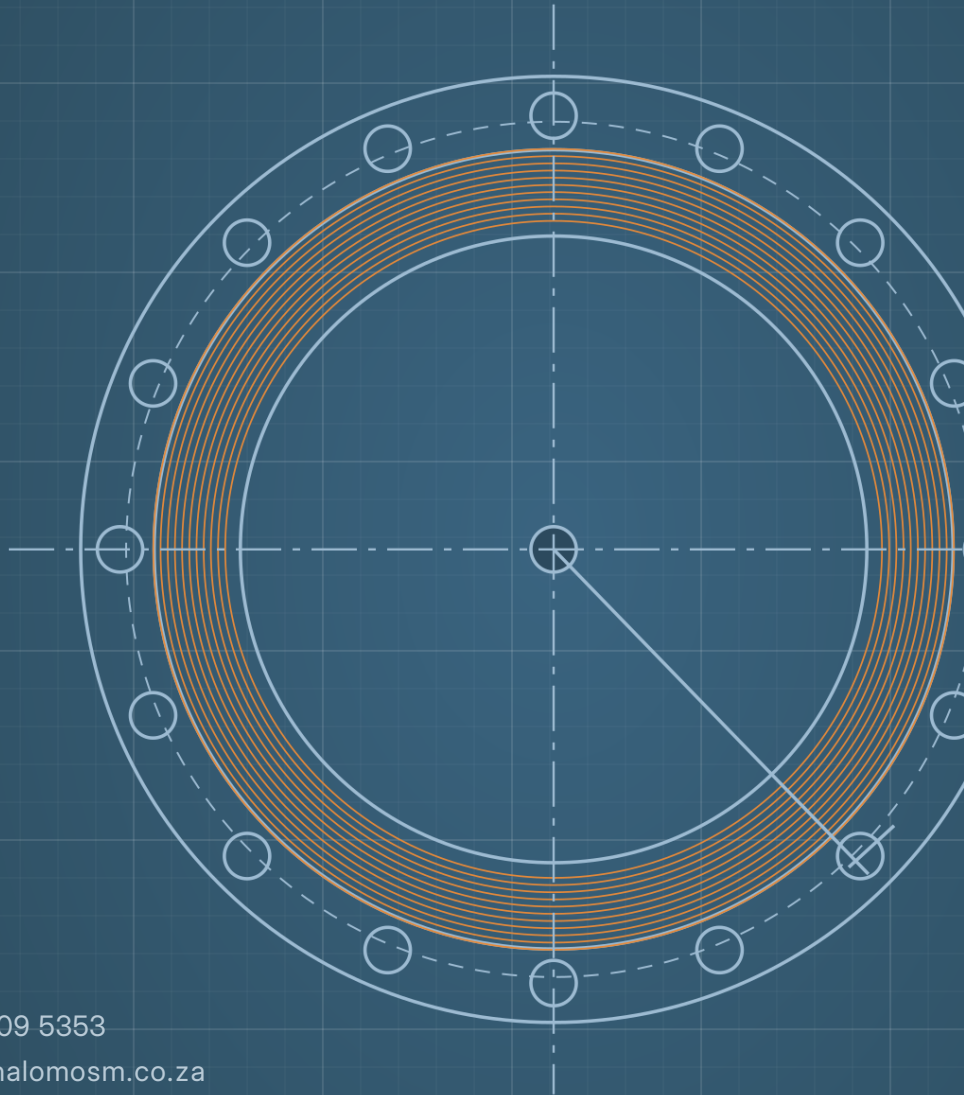




Service profile

On-site, in-situ and in-position machining across
South Africa and neighbouring countries since 2006.



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Drawing
Service profile

Revision
October 2026

Scale
NTS

About us

Shalom On Site Machining brings machine shop capability to your site, so your equipment does not have to be dismantled and sent away for maintenance and repairs.

Shalom On Site Machining was established in June 2006 by the owner, Johan Supra, under the inspiration, leadership and guidance of our Heavenly Father. The company is run on an ethical basis, and we aim to keep our reputation for integrity, honesty and excellence.

In our experience not every problem is unsolvable: we look for other ways to solve problems within our scope of work, and give you our professional opinion and a plan to get the job done.

