

HOT DIP

Galvanizing



68

TODAY

Hot Dip Galvanizers Association Southern Africa

2018 Volume 15 Issue 1

SPECIAL EDITION - HOT DIP GALVANIZERS' PROFILES



ADDING VALUE TO STEEL





CORROSION PROTECTION FOR CARBON STEEL BECAUSE SOMETHING AS TOUGH AS STEEL NEEDS PROTECTION TOO

Transvaal Galvanisers boasts 4 galvanizing lines individually equipped with jiggling, pre-treatment and fettling facilities. These allow for a combined capacity of 10 000 tonnes per month. From receipt of customer material to dispatching of the final product, Transvaal Galvanisers will ensure the highest quality approved product at the most competitive price.

Apart from offering hot dip galvanising of steel components, we offer pre and post inspections, shot blast and painting facilities, transportation, on-site offices due to larger projects, a double weighbridge and 16 tonne crane loading and off-loading. These allow for quicker deliveries and collections for our customers.

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Line 2
8 x 1.2 x 1.5

Line 3
12.5 x 1.2 x 1.8

Line 4
15.5 x 2 x 3.2

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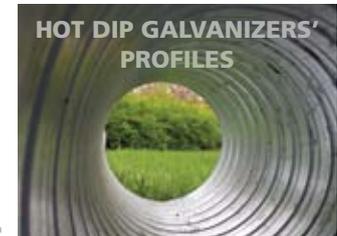
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The Association is an information centre established for the benefit of specifiers, consultants, end users and its members.

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Executive Director's Comment

The change of mood in our country is palpable and mostly positive. Hopes for a more orderly administration, will and new skills to tackle the challenges of the SOE's as well as the revised Moody's ratings have all buoyed business confidence. Naturally, improved business confidence

promotes an appetite for investment and this generates opportunities.

Some opportunities for the participants in the steel related industry may well exist in the following sectors.

S.A. has world class mining capabilities and as issues related to governmental policy and commodity prices stabilize, there may well be an incentive to invest again. Our engineering consultants and in fact the whole engineering, procurement and contracting value chain have been working hard at presenting the mining industry with scenarios for when the environment improves. The plans are in place waiting for enabling environments.

Both East and West Africa show signs of growth. The need for infrastructure developments to support this growth is being recognized and plans are being made to provide this. Opportunities are developing especially in the fields of power generation, roads and communications.

Both the construction industry and steel manufacturing industries have become leaner out of necessity, but potentially better positioned to launch off a more efficient base. Whilst the construction of warehousing from steel is a traditional solution, the European trend toward using steel as a preferred building material for office and residential buildings remains largely untapped in South Africa. Research by the South African Institute of Steel Construction has shown that there are many benefits, inter alia better space utilisation, fast site erection times and savings in natural resources, in particular water.

Hot Dip Galvanizing is an international journal published jointly by the galvanizing associations of Germany, United Kingdom and Ireland and Spain. This publication celebrates excellence in the field of hot dip galvanizing and a significant number of projects illustrate just such structures. An excellent example and highly relevant to our South African environment is the recently published example of the Cedar Brook development in Dublin, Ireland delivered approximately 14 years ago. The design brief centered around a high density layout, minimal cost of maintenance with a fast delivery requirement.

Can we, as a steel related industry show close collaboration and innovation all the way through design, detailing, fabrication, erection and final project delivery? Those able to do so will more likely be at the forefront of some of the opportunities discussed above.

I was struck by a throw away Facebook posting a few days ago, that possibly illustrates a serious point. Two gents were contemplating the future, when one fellow asked what the other saw the future to hold. "Sunflowers" he said. "How do you figure that", was the response. "Because I planted some" came the reply.

Robin Clarke



In this issue...

We live in an era of almost infinite access to information.

However in nearly all instances of getting the

information you need, two elements are vital. The first is 'data' typically to conduct a 'search' of one sort or another. The second is 'power' for your equipment, which always requires some kind of top-up system to keep your device alive. The idea behind this issue is that it is a snapshot of the relevant data you need to contact our Galvanizing Members, drawn primarily from the public domain. This issue is focussed on providing readers with a hardcopy that can be accessed without the need for data, connectivity or electronic devices. It can be on your desk, in your carry-all or on a table in the library. Apart from this primary focus the following has been included in this issue:

- The need for training to a level of competence and skill on par with World Class Standards is critical to ensure our industry remains relevant and professional. This issue provides feedback on the latest Level II Courses held in Johannesburg.
- A personality profile on our newly elected Deputy Chair from KZN makes for interesting reading and insight into the calibre of the professionals in the hot dip galvanizing industry in Southern Africa.
- Intergalva is a few months away, barely enough time to make all the arrangements necessary to attend this globally recognized event.
- The Hot Dip Galvanizing Association Awards is open to entries for the 2018 event. This premier event is run in order to promote and develop the relationship between the galvanizing members and other stakeholders in the arena. These include architects, fabricators, consulting engineers, government agencies and local and international suppliers to the industry. We request further submissions and open the opportunity for sponsorship at the 2018 event which promises to be a spectacular occasion.
- Of all sectors the engineering and steel industries are the keys to unlocking the potential of our country. Through manufacturing and fabrication steel plays a vital role in our ability to grow the economy. A report by the worldsteel Association provides a short range outlook on this commodity and its potential impact around the globe.

A final thought – "When change is seen as a PROBLEM we will seek to SOLVE it, but change cannot be solved. When change is seen as an OPPORTUNITY we seek to EMBRACE it thereby creating more opportunities and growing." (ANON)

Anthony Botha

MWVG

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- Line 1 is 15.3m long X 3.5m deep X 2.0m wide
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G A L V A N I Z E R S

Don't just Galvanize it, Monogalv it

MONOWELD GALVANIZERS

DON'T JUST GALV IT, MONOGALV IT!



GRAND OLD DAME OF GALVANIZING GETS SOME SEXY NEW LINES

Monoweld Galvanizers was first established on 5 March 1965. Originally, Monoweld was started by a German named Hans Mohr who manufactured handrails for the many mining companies around the Reef. This product was called "Monoweld Handrailing". At the time, he was struggling to find a company to galvanize the product, so he decided to set up Monoweld Galvanizers.

Monoweld was later taken over by what was then Barlows (or Barloworld as we know it today). In the 1970's the largest jobbing galvanizing company was Rietfontein Galvanizers. Monoweld bought all the assets of Rietfontein and became the biggest jobbing galvanizer in "Transvaal".

Monoweld had a few name changes over the subsequent years – Barloworld Galvanizers and Robor Galvanizers – but in deference to the company's rich heritage and staying power in the industry, the current owners decided to revert back to the Monoweld brand.

Cutting edge new galvanizing lines in the offing

Monoweld Galvanizers installed a new galvanizing line in January 2018.

DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 2

Bath sizes: Line 1: 15.3m (length) x 3.5m (depth) x 2.0m (width)
 Line 3: 8.2m (length)x 1.8m (depth) x 1.4m (width)
 with semi-automatic capability

KEY PERSONNEL



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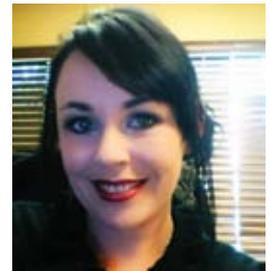
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It boasts a zinc kettle measuring an impressive 15.3m long by 3.5m deep, by 2m wide – which makes this the biggest galvanizing kettle in the Southern Hemisphere. This world class German-manufactured kettle is complemented by a state-of-the-art, gas fired furnace system which should see the company reduce its dependence on electricity and working greener to reduce its carbon footprint.

