

PtSA News

Newsletter of the Production Technologies Association of South Africa

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Hosted by
PtSA Production Technologies Association of South Africa

ISTMA world

SPECIAL TOOLING & MACHINING
WORLD CONFERENCE & EXHIBITION
6 - 10 NOVEMBER 2023
CAPE TOWN INTERNATIONAL CONVENTION CENTRE - SOUTH AFRICA

The ALL AFRICA EXPO ISTMA 2023 event will be a unique opportunity for the South African and African Tooling industry to join a World Event

We are counting down the days!



We are delighted that much of the exhibition space has been taken up and we would like to thank the companies that have already secured their exhibition space at the All Africa Expo, and also the people who have reserved their seats at the 16th ISTMA World Conference and the Invest in Africa Indaba.

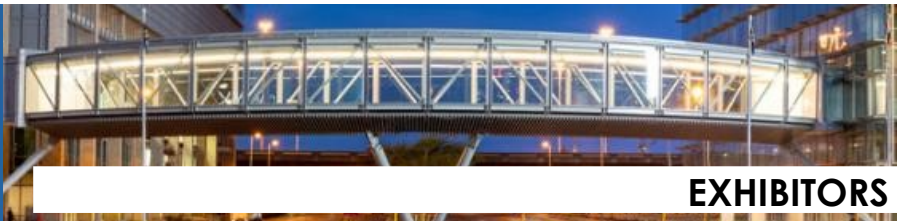
The All Africa Expo ISTMA2023 event will create unprecedented networking opportunities and will be a unique chance to hear international experts covering very relevant topics for the manufacturing industry.

All Africa Expo ISTMA2023 will provide a once in a lifetime opportunity for the South African and African manufacturing sector to showcase their capabilities and investment potential to a very targeted global audience.

We look forward to welcoming you to Cape Town in November 2023.

- Tapiwa (tapiwas@ptsa.co.za)

 Join us in Cape Town in November



EXHIBITORS

An Impressive Lineup of Exhibitors for the All Africa Expo

We only have a few months left until the start of the All Africa Expo which will be held in conjunction with the 16th International Special Tooling and Machining Association World Conference (ISTMA 2023), and nearly 60% of the available exhibition stands have been reserved!

Delegates attending the 16th International Special Tooling and Machining Association World Conference (ISTMA 2023), which coincides with the All Africa Expo this year, have a lot to look forward to – especially when it comes to local and global exhibitors who will be showcasing the latest innovations and trends in the tooling industry as well as showcasing their manufacturing capabilities and investment potential .

The lineup so far is impressive and include the following companies:

Stellenbosch Technology Centre - Laboratory for Advanced Manufacturing

is part of the Industrial Engineering Department at the Stellenbosch University, which is founded on three main focus areas, namely Research and Development, Innovation Action Projects and Education and Training.

The Centre's mission is to deliver novel research, resource efficient solutions and high-quality education.



(Source: <https://metrology.news/>)

Gühring Cutting Tools is one of the world's leading manufacturers of rotary precision tools for metal machining.

Gühring has more than 8 000 employees worldwide and in excess of 70 production locations in 48 countries.

The company develops, manufactures and distributes innovative cutting tools. Gühring is present in the following markets: automotive industry, the aerospace industry and in general engineering.



STELLENBOSCH TECHNOLOGY CENTRE Laboratory for Advanced Manufacturing

5 exciting new short courses!

The Stellenbosch Technology Centre - Laboratory for Advanced Manufacturing is offering five new short courses.

REGISTRATION IS OPEN.

Discounts are available for early bird registrations and additional discounts may apply to qualifying clients

For more information visit [Short Courses - Industrial Engineering \(sun.ac.za\)](https://sun.ac.za)

or contact Chanté September septemberchante@sun.ac.za





ISTMA
2023
16TH WORLD CONFERENCE



EXHIBITORS

GstarSoft is a recognised leading provider of 2D/3D CAD software and associated solutions for industries, including AEC, Mechanical and Manufacturing, Electrical and Electronics and GIS Survey and Mapping.