With more than 30 years of experience in the field, our technicians use specialised portable equipment that saves you both time and money. We are committed to quality, safety and customer service, with no hidden costs, and we see every project through to the end.

Established	June 2006
Owner	Johan Supra
Experience	More than 30 years
B-BBEE	Level 4 contributor
Office	Vischkuil, Springs, Gauteng

Where we work

Nationwide in South Africa: Gauteng, Mpumalanga, Limpopo, North West, Free State, KwaZulu-Natal, Eastern Cape, Northern Cape and Western Cape. Also in Namibia, Botswana, Zimbabwe, Mozambique, Eswatini and Lesotho.

Why machine it where it stands

Send it to a workshop

Stop the machine Isolate and dismantle Transport to the workshop Machine the part Transport it back Refit and align Restart

Machine it in place

Stop the machine Set up our machine on it Machine in place Restart

Services and machines

Tyre grinding

Air-powered tyre grinding machine

Tyre grinding is a quick and efficient way to renew the surface finish of large-diameter tyres on rotating plant in situ, such as rotary kilns, dryers and Yankee dryers in the paper industry.

Our air-powered tyre grinding machine can grind tyres of any diameter. It is built for accuracy and a high stock removal rate, and is faster and more economical than grinding with a carborundum wheel or shutting the plant down to replace the tyre. In most cases the tyre can be ground while the plant is still in commission.

The machine is easily transported to site, where it is mounted on a simple frame built to suit each application.

Tyre diameter	Any diameter
Typical plant	Rotary kilns, dryers, Yankee dryers
Plant status	Usually ground while the plant is in commission
Air supply	9 bar (131 psi), 5.1 m ³ /min (180 cfm)

Hot tapping

Pneumatic and hydraulic hot tap equipment

Hot tapping is the process of making access to the inside of an operational pipeline with a drill or a circular cutter, so the line can stay in service.

Applications include attaching a branch connection to the line, installing an internal probe or monitor, and redirecting flow for maintenance or repair. Our hot tap equipment is designed by engineers and is pressure tested and certified on a regular basis. For highly specialised work we work closely with an international company that leads the hot tapping field.

Line pressure	Up to 100 bar (1,450 psi), depending on tap size, line temperature and flow rate
Method	Drill or circular cutter
Drive	Pneumatic or hydraulic
Certification	Equipment pressure tested and certified regularly

Flange facing

Silk AX012, AX630 and AX2872 flange facers

Damaged, corroded or uneven flange faces are machined in place to give a flat, true sealing surface again. Our machines face full-face, raised-face and grooved flanges, and produce a gramophone (spiral serrated) finish, O-ring grooves, vertical grooves and V-grooves. The AX012 and AX630 can also cut lens ring facings.

Flange facing machines

Machine	Flange face diameter	Grip depth
AX012 OD mount	Up to 300 mm (11.75")	Not applicable
AX630 ID mount	153 to 762 mm (6" to 30")	153 to 610 mm (6" to 24")
AX2872 ID mount	609 to 1,829 mm (24" to 72")	711 to 1,727 mm (28" to 68")
Turned finish	Ra 1.6 to 6.3 µm (63 to 250 µin)	
Polished finish	Ra 0.8 µm (32 µin); AX2872 Ra 0.8 to 1.6 µm (32 to 63 µin)	
Profiles	Gramophone finish, O-ring, vertical and V-grooves, lens ring facings	
Mounting	Any position; balancing kit for horizontal use on the AX2872	
Air supply	7 bar (102 psi), 4.0 m ³ /min (140 cfm)	

Shaft key cutting

Climax KM65 key mill

The Climax KM65 is a portable milling machine for keyways and other small milling jobs on site. It clamps onto the shaft with a self-aligning, self-centring V-base and cuts new keyways without the shaft being dismantled.

It can also cut motor mount slots and flats, and handle many other small milling applications.

Shaft diameter	50 to 250 mm (2" to 9.8")
Mounting	Self-aligning, self-centring V-base clamp
Also cuts	Motor mount slots, flats and small milled features

Milling

Silk FM044 milling machine

The Silk FM044 machines heat exchanger caps, tube sheets, keyways, grooves and divider plates, along with a variety of other applications.