Monoweld's Managing Director, Mr Riaan Louw says, "With the recent changes in the country's political arena, we are confident that this bodes well for an upswing in infrastructural development. The new plant is ideally suited to service companies who specialise in large structural products and mining steelwork".

Monoweld is also excited to announce that the revamped Line 3 facility has been reopened. This line has a semi-automatic pipe galvanizing machine, but can also double up as a general galvanizing line should customer demand necessitate this. Some readers may recall that Line 3 was mothballed some time ago, but **Monoweld's** management has identified a growing market in this area, having seen a marked increase in demand for pipe galvanizing.

Mr Louw stresses that "the key factor for us is how we can best satisfy our customers' needs, and the re-introduction of the pipe machine certainly fits the bill in that respect."

Reducing environmental impact

Monoweld, although heavily focussed on customers' needs, is also concerned with the impact that the galvanizing plant has on the environment and the health and well-being of its workers. To this end, the new plant has been designed to reduce emissions and subsequently its carbon footprint, with the potential to be emission-free in the final stages of upgrading

This is just the beginning

In summary, these exciting new developments are only the start for **Monoweld Galvanizers**. In a measured and phased approach, the company will continue to improve and grow in order to meet their customers' demand for exceptional-quality galvanizing. Always with a sensitivity to environmental impact and while nurturing a happy, healthy workforce.



ARMCO SUPERLITE GALVANIZERS



Armco was founded as a subsidiary of the American Rolling Mill Corporation in the early 1930's. It was sold to the Robson Group and then later to Murray & Roberts to form part of its light-industry-focus. In 1997 the business was sold to Steelwood Africa. Armco Superlite is currently a wholly owned subsidiary of O-Line Support Systems (Pty) Ltd who acquired Armco in 2012 through the OBO Betterman Group of Germany.

The Armco Superlite organisation comprises three separate business units, Construction Products, Road Safety Products and Armco Superlite Galvanizing.

- *The Construction Products* operation's core focus is the formation and manufacture of products used predominantly in infrastructural construction.
- *The Road Safety* division supply a variety of products to the road industry viz. guardrail, wire rope systems, crash cushions and steel barriers.
- *The Galvanizing* business unit specialises in the treatment of steel for control corrosion.

While operating as separate business units the Construction Products operations was originally interdependent with the bulk of the galvanizing work being performed by Armco Superlite.

Armco Superlite is a listed BSI ISO 9001: 2008 quality scheme organisation ensuring the quality of all products and services available from Armco Superlite.

Armco Superlite Galvanizers is certified by SATAS for compliance with the SANS 121:2011/ISO 1461:2009 standard for Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles.

ARMCO are members of:

- HDGASA (Hot Dip Galvanizers Association Southern Africa): Chairman of HDGASA
- CorrISA (Corrosion Institute of South Africa: Member
- SEIFSA (Steel Engineering Industries Federation of South Africa): Member
- SAISC (South African Institute of Steel Construction): Member

DESCRIPTION OF CAPABILITIES

ISANDO: FABRICATION AND JOBBING HOT DIP GALVANIZING

No. of lines: 1

Bath size: 13.2m (length) x 1.5m (width) x 2.0m (depth)

RANDFONTEIN: FABRICATION AND GENERAL HOT DIP GALVANIZING

No. of lines: 1

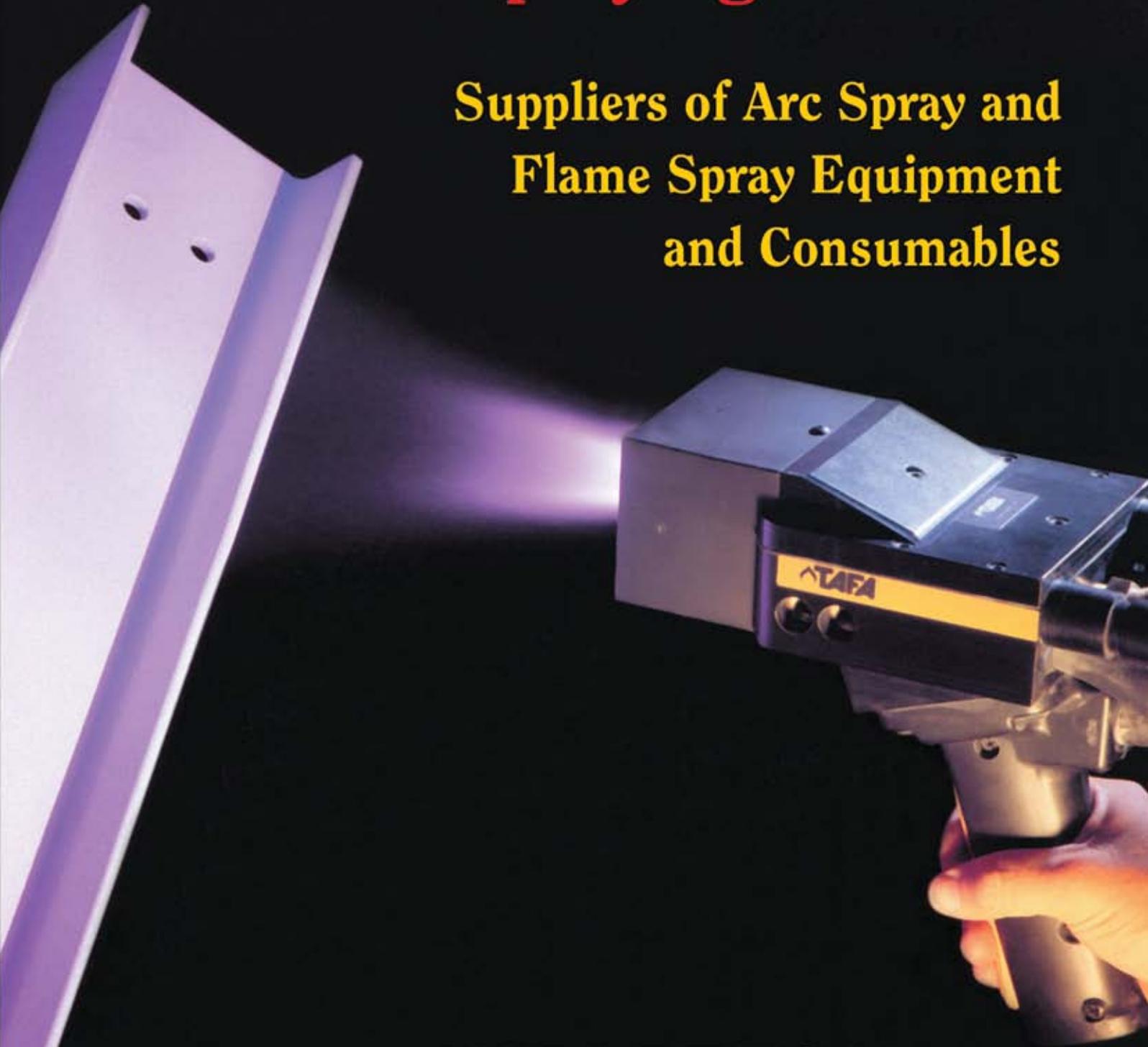
Bath size: 6.5m (length) x 1.3m (width) x 2.0m (depth)



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E-mail: sales@weartech.co.za
Website: www.weartech.co.za

TRANSVAAL GALVANISERS

BECAUSE SOMETHING AS TOUGH AS STEEL NEEDS PROTECTION TOO



Transvaal Galvanisers (TVG) boasts 4 galvanizing lines individually equipped with jigging, pre-treatment and fettling facilities. From receipt of customer material to dispatching of the final product, Transvaal Galvanisers will ensure the highest quality approved product at the most competitive price.