With a proud 30-year history of technology innovation, GstarSoft is dedicated to providing fast and powerful DWG Compatible CAD software and solutions to a vast network of leading global customers and partners.

Message from the ISTMA World President - Bob Williamson

We are very pleased to announce a powerful line-up of internationally renowned speakers for the 16th ISTMA World Conference taking place in Cape Town in November.

These experts will talk about topics such as sustainable development in the tooling and special machining industry, technical advances in tooling manufacture, and skills development for the tooling industry, and these presentations will provide a clear roadmap for the way forward for the tooling and special machining industry over the next few years.



By attending the Conference, delegates will not only be able to hear these expert speakers but will also be able to interact with the speakers during the scheduled panel discussions, during the tea and lunch breaks, and during the planned social events.

We look forward to a world class event hosted in a world class city.

Registration for the conference is open, and interested parties are encouraged to visit the event's website for additional information, including a full list exhibitors, scheduled events and more.

Stephan Aucamp, Business Director at **In-jection Technik**, a specialist company that deals in the repair and maintenance of injection moulds, the graining of injection moulds, laser welding and all other items related to this type of industry said "We, as a PtSA member as well as a service provider to the international mouldmaking community feel that this is an opportunity not to be missed.

Having attended several trade fairs in the past we understand the cost involved in making trips to either Europe or the Far East to attend these fairs – which often do not translate into any direct business.

The All Africa Expo will be beneficial to our organisation as we will network with mould manufacturers from across the world in one location.

Additionally, for those looking to expand into the African market, manufacturers and end users of the equipment we support will also be present and we are looking forward to not only welcoming the global tooling and manufacturing fraternity to our doorstep, but also to setup and create networking linkages that will result in growth for our company in the future."

Emile Coetzee, MD of **Capewell Springs and Metal Pressings**, said: "As a major stakeholder in the local tool, die and mould industry, Capewell is very keen to exhibit [at the All Africa Expo], where we will be displaying our own manufacturing capabilities and product range as well as collaborating with the rest of our industry, to show how together, we can continue to transform the manufacturing landscape in Cape Town, South Africa and the rest of our beautiful continent."

Capewell Springs and Metal Pressings was established in 1981 and is an ISO9001:2015 approved engineering and design partner.



ISTMA
2023
16TH WORLD CONFERENCE



ISTMA WORLD CONFERENCE

Meet Prof. Dr.-Ing. Thomas Seul, a keynote Speaker

Prof. Dr. Thomas Seul has been a professor of manufacturing technology and tool design at the Schmalkalden University of Applied Sciences since the summer semester of 2007. Since January 2008 he has held the position of Vice President for Research and Transfer at the university. In the Faculty of Mechanical Engineering, he represents in particular the teaching and research activities in the course applied plastics technology.

His research activities focus on the product development of plastic components and tool design, especially for the medical technology sector.

Prof. Dr. Thomas Seul started his career with vocational training as a toolmaker specializing in injection mold making. This was followed by his first degree in mechanical engineering, with a focus on construction, in Iserlohn. In 1999, he successfully completed his second course of study, teaching/secondary level II with a professional focus on production technology/mechanical engineering, at the University of Essen with the state examination.

Professor Seul was a project engineer at the Institute for Plastics in Mechanical Engineering GmbH in Essen and a research assistant at the Institute for Plastics Processing (IKV) at the RWTH in Aachen. He then worked as head of the research and development department at Balda Medical GmbH & Co. KG in Bad Oeynhausen. Since April 2010 Prof. Seul has been the elected President of the Association of German Tool and Mold Makers in an honorary capacity.



