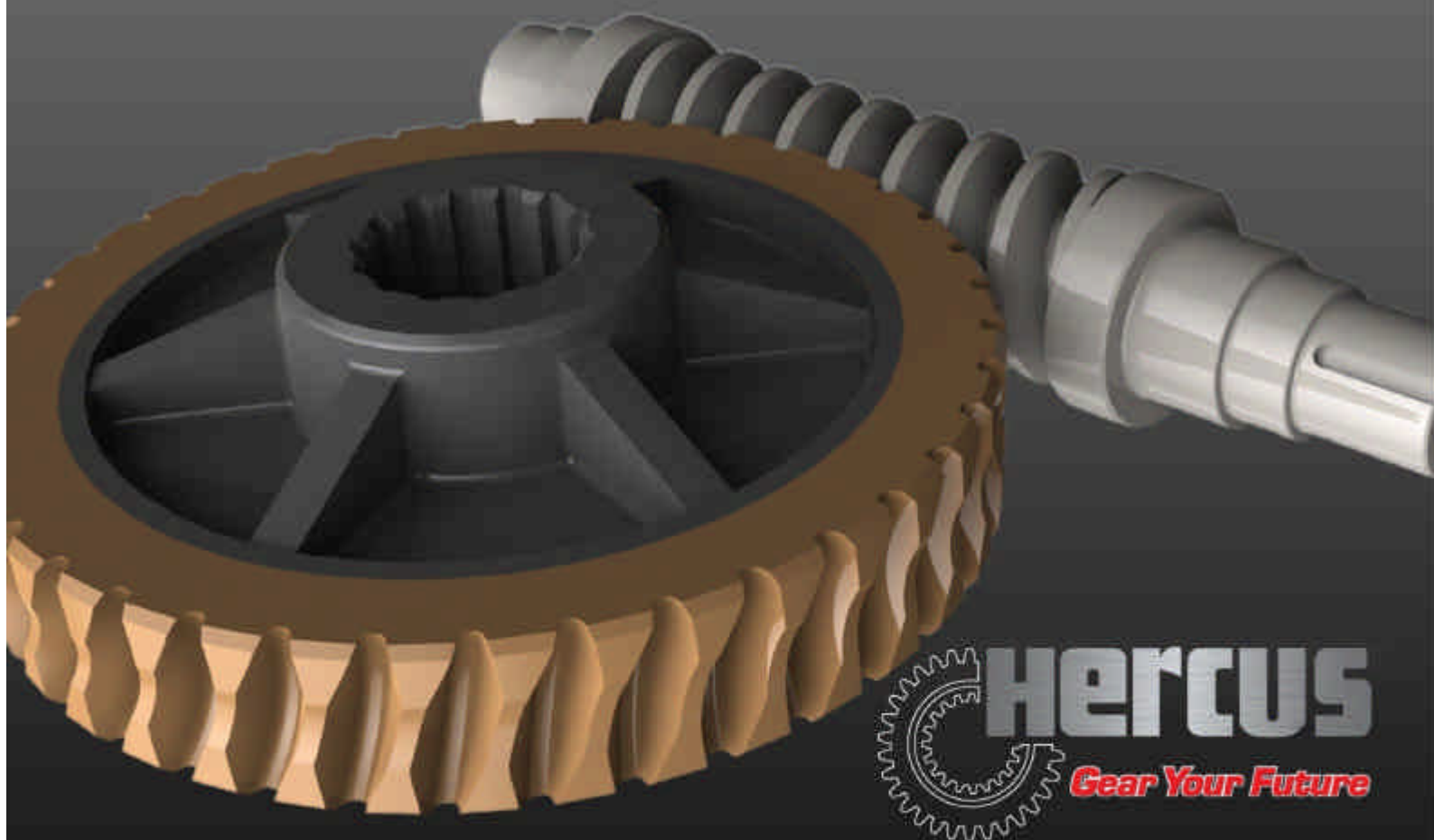
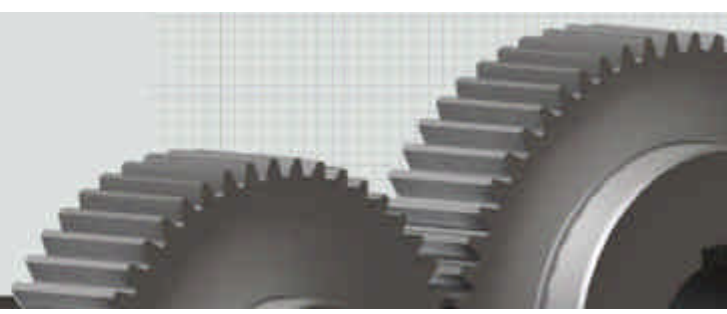


# COMPANY PROFILE



[www.hercus.com.au](http://www.hercus.com.au)



## *Welcome To Hercus*

Hercus is a well established Engineering Company involved in the Manufacture, Service, Repair and Marketing of a variety of products, these include Industrial Transmission Equipment and General Engineering Products. Hercus also import a variety of components to enhance their product range.