TVG was founded in 1984 by the Managing Director of Imab Engineering with the vision of creating a full turnkey operation when it came to the need for supply of corrosion protected steel articles. With Imab Engineering at the forefront, this expansion into the galvanizing industry would one day become the biggest galvanizing plant in South Africa.

With TVG celebrating their 33rd birthday this year, it is time to look back, standing on the threshold of this milestone, to the journey that has led us here.

Over the last 33 years, TVG has galvanized well over a million tonnes of steel. This is equivalent to 165 000 Bull Elephants OR 3 676 Boeing 747's OR 137 Eiffel Towers OR 68 Brooklyn Bridges.

While looking back we are extremely proud of our history and our heritage, but looking forward is much more important to us. One man that is always looking forward is the Director of Transvaal Galvanisers, Francesco Indiveri. With Mr Indiveri at the helm, TVG has expanded into new markets focusing extensively on renewable energy projects.

TVG quality control procedures are in place to ensure not only the quality of the final product, but the quality of the entire process is controlled. Our SHEQ department ensure overall compliance with regards to Quality, Health, Safety and the environment.

TVG have recently upgraded their facilities to provide for a much greater capacity being 10 000 tonnes per month, The upgrade incorporates state of the art equipment aiding in a greener, more environmentally friendly galvanizing process from start to finish. The facility includes 16 tonne crane capacity with the advantage of crane off loading and loading of trucks, to ensure more efficient deliveries and dispatches for our customers.

Our facilities also include a shot blasting workshop, painting workshop, pre and post inspection, multiple approved repair processes, onsite offices for larger projects as well as an onsite boiler workshop where we manufacture and design new methods of dipping and jigging customer steel.

We constantly aim to continually improve ourselves by adapting to changing times and markets whilst ensuring that we always stay focused on client satisfaction. It is this focus that has brought us to where we are today, and we know that this focus will take us to even greater heights over the next 33 years.

With qualified, experienced and driven personnel at our forefront, we are your one stop shop when it comes to corrosion protection.

DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 4

Bath sizes: Line 1: 12.5m (length) x 1.2m (width) x 1.8m (depth)
 Line 2: 8.0m (length) x 1.2m (width) x 1.5m (depth)
 Line 3: 12.5m (length) x 1.2m (width) x 1.8m (depth)
 Line 4: 15.5m (length) x 2.0m (width) x 3.2m (depth)



ADVANCED GALVANISING

ADVANCED GALVANISING



Advanced Galvanising was established at the site of the "Old Dorbyl Building" in Sacs Circle Bellville in 1994. Fanie Malherbe, Gavin Stigling and Johan de Beer invested in the enterprise which Theo Brophy ran.

Advanced Galvanising saw a changing of the guard in 2007 when the Prima Group bought the business from the previous owners and Theo Brophy handing over the reins to Johan Louw as Managing Director. Johan Louw, Febbie Malherbe and Pieter Malherbe became the new owners being the directors of the Prima Group. Sim Swart, who first started in 1997 and left after a five and a half year stint, returned in 2007 as sales representative and was promoted to General Manager in 2014. Denzil Clifford started working at Advanced Galvanising in 2003 and worked himself through the ranks to the post of Production Manager. In 2016 Hendrik Gerber, the Springbok and Western Province

internationally renowned rugby player, joined the team at Advanced Galvanising as Factory Manager.

Advanced Galvanising are the current holders of the Hot Dip Galvanizers Association's Walter Barnett Trophy as the Overall Winner of the 2016 HDGASA Awards.

Johan Louw is a member of the HDGASA Executive and Cape Regional Representative.

Other facilities and services

- Collection and delivery
- Design assistance
- Plant tours

DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 1

Bath size: 14.0m (length) x 1.4m (width) x 3.0m (depth)



KEY PERSONNEL



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Factory Manager
Hendrik Gerber
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Production Manager
Denzil Clifford
denzil@advancedgalv.co.za



AGRICO

MORE THAN 100 YEARS' SERVICE!



Agrico employs over 900 people and has annual sales exceeding a Billion Rand. Currently five shareholders, all university graduates, are active in the day-to-day running of the company with further third and fourth generation family members serving as non-executive directors. Notably three successful generation successions have taken place, a positive and encouraging development at this often the critical stage of any family owned and managed business.

Agrico's three factories produce a wide range of products including centre pivots, quick coupling pipes and other irrigation and water management products. Agrico's 4+Series of tractors were locally developed, with sales to farmers commencing in 1986. The cumulative production currently exceeds 600 tractors. The manufacture of centre pivots started in 1988 and is manufactured at a fully integrated factory which has its own on-site galvanizing facility.



On February 4, 1896 Paul Andrag arrived in Cape Town, South Africa, having left Germany to work for the Moravian Mission near Caledon. His task was to manage the trading store at Genadendal. During 1904 he started his own business in Cape Town and subsequently transferred to Saron, situated between Gouda and Porterville in the Cape and continued with a trading store.

Paul noticed that the local farmers faced many problems due to a lack of proper equipment. He knew that European agricultural machinery could solve some of these difficulties and began to import equipment to sell locally.

Over time, his sons joined him in the business and many innovative ideas were introduced to South Africa by them including the first locally made irrigation tubing. Following the second-world-war, all five of Paul's sons entered the business which then traded as P Andrag & Sons.



In 1950 Agrico Machinery (Pty) Ltd was founded to resume importation of Lanz Tractors. The branch network of Agrico grew steadily. In the year 2000 the Andrag and Agrico organizations merged, optimizing their synergies in the areas of manufacturing, marketing and distribution. In 2016 Agrico decided to sell the mechanization division. The focus shifted to Agrico's own manufactured products and its water related business. Today there are 27 branches across Southern Africa, including a new branch in Zambia.

ARCELORMITTAL SOUTH AFRICA

transforming tomorrow



ArcelorMittal



Industry overview

ArcelorMittal is a proud contributor to the sustainability of the built environment through its continuously hot dip galvanized products, derived from its durable zinc coating. An enduring characteristic of galvanized steel, that is not always remembered, is that steel is infinitely recyclable. With this in mind, **ArcelorMittal** makes a positive contribution to a number of key segments where galvanised products are used.

Construction

The construction segment is recognised as the largest steel consuming segment in South Africa. In line with this trend, **ArcelorMittal** supplies continuously hot dip galvanized coil to the roofing industry in both bare and colour coated finishes. The bare galvanized coating for roofing ranges from Z100 to Z275 while the colour coated galvanized offering, better known as Chromadek, is based on a Z200 substrate. Additionally ULTIM, suitable for coastal applications up to 400m from the sea, is based on a Z275 substrate.

ArcelorMittal in conjunction with SAMCRA (The South African Metal Cladding and Roofing Association), through the recently introduced SANS10237 standard, has pioneered the South African roofing and cladding industry standard to ensure that a well-defined norm is introduced and adopted. In line with establishing industry standards, **ArcelorMittal** has introduced the "know what

KEY PERSONNEL



Product Manager
Melvin Hickers
Melvin.hickers@arcelormittal.com

you buy" campaign placing emphasis on the importance of identifying authentic steel products. Through this initiative the consumer is informed and awareness is raised on the authenticity of galvanized and Chromadek coils, to ensure that the expected lifespan is realised. To maintain product standards, **ArcelorMittal South Africa** offers warranties, subject to warranty applications on galvanized and colour coated products.