The milling rail, with its support pillars, is installed in position on the face to be machined and adjusted with three screws in the base of each pillar. Where needed we make a mounting fixture to secure the rail to the workpiece. The machine works in the vertical or horizontal position.

Rail length	1,320 mm (52")
Maximum height	660 mm (26")
Position	Vertical or horizontal
Air supply	7 bar (102 psi), 4.0 m ³ /min (140 cfm)

Drilling

Electric and pneumatic drilling machines

We have a range of drilling machines driven by a 220 V power supply or by compressed air, depending on the machine used for the job.

The machines are hand-held, magnetically mounted, or secured to the workpiece with a mounting plate and fasteners. Holes that are too big for a machine are drilled as large as possible and then fly cut to the required size.

Drive	220 V electric or pneumatic
Mounting	Hand-held, magnetic base, or bolted with a mounting plate
Oversize holes	Drilled, then fly cut to size

Tapping

Norbar pneumatic tapping machine

Tapping large-diameter holes, fitting pipe extensions onto tapping handles, dealing with broken taps and tapping skew holes no longer need to be a headache. Our Norbar pneumatic tapping machine is compact and versatile.

Hole size	Up to 110 mm (4.3") diameter
Typical work	Large holes, skew holes, holes with broken taps
Air supply	7 bar (102 psi), 4.0 m ³ /min (140 cfm)

Journal turning

Journal Squirrel turning machine

The Journal Squirrel is built for re-turning large-diameter shafts and roll journals. It bolts directly to the end of the shaft and rotates around it.

A worn bearing journal can be refurbished in two ways: machine the journal undersize, shrink-fit a sleeve and machine it back to the original size, or build the shaft up with weld and machine it to size. Either way the machinery does not have to be dismantled and the part sent to a workshop.

Shaft diameter	100 to 280 mm (4" to 11")
Turning reach	405 mm (16")
Repair methods	Sleeve and re-machine, or weld build-up and re-machine
Air supply	7 bar (102 psi), 4.0 m ³ /min (140 cfm)

Line boring

Portable line boring machine

Our compact, powerful portable boring bar handles blind boring and align boring in a wide range of applications. Feed and rotation are reversible, and different boring bars and tool heads can be combined to suit the job. Self-centring cones give quick alignment of the bar.

If the bar can slide into the bores and there is a place to tack weld the mounting bracket with its bearing assembly, the job can most likely be line bored in place.

Bore diameter	50 to 500 mm (2" to 20")
Boring stroke	Up to 360 mm (14")
Clearance needed	About 1,100 mm (43") to mount the drive and feed units
Set-up	Self-centring cones, reversible feed and rotation

Valve repair

On-site valve reconditioning

We recondition almost any type and make of valve. Valve repair is mostly done on site, so no time or money is lost transporting valves to and from an engineering workshop. Where a valve cannot be repaired on site, we arrange the work through our partner workshops.

Valve types	Almost any type and make
Where	Mostly on site; otherwise arranged through a partner workshop

Tube testing

Pneumatic tube testing equipment

We test tubes with compressed air at any place and in any position. The equipment fits into tight spaces, and testing with air finds even the smallest leak. We can test the entire tube bundle or only an isolated area.

Test pressure	Up to 6 bar (87 psi)
Rate	Up to 4 tubes per minute, depending on tube diameter and length
Scope	Entire tube bundle or an isolated area
Tubes must be	Clean on the inside and fairly dry

Workshop machining

Arranged by us through partner workshops

When a job cannot be machined where the equipment stands, we arrange the machining through our network of trusted partner workshops. We do not run a machine shop ourselves: we quote, coordinate the work, check the finished part and deliver it, and we remain responsible for the job.

Capabilities	CNC and conventional turning and milling, gear cutting, surface grinding, boring, drilling and tapping, component manufacture, repair and refurbishment
Your contact	Us, from enquiry to delivery, including the quality check
Machined by	A partner workshop in our network

Tell us what needs machining.

Send us the equipment, the problem and where the site is. We will come back to you with how we would do it.

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Public holidays	Closed

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Shalom On Site Machining cc is a Level 4 B-BBEE contributor.

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