Hercus work within Quality and Safety Systems as a method of continuous improvement, this resulting in minimal non-conformances and meeting or exceeding customer expectations. Hercus, irrespective of customer requirements, applies certain basic procedures to ensure uniform work methods to a pre-determined standard.



## General Information

### Environment Statement

Hercus is a company that has been involved in manufacturing for nearly 90 years and is committed to operating its Business in a safe, efficient and sustainable manner, delivering its products in a timely manner that meets or exceeds its customer expectations, F.W. Hercus Pty. Ltd. is 100% Australian owned by the “Durden” group of companies.

Accordingly, our business activities will be planned and conducted to minimise and where possible avoid adverse effects on the natural environment and social surroundings for the benefit of current and future generations

In implementing our policy we will

- ensure that environmental considerations form part of our business planning and decision making processes.
- promote a culture of responsible environmental management.
- protect the natural environment and social surroundings.
- minimise pollution and waste product.
- comply with applicable environmental laws
- continually improve our environmental performance
- communicate openly and transparently with shareholders on environmental matters
- engage the community in environmental initiatives aligned with our business values.

### Community Statement

Hercus is a company that supports local community organisations and our commitment over the last ten years has mainly been towards education and personal development of young people.

Hercus and its employees have and continue support organisations and events like

- Work Experience for High School Students
- Sea Scouts - Scouts Australia
- Local junior Soccer and Football clubs
- Pedal Prix – Several High Schools

Hercus will continue to support community events and associations through monetary donations and or goods and services.

F W Hercus Pty Ltd is please to be known as an Equal Employment Opportunity Employer. This means that all employees will be treated equally in all matters relating to recruitment, selection, remuneration, training and development, transfer, promotions, leave and termination. As with all F W Hercus Pty Ltd employees your employment will not be influenced in any way by your nationality, colour, gender, sexual preferences, religion, physical or intellectual impairment, marital status, pregnancy or age.

## Hercus Personnel

Currently, there are 23 personnel employed with Hercus, and the majority of Hercus staff are qualified trades people.

The flexibility of our team allows us the opportunity to use their skills in various sections of the work shop and in turn this assures that our delivery schedules are met, especially when a “breakdown” situation occurs with our customer.

Hercus also has a very capable Sales, Engineering and Administration team who have either a Metal Trade background, or have worked within the industry for many years.

Hercus does have a strong commitment to training its employees, and currently have a range of apprentices working to complete their “Fitter & Machining” certificate.

To guarantee Hercus commitment to you our customer, please refer to the following Hercus Representatives if you have any Sales or Quotation requirements.

William Durden – General Manager  
Steven Durden – Sales Manager  
Allan Durden – Quality, EHS and Design Manager  
Keith Jones – Operations Manager

### ***William Durden (Bill) – General Manager***

Bill is a certified tradesman who has been within the Metal Industry since 1986 and has strong back ground in CNC Machining and Programming on both lathes and mills.

During 1997 Bill was appointed General Manager of F W Hercus Pty. Ltd and currently holds this position.

In 1998 Bill completed the “Certificate in Business Management Practices” and is currently a member of the “Executive Connection”.

Mobile number : 0409 287 830  
Email : [wjdurden@hercus.com.au](mailto:wjdurden@hercus.com.au)

## Hercus Personnel - cont.

### ***Steven Durden (Steve) – Sales Manager***

Steve is certified tradesman who has been within the Metal Industry since 1980 and has an experienced understanding of the Metal Industry, his main strength is “Sales” where he has held positions as a Sales Representative then onto Sales Manager since 1985.

During 1995 Steve was appointed Sales Manager of F W Hercus Pty. Ltd and currently holds this position.

In 1988 Steve completed the “Diploma of Business Management ”.