Light steel frame

Light Steel Frame (LSF) Building, as an Innovative Building Technology (IBT), has assisted the adoption of roll formed galvanized coil in the application of constructing energy efficient buildings. Galvanized coil supplied in Z200 and Z275 produced by **ArcelorMittal** assists in ensuring that a durable LSF structure exists. Through the SANS 517 building code, LSF construction has become a recognised construction method for both residential and non-residential applications. Numerous examples of LSF structures exist and a number of well known examples can be called upon by the South African Light Steel Frame Association (SASFA) to demonstrate the benefits that LSF buildings offer namely: speed of construction; low site usage of scarce resources such as water and the contribution towards energy efficiency. For added peace of mind, LSF structures using **ArcelorMittal** galvanized products carry a warranty.

Solar

With the advent of "off the grid" and the need for additional energy sources, solar has provided the impetus for **ArcelorMittal** to be recognised as a locally designated supplier of galvanized coil for solar projects. As part of the solar revolution in South Africa, galvanized coil in a dedicated structural grade (EN 10346 S350GD) supplied in Z275, has contributed to a more energy efficient power generating method. The call remains to make the future sustainable and this can be realised through the use of sustainable and enduring materials such as galvanized steel. The application of continuously hot dip galvanized steel in a number of growing and demanding segments shows that steel has mettle, the common element being that zinc adds to its endurance.

DESCRIPTION OF CAPABILITIES

CONTINUOUS SHEET HOT DIP GALVANIZING

No. of lines: 3

BABCOCK NTUTHUKO POWERLINES (PTY) LTD

TRUSTED TO DELIVER



trusted to deliver



The **Babcock** story begins in 1856 when two Americans, Stephen Wilcox and George Babcock patent a water tube boiler. Thereafter the company grew into a Trans-Atlantic success story and the US boiler manufacturer Babcock and Wilcox opened its UK office in 1891.

The Power Lines Company, which was acquired by **Babcock** in 2006, was founded in 1954. In 1956 a 30 000 square metre property was purchased in Nigel from which **Babcock's** transmission line business still operates today.



A galvanizing plant was commissioned at the Nigel factory in the late 1950's. The Nigel factory expanded in the 1970's with a gas plant being built on-site which produced gas from coal, to feed the various ovens and burners for forging and galvanizing.

Babcock invested around 14 million rand in a new galvanizing plant in the 1990's. The plant was a model for the industry and the first of its kind in the southern hemisphere due to new filtration technologies employed. With a 12m long, 96m³ galvanizing immersion tank, yielding 22 000 ton per annum capacity, **Babcock** are well positioned to galvanize high voltage lattice transmission line towers, components, telecommunication towers and general structural steel for third parties.

DESCRIPTION OF CAPABILITIES

FABRICATION, GENERAL AND FORGINGS HOT DIP GALVANIZING

No. of lines: 1

Bath size: 12.0m (length) x 1.4m (width) x 1.8m (depth)

Babcock Ntuthuko Powerlines are members of the HDGASA and follow industry best practice for exceptional quality produced on site. All hot dip galvanized products carry the respected SABS mark and comply with the SANS 121:2011 / ISO 1461:2009 standard for Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles.

KEY PERSONNEL



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Babcock Ntuthuko Powerlines (Pty) Ltd is the proud recipient of a coveted Galvanizing Diamond Award for quality in South Africa.

Babcock Ntuthuko Powerlines (Pty) Ltd is a member of:

- HDGASA (Hot Dip Galvanizers Association Southern Africa): Exco Member
- POLASA (Powerline Association of SA): Member
- SEIFSA (Steel Engineering Industries Federation of South Africa): Member
- SAISC (South African Institute of Steel Construction): Member



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BAY GALVANIZERS

ADDING VALUE TO STEEL



Bay Galvanizers has been in operation since 2000. It all started with a 3m kettle, and it was soon obvious that change was coming in a big way. By 2003 the 3m kettle had become a 5m kettle and it didn't stop there. In 2006, production levels had grown to over 200 tons of steel per month.

Bay Galvanizers supports environmentally friendly practices

Used HCL and chemicals are removed by an approved waste company and sent to a land fill site treated, neutralized and disposed of in an environmental friendly manner.

We have installed air filtration and monitoring systems at the plant to meet the requirements of Air Quality Act of 2004 of all the air emissions that we release from our plant. Our emissions are measured on an annual basis to ensure that we are in compliance with the Air Quality Act of 2004. All waste by products are sold for recycling.

ZERO HARM is what we strive for in all we do and we will not compromise on the safety of our employees who work in the plant and our customers who collect and deliver at our yard. We are a MBA 5 star rate safety company.

Bay Galvanizers are members HDGASA (Hot Dip Galvanizers Association of Southern Africa) and currently the elected 2nd Chair of the Association.

Bay Galvanizers has a staff compliment of 39 and we are firm believers in the upliftment of our staff.

DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 1

Bath size: 5.0m (length) x 1.2m (width) x 2.5m (depth)



KEY PERSONNEL



CEO
Don Voysey



Plant Manager
Jerry Wolfaardt



Internal Sales
Leelasha Naicker



Financial Manageress
Ingried Voysey



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DURBAN GALVANIZING (PTY) LTD

SPECIALISTS IN HOT DIP GALVANIZING & GENERAL ENGINEERING

DURBAN GALVANIZING PTY (LTD)



Durban Galvanizing is one of the leading galvanizing plants in Durban, coating metal for corrosion prevention for the majority of the industry. Ideally located in close proximity to the N2 Freeway, central Durban, Umhlanga Rocks and the Durban harbour, the company offers an extensive array of services in the corrosion protection industry, including hot dip galvanizing and zinc metal spraying.

Founder, John Fischer, recognized an urgent need for hot dip galvanizing services in Durban and so began his operation in 1990, operating from premises on North Coast Road. The Company has been hot dip galvanizing products for the greater Durban area, Mauritius, Seychelles and Germany for over 20 years. In 1995 the company had outgrown its location and opted to design and build a new plant in Briardene Industrial Park.

John retired as Managing Director in 2014 and was replaced by Brett Eigenmann. Brett, together with fellow directors Roy Ramadu and Shereen Mohan, make up the senior management team. Brett has been with the company since 1993 and Roy and Shereen since the company started back in 1990, and together offer galvanizing experience in excess of 75 years.

Since 2014 the company has seen a massive 40% increase in volume and today the plant dips on average in excess of 800 tons of steel per month, while still boasting a 48 - 72 hour turnaround time.

With a reputation built on outstanding quality and superior customer service, **Durban Galvanizing** is known as one of the finest galvanizing plants in Southern Africa.

Durban Galvanizing boasts a zinc bath that is 9.5m long, 1.3m wide and 3m deep allowing items weighing up to 5 tons to be galvanizing in a single dip.

Durban Galvanizing provides a convenient collection and delivery service for larger jobs. The fleet consists of eight trucks; one of the trucks can carry 18 tons accommodating a maximum length of 13m and the remaining seven trucks carry an average of 5 tons each at any one time. Three trucks are fitted with cranes to ensure quick loading and off-loading of jobs.

Durban Galvanizing is a member of the Hot Dip Galvanizers Association of Southern Africa and is certified with SANS 121:2011 / ISO 1461:2009.



DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 1

Bath sizes: 9.5m (length) x 1.3m (width) x 3.0m (depth)

PHOENIX GALVANIZING



Phoenix Galvanizing is KZN's largest hot dip galvanizer. Phoenix Galvanizing was launched in 1996 by brothers, Roy and Anni Ramkisson. In the steel fabrication business, at the time, they specialised in steel security products when they identified the niche for local, quality hot dip galvanizing. The first dip took place on September 6, 1996 being a Hindu Aum sign. Phoenix Galvanizing holds its place in history as the first fully non-white owned and operated hot dip galvanizing business in South Africa.

