



BBG

ENGINEERING

DESIGN. DEVELOP. MANUFACTURE.

BBG ENGINEERING CC

COMPANY OVERVIEW



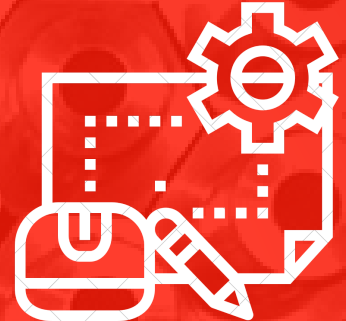
EXPERIENCE

An expert is a man who has made all the mistakes which can be made, in a narrow field.



HIGH PRECISION

Machining low volume components up to repetitive, medium to high volume production

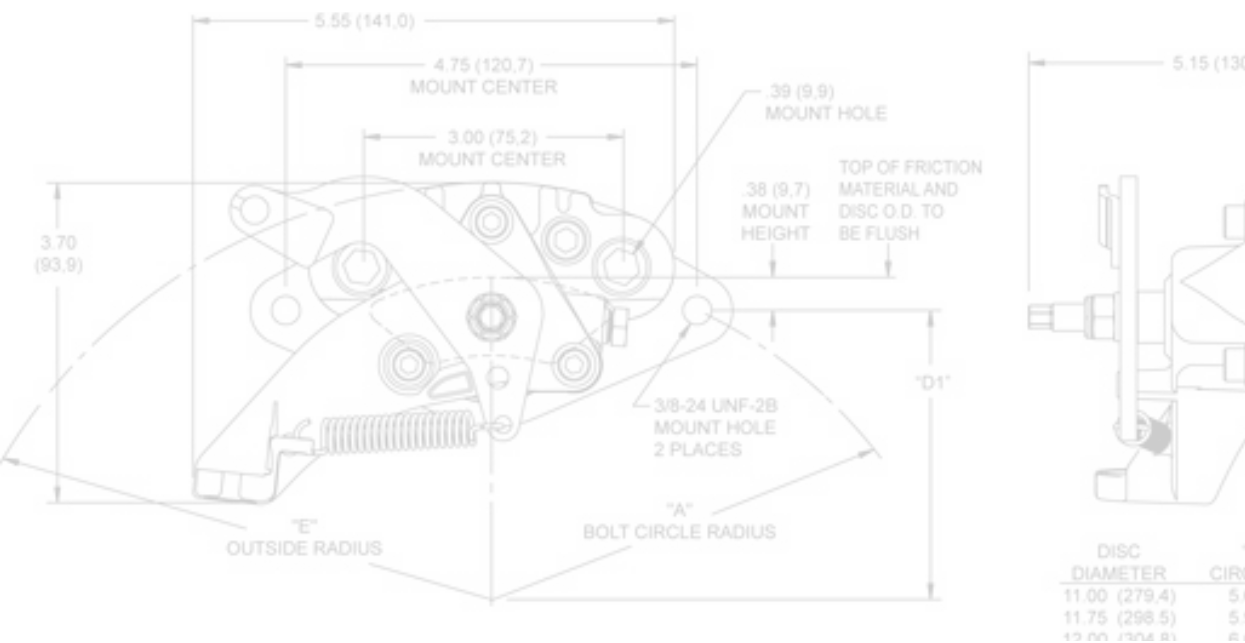


INNOVATION

A design and manufacturing company dedicated to consistently innovating to improving our competitive edge.

BBG ENGINEERING CC

WHO WE ARE



BBG Engineering has the ability to provide services to the engineering industry from conceptual design through to final manufacturing design, prototype manufacturing and production. Development and integration are approached in a structured manner supported with the relevant documentation, research and revision control, in order to obtain appropriate engineering

solutions. It originates in the aerospace and defence environment where the complexity of high-tech systems demands a rigorous approach and strict adherence to specifications and processes.

We are experts in the fields of innovative product design and optimised manufacturing processes, understanding and managing the supply chain.

