



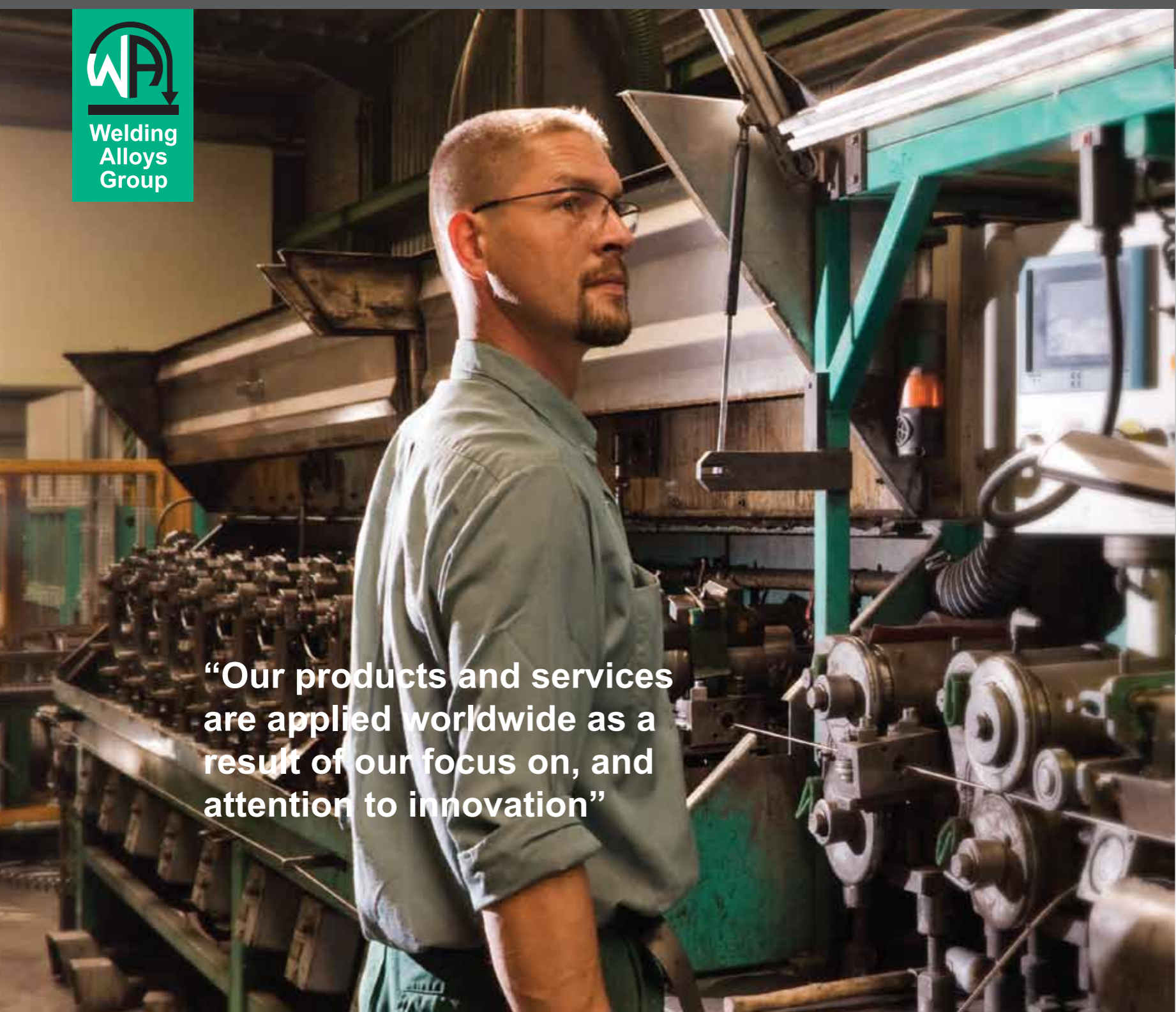
Welding
Alloys
Group



ACTING GLOBAL
WELDING LOCAL

Welding Alloys Group

Innovative solutions through our
leading flux cored wire technology



“Our products and services are applied worldwide as a result of our focus on, and attention to innovation”



The Total Solution

Since its foundation in 1966, the Welding Alloys Group has become the global specialist in the development of low and high alloyed cored wires, automated welding equipment for surfacing and joining applications, and in delivering our expertise and solutions worldwide for industrial welding applications through our Integra Service Centres.

Our teams of highly experienced welding engineers have mastered the deposition of noble alloys, with tried and tested processes using Welding Alloys products, services and technology. We have developed a unique level of expertise in joining, cladding and hardfacing applications and have always sought to provide the most technologically advanced solutions for our customers.

