

# PtSA News

Newsletter of the Production Technologies Association of South Africa

Issue 24 - March / April 2023



Hosted by  
**PtSA** Production Technologies Association of South Africa

**ISTMA 2023**  
16TH WORLD CONFERENCE

ALL AFRICA EXPO

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

## Meet a keynote speaker at the **ISTMA World Conference** -

*Prof. Dr.-Ing Wolfgang Boos (MBA)*

We are pleased to introduce Prof Dr-Ing Wolfgang Boos who will be delivering a keynote address entitled *"International Benchmarking: Shaping the future of sustainable and digitized Toolmaking"* at the 16th ISTMA World Conference to be held in Cape Town in November.

Following an apprenticeship as a toolmaker, he studied mechanical engineering at RWTH Aachen University, and after graduating he completed his doctorate with distinction at the Laboratory for Machine Tools and Production Engineering (WZL) at the RWTH Aachen University.



Prof Dr-Ing Boos is currently the CEO of WBA Aachener Werkzeugbau Akademie GmbH, the leading authority for toolmaking in the areas of consulting, digital solutions, further education and research, which he founded in 2010.

PtSA has partnered with WBA Aachener Werkzeugbau Akademie GmbH to implement programmes to improve the competitiveness of the South African tooling industry.

Prof Dr-Ing Boos is also the MD of FIR.e.V at RWTH Aachen University, an innovation orientated network which focuses on topics concerning the design of tomorrow's working world under the influence of the 4th Industrial Revolution (Industry 4.0), and he is the Centre Director of the Smart Logistics Cluster. In addition, he also holds various MD and Advisory Board positions in start ups and medium-sized companies.

## Message from Tapiwa Samanga (PtSA Group CEO)



We can already see the All Africa Expo ISTMA 2023 convention appearing on the horizon, and we are excited to be able to host this all important event. Work is progressing well with the planning and arrangements, and the topics and speakers for the ISTMA World Conference and the African Investment Indaba have all been identified. In addition, the arrangements for the All Africa Exhibition have been finalised and a number of companies have already reserved exhibition space to showcase their capabilities to the continent and to the world. If you have not done so yet, we encourage companies to reserve their exhibition spaces while there is still space available.

This timely hosting of the All Africa Expo ISTMA 2023 gives us the opportunity to showcase the best of South African and African manufacturing capabilities and share the vision of a revitalised Africa that is increasing trade with itself whilst growing its participation in global value chains.

All Africa Expo ISTMA 2023 will not only offer an insight into the massive investment opportunities on the continent, but also present an opportunity to network, make contacts, make friends and experience the warm hospitality of Cape Town. We cannot wait to receive you in November.

- Tapiwa ([tapiwas@ptsa.co.za](mailto:tapiwas@ptsa.co.za))

Cape Town awaits you





ISTMA WORLD CONFERENCE

We are excited to let you know that Registration is open!

Visit [www.sbs.co.za/istma2023](http://www.sbs.co.za/istma2023)



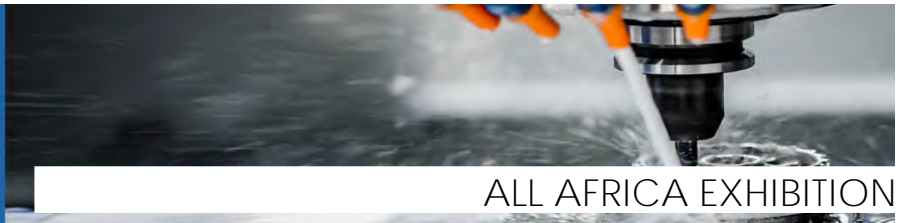
Monday, 6 November 2023  
 09:00 - 16:05  
 Master of Ceremonies: Nicky Verd



