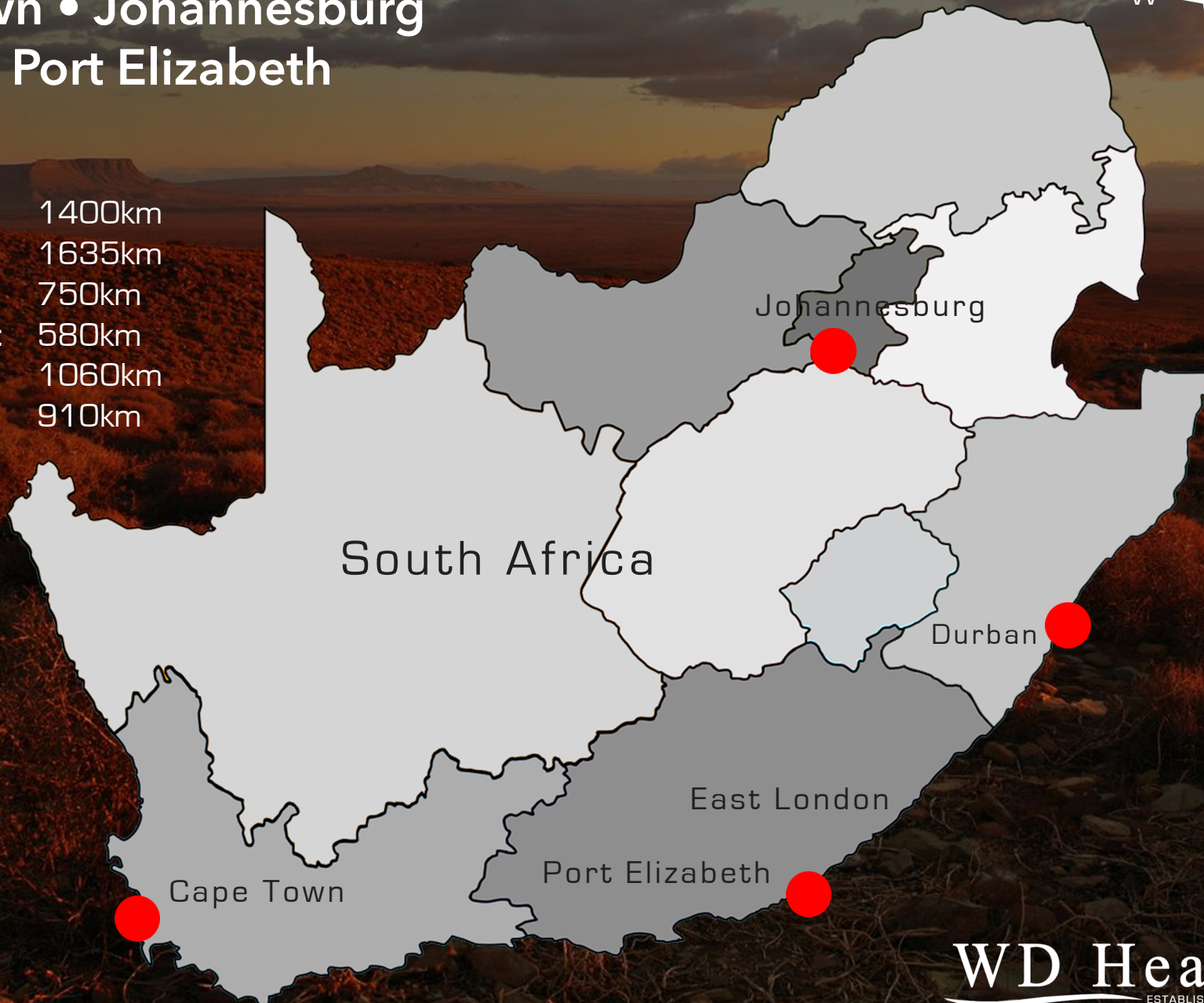
CPT to Durban: 1635km

CPT to PE: 750km

JHB to Durban: 580km

JHB to PE: 1060km

PE to Durban: 910km





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



Ray Cooper
Managing Director



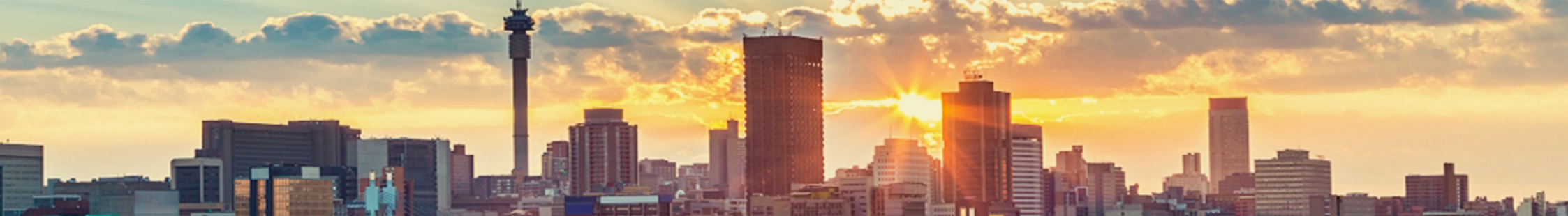
Graeme Cooper
Sales Director



Johan Neveling
Technical Director

- All operations are managed from here
- 1200m² of floor space.
- 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.





JOHANNESBURG



Marius Conradie
JHB Sales Manager

WD Hearn CNC Technology Center

- 700m² State of the art high-tech facility.
- Johannesburg's sales and service office.
- Drive motor and electronic testing facility.
- Large machine type experts.
- Large spare parts stock holding.
- CNC programming training facility.

- Showroom to display products and perform demos/simulations.
- Hosting of special events, exhibitions, and presentations.
- New machine training for WD Hearn service engineers.
- Motor & drive service center, with a test bench for motor repair.