Welding Alloys' unique expertise is drawn from years of commitment to research and development of specialised products and solutions:

- 1966:** Welding Alloys Ltd is founded in Fowlmere, near Cambridge (UK) by Jan Stekly
- 1968:** Welding Alloys starts producing hardfacing cored wires
- 1971:** Welding Alloys develops and builds the first cored wire production line
- 1973:** The first Welding Alloys European company is opened in France, and this is the beginning of the Welding Alloys Group (WA Group)
- 1974:** WA designs and manufactures its first generation of welding equipments
- 1976:** WA Group opens its first African company in South Africa
- 1981:** The first WA Group Asian company opens in Malaysia
- 1986:** WA USA is the first company opened in the Americas

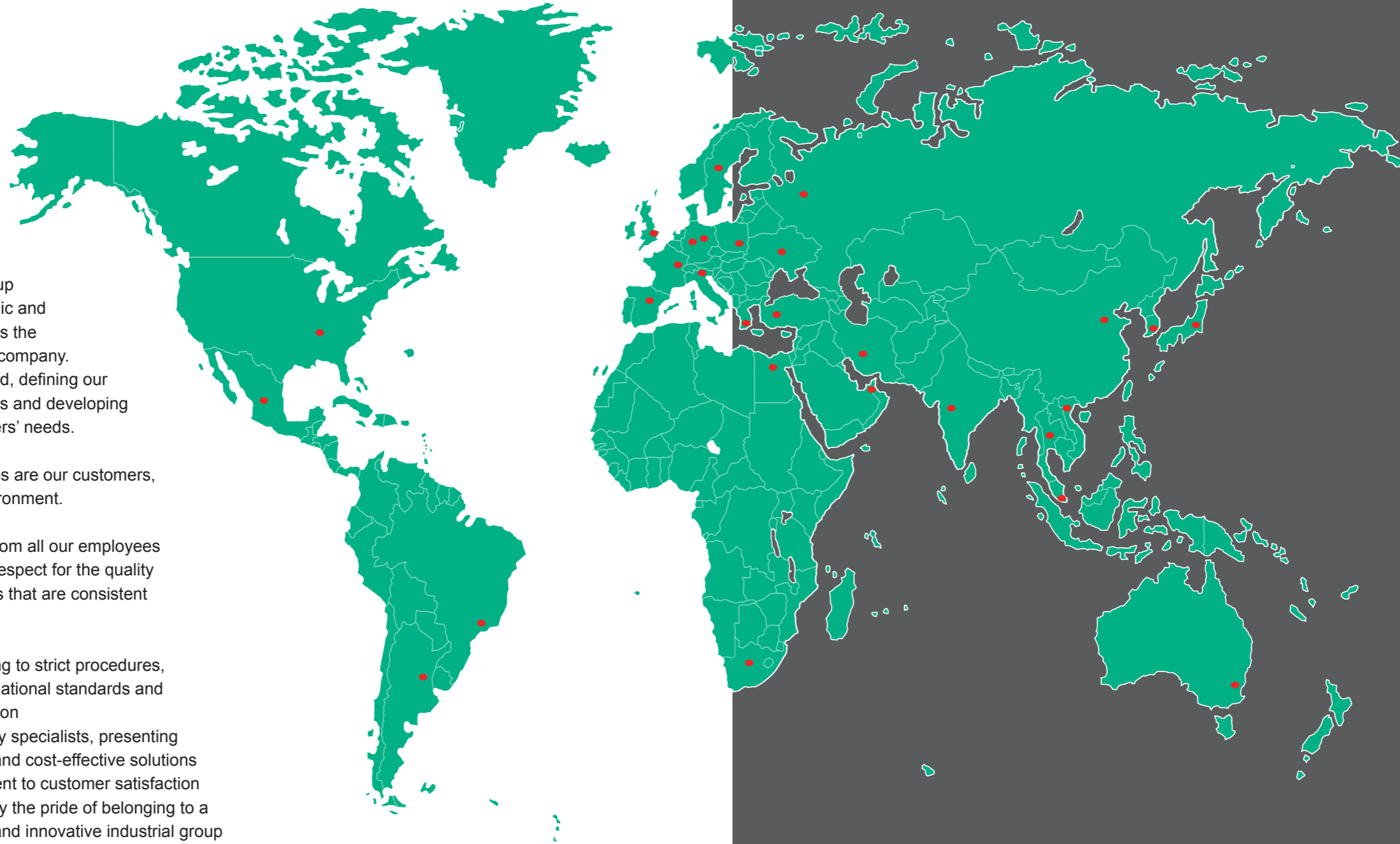
In the early 90's the first Integra Service Centre is created specifically oriented towards the development and applications of hardfacing solutions.