09:00 - 09:15	Opening: ISTMA World President - Bob Williamson
09:20 - 10:00	Prof. Dr.-Ing Thomas Seul Innovations and Applied Research Ensure the Future Viability of the Tool and Die Industry
10:00 - 10:30	Refreshments
10:30 - 11:10	TBC
11:15 - 11:55	Michael Kirbach and Katarina Heining High Technology Machining - Competitive Die & Mould Manufacture
12:00 - 13:00	Lunch
13:05 - 13:45	Montez King Skills Development
13:50 - 14:30	Tapiwa Samanga Candidate Selection Skills Development
14:30 - 15:00	Refreshments
15:05 - 16:05	Panel Discussion: Moderator - Markus Heseding

Tuesday, 7 November 2023  
 09:00 - 16:05  
 Master of Ceremonies: Nicky Verd

09:00 - 09:15	Opening & Conference Summary: ISTMA World President - Bob Williamson
09:20 - 10:00	Manuel Oliveira Cooperation Partnership the Portugal Experience
10:00 - 10:30	Refreshments
10:30 - 11:10	Justin Barnes Sustainable Economic Development
11:15 - 11:55	Prof. Wolfgang Boos Benchmarking the International Tooling Industry
12:00 - 13:00	Lunch
13:05 - 13:45	TBC
13:50 - 14:30	Eduardo Medrano ABC of Tooling
14:30 - 15:00	Refreshments
15:05 - 16:05	Closing and Panel Discussion: Moderator - Bob Williamson



ALL AFRICA EXHIBITION

Exhibition spaces still available

Visit [www.sbs.co.za/istma2023](http://www.sbs.co.za/istma2023) to book your space now



**AFRICAN COUNTRY PAVILIONS**

- Stand 101:
- Stand 102:
- Stand 103: Industrial Development Corporation (IDC)
- Stand 104:
- Stand 105:
- Stand 106:

**AFRICAN TOOLING SYSTEMS MANUFACTURERS**

- Stand 301:
- Stand 302: Gühring Cutting Tools
- Stand 303:
- Stand 304:
- Stand 305: Reserved
- Stand 306: Wagner Systems
- Stand 307:
- Stand 308:
- Stand 309: Gehring Engineering
- Stand 310: Capewell Springs & Metal Pressings | Gasket & Shim Industries
- Stand 311:
- Stand 312: Daliff Precision Engineering
- Stand 313: Dramco Tooling
- Stand 314: Reserved
- Stand 315:
- Stand 316 & 317: Intratech | GstarSoft
- Stand 318:
- Stand 319: MM Services
- Stand 320: Caldeaz Manufacturing Technologies
- Stand 321:
- Stand 322:
- Stand 323: Reserved
- Stand 324: Reserved

**AFRICAN MANUFACTURING COMPANIES**

- Stand 201:
- Stand 202:
- Stand 203: Conver-Tek | Davis & Deale | Hybrid Infinity | Suresight Automatic | Zambesi Sanitation
- Stand 204:
- Stand 205:
- Stand 206:
- Stand 207:
- Stand 208:
- Stand 209:
- Stand 210:
- Stand 211:
- Stand 212:
- Stand 213:
- Stand 214:
- Stand 215:
- Stand 216:
- Stand 217:
- Stand 218: Stellenbosch Technology Station

**IMPORTERS TOOLING, MOULDS & DIES**

- Stand 501:
- Stand 502:
- Stand 503:
- Stand 504:
- Stand 505:
- Stand 506:
- Stand 507:
- Stand 508:
- Stand 509:
- Stand 510: QP GLOBAL
- Stand 511:
- Stand 512 & 513: Mould & Die Solutions
- Stand 514: Multitrade Distributors
- Stand 515:
- Stand 516:
- Stand 517:
- Stand 518:

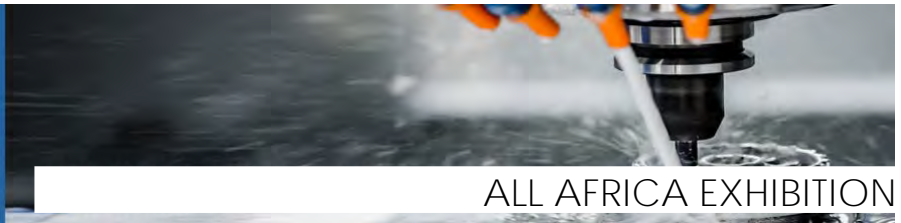
**MACHINE TOOL SUPPLIERS**

- Stand 401: RGC Engineering
- Stand 402: RGC Engineering
- Stand 403:
- Stand 404 & 405: DMG Mori
- Stand 406: Retecon
- Stand 407:
- Stand 408: W.D. Hearn Machine-Tools
- Stand 409:
- Stand 410:



More information: [www.sbs.co.za/istma2023-exhibition/](http://www.sbs.co.za/istma2023-exhibition/)  
 Queries: Peter Aspinall | [peter@sbs.co.za](mailto:peter@sbs.co.za) | +27 (0)83 250 5083





ALL AFRICA EXHIBITION

## Meet some of the Exhibitors

W.D. Hearn is one of the largest CNC machine tool suppliers in South Africa providing highly experienced technical support and quality after sale customer service wherever your business is situated.



W.D. Hearn was established in 1937 and presently has branches in the four major cities around the country. W.D. Hearn is consistently up to date with the latest worldwide machine tool developments and current technology market trends.



Capewell Springs & Metal Pressings is a high-volume manufacturer and supplier of metal pressings, springs, wire forms and strip springs.

Capewell is your engineering and design partner when it comes to developing your product as well as running small and once-off orders. With its own internal tool room, metal presses and CNC wire forming machines, Capewell is able to handle all aspects of manufacturing; including metal forming, heat treatment as well as electro-plating.

Metallurgical and Manufacturing Services is a name trusted for specialised welding of components in need of refurbishment and the manufacturing of new parts where refurbishment is not an option for the petro-chemical, power generation, mining, defence, plastics and water treatment industries.



Gehring Engineering was established in 1994 and has transformed into a fully-fledged general engineering turn-key company with extensive experience in numerous aspects of the production industry eg. automotive, confectionary and consumer packaging just to name a few.

Multitrade Distributors is a wholly owned South African company that supplies tungsten carbide cutting tools as well as holding tools to the engineering and manufacturing industries. Founded in Port Elizabeth in 1983, the main objective of the company is to introduce and maintain total tooling solutions to these industries.



**MULTITRADE**  
— DISTRIBUTORS —

## PtSA enters into partnership with the Stainless Steel Industry

PtSA is proud to announce that the Association has recently signed a National Partnership agreement with the South African Stainless Steel Development Association (SASSDA). The partnership will foster closer collaboration between the TDM sector and the Stainless Steel industry by way of mutually supported projects. This will include manufacturing projects.

Tapiwa Samanga, CEO of PtSA, commented "the National Partnership agreement includes shared visibility of both our constituencies and the supply of services to both our member companies. On our side, we will ensure that our network will make its expertise and competency available to SASSDA and its membership".

PtSA is looking forward to being of service to the growth and sustainability local stainless steel industry.



From left - Francois Beetge (Gauteng Regional Manager), Tapiwa Samanga (PtSA CEO), Lesley Squires (SASSDA), Bob Williamson (PtSA National Secretary), Toni da Mota (Gauteng Industry Development Manager) and Pieter Lategan (PtSA Chief Operating Officer) at the presentation of the Association's National Partnership Certificate.

PtSA National Partners

**momentum**  
consultants & actuaries

**sassda**<sup>®</sup>  
southern africa stainless steel  
development association

## Registration of Artisans regulations reminder



The Government Gazette of 19 March 2021 published a regulation stating that all qualified Artisans must be registered with the National Artisan Development Support Centre (NADSC) at the Department of Higher Education and Training (DHET).

As a transitional arrangement, a period of three years was given to all qualified Artisans to register with the DHET, which means the three years' deadline will be in March 2024.