We design in-house through our staff of highly qualified and competent Mechanical Engineers with backgrounds ranging from aerospace and defence to automotive and structural design. Using CAD and CAM tools such as SOLIDWORKS , Mastercam and Cura to create, simulate and manufacture our designs.

**PERFECTION
IS ACHIEVED,
NOT WHEN
THERE IS
NOTHING
LEFT TO ADD,
BUT WHEN
THERE IS
NOTHING
LEFT TO TAKE
AWAY.**

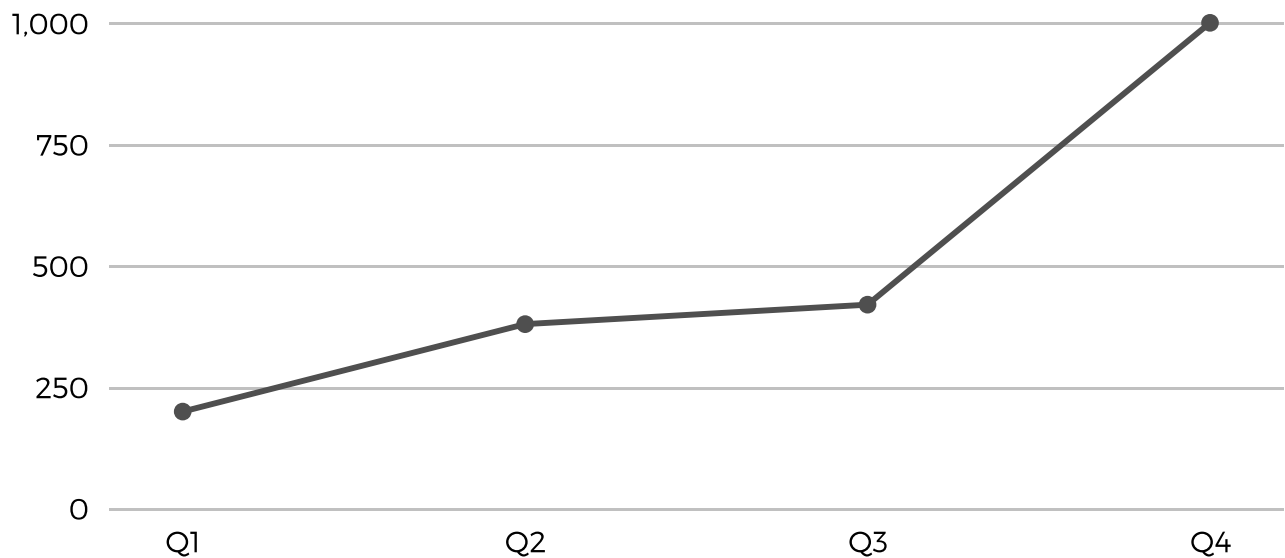


These tools provide a basis for performance validation, rapid prototyping, structural optimization, manufacturability and efficiency.

BBG has been involved in customizing OrderCtrl for the engineering industry. This turnkey software is a real time production tracking, allowing our customers access to product information, stage of production, as well as all dispatch information. The system provides us with full traceability and tracking of all jobs at hand as well as a full history of the manufacturing process.

OUR NUMBERS

EXECUTIVE SUMMARY



FINANCIAL CONSIDERATIONS

20%

**INCREASE IN GROSS
REVENUE**

A big project involves overseeing a lot of moving parts, oftentimes from different people. To have a successful rollout, project managers rely on a well-crafted project plan to ensure objectives are met on time and on budget.