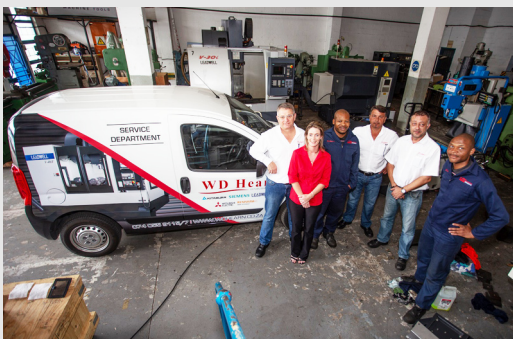
DURBAN



Myles Crosthwaite
Branch Manager



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



PORT ELIZABETH



Simon Griffiths
Branch Manager



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

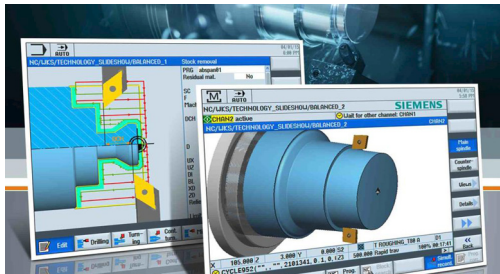


APPLICATIONS DEPARTMENT



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

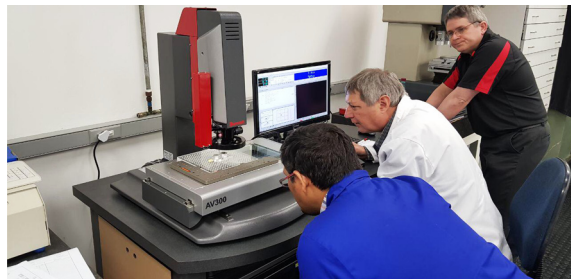
- SinuTrain, Siemens offers a hands-on solution for CNC training beginners and experts.
- SinuTrain allows you to expand your programming and operation expertise of the innovative numerical control features found in SINUMERIK.
- The intuitive, PC-based solution consists of control-identical software 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
- Cycle 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 and 828D CNC controls since then, as well as stocking Siemens drives, controllers and motors in JHB and Cape Town.



Ford Installation



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.

WD Hearn MACHINE TOOLS
ESTABLISHED 1937



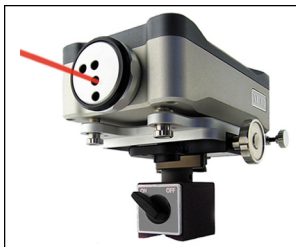
RENISHAW



WD Hearn owns Renishaw probing/laser 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.

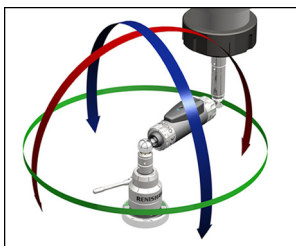
Renishaw XL-80 laser measurement system

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 $\pm 0.5\text{ppm}$ 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 QC20-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 QC20-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.





INTERNATIONAL SUPPLIER VISITS



TAIWAN

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



JAPAN

2015, 2016, 2017



TAIWAN

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



GERMANY

2014, 2015, 2016, 2017, 2018



GERMANY

2012, 2013, 2014, 2015, 2016,
2018



UNITED KINGDOM

ANNUAL VISITS



TRADE SHOW

2011, 2013, 2015, 2017



TRADE SHOW

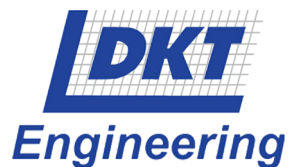
2007/09/11/13/15/17/19

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





CUSTOMERS



AGENCIES

LEADWELL[®]
CNC MACHINES

MITSUBISHI[®]
EDM/WEDM

LK
metrology
CMM SYSTEMS AND SOFTWARE

KITAMURA[®]
5-AXIS AND HORIZONTAL
MACHINING CENTERS

Flow
WATER JET MACHINES

NIKKEN
ROTARY TABLES, TOOL PRESETTERS,
AND ANGLE HEADS

Nikon
3D MEASURING SYSTEMS

sisma
LAZER WELDING AND
LAZER ENGRAVING MACHINES

RENISHAW[®]
PROBING, CALIBRATION
AND CMM EQUIPMENT

FFG
FAIR FRIEND GROUP

YSP
YU-SHINE
VERTICAL TURNING MACHINES

Nakamura-Tome
JAPANESE-BUILT
MULTITASKING MACHINERY

TORNOS
SWISS MACHINE-TOOL
MANUFACTURER

SIEMENS
CNC CONTROLS

DMTG
EUROPE
CNC FLAT BED LATHES
& CENTER LATHES

SANCO
HEAVY DUTY
MACHINE TOOLS

L.K. MACHINERY, INC
CNC MACHINING CENTERS

Mahr
METROLOGY EQUIPMENT

KENT
GRINDING MACHINES

GSM V CNC
VERTICAL MILLING MACHINES

ANCA
CNC MACHINE TOOLS

FERMAT
HORIZONTAL BORING AND
MILLING MACHINES

Starrett[®]
MEASUREMENT SYSTEMS

GSM V CNC
VERTICAL MACHINING CENTER

WD Hearn MACHINE
TOOLS
ESTABLISHED 1937

Agency Map



Taiwan LEADWELL , YU-SHINE, SANCO, LK MACHINERY, GSM CNC, KENT

Germany SIEMENS, MAHR | **England** RENISHAW, LK METROLOGY, NIKKEN | **Japan** MITSUBISHI, KITAMURA, NIKON

Switzerland TORNOS | **China** DMTG | **Australia** ANCA | **Czech Republic** FERMAT | **USA** STARRETT, FLOW

CNC CONTROLS



SIEMENS

FANUC



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 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