Rebuilding South Africa's Tooling Capabilities to Support the Sustainable Development of the Manufacturing Sector

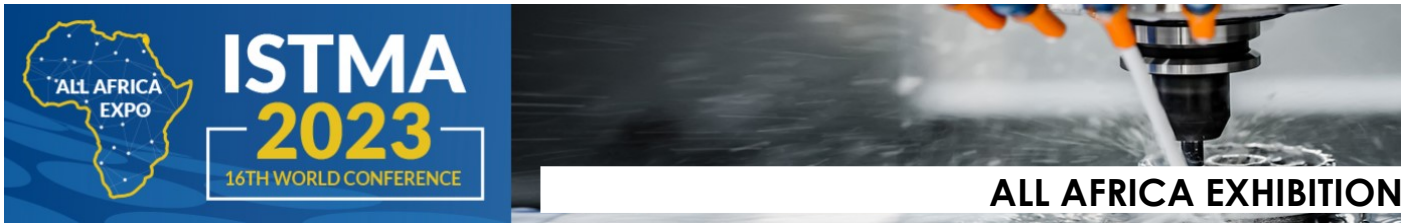


Prof. Justin Barnes (Manufacturing Ambassador, TWIMS & Associate Professor, University of Pretoria's Gordon Institute of Business Science [GIBS]) will speak about the sustainable development of the manufacturing sector during the ISTMA2023 Conference.

Prof. Barnes has completed industrial research, corporate strategy, and industrial and trade policy development assignments in over 30 countries; and has extensive benchmarking, firm-level and supply chain upgrading experience.

Abstract of Prof. Barnes' presentation:

"South Africa has experienced deindustrialization over the last decade, with Gross Value Added and capital investment declining. This has had devastating consequences for the domestic economy and has occurred at the same time as the country's tooling capabilities have contracted, and the country's major manufacturing sectors have increased their dependence on tooling imports. Rebuilding the country's tooling capabilities is therefore identified as key to the revival of the manufacturing sector, and by implication the broader economy. However, what does this mean in the context of the global digital transformation of manufacturing and the need to decarbonize production? What does sustainable manufacturing look like in the future? And, how does this challenge the rebuilding process in respect of the tooling sector? In this conference paper, we explore these questions, focusing on the South African context to bring to light broader sustainability challenges in the manufacturing sector."



Meet some of the Exhibitors

CALDEAZ Manufacturing Technologies strives to deliver top quality products and services to their clients to enhance their manufacturing processes. These products currently include measuring arms, laser scanners, CMM machines, 3D Printers and Software, and services that include 3D scanning, 3D measurement, Reverse engineering, 3D printing and rapid prototyping.



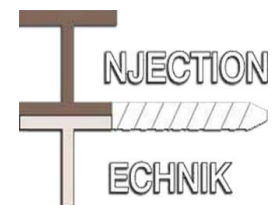
The Company is the sole distributors of Kreon 3D Technologies, Aberlink and Pointshape world-leading products in South Africa.

Software brands offered by CALDEAZ include Polyworks or any software on the Kreon software list, Zenith, Aberlink Inspection software, Oqton's Geomagics Design X and Control X, Quicksurface reverse engineering software and the Pointshape inspection and reverse engineering software. Training on Geomagics, Zenith, Aberlink, Quicksurface and Pointshape software are also offered.

Established in 1972, **Daliff Precision Engineering** have become known as one of the leaders in the field of machined components for the aerospace, avionics/electronics, rail and power industries. Daliff Precision Engineering has unparalleled CNC machining capabilities, including 5 axis milling, which covers a wide range of small to large components with complicated 2D or 3D profiles. Working in medium to large batches, a wide variety of materials are utilized including aluminium, steels, titanium, Inconel, and other exotic material.



Injection Technik (Pty) Ltd is a specialist company that deals in the repair and maintenance of injection moulds, laser welding of tooling and all other items related to this type of industry.



RETECON (PTY) LTD
Your Partner in Metal Working

Retecon is a leading machine tool supplier to the metalworking and related engineering industries.

The Retecon Group represents a number of prestigious international manufacturers including DMG Mori, Trumpf, Alpha Laser, GF Agie Charmilles, Hexagon Manufacturing Intelligence, to name a few. Retecon's various products include vertical and horizontal machining, turning, tool and cutter grinding, laser cutting, bending, punching, forming, sawing, tube bending and much more.