Mobile number : 0418 852 285  
Email : [steved@hercus.com.au](mailto:steved@hercus.com.au)

### ***Allan Durden – Quality, EHS and Design Manager***

Allan is a certified tradesman who has been within the Metal Industry since 1978.

Allan has an excellent understanding of the Metal Industry, and with this experience has been involved with:

- Machine Tool design
- Production Control
- Introducing and maintaining Quality and Environment, Health and Safety Systems
- Design and drafting of engineering products for Hercus customers
- Maintaining Hercus IT systems
- Purchasing Dept.

Mobile number : 0408 806 505  
Email : [alland@hercus.com.au](mailto:alland@hercus.com.au)

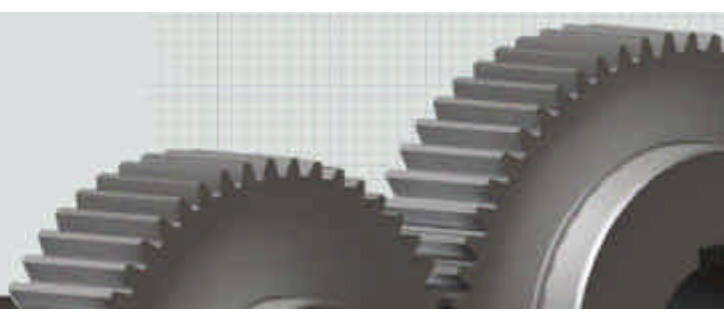
### ***Keith Jones – Operations Manager***

Keith has over 25 years experience within the Metal Industry, and during this period has held a managerial role for over 10 years.

Prior to Keith joining Hercus 2005, Keith has worked at other well established engineering companies and has brought a wealth of experience to Hercus.

As Factory Manager, Keith has total control of all Factory operations and this guarantees a continuity of quality and delivery.

Mobile number : 0407 807 035  
Email : [keithj@hercus.com.au](mailto:keithj@hercus.com.au)



## Machining Capabilities

The Hercus manufacturing facility is located at 12 Camira St, Regency Park, South Australia, here we have some 4,000 plus square metres under cover and the factory consists of many departments, these are identified and explained in the following pages.



## Machine Shop

The Machine shop utilises approx 1/3 of the Hercus facility and includes manufacturing cells to cover a broad range of engineering tasks, these include Turning, Milling, Drilling, Gear Cutting, Slotting / Broaching, Grinding, CNC Machining and Fabrication departments.



## Assembly Shop

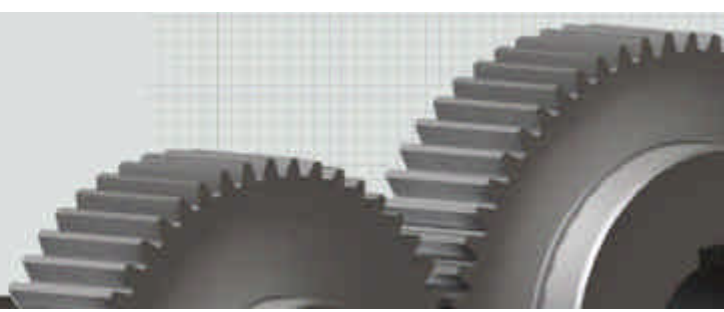
Hercus have a range of assembly areas to accommodate a range of tasks, these include the ability to assemble small high volume components through to repairs of large industrial gearboxes. Capabilities in these areas also included Paint Shop facilities, large 300 tonne Bearing Press, 6T Overhead Cranes and 8T Forklift.



## Sub – Contractors

Hercus can offer their customers a complete solution to their engineering needs, we utilised specialist Sub-Contractors to perform tasks such as Design Engineering, Material Inspection, Heat treatment and Transport.

Please contact one of our representatives to discuss your next engineering project.