SA METAL GROUP



SA METAL GROUP



Nampak



T-8M



MCV-1500



V-40L



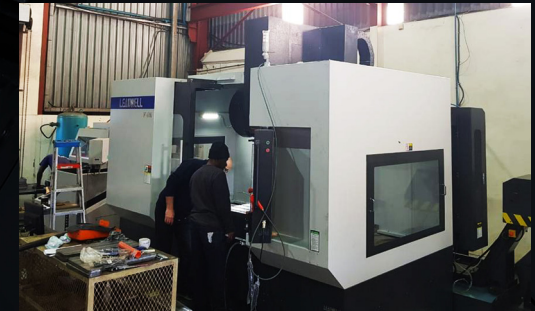
V-30S



D&J Tool and Die

BRELKO®
CONVEYOR PRODUCTS

DKT Engineering



WD Hearn MACHINE TOOLS
ESTABLISHED 1937

LEADWELL®

INSTALLATIONS



LCV-760



MCV-1500i+



LTC-35CL



V-42iF



LTC25iXXL - HEAVY ENGINEERING



V-50L



V-52AF



V-50L - MOLD AND DIE



KITAMURA®

Machining Challenges-Simplified®

Kitamura is a Japanese manufacturer of extremely high precision CNC Machinery, one of the most impressive and innovative companies to join WD Hearn's agency list. WD Hearn has been Kitamura's sole representation in South Africa since 2015.

5-Axis Machining Centers

4G | 5G | 7G

Vertical Machining Centers

3XG | 3XiG | 2XD | 2XD SP
3XD | 4XD

Horizontal Machining Centers

HX 250iG up to HX 1000G

Double Column Machining Centers


6G | 8G | 10G | 12G

KITAMURA[®] INSTALLATIONS

Machining Challenges-Simplified[®]

CONFERHEUR ENGINEERING



 **Mould & Die**



 **Executive Engineering** BK



SAAO South African Radio
Astronomy Observatory



 **TIAGEN**
Industrial



HENTIQ





Nakamura-Tome

Multitasking Machinery

Nakamura-Tome Precision Industry is a Japanese manufacturer of highest precision Multi-tasking machines and CNC lathes. Exporting to 55 countries, Nakamura-Tome is consistently at the forefront of innovation.



SC100X²

MULTITASKING TURNING CENTER

Single Turret Model



AS200

MULTITASKING TURNING CENTER

Single Turret Model



JX200

MULTITASKING TURNING CENTER

Automatic Tool Changer

FERMAT

Fermat is a highly professional Horizontal Boring Mill Manufacturer from the Czech Republic.

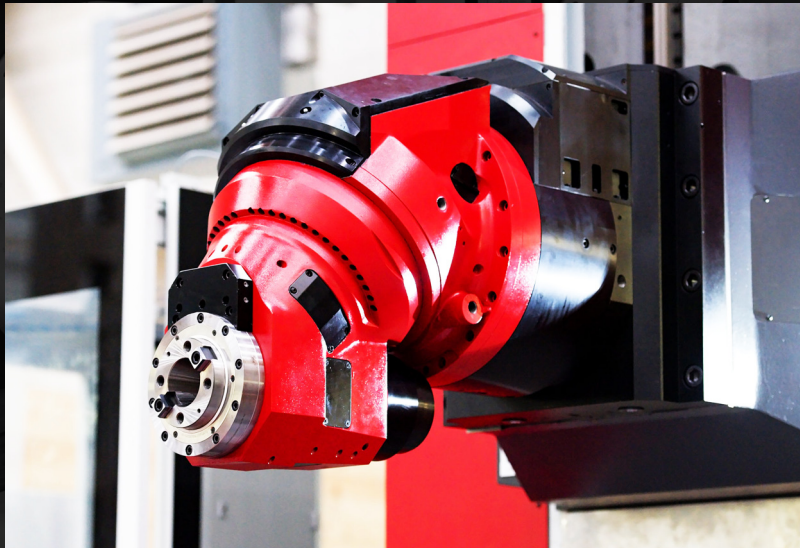
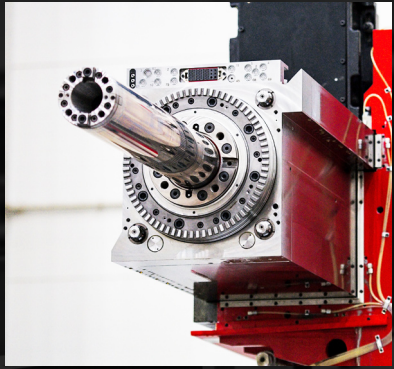


TABLE TYPE HORIZONTAL BORING MILL
Table Type Horizontal Boring Mill



FLOOR TYPE HORIZONTAL BORING MILL
WF 13 CNC



FLOOR TYPE HORIZONTAL BORING MILL
WRF 130/150/160 CNC

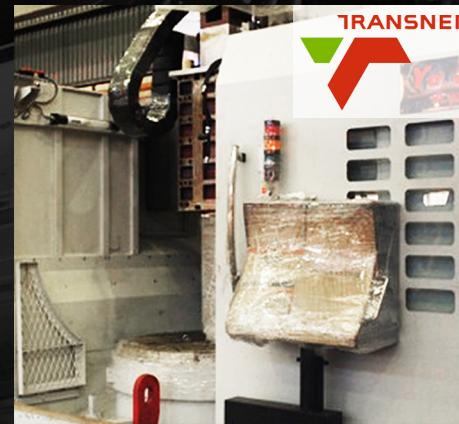


HORIZONTAL BORING MILL
WFC 10 CNC



VERTICAL TURNING CENTERS & VERTICAL BORING MILLS

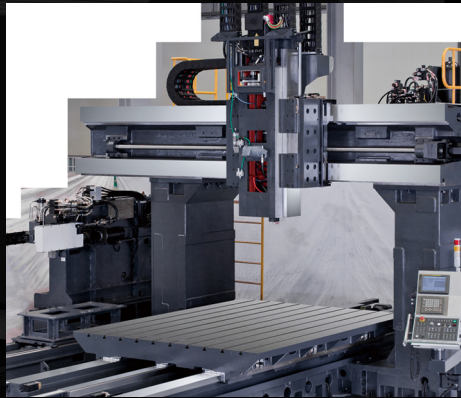
Yu Shine develops extremely rigid high-precision VMC's and Vertical Boring Mills. Servo Motor Driven Spindle, high rigidity Linear Guide Lay and stable Rotary Hydraulic Cylinder are all crucial to the accuracy of Yushine lathes.