Qualified Artisans are individuals who have passed a trade test in a listed trade and use tools, equipment and machinery to manufacture, produce, service, install or maintain tangible goods, products or equipment in an engineering and/or technical work environment in the listed trade. For a person to be "qualified" in a specific listed trade, certification by QCTO or any other legislation must be obtained.

After the transitional period of three years, registration with DHET will be mandatory for all qualified artisans if they wish to register with any artisan professional body.

There are four Categories of Artisans:

- Practising Artisans,
- Non-Practising,
- Foreign Practising and
- Foreign Non-Practising Artisans.

All foreign national artisans must register with DHET before applying for a critical skills work visa or any work visa with the Department of Home Affairs.

Newly qualified Artisans will automatically be registered with the DHET when a trade test certificate is issued.

The published Government Gazette mentioned in this notification is available on the PtSA website [Reports | PtSA](#)

Registration must be done online at <http://nadsc.dhet.gov.za/>.

## New intake with the PtSA TDM Powered Toolmaker Apprenticeship Programme!

PtSA Centres of Excellence (CoE) welcomed a new intake of students into the PtSA TDM Powered Toolmaker Apprenticeship Programme in the first week of March.



The students at PtSA Eastern Cape CoE.



The new student group at PtSA Gauteng CoE.



The new group of students at PtSA Western Cape CoE.



KwaZulu-Natal CoE - pictured below are some of the new students busy with orientation.



## THE SKY IS THE LIMIT FOR ADDITIVE MANUFACTURING

Relativity Space has recently debuted their latest space rocket called Terran 1. The company said that 85% of the rocket was 3D printed. Standing almost 34 meters high, the small rocket's Aeon engines are 3D printed with the rocket using liquid oxygen and liquid natural gas as its two fuel types. Currently awaiting the green light at Cape Canaveral Space Force Station in Florida, USA, Relativity Space company aims to increase the percentage of additive manufacturing in their rockets. SpaceX's Falcon rockets have been flying with 3D parts for a couple of years, but not nearly to the extent of Relativity Space's new rocket. According to the company spokesperson, the Terran 1 is the largest 3D printed object to attempt a space launch. The rocket is one of a series which is designed to launch small satellites into low-Earth orbit.

*What makes this approach exciting?* Building rockets using additive manufacturing will be much faster, requiring thousands less parts and enabling changes to be made via software.

(Source: [www.manufacturing.net](http://www.manufacturing.net))



## PtSA Acknowledges Conver-Tek's exceptional Journey

Conver-Tek has been operating in the injection moulding and precision mouldmaking space since 1975. **The company's dynamic team has won numerous international design and product awards for polymer products and "World Firsts" in new polymer technology opportunities.**



Conver-Tek's toolroom

Based in Gauteng, Conver-Tek houses a state-of-the-art tool room and production facility, which enables customers to receive exceptional service and cost savings by managing the entire process – from design to final product – under one roof.

Founder and Managing Director, Bevan Davis was elected as the Chair in PtSA Gauteng Executive Committee during the Annual General Meeting in October 2022.

Bevan's passion for innovative design saw him developing many patented products and world-firsts.

As an entrepreneur who is not afraid of taking risks, Bevan is always keen to

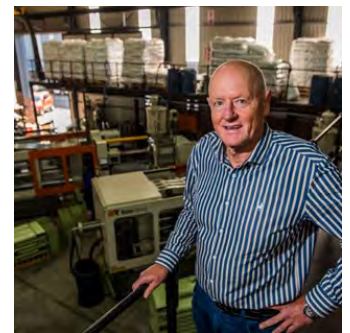
share his knowledge and experience with others.

At a networking event in Gauteng, he gave a presentation of what inventors or companies should take into consideration when developing new products, or going through a process of innovation.

Bevan has a vast amount of experience in this field, having developed products such as the Kreepy-Krauly Pool Cleaner, and more recently, a world first laser-sight for use on hunting/target bow systems, which has been launched into the international market.