20%

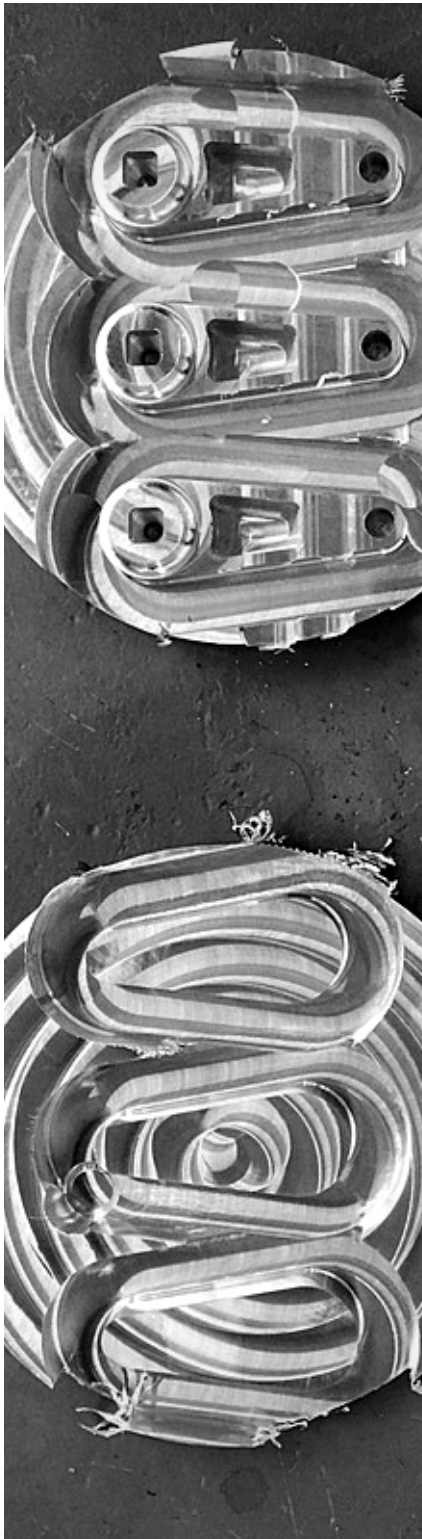
IN NET INCOME

The company expects to reach the desired profits in the next six months and does not anticipate serious cash flow problems. We believe that the average profitability per month for the first 3 years will be sufficient. Most of the company's liabilities come from management investment.

10%

**DECREASE IN GROSS
EXPENSE**

COMPANY STATEMENT



BBG applies the concept of system engineering into all its product ranges and services. This ensures that final output conforms to the user requirements in all aspects of form, fit and function. This may lead to combining the principles of mechanical- and electrical/electronic engineering with composites technology to provide the client with a product unique to his requirements

PURPOSE

To be a leader in the precision engineering industry by providing enhanced services, quality products, precision components, building customer relationships and profitability to both ourselves and our customers.

VISION

To provide quality services, products and components that exceeds the expectations of our esteemed customers.

MISSION

To build long term relationships with our clients and provide exceptional customer services by pursuing business through innovation and advanced technology. BBG Engineering is driven by continuous improvement and growth.

COMPANY COMMITMENT



The concept of Total Customer Satisfaction is a companywide commitment. Customer feedback is always valued and progressive changes are continuously made to ensure that the customer is satisfied.

HISTORY

Since our establishment in 2009 with 2 machines and staff compliment of only 1 we have grown into an industry leader with a much bigger staff compliment ranging between 12 to 15 at times, 7 CNC and 5 Manual machines producing 100 000+ components per annum, 2 3D Printers and a Coordinate Measuring Machine. We have joint ventures with laser cutting, wire cutting and surface treatment.

B-BBEE

BBG Engineering is proud to be a Level 4 Contributor, and BBG Consulting a Level 2 contributor,

as per the latest amended generic enterprise scorecard.