## Machining Capabilities - cont.

### Turning Department

#### Conventional Lathes

##### Macson Lathe

- 533mm swing x 2400mm between centres,  
Swing over saddle - 390 mm

##### Mazak Lathe

- 870mm swing x 4000mm between centres,  
Swing over saddle - 530 mm

Hercus also have a range of  
smaller centre lathes

#### Vertical Borer

##### Bullard

- 1066mm swing x 800mm face width



### Milling Department

#### Conventional Mills

##### Vertical

##### Parkinson Mill - two off

- up to X axis 1800mm  
x Y axis 700mm x Z axis 300mm work area

##### Horizontal

##### Sundstrand Bed Mill

- X axis 2300mm  
x Y axis 200mm x Z axis 150mm

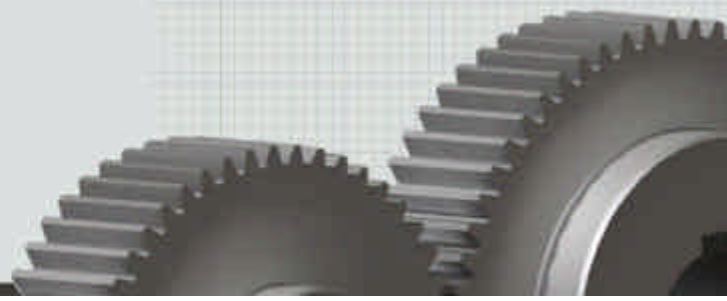


### Drilling Department

##### Town Radial Arm Drill

- 2000mm x 2000mm x 1200mm, can drill up 50mm hole

Range of Pedestal Drills and Series Drills.



## Machining Capabilities - cont.

### Gear Cutting Department

#### Spur and Helical Gears

Hercus can cut Straight Tooth, Helical Tooth and Double Helical Tooth gears. With regard to Double Helical Gears, Hercus can cut up to a 250mm Face Width, at 30 or 22 ½ degree helix angles.

##### Maximum

Horizontal – Sunderland Generator

- 1440mm swing x 230mm face width, up to 1 DP (25.4 MOD)

Vertical – TOS Hobber

- 1000mm swing x 400mm face width, up to 2.5 DP (11 MOD)

##### Minimum

Horizontal – Sunderland Generator

- 20mm swing x 100mm face width, up to 120 DP (0.2 MOD)

Vertical – Hamai Hobber

- 10mm swing x 150mm face width, up to 120 DP (0.2 MOD)

#### Bevel and Mitre Gears

Heidenreich & Harbeck - Minimum 20mm swing x 48 DP (0.52 MOD)

Gleason - Maximum 768mm swing x 4 DP (6.35 MOD)

#### Internal Gears - Spur

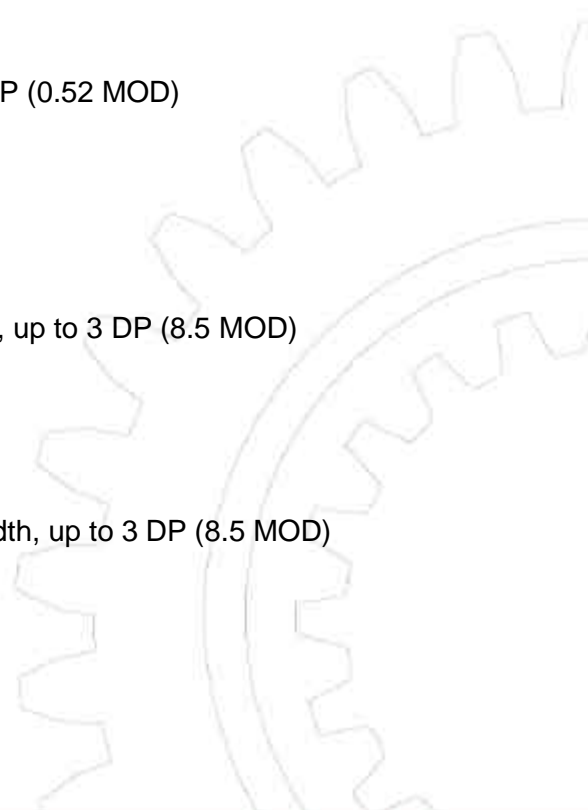
Fellows - Maximum 610mm swing x 125mm face width, up to 3 DP (8.5 MOD)

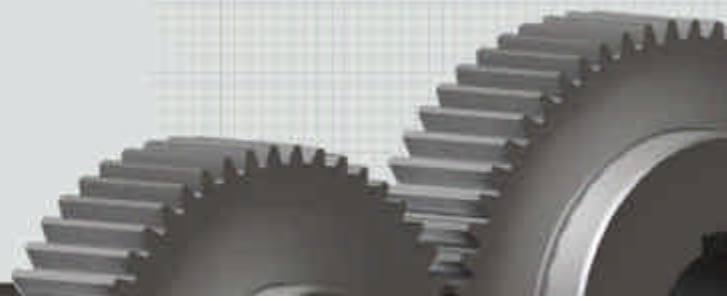
#### Gear Racks

Sykes Rack Generator

- Maximum length per pass 2000mm x 120mm face width, up to 3 DP (8.5 MOD)

Can cut up to any length rack





## Machining Capabilities - cont.

### Gear Cutting Department - cont.

#### **Worm Wheels**

TOS Hobber

- Maximum 1000mm swing x 150mm face width, up to 2.25 DP (11 MOD)

#### **Tooth Pointing**

Hey Gear Pointer - Both Internal & External Gears can be pointed

#### **Worm Milling**

Lee-Bradner Worm Mill

- 204mm swing, centre distance is not restricted.