SANCO

LARGE MILLING & BORING MACHINES

SANCO is a Taiwanese heavy duty machine tool company specialising in the manufacturing of CNC bed type universal milling machines, moving column type CNC's, double column machining centers with up to 25 meter travels, and CNC and conventional horizontal boring machines.



SANCO INSTALLATIONS



SVW-4222



SHM-800L



SHM-11020RF



SBM-4000L



SDM-16040MA



SVW-4222



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



**HORIZONTAL
TURNING CENTER**
CB-32M



52 CNC machines installed, commissioned and serviced at Cambro in Cape Town



TORNOS

SWISS TYPE TURNING

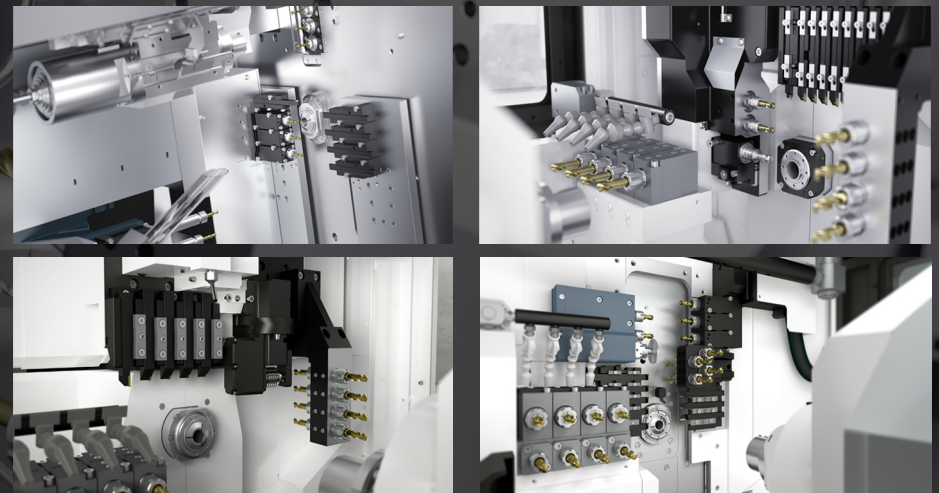
Tornos is a Swiss machine tool manufacturer that uses a range of machining technologies with swarf removal capabilities to produce parts requiring extreme precision and quality. Whether machining simple or highly complex parts in small or large runs, Tornos machines can offer you a solution guaranteed to meet your needs.