During his presentation, Bevan identified the following key points to be taken into consideration before launching a product:-

- Why will your product succeed?
- What are the opposition products?
- Potential market.
- Budget for development, prototyping, and marketing.
- Potential market share and target pricing.
- Forecast manufacturing costs.
- Are there any existing copyright patents or registered designs?
- Product concept design should take aesthetics and ergonomics into consideration.
- Design process, 3D Modelling and Prototyping.
- Protection of your idea.



Bevan Davis

**Bevan's final words of advice: "You need to be realistic and self-critical of the process, have massive confidence in your R&D, and be visionary. However, you must always remember that there are never any guarantees of success, sales, or market share, irrespective of your best product research, market analysis, sales volumes, and best intentions. We wish all product developers and innovators**

**success with their endeavours!"**

## New Laser Welder at Injection Technik

Injection Technik, a PtSA industry member based in Eastern Cape, recently acquired a Sisma Laser **Welder which boosts the company's internal capabilities.**



"Previously, this was an outsourced function, but with this new equipment we do it in-house and save costs and shorten the turn-around time to service our customers," said a very excited Stephan Aucamp, Business Director at the company.

Stephan added that this investment in new technology and capabilities within the company shows growth and development which the Injection Technik team is constantly working towards.

The Injection Technik team refurbished moulds in the factory, and in one week achieved (amongst others) rust-free moulds, checked the hot runner system, replaced all water and hydraulic components and ensured the moulds are again capable of manufacturing parts. This shows what a little bit of team effort can achieve.



## Engineering HUB appoints new CEO

The Engineering HUB in Gqeberha has recently appointed Wesley Augustyn as its new CEO.

The company, a PtSA Industry Member, has grown into a successful engineering firm competing with the best in the industry.

Wesley welcomed three new directors, Kendall Watson, Duane Kritzinger, and Nadia Van Der Merwe.

"They have played a crucial role in our business growth over the past few years, and it brings me joy to see how much they have grown in their careers. The engineering space is both exciting and challenging, but it also presents an opportunity to create positive change," he added.

He continued that he is looking forward to building strong industry relationships and connecting with customers more.



Wesley Augustyn



Duane Kritzinger



Nadia van der Merwe



Kendall Watson



If we made Earth's plastic (300mT p.a) from plants instead of fossil fuel

We would need to harvest 100 million hectares of sugarcane every single year!

That's 82% of South Africa's entire surface area!

POLYOAK PACKAGING

ZERO WASTE

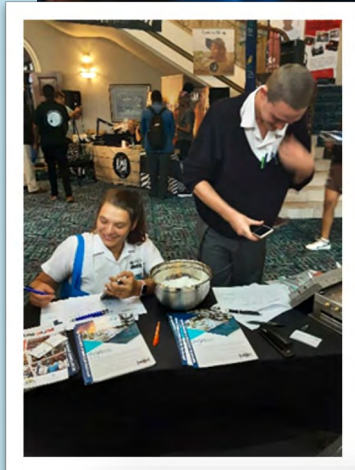


## PtSA Eastern Cape at the Working World Exhibition

The Working World Exhibition was recently held in Gqeberha, and PtSA Eastern Cape attended the expo, which is a comprehensive and cutting-edge Exhibition designed to empower and position learners for the world of work.

The Exhibition repackages the essential components of a Career guidance programme into an interactive experience that learners can identify with and find meaningful.

The expo was attended by almost 15 000 Grade 12 learners and Theo van Rooyen (Regional Manager: PtSA EC) and his team had their work cut out for them introducing the amazing career of a Toolmaker to enthusiastic young adults.



## PtSA Western Cape Networking event



**PtSA Western Cape hosted a "Welcome to 2023" barbeque in January, and it was great to see PtSA members after a well-deserved holiday!**

Malte Scherner from AA Composites and a member of the Western Cape Executive Committee, welcomed the guests and said 2023 will not only be a challenging year but also exciting as arrangements for the ISTMA World Conference are under way.