Can mill various pitches with multiple starts.

### Slotting and Broaching Department.

#### **Slotters**

Butler Large

- 1200mm swing x 500mm stroke length

Butler Small

- 600mm swing x 230mm stroke length

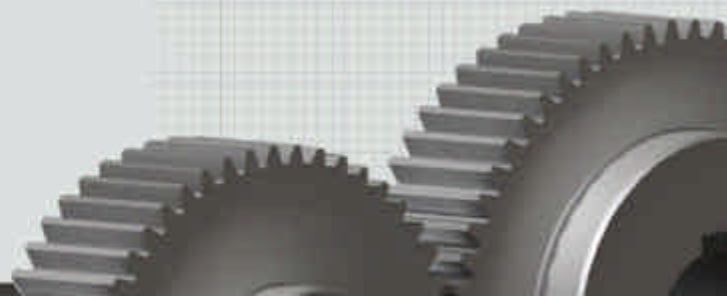
maximum key size = 50mm

#### **Broach**

K & G Horizontal

- maximum key size = 16mm (5/8")





## Machining Capabilities - cont.

### Grinding Department

#### Spur and Helical Gears

Niles Gear Grinder

- swing 800mm x 220mm face width.
- Can grind from 2.25 DP o 10 DP (11.3 MOD to 2.54 MOD)

#### Worm Grinding

Hercus Worm Grinder

- swing 204mm x 1400mm between centres.
- centre distance can be extended.

Can grind various pitches with multiple starts.

#### Slash Grinding

Churchill Slash Grinder

- 460mm wide x 1500mm long work area

#### Surface Grinding

Churchill Surface Grinders

- 250mm wide x 1600mm long work area

#### Cylindrical Grinding

Lomma External Grinder

- 340mm swing x 800mm between centres

Hercus Internal Grinder

- 200mm swing x 500mm between centres

#### Dovetail Grinding

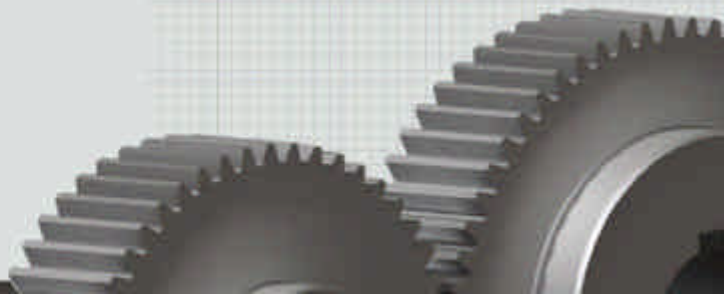
Hercus Dovetail Slide Grinder

- 300mm wide x 800mm long work area

#### Specialised Grinders

Hercus has a range of Tool & Cutter, Knife & Gear Hob grinders





## Machining Capabilities - cont.

### CNC Lathe and Machining Centre Department

For over 30 years, Hercus CNC Lathe and Machining Services has built a reputation of providing quality product, whether a one off or mass produced component. To further enhance our CNC Lathe capabilities, Hercus utilise "Solidworks" and "Featurecam" for all our Cad/Cam needs.