SWISS TURNING CENTERS

SwissDECO, EvoDECO, Swiss GT, Swiss DT, SwissNANO, CT-20

MULTI SPINDLE TURNING CENTERS

MultiSwiss



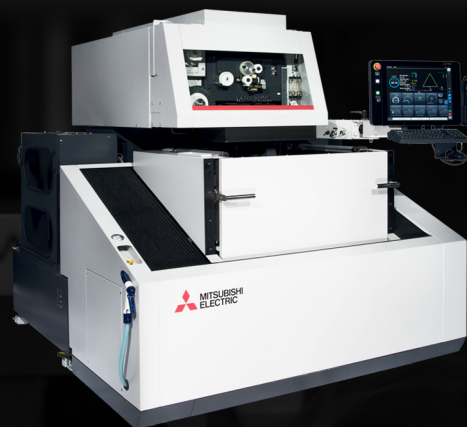


EDM & WEDM

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

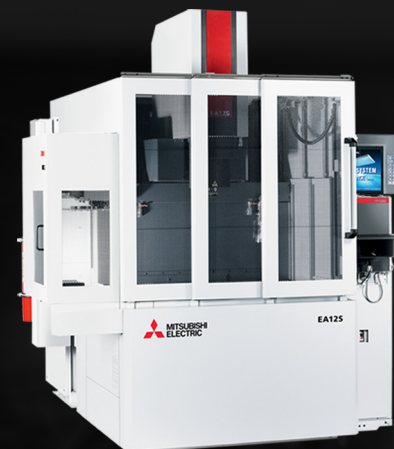


MV2400S



WIRE EDM MACHINE

MV1200S



SINKER EDM MACHINE

EA-12S ADVANCE



START HOLE DRILLING

START YGS-43C



ULTRA PRECISION WEDM

MX600



MITSUBISHI ELECTRIC

INSTALLATIONS



EDM AND WEDM TRAINING FOR
WD HEARN SERVICE ENGINEERS AT
MITSUBISHI RATINGEN GERMANY



MV2400S WEDM
INSTALLED AT DEFY IN DURBAN



MV1200S WEDM
1ST NFM INSTALLED IN DURBAN



MV1200S WEDM
2ND INSTALLED AT NFM IN DURBAN



EA8S EDM
CLASSIC CLOSURES IN CAPE TOWN



START YGS-43C
INSTALLED AT AMF IN GEORGE



MV2400R WEDM
INSTALLED AT SUMITOMO RUBBER

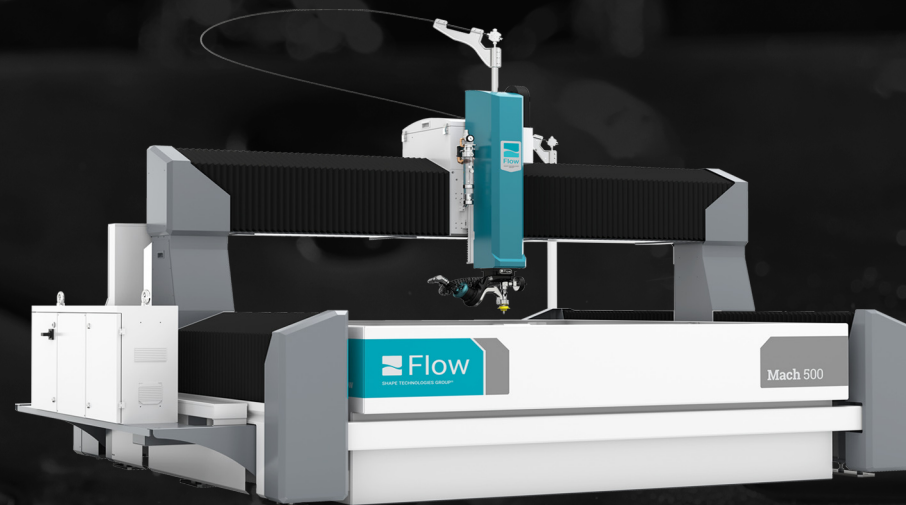


MV4800S WEDM
INSTALLED AT UTP IN JOBURG - AUTOMOTIVE



Waterjet Machines

Flow is the global leader in Waterjet Cutting Solutions. Waterjet cutting technology is one of the fastest growing machine tool processes worldwide due to the versatility and ease of operation. There are virtually no limits to what waterjets can cut. Since Flow first invented abrasive waterjets, technology has evolved to include waterjets that do more and cost less.



MACH 100 | MACH 200 | MACH 500
COMPONENTS ARE PLASTIC CARBON FIBRE



MACH 3 (7x2m) 6000BAR



MACH 2



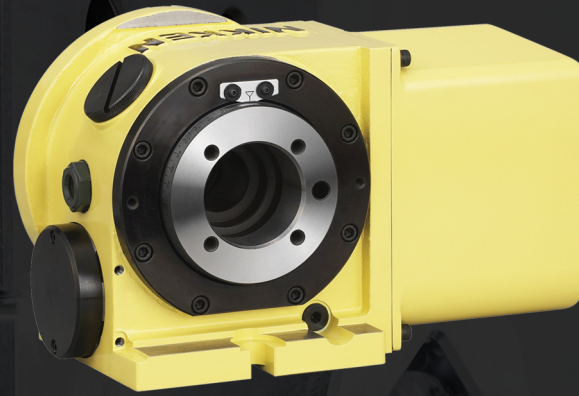
MACH 2b



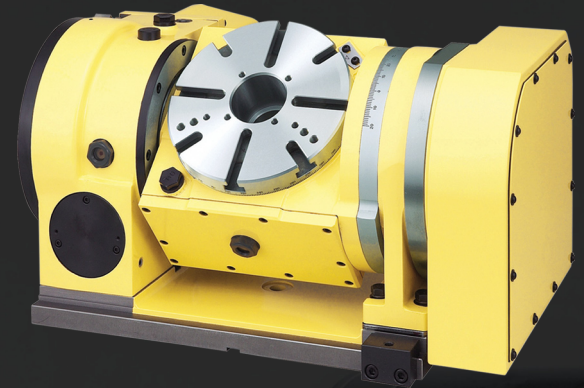
MACH 2b



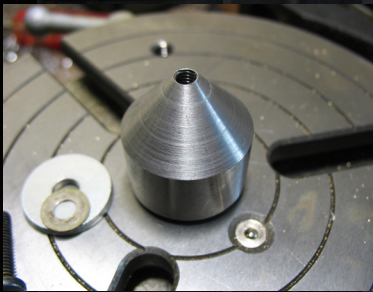
NIKKEN Kosakusho is a world-class manufacturer of CNC Rotary Tables, High accuracy NC Tooling and Tool Presetters. Operating in 3 continents and 70 countries, Nikken has a global reputation for exceptional service, professionalism, and the design and production of the highest quality market-leading machinery.



4TH AXIS ROTARY TABLE
CNC-105



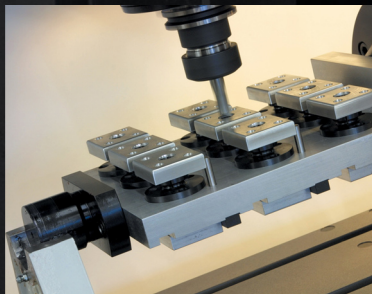
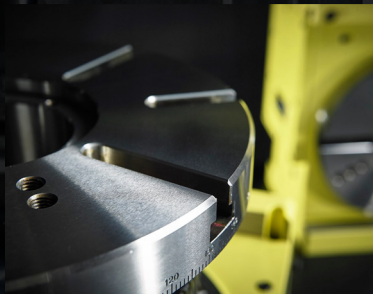
5TH AXIS TRUNNION TABLE
5AX-201