- 1996:** WA Group develops new technology for continuous manufacturing of seamless flux cored wire
- 1999:** WA Group establishes its first company in China
- 2006:** WA Group celebrates its 40th anniversary with employees from around the globe
- 2009:** The quinquennial WA Group meeting is held in Cambridge (UK) and plans for our future growth are made!!!

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The Welding Alloys Group orientates all its economic and strategic choices towards the long-term growth of the company. Innovation is the keyword, defining our approach to new markets and developing solutions to our customers' needs.

Our prime responsibilities are our customers, our people and our environment.

The daily commitment from all our employees guarantees the utmost respect for the quality requirements and values that are consistent with this dedication:

- Production according to strict procedures, conforming to international standards and customer specification
- Customer service by specialists, presenting the best technical and cost-effective solutions
- Constant commitment to customer satisfaction
- Team spirit driven by the pride of belonging to a dynamic, growing and innovative industrial group



Welding Alloys Group covers more than 150 countries and territories throughout a network of over 30 subsidiaries.

With more than 800 employees and specialists in different disciplines we offer an unrivalled service across the globe.

The 25 Integra Service Centres operate worldwide and offer extensive and established expertise across a number of industries.

The Welding Alloys Group benefits from the knowledge and the experience developed and shared through the years by its experts.

WA Group's mission is:

“To supply our customers with the most advanced technology, to ensure them long term profit and satisfaction, thanks to our expertise in the field of welding applications”.

It's our reputation too!!



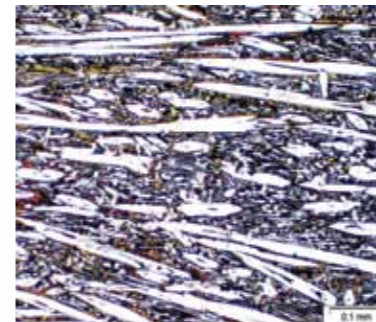
The Real Value of WA Cored Wires™

For more than 40 years the Welding Alloys Group has concentrated its resources on continuously improving and setting the standard in the production of cored wires.

Using production machinery of its own design, Welding Alloys develops and manufactures a range of welding wires unequalled in the global market.

Cored wires combine the benefits of a vast metallurgical choice with the very high productivity of a semi or fully automated continuous welding process. In view of their technological and economic advantages, cored wires represent an ever greater share of the welding market.

WA continuously satisfies and responds to the demanding expectations for quality, flexibility, performance and versatility in the cored wire market.



Rebuilding by arc welding is an operation to recycle used components. Generally using a cored wire of similar alloy composition to the components' base material, the parts are rebuilt to their original dimension. This allows our customers to save on the purchase of new parts and save significantly on lead times and stock costs.

Hardfacing by arc welding is a surfacing operation using a cored wire to extend the service life of industrial components. This is carried out pre-emptively on new components or as a part of a maintenance programme on worn parts, generally using more noble alloys than the alloy composition of the parts' base material.

The result of significant savings in machine down time and production costs has meant that this process has been adopted across many industries. For each industrial application and wear phenomena there is a Welding Alloys cored welding wire to provide wear resistance.