RGC Engineering is well established in the measuring and precision manufacturing of tooling and in the machine tool industry, and is able to offer the latest technologies in measuring equipment, machine tools and tooling, and 4IR applications for the future.



RGC Engineering represents, sells and stocks Mitutoyo, GOM, Marposs and Hermle products as well as products from other world-class companies.

DG Capital – A PtSA National Partner

By Brenden Adriaanzen, Director

After recent discussions between DG Capital and PtSA, it was established that there are synergies between the two entities and that DG Capital can greatly assist PtSA members through our various service offerings.

DG Capital is a global financial services group, that specialises in a diverse range of services encompassing funding, advisory, insurance, and logistics. With a client-centric approach, we provide comprehensive solutions tailored to each client's unique needs and aspirations. Our commitment to excellence, integrity, and innovation has made us a trusted partner for wealth creation and preservation.

With years of experience in the incentives space, DG Incentives aids manufacturers in accessing incentives from **the dtic**, ITAC and SARS. There are many complexities in these processes and clients often prefer to outsource this process to a specialist as we have custom-built systems and a strong knowledge base.

For tooling manufacturers there is assistance in 3 forms namely, The Automotive Production Development Programme (APDP), the Automotive Investment Scheme (AIS) as well as duty recoveries (under certain conditions).

APDP:

- Production incentive for tooling manufactured in SA, sold to an OEM or into the supply chain
- Must be the final manufacturer
- Must achieve 25% or R10m turnover from OEM supply
- Incentive is roughly 4% – 10% of selling price in the form of a tradeable duty certificate
- BBBEE compliance at Level 6 and Level 4 from 31 Dec 2023

AIS:

- Incentives for investment in P&M, Buildings, Tools,

Software etc to manufacture tools for OEM or supply chain

- 25% cash incentive paid on qualifying investment
- BBBEE compliance at Level 6 and Level 4 from 31 Dec 2023

Duty Recoveries:

- For components / materials imported, used in the manufacturing process and then exported, duties could be claimed back.

The above is very high level and there is more information to consider but DG Incentives has been successfully claiming back on behalf of manufacturers for many years and resulted in Industry receiving billions of Rands back from government.

We work on a success-based fee so there is no risk for the client. Contact us today to set up a meeting to see whether you could access these lucrative incentives.



Contact us:

brenden@dgcapital.co.za

0812579535



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corporate

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that power the **success of your**
business and employees

Momentum Corporate, the employee benefits business within Momentum Metropolitan, delivers solutions for employers and retirement funds in the employee benefits industry. We are one of the largest underwriters of death and disability insurance in the corporate market. We also have a strong market share in umbrella funds and annuity solutions. We help you take care of your employees' financial goals, both pre-and post-retirement because the success of your people is our business.

Our clients' needs are diverse, complex, and constantly evolving in response to a rapidly changing environment. What works for one business and their employees may not work for another. This is why we believe that advice and a partnership approach is vital in formulating employee benefits solutions that power our clients on their journey to success. We offer industry-leading engagement-rich solutions, including our leading FundsAtWork Umbrella Funds and Group Insurance, retirement fund administration, and investment solutions to employers in the private and public sectors.

If you need help or have any questions, **please contact the consultants from Momentum Consultants and Actuaries:**

☎ 087 742 7602

✉ mca@momentum.co.za

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Sassda Advocates for Increased Use of Local Stainless Steel in South African Projects

The Southern Africa Stainless Steel Development Association (Sassda) is committed to enhancing the demand for South African stainless steel within key sectors like mining, automotive, and food and beverage. In a recent webinar titled 'State of the Stainless Steel Nation,' Sassda Executive Director Michel Basson provided insights into the local and global stainless steel sector designed to strengthen the industry, stimulate local demand, and unlock new opportunities.



Local supply for African markets

Basson emphasised the competitive edge of the local stainless steel industry, stating that it can supply African markets with top-quality stainless-steel products that rival global competitors. He commented; "This presents a significant opportunity for local fabricated products across various sectors, including mining, agriculture, food processing, and healthcare applications. Sassda has implemented measures to support capacity-building, foster access to new sectors, and drive local demand."