ANGLE HEADS
Standard and
Special Angle Heads



TOOL PRESETTERS
Entry level to
Top of the range



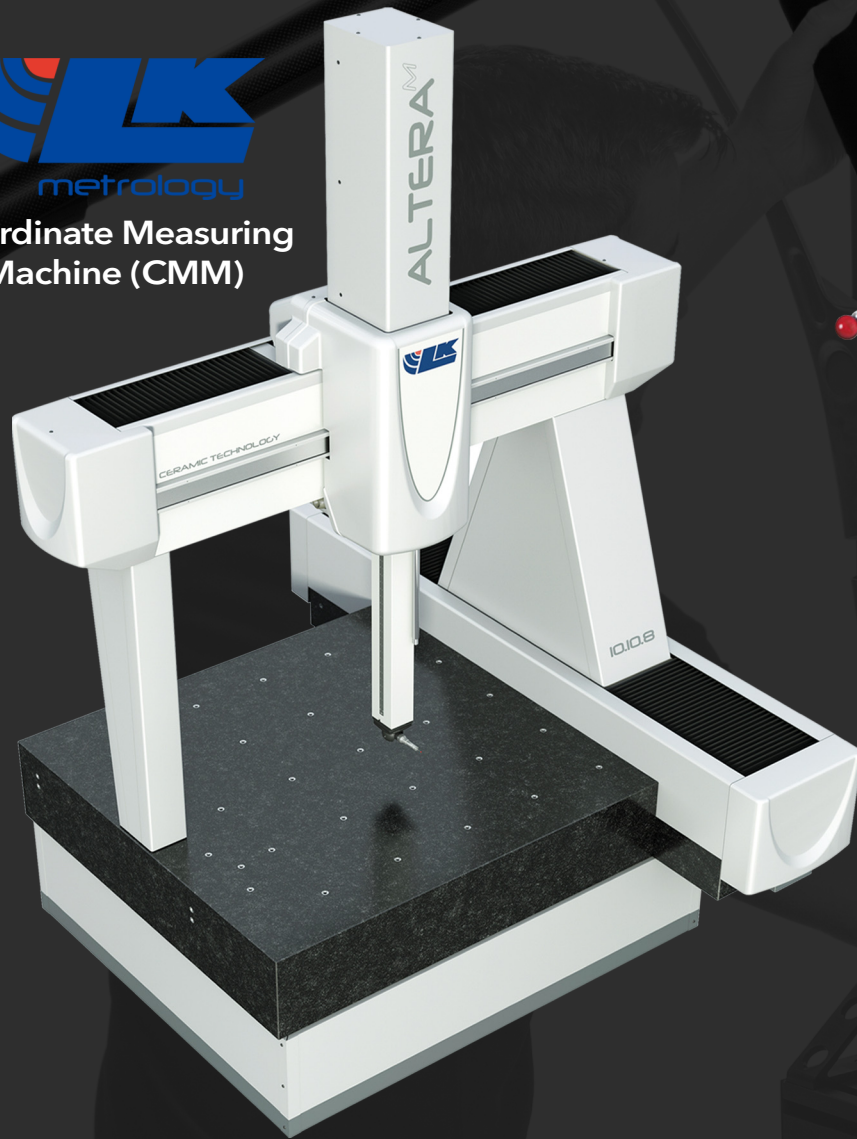
METROLOGY DEPARTMENT

RENISHAW
apply innovation™

Nikon



Coordinate Measuring
Machine (CMM)



Probing and Gauging Systems
Laser Measurement
Metal Additive Machines/3D Printers
Fixturing



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

RENISHAW®

METROLOGY SYSTEMS

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.

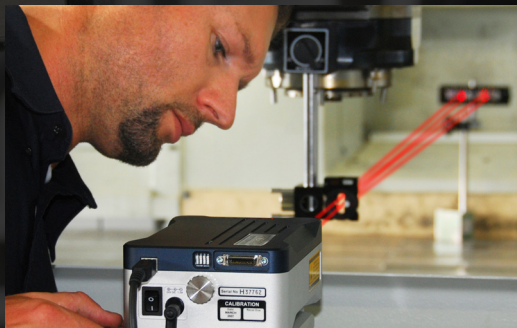
METAL ADDITIVE MANUFACTURING SYSTEMS (3D PRINTING)