Phoenix's team's combined experience and expertise provides for consultative input on projects from the design stage. Projects have included uShaka Marine World's award-winning Phantom Ship, Moses Mabhida Stadium and the King Shaka International Airport as well as numerous Transnet projects. Phoenix Galvanizing takes its market status seriously being an accredited Level 2 B-BBEE company and holds both SANS 9001:2008 (Quality Management Systems) and SANS 121:2011 certification. It has been a member of the Hot Dip Galvanizers Association of Southern Africa since inception and complies with all aspects of the Associations' standards and codes being a responsible corporate citizen.

Phoenix Galvanizing places great emphasis on giving back to the local community. Among the many causes it supports are the Verulam Frail and Day Care Centre, Phoenix Child Welfare and the Mariamman Temple in Mount Edgecombe. The directors of Phoenix Galvanizing also spearhead the building of the Phoenix Community Hospice and Day Care Centre. The project

is progressing well, with the hospice board members successfully achieving the required PBO number.

Phoenix Galvanizing's large, fully-serviced and secure yard space of around 6 000m² is available to customers for 'free of charge' storage of their steel products during the period between fabrication and hot dip galvanizing. With full containerisation services available which includes all the necessary pre-load quality checks, correct loading of the galvanized products into the container and the transport of the container directly to the harbour for export also forming part of an extensive customer centred offering.

Phoenix Galvanizing's transport services are available on a daily basis to the North Coast as far as Richards Bay as well as to the Midlands covering Howick and Pietermaritzburg. A fleet of vehicles from one-ton bakkies to 24-ton horse and trailers offer dedicated transport facilities for the collection of fabricated steel at the point of manufacture. This facility also offers customers a combined service that can be used to deliver the finished galvanized steel to site. Phoenix Galvanizing has a depot in Port Shepstone, where steel is dropped off by customers and delivered back to the client within 48 hours.

Phoenix Galvanizing boasts a hot dip galvanizing centrifuge plant for small items. These are galvanized in a smaller zinc tank and spun to remove excess zinc from the articles. The centrifuge plant specialises in threaded sections, including the galvanizing of nuts and bolts.

DESCRIPTION OF CAPABILITIES

GENERAL AND CENTRIFUGE SPINNING HOT DIP GALVANIZING

No. of lines: 2

Bath sizes:

Line 1 (General): 14m (length) x 1.4m (width) x 2.5m (depth)

Line 2 (Centrifuge): 3.0m (length) x 1.2m (width) x 1.0m (depth)



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KwaZulu-Natal: Tel: 031 705 1797

Cape Town: Tel: 021 551 9079

George and surrounding areas: Tel: 072 592 6531

Port Elizabeth & East London: Tel: 071 638 6524

COATINGS & CHEMICALS

SILVERTON ENGINEERING

HEAT EXCHANGERS | GALVANIZING | PRESSINGS



Silvertion Engineering (Pty) Ltd was established in 1949 as a manufacturer of copper/brass radiators in Silvertion, Pretoria, South Africa.

It has grown to become the largest heat exchange manufacturer in South Africa, adding power transformer oil coolers, transmission oil coolers, and mining, agriculture, electrical and industrial products to its range.

The factory occupies over 50 000m² of space and employs over 580 people, drawing on the skills and expertise from the surrounding areas as far as Ekurhuleni.

The acquisition of a metal stamping company has expanded the company's offerings into the automotive component sector as a Tier 1 & 2 supplier to the original motor manufacturers with metal press parts and welding assemblies.

An investment was made into a state-of-the art galvanizing facility on the same premises, offering hot dip galvanizing, thermal zinc arc spraying and shot blasting of steel parts and structures.

The company has the ability to create and manufacture custom built solutions according to customer requirements and specifications, both for local and international markets. Latest quality rating obtained – ISO 9001: 2015.

Other facilities and services

- Fully equipped tool shop with CNC & CMM machines
- Press shop – 69 presses ranging from 50 to 1300t
- Robot welding capacity
- Plastic injection moulding capacity – 25 to 110t

DESCRIPTION OF CAPABILITIES

FABRICATION AND GENERAL HOT DIP GALVANIZING

No. of lines: 1

Bath size: 7.2m (length) x 1.7m (width) x 1.8m (depth)

KEY PERSONNEL



Managing Director
Maartin Boshoff
mb@seng.co.za



Manager
Marco Barnard
marcob@seng.co.za



Logistics Coordinator
Hans van Wyk
hansv@seng.co.za



LIANRU GALVANISERS



Lianru Galvanisers was acquired in 1999 by the current owners as an opportunity to provide the high demand for corrosion control of steel, as the steel price was at a premium at that time. The zinc bath was a mere 1.95m x 0.9m x 1.0m at that stage. In August of the same year a second zinc bath was installed at the Vorsterskroon plant. The new bath was a 1.0m x 1.0m x 1.2m unit. Lianru's primary product range was irrigation system components. Lianru grew a staggering 37% in the first year of operation.

Lianru believe that the exceptional growth is due to three basic rules that they follow religiously:

- Lianru is uncompromising on quality. Meeting or exceeding the standards for galvanizing.

DESCRIPTION OF CAPABILITIES

FABRICATION AND GENERAL HOT DIP GALVANIZING

No. of lines: 2

Bath sizes: Line 1: 7.2m (length) x 1.3m (width) x 1.6m (depth)
Line 2: 4.5m (length) x 1.3m (width) x 1.6m (depth)

- Turnaround time of 48 hours is mandatory.
- Our pricing is highly competitive.

In July 2002 the old Andrag / Agrico plant entered the market. The new plant had to be reorganized into a more productive layout and was put into service in January 2003. The new facilities boasted a bath size of 7.2m x 1.3m x 1.6m and a capacity of 2 000 t/month.

In 2004 Lianru undertook the relocation of the old plant. All buildings, earthworks and steelwork were undertaken in-house by Lianru. A new zinc bath was imported from Germany. The 4.5m x 1.3m x 1.6m bath increased Lianru's capacity by 1 500 t/month.

Operations at Lianru started with just 6 people and have grown to a personnel compliment of 185 over the intervening years.

Lianru is a member of:

- HDGASA (Hot Dip Galvanizers Association Southern Africa): 1st Deputy Chair HDGASA

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MORHOT GALVANISERS

EFFECTIVE CORROSION PROTECTION BY HOT DIP GALVANIZING



DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 1

Bath size: 7.0m (length) x 2.5m (width) x 1.5m (depth)

Site 4 Indwe Road, Fort Jackson, East London • Tel: +27 (0)43 763 1143 • E-mail: grahammachot@gmail.com

Morhot Galvanisers was founded in 1983 by Mr. Bennie Morsink situated in the Fort Jackson Industrial zone, East London.

Being coastal it was necessary for the establishment of a plant to counter steel erosion. The original plant had a staff of 10 and managed with 1 forklift and truck. The present owners bought the operation in 2003. We have subsequently bought the adjoining factory to accommodate the increase in demand for galvanizing.

We have a capacity to dip up to 600 tons per month with a turnaround time of three working days. We now have a staff compliment of 85 including drivers. We currently have 4 eight ton trucks and 6 forklifts, we have a free fetch and delivery service for the East London area and surrounds for bigger loads, as well as a depot in East London for smaller items.

We are a proud member of the Hot Dip Galvanizing Association Southern Africa and a Certified SABS Member.

Any enquires will be gladly dealt with by our General Manager, Graham McCallum or our Production Manger, Grieg Naude who has been with the company for over 20 years.

We are proudly BEE compliant and have ongoing training in all departments.