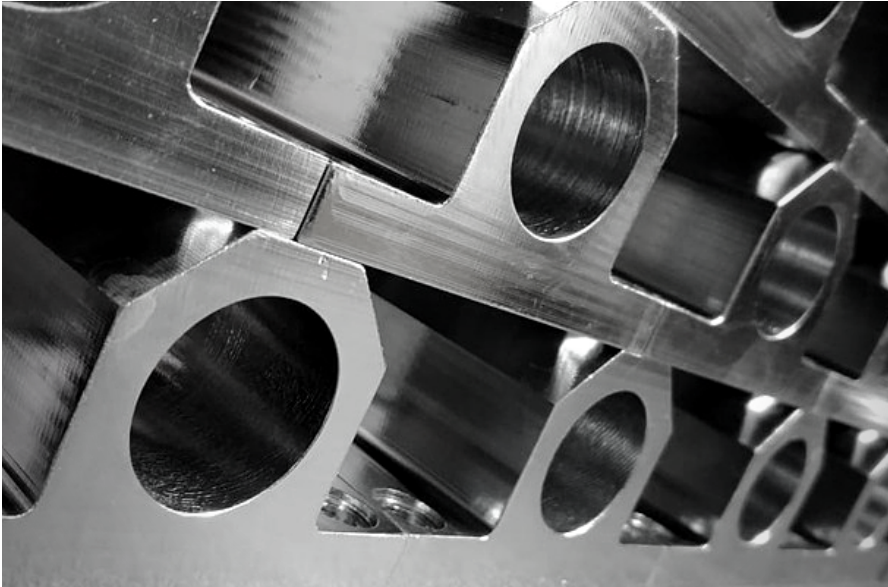
HIGH STANDARD

Providing products and services of the highest standard in the most economically feasible method to the customer requirements.

QUALITY MANAGEMENT

BBG Engineering is a company where continual improvement in the workplace is encouraged and enforced. Strict policies, procedures and systems are in place for both work in progress as well as final quality inspection.





assistance with the design phase, manufacturing and testing of these projects, as well as creating an internship for the students.

CORE VALUES

We believe in treating our customers with respect and faith. We grow through creativity, invention and innovation. We integrate honesty, integrity and business ethics into all aspects of our business functioning.

BEST ADVICE

BBG Engineering is owned and managed respectively by two B-Tech Mechanical Engineers which have traveled through various aspects of the Engineering industry and have experimented with many variations of design and manufacturing within the industry.

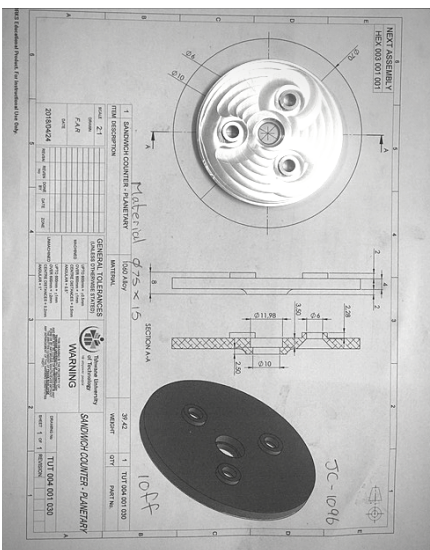
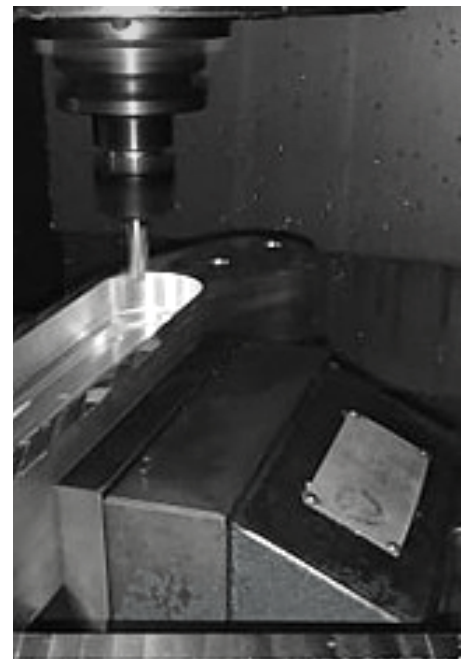
We don't say that we know it all, but we do love a challenge.

We are passionate and energetic about unearthing effective solutions.

SOCIAL UPLIFTMENT

As part of our social responsibility programme, BBG Engineering provides on-going support to our local community. This includes projects run by Dignity Dreams, who run an incubator in Pretoria to upskill women from previously disadvantaged communities, providing menstrual education to school girls and providing sustainable solutions.