AM250, AM400, RenAM 500M



LASER MEASUREMENT SYSTEMS

XL-80



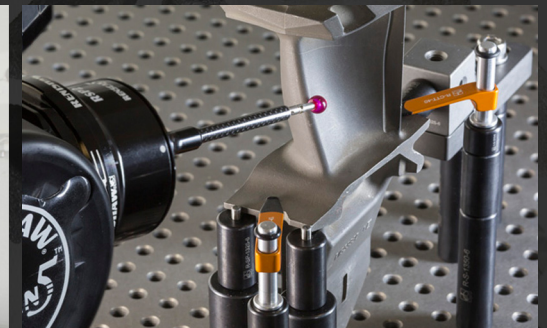
MACHINE TOOL MEASURING PROBES

OMP40, OMP60, NC4, OTS, TS27R, RMP40

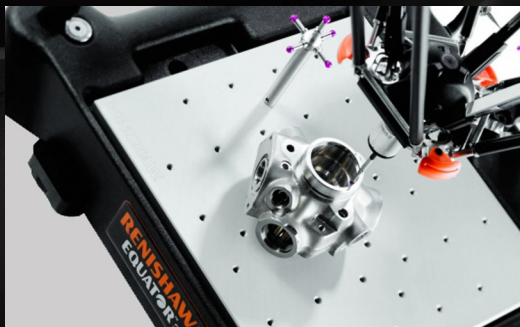


CMM FIXTURES AND VISION FIXTURES

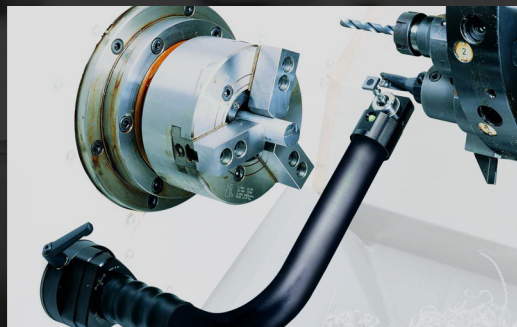
MODULAR AND CUSTOM FIXTURING



HIGH-SPEED INSPECTION GAUGE EQUATOR



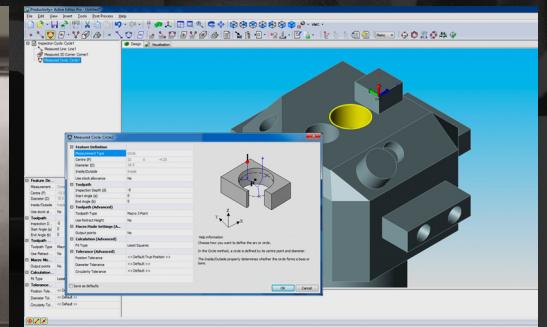
HIGH-PRECISION MOTORISED SWINGDOWN TOOL SETTING ARM HPMR



HIGH-PRECISION WIRELESS BALLBAR SYSTEM QC20-W



PROBE SOFTWARE FOR MACHINING CENTERS PRODUCTIVITY+



RENISHAW®

INSTALLATIONS

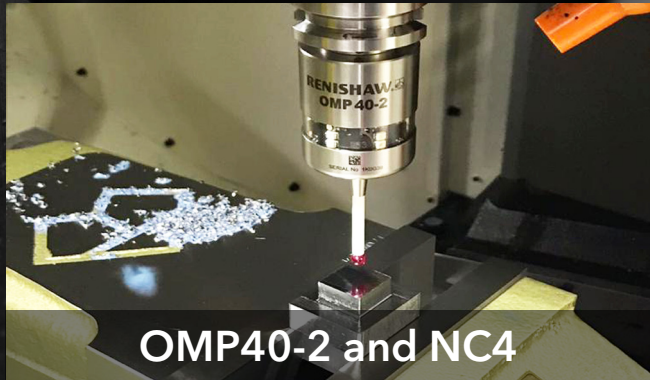


SA METAL GROUP

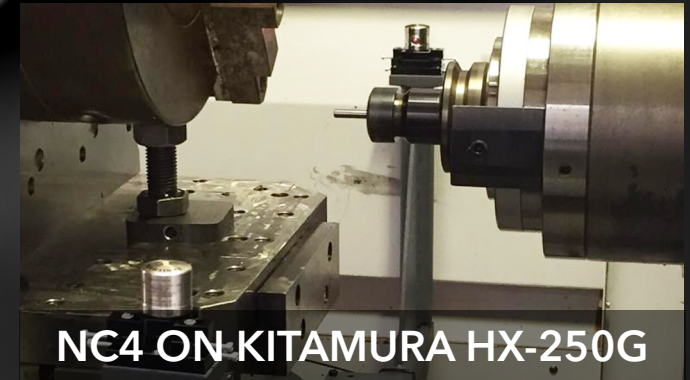


OMP40 TRANSMISSION PROBE

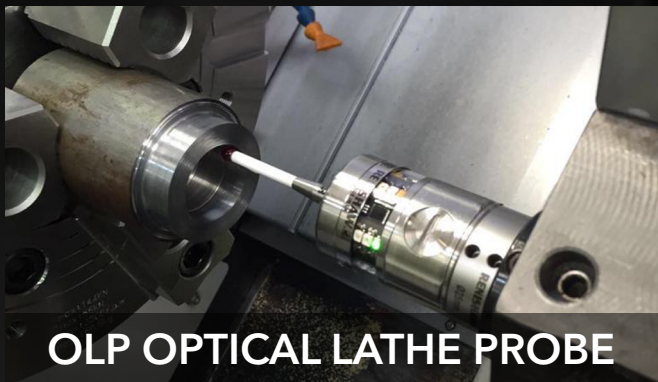
SUPEREXCEL



OMP40-2 and NC4



NC4 ON KITAMURA HX-250G



OLP OPTICAL LATHE PROBE



RMP-40 TRANSMISSION PROBE



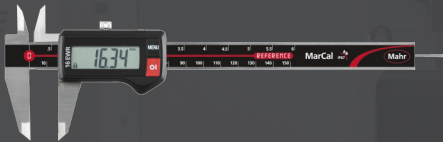
NC4 TOOL SETTING PROBE

WD Hearn MACHINE TOOLS
ESTABLISHED 1937

Mahr

Metrology Equipment

Mahr is a world-class market leader in the manufacture of extremely high precision Metrology Equipment. The German company has a global reputation second to none!



MarCal
Calipers



Micromar
Micrometers



MarTest
Test Indicators



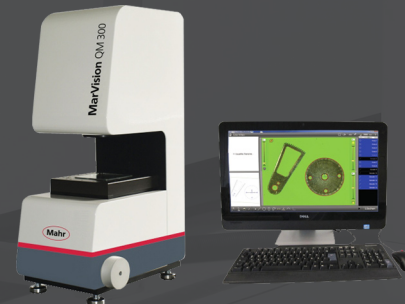
MarCator
Digital Indicators



Millimes
Dial Comparators



MarSurf
Surface Measuring Instruments



MarVision
Video Measuring



Digimar
Height Gauges



ALTERA SERIES CMM

The versatile ALTERA comes in a wide range of sizes with a broad choice of probing setups to suit any application and budget. The proven bridge design features all the latest advances in CMM technology, creating the newest generation of CMM for quality and production use.

COORDINATE MEASURING MACHINES (CMM)

LK Metrology's Coordinate Measuring Machines represent the ultimate in CMM technology. Designed and manufactured using only the highest quality materials, they carry a heritage of over 55 years experience and expertise. LK CMMs deliver the ability to perform dimensional, positional and surface measurement in a single system.



Nikon

Metrology Equipment

Nikon is a new global leader in the high precision metrology sector offering a vast range of CMM's, scanners, articulated arms and laser measuring systems to the worlds best OEM's.

MAJOR INSTALLATIONS



Nikon LK40.12.10



Nikon Altera 8.7.6



MV Series Laser Radar



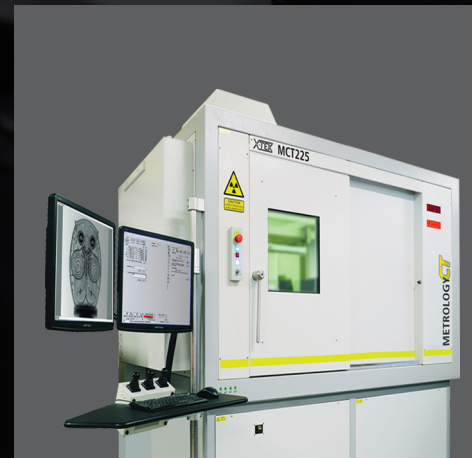
MCAx & H120

Articulated Arm and
Scanning Head



MV331/351

Laser Radar



MCT225

X-Ray and CT Inspection



FOCUS INSPECTION

Metrology Software

Starrett®

Precision Measuring Tools

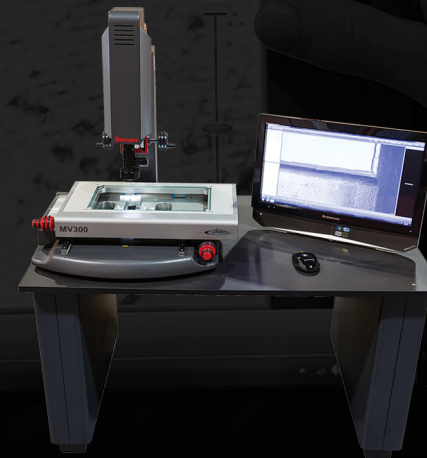
As well Vision Systems, Optical Measuring Projectors and Multi-sensor Measuring Systems, Starrett's product line also includes Precision Measuring Tools (Micrometers, Calipers, Rules), Levels, Electronic Gauges, Dial Indicators, Gauge Blocks & Granite Surface Plates, and custom engineered products.