He added that Sassda believed that local demand could be stimulated by designating local products in infrastructure projects at all government levels. Many projects already require 100% local supply, necessitating exemptions from the Department of Trade, Industry and Competition (**the dtic**).

"Sassda actively advocates for the use of local stainless steel in government-funded projects and is exploring opportunities to replace galvanized metals with 3CR12, the world's most specified 12% chromium utility stainless steel, in various industries," Basson explained.

Engaging with government and lobbying efforts

Sassda also engages in key lobbying efforts to support its members. These engagements form part of Sassda's broader mandate to advocate for the industry and facilitate its growth.

Basson also provided a global overview of the stainless steel sector, highlighting its steady compound annual growth rate of

5.8%, surpassing that of copper and aluminium. He reported that while China experienced rapid growth in stainless steel production between 2005 and 2021, South Africa remained stable at around 13% of global production. "Despite the adverse impact of the COVID-19 pandemic on local production and exports, South Africa's stainless steel industry is still recognised as a world-class supplier that has shown remarkable resilience."

The power crunch

Loadshedding was unsurprisingly seen as posing a significant challenge to stainless steel production and fabrication in South Africa. The current power crisis has already surpassed previous years' loadshedding hours, affecting staff safety, motivation, productivity, and living costs. This situation has led to a decline in apparent consumption, with the South African Reserve Bank identifying it as a future risk to socio-economic stability. Basson suggests that this challenge presents an opportunity for the industry to become more energy-efficient and less reliant on energy sources.

In response to the challenges faced by the industry, Basson said Sassda has adapted its processes by providing enhanced tools to facilitate easier access to stainless steel products and expanding its education and training programs. The association offers technical advice, guidance, and customized accredited CPD presentations for various

Sassda successfully lobbied the dtic to exclude stainless steel from the recently announced ban on scrap export regulations. The association also collaborates with the government on evaluating government-funded projects, and partnerships with private partners are being forged to address existing constraints.

stakeholders, including government, partners, and non-technical consumers. Despite the obstacles, Sassda remains optimistic about the future of the South African stainless steel sector, driven by the industry's cohesion and resilience.

Overall, Sassda is dedicated to promoting the sustainable growth and development of the South African stainless steel industry. Through collaborative

efforts, the association aims to increase demand, foster local supply, and unlock new opportunities. Despite challenges, the industry's strength in numbers and resilience positions South Africa as a strong global competitor in 2023.

To learn more, access the full webinar here:
<https://bit.ly/3Ymn50V>

PtSA Membership Management System with GlueUp

PtSA has implemented GlueUp, a membership management system that is flexible and which allows PtSA as an organisation to deliver long term business value to our members.

With taking on the system, PtSA is now able not only to grow, engage and retain its members but also to successfully plan, promote, execute, and evaluate PtSA Events and campaigns.

PtSA is committed in providing its members with the best experience and ability to make meaningful connections; therefor need-

ing a **membership management system with a solid interaction facility**. The system is easily accessible and **offers a mobile application that enables PtSA members and contacts to engage** from anywhere to make connections.

GlueUp has the capability where membership application forms are created with information on hand.

We are currently in the roll-out process and have uploaded more than 1000 companies with contact details. **Some of the information however is outdated and**

will be updated on a continuous basis as and when we come across new data.

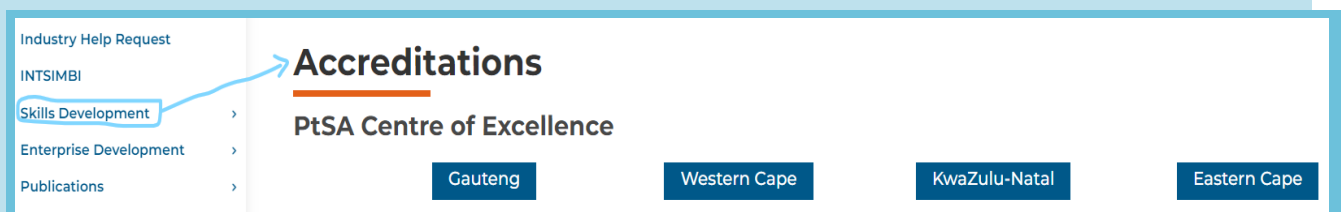
We request you, the members, to please follow the link on email that will be sent to you from GlueUp, make changes where needed and to save any changes.