Furthermore, BBG Engineering is closely involved with Tshwane University of Technology's Faculty of Engineering and the Built Environment since 2009 as a sponsor. Consulting with students and staff on projects such as the Sasol Mini Baja and Sasol Solar Challenge. Our involvement ranges from



COMPANY CAPABILITY



DEVELOPMENT AND DESIGN

Mechanical design engineers available for consultation.

Drawing office with experienced draughtsmen.

Solid modelling for intricate designs.

Rapid prototyping services available when sample required.

Protection of intellectual property of customers.

Consulting on continuous development and efficiency enhancement.

NEW DEVELOPMENTS

New equipment designed to customer specification.

Designs to customer requirements.

Modification to existing designs.

Turnkey designs.

MANUFACTURING

MANUFACTURING

Low- to Ultra precision component manufacture.

Complete client product manufacturing and assembly.

Aftersales support to customers.

Detailed quality control of customer's orders.

MACHINE CAPABILITIES

TOP CLASS ARTISANS WITH QUALITY EQUIPMENT
CAPABLE OF DELIVERING WORLD CLASS COMPONENTS.

CNC LATHE

LATHE 1 (3 AXIS)

- 300mm BETWEEN CENTRES
- Ø175mm SWING

LATHE 2 (3 AXIS)

- 335mm BETWEEN CENTRES
- Ø300mm SWING

LATHE 3 (4 AXIS)

- 420mm BETWEEN CENTRES
- Ø300mm SWING

MANUAL LATHE

LATHE 1

- 850mm BETWEEN CENTRES
- Ø320mm SWING

LATHE 2

- 900mm BETWEEN CENTRES
- Ø400mm SWING

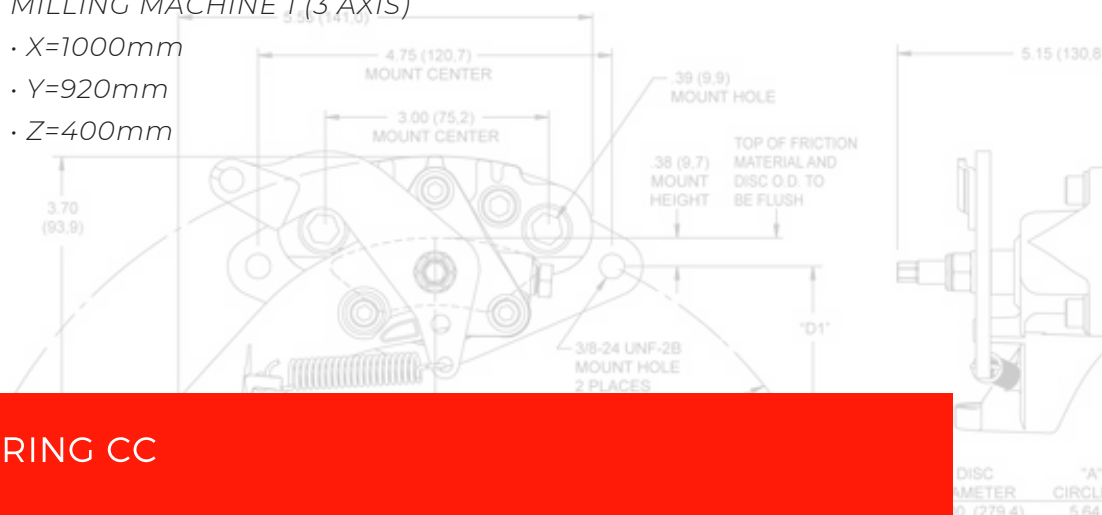
LATHE 3 (4 AXIS)

- 2000mm BETWEEN CENTRES
- Ø500mm SWING

MANUAL MILLING X2

MILLING MACHINE 1 (3 AXIS)

- X=1000mm
- Y=920mm
- Z=400mm



MACHINE CAPABILITIES

CNC MILLING

MILLING MACHINE 1 (3 AXIS)

- X=445mm
- Y=335mm
- Z=295mm

MILLING MACHINE 2 (3 AXIS)