AV300
CNC Vision System



HB400
Horizontal Optical Comparator



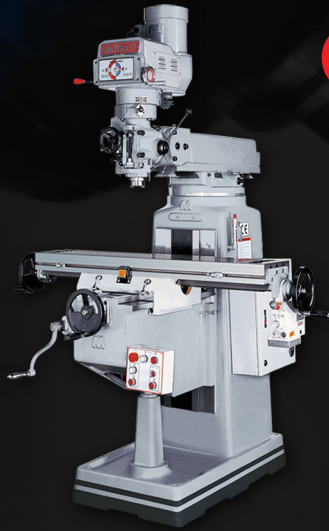
MV300
Manual Vision System



PROFILE 360
Profile Measurement System

CONVENTIONAL MACHINES

WD Hearn offers Conventional Machines and stocks a vast range of Tooling and Spares



2VS/3VS/4VS
Milling Machine



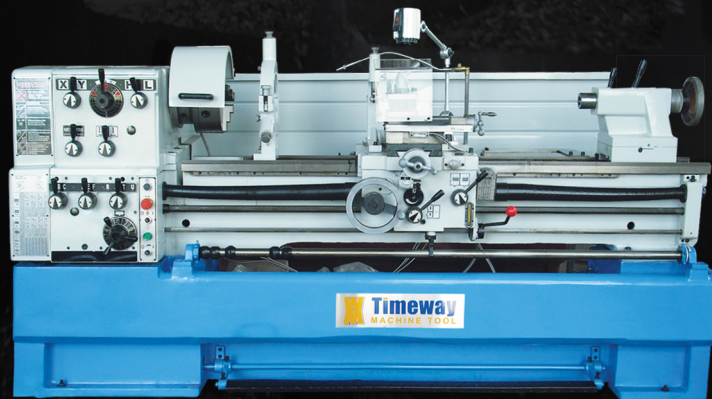
DMTG CDL SERIES
Conventional Lathe



Z5035/Z5050
Geared Head Drill



KB30, KB36, KB45
Vertical Band Saw



TIMEWAY
MGap Bed Lathes

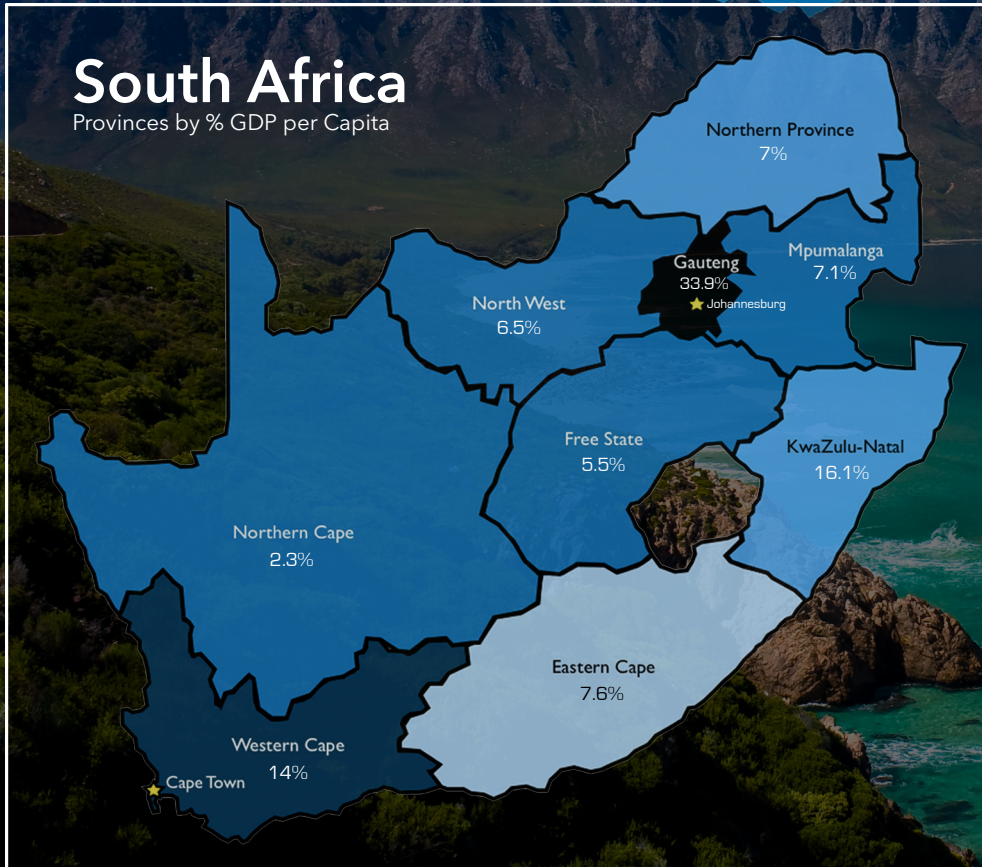


SG4080 AHD
Surface Grinder

SOUTH AFRICA OVERVIEW

South Africa

Provinces by % GDP per Capita



- Population: 60.8 Million
- SA's GDP: The 39th biggest worldwide at 400 Million Dollars - 2023 figures
- GDP Growth: 2017 - 1.2% | 2019 - 0.3% | 2021 - 4.9%
2023 - 0.6% (First half)
- Economic powerhouse of Africa, 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!

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