SMT GALVANIZERS

SPINNING & DIPPING



DESCRIPTION OF CAPABILITIES

GENERAL HOT DIP GALVANIZING

No. of lines: 2

Bath sizes: Line 1: 2.6m (length) x 1.0m (width) x 1.5m (depth)
Line 2: 2.0m (length) x 1.0m (width) x 1.5m (depth)

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Our multi-discipline, integrated expertise as a group makes provision for a unique, truly holistic offering, guaranteed to improve overall efficiency, reduce cost and increase your bottom line by minimising multi-vendor procurement.

SMT Group is SABS (South African Bureau of Standards) certified and a member of the Hot Dip Galvanizers Association of South Africa.

SMT Group is a BEE compliant contributor as per the Codes of Good Practice of the Broad-Based Black Economic Empowerment. Consequently, all members of staff are required at all times to be respectful, supportive and professional.

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SMT Galvanizers are specialists in the hot dip galvanizing of all types of fasteners, as well as on-site de-embrittlement treatment.

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TEL: 011 420 0912/14



SMT GALVANIZERS

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SMT
GALVANIZERS
SPINNING &
DIPPING

SMT Galvanizers (Spinning & Dipping) | jan@smtgroup.co.za
SMT Electroplaters | kevin@smtgroup.co.za
SMT Steel (Engineering) | bernadette@smtgroup.co.za

A & A GALVANISING

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Bath 1 Size:
3.8m (length) x 0.9m (width) x 1.8m (depth)

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52 Burman Road, Deal Party, Port Elizabeth
Tel.: +27 (0)41 486 1432
Email: metalman@iafrica.com

PRO-TECH GALVANISERS (PTY) LTD

GENERAL, FABRICATION AND CENTRIFUGE (fasteners etc) HOT DIP GALVANIZING

Bath 1 Size:
3.0m (length) x 1.1m (width) x 1.2m (depth)

Bath 2 Size:
3.2m (length) x 1.1m (width) x 1.5m (depth)

12 Fabriek Crescent, Vorsterskroon, Nigel
Tel.: +27 (0)11 814 4292
Email: jonathan@protechgalvanizers.co.za

GALFERRO GALVANISERS

FABRICATION AND GENERAL HOT DIP GALVANIZING

Bath 1 Size:
13.5m (length) x 1.65m (width) x 2.5m (depth)

Bath 2 Size:
6.5m (length) x 0.9m (width) x 1.5m (depth)

Bath 3 Size:
6.8m (length) x 0.9m (width) x 1.4m (depth)

Bath 4 Size:
6.45m (length) x 0.755m (width) x 0.9m (depth)

Cnr Neon & Radon Road, Fulcrum, Springs
Tel.: +27 (0)11 817 3667
Email: jacques@galferro.co.za
www.galferro.co.za

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Bath 1 Size:
5.5m (length) x 0.8m (width) x 2.4m (depth)

3 Test Centre Street, Helderberg, Industrial Park, Strand,
Tel.: +27 (0)21 845 4500
Email: helderberg.galvanizing@worldonline.co.za

SOUTH CAPE GALVANISERS (PTY) LTD

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Bath 1 Size:
5.5m (length) x 1.0m (width) x 2.6m (depth)

Bath 2 Size:
3.7m (length) x 0.94m (width) x 2.3m (depth)

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Bath 1 Size:
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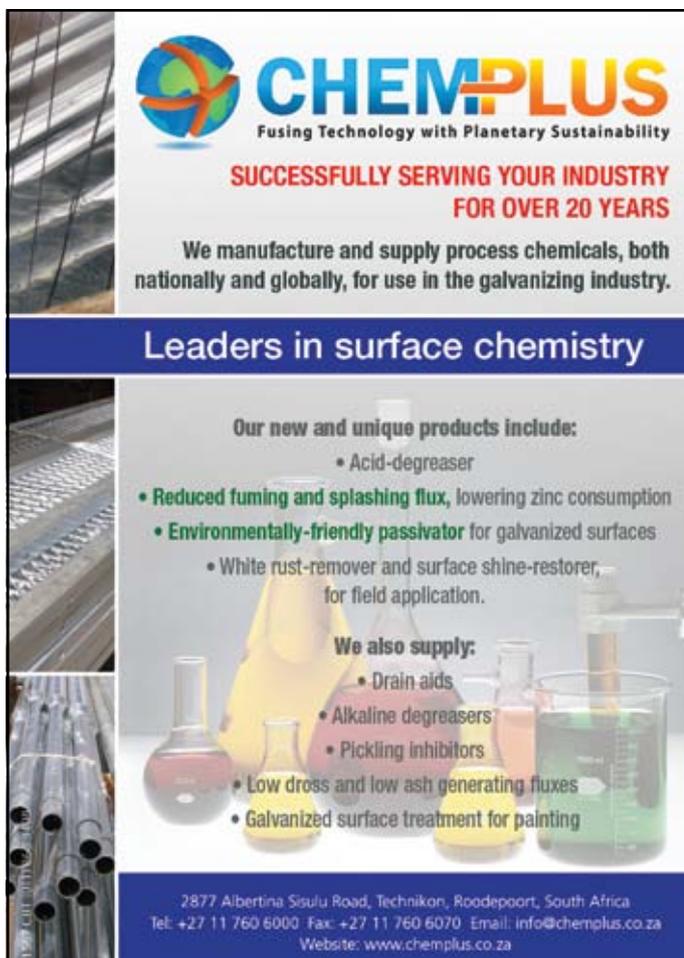
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worldsteel short range outlook 2017/2018

16 October 2017 Brussels, Belgium

Moderate but continued growth expected for global steel demand

The World Steel Association (worldsteel) today released its October 2017 Short Range Outlook (SRO). worldsteel forecasts global steel demand will reach 1,622.1 Mt in 2017. In 2018, it is forecast that global steel demand will reach 1,648.1 Mt. worldsteel forecasts that global steel demand excluding China will reach 856.4 Mt, an increase of 2.6% in 2017 and 882.4 Mt, an increase of 3.0% in 2018.

* Please see *A special note on China* below.

Commenting on the outlook, Mr T.V. Narendran, Chairman of the worldsteel Economics Committee said, "progress in the global steel market this year to date has been encouraging. We have seen the cyclical upturn broadening and firming throughout the year, leading to better than expected performances for both developed and developing economies, although the MENA region and Turkey have been an exception.

The risks to the global economy that we referred to in our April 2017 outlook, such as rising populism/protectionism, US policy shifts, EU election uncertainties and China deceleration, although remaining, have to some extent abated. This leads us to conclude that we now see the best balance of risks since the 2008 economic crisis. However, escalating geopolitical tension in the Korean peninsula, China's debt problem and rising protectionism in many locations continue to remain risk factors.

In 2018, we expect global growth to moderate, mainly due to slower growth in China, while in the rest of the world, steel demand will continue to maintain its current momentum.

So, world steel demand is recovering well, driven largely by cyclical factors rather than structural. The lack of a strong growth engine to replace China and a long term decline in steel intensity due to technological and environmental factors will continue to weigh on steel demand in the future."