- X=770mm
- Y=395mm
- Z=415mm

MILLING MACHINE 3 (3 AXIS)

- X=610mm
- Y=420mm
- Z=500mm

MILLING MACHINE 3 (4 AXIS)

- X=1000mm
- Y=500mm
- Z=500mm
- 4th MAX Ø=340mm MAX LENGTH BETWEEN CENTRES=400mm

3D PRINTING

Fused deposition modelling (FDM)

- Resolution: 0.1mm
- Filament types: PLA, ABS, PVA, PEVA, HIPS,
- X=200mm
- Y=200mm
- Z=180mm

COORDINATE MEASURING MACHINE (CMM)

WENTZEL SMART CMM

- X=500mm
- Y=450mm
- Z=400mm
- Accuracy & Repeatability = 0.001mm



BBG
ENGINEERING

JOINT VENTURES

LASER CUT & BEND

(customer material only accepted for special steels and large quantities)

- Laser Cutting (3000mm x 2000mm x 22mm)
- Bending (3000mm x 2000mm x 16mm)

WIRE CUTTING

3 axis

- X=300mm
- Y=400mm
- Z=300mm

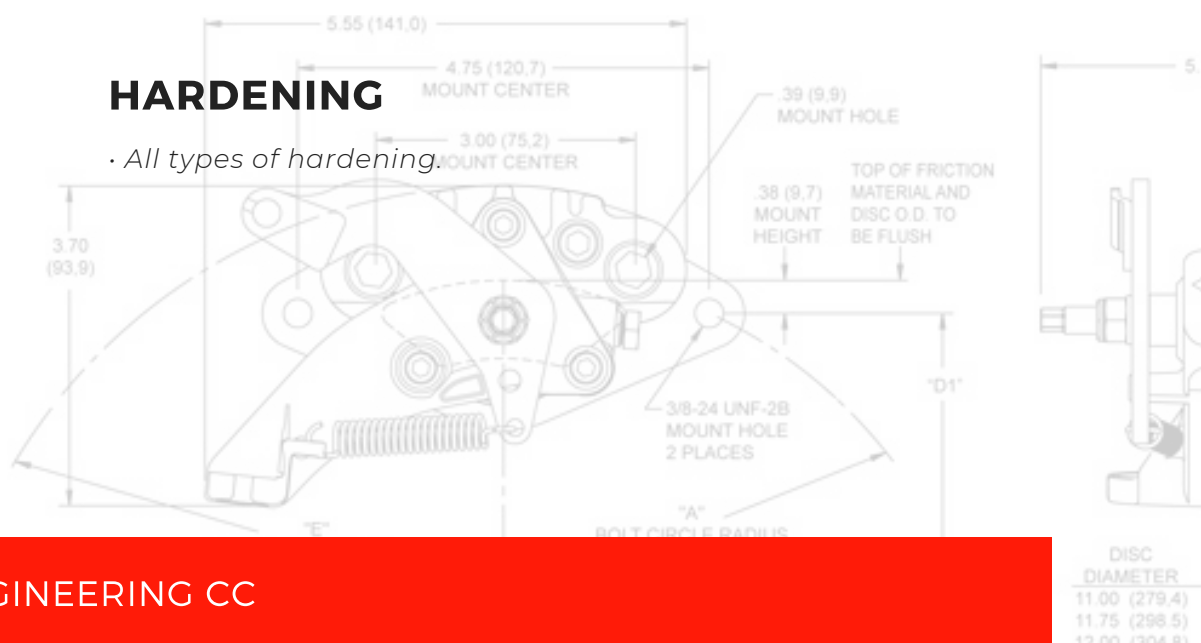
SURFACE TREATMENTS

(Only for inhouse manufactured items).

- Anodize
- Alodine
- Zinc (yellow, blue, black)
- Nickel
- Electroless Nickel
- Black Oxide
- Powder coat

HARDENING

- All types of hardening.