The system is quite user-friendly but if there are any uncertainties, please feel free to contact the Industry Development Manager or Regional Manager in your region to assist.

Access Skills Development Accreditation Info on PtSA Website

We are delighted to inform you that the Skills Development Provider (SDP) accreditation details for our Skills Development Programme are now available on our Association's website.

PtSA takes pride in its four Centers of Excellence located in Gauteng, KwaZulu-Natal, Eastern Cape, and Western Cape. Our accreditation is granted by the Quality Council for Trades and Occupations (QCTO), which oversees the design, implementation, assessment, and certification of occupational qualifications, including trades on the Occupational Qualifications Sub-Framework (OQFS). Where relevant PtSA also hold accreditations with merSeta.



Accreditation serves as a robust quality assurance process for our TDM Powered Programme, ensuring that we meet the prescribed service and operational standards. To view the list of our accreditations, visit www.ptsa.co.za/accreditations and select the applicable "region" button. Established in 2010 under the Skills Development Act (Act 97 of 1998) with subsequent amendments in 2008, the QCTO functions as a Quality Council. It provides guidance to SDPs, both private and public, as well as assessment centers that require QCTO accreditation to implement occupational qualifications. The accreditation process consists of two parts, namely institutional compliance and program delivery readiness. For further details, please visit www.qcto.org.za.

S4 Integration—Empowering Automotive Production and Smart Warehousing Globally

During the PtSA network event at the end of June, S4 Integration, the sponsor of the evening, delivered a presentation about Smart Warehousing.

As a leading global systems integrator and specialised machine builder, S4 Integration possesses an extensive software development team comprising over 140 skilled developers. The company's primary areas of expertise revolve around Automotive Production and Smart Warehousing solutions.

S4 specialises in the following specific domains:

Intralogistics (inbound & outbound): Leveraging conveyors, AGVs/AMRs (Automated Guided Vehicles/ Autonomous Mobile Robots), and Remotely Driven High-payload Vehicles, movement of materials within the warehouse is streamlined.

Storage Systems: Offerings span from fully automated AS/RS (Automated Storage & Retrieval Systems) to manual Pick-to-Light Systems, enabling efficient storage and retrieval of goods.

Order Picking/Sorting: With the aid of conveyor logic for material diversion and redirection, multi-axis gantry systems, walking beams, as well as collaborative and industrial picking robots, order picking and sorting processes are optimised.

Digital Services: S4 provides Warehouse Management Systems (WMS) and ERP systems, which can be seamlessly implemented or integrated into existing systems.

S4 Integration strives to empower businesses with advanced technologies and tailored solutions to enhance automotive production and revolutionise smart warehousing operations.

PtSA members received their PtSA membership certificates.

Peter Lancaster from DG Capital, PtSA's new National Partner, received the certificate on behalf of the Group from Bob Williamson.



NETWORK EVENT - GAUTENG

PtSA Gauteng hosted a network evening on 25 May in Centurion. The event was sponsored by **UniPUMPS** and **Vaal University of Technology** (VUT)'s Technology Transfer and Innovation (TTI). David Mauchline, Additive Manufacturing Specialist at VUT, delivered a presentation titled "Rapid Prototyping in the world of Manufacturing." He focused on Additive Manufacturing's applications to the tool and die industries. In addition, he highlighted TTI's mission and vision to the partners, and its capabilities to turn challenges into solutions, while strengthening relationships with existing contacts.

Rapid prototyping provides engineering, design and development teams with distinct advantages such as the ability to explore and realize concepts more quickly. This efficiency in time and cost allows teams to move beyond the mere visualisation of a product, making it easier to grasp the properties and design of a product. David explained afterwards that the networking session played a key role in allowing the VUT team to meet with professionals in this field, as well as connect and build meaningful and healthy relationships.