Please visit the PtSA Website to see the latest reports, listing of events and information about the PtSA services offerings.

[www.ptsa.co.za](http://www.ptsa.co.za)



Retecon Pty (Ltd), a PtSA member, hosted TRUMPF open days in Johannesburg during which they showcased their latest technologies to customers.

Retecon is a supplier of machine tools, accessories and measuring equipment to the metal working industry in Southern Africa.

**AFRICAN MANUFACTURING UPDATE**



African Association of Automotive Manufacturers (AAAM) attended the opening of the new Volkswagen Assembly Facility near the Port of Tema in Accra (Ghana). Dave Coffey, the CEO of AAAM, was one of the representatives to congratulate Martina Biene, Chairperson and MD of Volkswagen (VW) Group South Africa and Jeffrey J. O. Peprah, CEO for VW Ghana on this milestone.

VW was the first automotive company to be registered under the Ghana Automotive Development Programme (GADP). PtSA is a member of AAAM, and is looking forward to developments such as this which will boost manufacturing and productivity on the African continent. VW has taken over the new vehicle assembly responsibility from its licensed importer in Ghana, Universal Motors Limited (UML). UML was awarded the assembly contract when VW officially established VW Ghana, a 100% VW subsidiary, in August 2020. UML assembled models such as Tiguan, Teramont, Passat, Polo, Amarok and T-Cross on behalf of Volkswagen using Semi-Knocked Down (SKD) assembly kits imported from South Africa. It has an installed capacity to assemble 5 000 units per annum. The facility will assemble T-Cross, Tiguan, Amarok and Virtus. In the beginning, the new assembly facility will create about 80 jobs including local third-party service suppliers.

The WD Hearn Machine Tool team visited the recent Taipei International Machine Tool Show (TIMTOS) 2023. "It has been excellent to see how far all of our suppliers have come with technology advancements since pre-COVID. So much is happening in the world of CNC," said Graeme Cooper, MD at WD Hearn, which is a member of the PtSA. The company is looking forward to share its new-found knowledge with the South African manufacturing industry.



**EXCLUSIVE OFFER TO PtSA MEMBERS**



Capewell has been the manufacturer and supplier of metal pressings, springs, wire forms and strip springs to industries for over 40 Years

Now we will be supplying the tool, mold and die industry with **Die Springs**.

All Die Spring orders placed by PtSA Members will receive a 30% DISCOUNT!!!

Contact Capewell Springs & Metal Pressings for information



Andries Victor from Huntley Distribution, a PtSA member, with Daniel Lategan from TDL Engineering who recently tested KENGold inserts; which are supplied by Huntley Distribution.

KENGold is the next generation of CVD coating technologies featuring uniform layers that resist abrasion, provide a strong thermal barrier, improve edge toughness, and allow for easy detection of wear due to its gold flank. Applied to the turning insert grades, in combination with enhanced edge preparation features, customers will experience more reliable and consistent tool life.



# 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.

## Contact details for Regional Managers:

Theo van Rooyen (Eastern Cape):	theovr@ptsa.co.za (012) 760 0300 ext. 401 / 082 562 3087
Francois Beetge (Gauteng):	francoisb@ptsa.co.za (012) 760 0300 ext. 501 / 079 504 9387
Richard Kannigan (KwaZulu-Natal):	richardk@ptsa.co.za (012) 760 0300 ext. 601 / 073 418 5044
André Davies (Western Cape):	andred@ptsa.co.za (012) 760 0300 ext. 301 / 062 813 1301

## Contact details for PtSA News:

Liza du Plessis (PtSA News: Editor)	lizadp@ptsa.co.za (012) 760 0300 ext. 204 / 082 643 8962
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# Do you want to **Advertise** your product or services to the Tooling Sector?



- PtSA is offering the opportunity to advertise in the PtSA News (*Newsletter of the Production Technologies Association of South Africa*)
- 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](mailto:lizadp@ptsa.co.za) for details, or to book an advert!