BBG ENGINEERING

THE TEAM



BEN VAN DYK
DIRECTOR



GERHARD LIEBENBERG
GENERAL MANAGER



JUANITA FOUCHE
FINANCE & MARKETING



BEN VAN DYK
OWNER



CURRENT

CUSTOMERS



Tshwane University
of Technology
We empower people



DENEL DYNAMICS



Proud member of the Reunert Limited Group

COMPANY DETAILS

COMPANY NAME: BBG ENGINEERING CC

PHYSICAL ADDRESS: 132 Edison Crescent, Hennospark, Centurion, 0057

POSTAL ADDRESS: P O BOX 2577, Halfway House, Midrand, 1685

LAND LINE: +27 12 653 0023

MANAGING DIRECTOR: Ben van Dyk

CELL: +27 83 609 0875

EMAIL: ben@bbg.engineering

CONTACT PERSON ACCOUNTS: Juanita Fouche

EMAIL: juanita@bbg.engineering

GENERAL INQUIRIES: info@bbg.engineering

VAT REG: 4030265856

COMPANY REG: 2009|171084|23

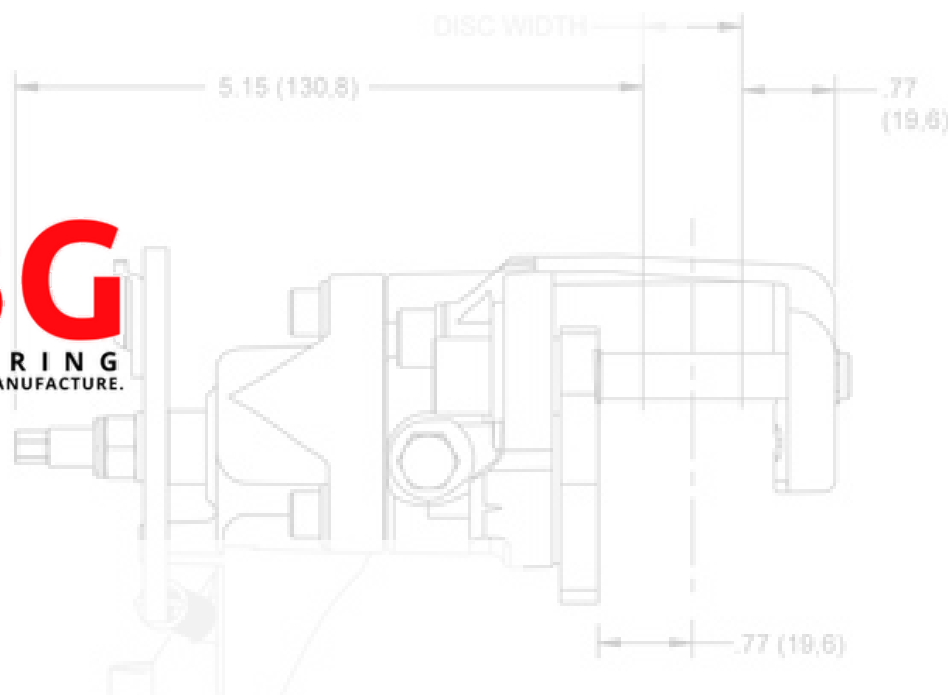
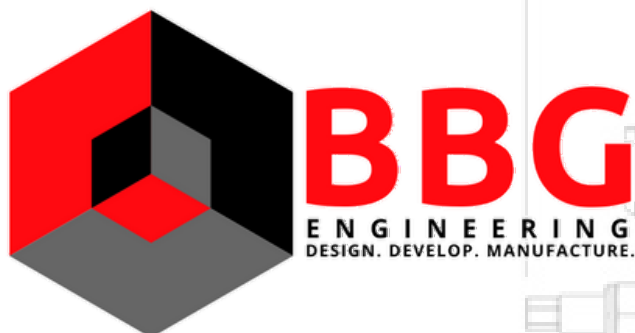
BEE STATUS: Level 4

BANKING DETAILS:

BBG ENGINEERING

ABSA 632005

ACC 4083555305



**ONE MAN'S MAGIC
IS ANOTHER MAN'S
ENGINEERING**



BBG
ENGINEERING