Stephan Aucamp, National Chairman of the PtSA Board of Directors presented a few PtSA membership certificates to members of industry.



David Mauchline
Additive,
Manufacturing
Specialist at
VUT.



Improve Your Company's Competitiveness

PtSA offers the tool, die, mould and special machining industry (TDM Industry) a PtSA Enterprise Development Programme to improve the competitiveness of the TDM industry in support of manufacturing in South Africa.

PtSA has partnered with the Werkzeugbau Akademie GmbH (WBA) - the world leaders in tooling- specific research and consulting - to implement the Programme through the PtSA project management and implementation company.

During an intensive **2-day Benchmarking project**, the participating company's performance is evaluated against local and international peers.

The **3-day Intervention project** includes a comprehensive consulting process, initiated to derive measures directing towards international competitiveness. Only companies which have been previously Benchmarked will be eligible to participate in an Intervention Project.

For more information contact one of PtSA Regional Managers or Michael Gwebu at (012) 760 0300 ext. 140 or michaelg@ptsa.co.za.

**Incredible
discounted
project prices for
PtSA member
companies!!!**

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(012) 760 0300 ext. 301 / 062 813 1301

Join the Best - Become part of the Network

By joining PtSA, you become part of the network of companies which forms the tool, die, mould and specialised machining industry in South Africa.

Connectivity

- PtSA members have the opportunity to become part of the national and global network of TDM companies.

PtSA is the collective voice of the TDM industry

- The PtSA partnership agreement with government (INTSIMBI Future Production Technologies Initiative) facilitates dialogue between the TDM industry and government.

Improvement of competitiveness of PtSA members

- PtSA, through the process of improving the competitiveness of companies, facilitates the growth of the supplier base for the benefit of the larger corporates, and in particular the OEM's.

Training and upskilling programmes

- PtSA, as the Development Quality Partner (DQP), has developed a number of SAQA approved artisan qualifications and apprenticeship programmes for the TDM and Special Machining industry in South Africa.
- These programmes result in SAQA registered and QCTO and merSETA accredited Toolmaker NQF Level 5 and Tooling Machinist NQF Level 5.
- The programmes are offered in four facilities; QCTO accredited state-of-the-art PtSA Centres of Excellence across South Africa.

Networking, matchmaking and information programmes

- PtSA hosts regular Networking meetings in the Western Cape, Eastern Cape, Gauteng and KwaZulu-Natal.

Better understanding of the Fourth Industrial Revolution (4IR)

- PtSA facilitates the understanding of technology developments for its members by means of information programmes, demonstrations, publications and networking.

PtSA facilitates international connections for its members through its membership of the International Special Tooling and Machining Association (ISTMA World)

- Access to over 23 Associations in 22 countries/8000-member companies.

PtSA promotes sustainable development within the industry to ensure long term growth of the industry

- PtSA facilitates opportunities for members to have access to information, training, workshops, etc. on sustainable development.

PtSA corporate facilities are available for use by its members PtSA website provides information about international and national news, events and trends in the industry.

Do you want to **Advertise** your product or services to the Tooling Sector?

- PtSA is offering the opportunity to advertise in the PtSA News PtSA News is widely distributed both in South Africa and Internationally
- PtSA News is the only publication which is focussed on the Tool, Die, Mouldmaking and Special Machining Industries in South Africa

Advertising Fee Structure: (Excl. VAT)

Size	Per Issue		Annually (6 issues)	
	PtSA Member	Non-Member	PtSA Member	Non-Member
1/4 page	R2 400	R4 895	R12 690	R25 395
1/2 page	R4 800	R6 630	R23 500	R34 875
Full page	R6 500	R10 760	R31 600	R55 680
Outside Back cover	R9 500	R16 600	R46 800	R85 500

Please contact Liza du Plessis at lizadp@ptsa.co.za for details, or to book an advert!