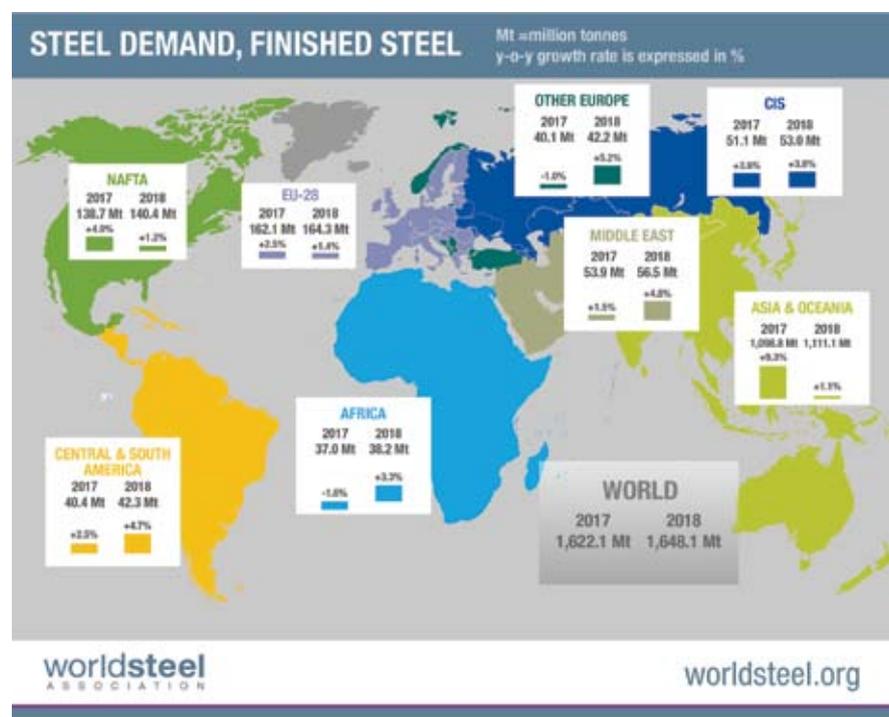
* A special note on China:

China closed most of its outdated induction furnaces in 2017, a category which was generally not captured in official statistics. With closure of the induction furnaces, the demand from this sector of the market is now satisfied by mainstream steel makers and therefore captured in the official statistics in 2017. Consequently, the nominal growth rate for steel demand in China increased to 12.4% or 765.7 Mt.

Disregarding this statistical base effect worldsteel expects that the underlying growth rate of China's steel demand for 2017 will be 3%, which will make the corresponding global growth rate 2.8%.

Global economic momentum bodes well for steel demand growth in the short term

Both advanced and developing economies are exhibiting stronger economic



Infrastructure investment, which has been driving steel demand in developing countries, is likely to get some additional support from the developed world's infrastructure renewal initiatives.

momentum this year. Confidence and investment sentiments are improving in a large part of the world despite some financial market volatility and growing concern of stock market overvaluation.

Also on a positive note, global trade is gaining momentum despite worries about rising protectionism and talks of rearranging existing free trade agreements.

Developed economies gain strong foothold for recovery

The US economy continues to exhibit robust fundamentals supported by strong consumer spending and rising business confidence. Concern about tensions within the EU particularly over migration policies is receding and the EU economic recovery is broadening. Japanese steel demand is showing better than expected performance benefitting from the government stimulus package, improving exports and preparations for the 2020 Olympic games. South Korea's steel demand is suffering from high consumer debts, weakening construction and a depressed shipbuilding sector, while escalated tension around the

North Korean nuclear weapons threat poses a serious and highly unpredictable risk.

With these generally favourable developments steel demand in the developed economies is expected to increase by 2.3% in 2017 and 0.9% in 2018.

China

The Chinese economy, which has been gradually decelerating, is increasingly supported by consumption while investment continues to decelerate. However, government stimuli, particularly a moderate boost to the construction programme, contributed to increased GDP growth in 2017.

China's steel demand is expected to increase by 3.0% in 2017, an upward revision over the previous forecast. The recent closure of induction furnaces will lead to a one-off jump in measured steel use in 2017 to 12.4% (please see *A special note on China above*).

The outlook for China's steel demand in 2018 remains subdued, showing no growth

over 2017 as the government resumes and strengthens its efforts on economic rebalancing and environmental protection.

Developing countries are benefitting from the global recovery and economic reforms, but to varying degrees

Developing countries benefit from a strengthening global economy. The reform agendas in many developing countries such as Egypt, Brazil, Argentina, Mexico and India are expected to enhance their growth potential over time.

India had a slowdown in economic activity in 2017, but accelerating government reforms are expected to bring about a better investment environment leading to growth in the coming years. Investment activities are still driven by government initiatives and private sector investment is still restrained due to leveraged corporate balance sheets.

ASEAN remains a high growth region, especially Vietnam and the Philippines, while more mature economies such as Thailand and Malaysia are showing slower growth.

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The global automotive sector is reported a strong performance in 2017.

In the CIS steel demand is expected to strengthen in 2017-2018 and specifically Russia is likely to maintain its slow recovery.

Turkish steel demand is expected to resume growth momentum in 2018.

The MENA region's outlook has suffered from low oil prices, geopolitical strife and

high inflation. The region would benefit from reconstruction efforts once the major conflicts are ended. GCC countries continue to struggle with the low oil price environment.

Countries in South America have been slow so far to benefit from the recovery in the global economy. In Brazil continuing depressed construction activity has held

demand recovery back in 2017 but a stronger recovery is expected in 2018.

Steel demand in the developing economies excluding China is expected to grow by 2.8% in 2017 and 4.9% in 2018.

The construction and machinery sectors are likely to benefit from improving investment sentiments while the automotive sector might moderate

The construction sector in the developed economies, which had been slow to recover from its collapse after the 2008 economic crisis, is now showing more positive signs both in the residential and commercial sectors due to rising incomes and improving investment sentiments. Infrastructure investment, which has been driving steel demand in developing countries, is likely to get some additional support from the developed world's infrastructure renewal initiatives.

The global automotive sector is reporting a strong performance in 2017 with an especially strong performance in Turkey and Mexico. However, in the US and China the auto sector could moderate and this trend is likely to extend to other countries in 2018.



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Vedanta seeks to expand zinc output after price rally

Reuters@moneycontrol.com

The rally in zinc prices to their highest since 2007 has helped to boost the overall profits of Vedanta, which has zinc projects in India, South Africa and Namibia.

Vedanta may accelerate expansion of its African zinc operations to take advantage of prices that have reached their highest levels in a decade because of a shortfall following years of under-investment, its international zinc head said.

The rally in zinc prices to their highest since 2007 has helped to boost the overall profits of Vedanta, which has zinc projects in India, South Africa and Namibia.

It also has licenses in Ireland and is discussing possible joint ventures to develop them following the closure in 2015 of the Lisheen mine it operated in the country, Dushnee Naidoo, chief executive officer of Zinc International, which groups Vedanta's assets in Africa and Ireland, said.

She said she was bullish about zinc prices and bullish about South Africa after Cyril Ramaphosa replaced Jacob Zuma as president recently.

"Some of the aged mines are starting to close, demand is growing. The market is in deficit for both zinc concentrate and metal," she said in a telephone interview with Reuters.

Analysts also see a shortfall this year of the metal, which is used to galvanize steel and which potentially can be used in batteries, although the technology is still being researched.

Vedanta's Zinc International complements the group's Hindustan Zinc Limited, which makes it India's biggest zinc producer.

The group says its appeal for investors is the access it provides to the huge potential of the Indian market, but it has also made clear its ambition to diversify internationally and has long been enthusiastic about South Africa.

Its chairman has acquired a roughly 20 percent stake in South African-focused major Anglo American.

Vedanta is already bringing on new production at Gamsberg in the Northern Cape region of South Africa, where output should start around the middle of this year, ramping up to full production of 250 000 tonnes annually in around a year's time.

In view of the strengthened zinc price, Naidoo said a second phase to bring production to around 400 000 tonnes per year could be accelerated. She said a decision would be taken "over the coming months".

Vedanta is also investigating whether it could mine underground in Namibia when its open pit operations at Skorpion Zinc will be exhausted around 2020.

This year, Skorpion is expected to produce approximately 90 000 tonnes of zinc, reaching approximately 130 000 tonnes by 2020.

If Vedanta decides underground operations would not be viable, Naidoo said the company would convert the Skorpion refinery, whose current capacity is 150,000 tonnes per year, to treat different ores, meaning it could process third-party material, thereby maintaining a foothold in Namibia.