#### CNC Lathes

Goodway GLS200 with Bar Feeder

- Swing 460mm x 500mm between centres  
Swing over saddle – 380mm

Annn Yang DY860

- Swing 860mm x 3000mm between centres  
Swing over saddle – 530mm

#### CNC Machining Centres

##### Vertical

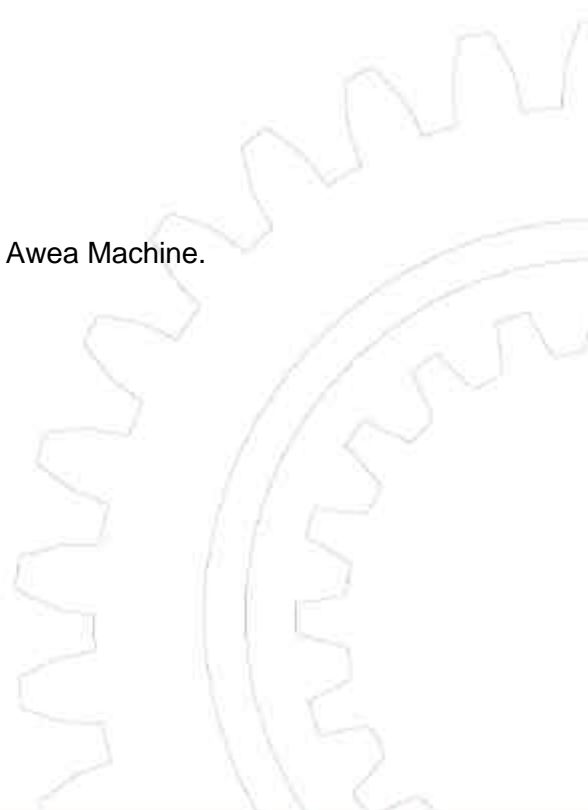
Awea BM1200 fitted with "OI-MC" Fanuc controller  
X axis 1200mm x Y axis 600mm x Z axis 600mm

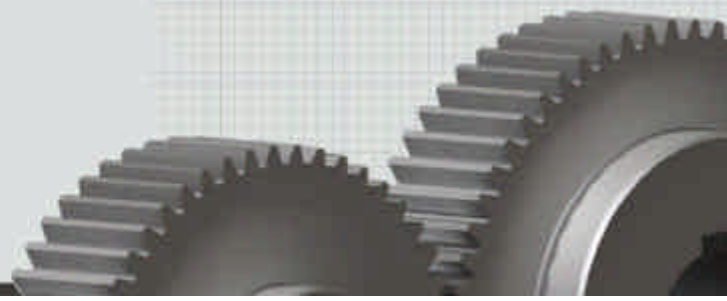
Awea BM1100 fitted with "18I-MB" Fanuc controller  
X axis 1100mm x Y axis 600mm x Z axis 600mm

A 4<sup>th</sup> Head with infinite movement can be fitted to either Awea Machine.

##### Horizontal

OKK MCH400 with Mitsubishi controller  
X axis 600mm x Y axis 400mm x Z axis 450mm  
With "B" axis table, 5 degree movements





## Machining Capabilities - cont.

### Fabrication Department

Hydracut Guillotine  
– 2400mm wide x 5mm thick sheets

Kleen Folder  
– 2400mm wide x 2.5mm thick sheet

### Welding Shop

Hercus welding capabilities include

- Arc
- Mig
- Spot Welding

### Bearing Presses

Niles Horizontal 300 tonne  
– 2200mm swing x 4000mm centre distances (centre distance is not fixed)

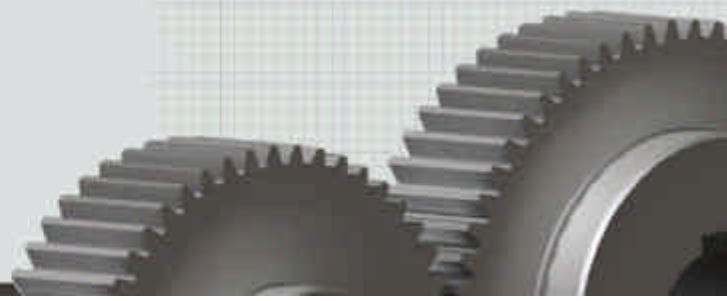
Hawke Vertical 100 tonne  
– 1000mm swing x 500mm height

Hawke Vertical 60 tonne  
– 1000mm swing x 500mm height

### Overhead Crane and Lifting Capabilities

- 6 tonne over head crane
- 8 tonne fork lift





## Machining Capabilities - cont.

### Assembly Department

- Strip, report and then reassemble Gear Boxes up to 8 tonnes (larger gearboxes can be worked on, Hercus must be notified of weight)
- Refurbishing a wide range of Gearbox “styles”
- Refurbish “Axle & Roller” assemblies
- Fitting of bearings, and similar products
- Transmission Products and Assemblies
- Assembly of “Production” items.
- Fault finding
- Facilities to perform a range of painting and coating processes

### Sub-Contractors

Hercus has access to a large range of “External Contractors”, these included:

- Surface preparation
- Heat Treatment
- Metal Finishers
- Fabricators
- Outside machinists, when required
- Material Inspection and Reporting
- Engineering