"We really do not want to leave Namibia," she said.



The Vedanta Group – with interests in zinc, lead, silver, copper, iron ore, aluminium, power, oil and gas – is the largest integrated zinc producer in the world.



Skorpion Zinc in Namibia is expected to produce approximately 90 000 tonnes of zinc this year.

ENJOY THE MARKETING BENEFITS OF PROFILING AT THE HOT DIP GALVANIZING AWARDS 2018

Several of the finalists of the SAISC Steel awards included a galvanizer as part of the team. The same submission may be entered to the HDGASA 2018 Awards Gala Evening to be held in the last quarter of 2018. The awards need a critical mass of submissions for the event to be undertaken. The prestige of being a contender and more so of receiving laurels for the work done is a perfect opportunity to maximize your organizations professionalism and excellence in the field of corrosion control. By submitting a project or application the profile of the team involved is highlighted, a marketing benefit for any professional galvanizer in these highly competitive times.

CATEGORIES:

The categories for the 2018 awards are:

Architectural:

All forms of architectural endeavour where hot dip galvanizing has been used to facilitate the structure in its corrosion protection or as an integral element of the aesthetics is welcomed. From Sculptures to facades and integrated building elements the use of Hot Dip Galvanizing technology can be shown as a key component of the submission

Infrastructure:

This category focusses on the 'Traditional' role of Hot Dip Galvanizing. From mining infrastructure to bridges and towers using galvanized elements integrated into the structure or as stand-alone features. To the use of hot dip galvanizing in the road and transport arenas as well as at ports and harbours, airports and for reticulation of utilities and energy projects.

Duplex:

The exceptional corrosion protection of duplex systems in any application to provide essential benefits to projects where challenging corrosion environments; legal requirements or pure aesthetics is used to the benefit of the client.

Rejuvenation:

In these times, the rejuvenation of existing environments for repurposing or upgrading using hot dip galvanizing is highlighted. The reestablishment of a former historically significant structure or similar projects showing how hot dip galvanizing and /or duplex systems are integral to each project.

SUBMISSIONS:

Submissions open and there is no entry fee for submissions. Each submission must conform to a prescribed format and be accompanied by at least five (5) high resolution (> 300 dpi) colour photographs of the entry. The submission format and T's & C's of the event may be downloaded from the Hot Dip Galvanizers Association website at www.hdgasa.org.com.

SPONSORSHIP:

The event offers a superb opportunity for effective marketing as a sponsor for the event. Sponsorships are available in three primary categories. *The Platinum Sponsor* is key to the event with a negotiated sponsorship opportunity delivering outstanding value. Sponsorships as *Gold and Silver sponsors* are also available with excellent marketing benefits. Additional sponsorships for specific elements of the event can also be discussed with our team.

The challenge has been made and the champions will be rallied to once again compete for the laurels in the 2018 Hot Dip Galvanizing Awards.

THE QUESTION REMAINS... *do you have what it takes?*



Personality Profile

DON VOYSEY VICE-CHAIR: HDGASA

How did you get involved in the hot dip galvanizing industry?

Having been involved in the corrosion protection industry since the late 80's and starting my own corrosion protection business in 1995 when Bay Galvanizing was up for sale in 2005 it seemed to be the natural way to go.

Tell us a little about yourself, your home life, your hobbies and passions

Live in Richards Bay, married to Ingrid and have two daughters, Caelia at university and Bianca still in school in Grade 11.

No hobbies but mad about sailing, canoe offshore and river paddling, mountain biking and hack a bit around the golf course.

Passions: My family first and then my work and then my sport.

What professional achievement are you most proud of?

Making a success out of all the businesses that I have either started, acquired or been involved with and been able to see them start small and grow year by year.

Who has had the biggest influence in your life?

First my parents who have guided me and advised me in the correct direction, I put it down to their influence and guidance in my life for my success.

And secondly my wife Ingrid, as she is now my sounding board for important decisions.

What is your philosophy of life?

Take every opportunity that comes your way and give it everything you've got. If you stumble and fail get up and try again. *"It is the person in the arena that counts"*.

Whilst doing this remember that honesty and integrity and treating people with dignity and respect is of paramount importance and should be imbedded in all we do.

What is your favourite reading?

Law and crime novels (John Grisham) after first getting irritated with reading the news on News 24.

Do you have any dislikes?

Politics and fools.

Complete the sentence: Five o'clock on a Friday...

On the water, paddling in a double canoe with my daughter Bianca, then home for a quite dinner with the family is what really rounds off the week for me.

The Association would like to acknowledge the advertisers and thank them for their support

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LEVEL II COURSES

Two level two courses were run over the last period. Seven delegates attended the courses in total: Vincent Kok (*right*) – Anglo Platinum; Tiaan Lotter – ARMCO Superlite (*middle*); Warren de la Mare – RBI Tech; Hazvinei Munjoma – IZA Africa; Terence Teixeira – Private; Johan Schoeman – Exxaro; Michael Wilkes – Pipetech (*left*).

All candidates passed the courses. Higher Grade passes and Inspector Grade achievements were accomplished by Michael Wilkes of Pipetech; Vincent Kok of Anglo Platinum; Terence Teixeira (Private) and Warren de la Mare of RBI Tech with a mark of > 80% in the Inspector Examination Paper.



“Knowledge is the only instrument of production that is not subject to diminishing returns” John Maurice Clark

Level I: Introduction to Hot Dip Galvanizing

The HDGASA one day INTRODUCTION TO HOT DIP GALVANIZING course is designed to provide an initial understanding of the concepts relating to hot dip galvanized coatings applied for corrosion control of steel components. The course comprises six modules. In order for the course to be viable we require six or more candidates to attend. Arrangements can also be made for this course to be held at a venue of your choosing for more than six candidates. In addition to the course, a special visit to a hot dip galvanizing plant may be arranged on a separate date, should six or more candidates be interested and able to attend.

Level II: Certified Galvanizing Inspectors

The HDGASA advanced Level II course provides the necessary skills to assess the quality and conformance of Hot Dip Galvanized coatings and Duplex Systems to the applicable specification. Delegates are introduced to other metallic type coating specifications and their application for corrosion control design.

The course provides an in-depth interpretation of the specifications and accepted best practice procedures for determining coating thickness, visual inspection of surface finishes as well as the evaluation of these coatings for corrosion control of steel components. The course includes a visit to a hot dip galvanizing plant where delegates will have an opportunity to assess finished product against the relevant quality standards on a real time first hand basis.

Three Continuous Professional Development (CPD) points are awarded to delegates attending the entire course. Bookings are limited to a maximum of 10 people, with applications treated on a first-come-first-serve basis. In order for the course to be viable we require 6 or more candidates to attend. Arrangements can also be made for the course to be held at a venue of your choice for more than 6 candidates.

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CALL Lara at 011 456 7960
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CONSISTENTLY DELIVERING SUPERIOR QUALITY GALVANIZED PRODUCTS TO ALL OUR CUSTOMERS

Armco Galvanizers Isando has been operating since 1989. Geared up to accommodate heavy structural steel up and till 13m in length. Isando has an average output of plus minus 2000 tons per month. With an improved lay down area and increased loading capacity by addition of a tower crane we strive to give "A" class service to all our customers big or small.

Armco Galvanizers Randfontein is our second facility based in the Randfontein area. Randfontein has an average output of plus minus 800 tons per month and is geared up to handle light to medium structural steel up and till 6m in length.

The company has it's own SANS 121 2000 ISO 1461 accredited Hot Dip Galvanizing plants. And is listed under the SABS ISO 9001 scheme.

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