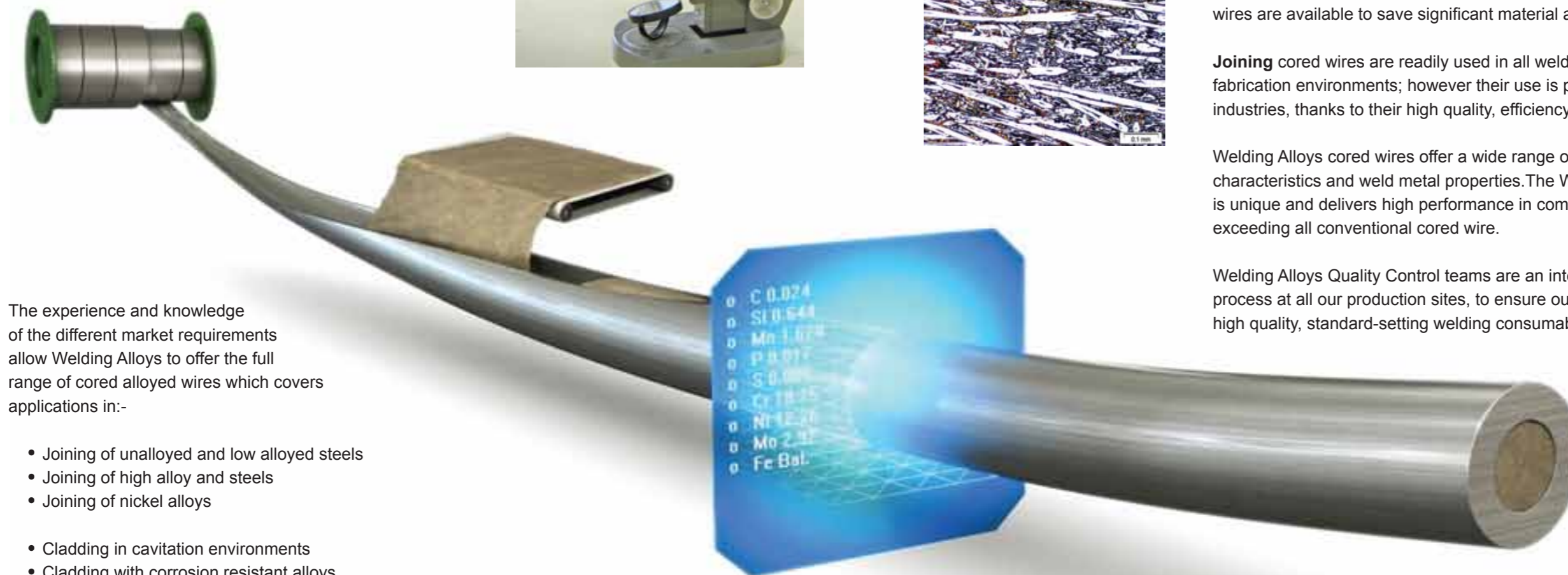
Cladding cored wires are used to obtain a corrosion resistant deposit of which the chemical analysis has to adhere to strict standards.

Welding Alloys produces and distributes cored wires with tailored chemical compositions. The customised composition allows the production of overlays meeting the standard corrosion resistance and mechanical testing requirements given by the applicable construction codes and norms. Alongside standard multipass solutions, newly developed single-pass cored wires are available to save significant material and processing costs.

Joining cored wires are readily used in all welding construction and fabrication environments; however their use is predominantly in demanding industries, thanks to their high quality, efficiency, ease of use and productivity.

Welding Alloys cored wires offer a wide range of alloys with unique welding characteristics and weld metal properties. The WA range of seamless wires is unique and delivers high performance in composition and productivity exceeding all conventional cored wire.

Welding Alloys Quality Control teams are an integral part of the production process at all our production sites, to ensure our commitment to delivering high quality, standard-setting welding consumables.



The experience and knowledge of the different market requirements allow Welding Alloys to offer the full range of cored alloyed wires which covers applications in:-

- Joining of unalloyed and low alloyed steels
- Joining of high alloy and steels
- Joining of nickel alloys
- Cladding in cavitation environments
- Cladding with corrosion resistant alloys
- Hardfacing for abrasion resistance
- Hardfacing for combined wear applications

"We live for challenges and proving our cored wires exceed all industry standards"



The Welding Alloys Group has pioneered the design and manufacture of automated welding equipment since the late 1970's.

The Welding Alloys' MultiSurfacer™ range of machines offers the most sophisticated technology to enable high quality and reproducibility of demanding cladding and rebuilding applications.

Continuous technological research and development of its MultiSurfacer machines has resulted in fully programmable state-of-the-art equipment that is renowned in the market for its:

- Accuracy and durability
- Long term reliability
- Outstanding performance
- Intuitive controls for use by workshop personnel
- Flexibility in customisation due to the extensive list of options available
- Low cost of ownership

The MultiSurfacer technology is designed to meet the specific needs of customers offering stationary equipment (for use in workshops only) or portable equipment (for use in-situ and workshops).

With its international presence, Welding Alloys has the capability to tailor its products and services to individual customers' requirements and to fully support its customers worldwide by offering a full installation, commissioning and training service for all its equipment.



The WA Integra™ brand represents the use of WA cored wires, WA MultiSurfacer machines and WA applications knowledge and expertise applied to industrial equipment components that our customers design, build or use.

Integra Service Centre

To fulfil the need of many industries looking for specialised hardfacing and cladding services, the Welding Alloys Group created a worldwide network of Service Centres strategically located to enable fast on site intervention or to offer local services of international quality and standard.

WA Integra Service Centres make full use of the latest WA Group technology and know-how through workgroups, shared databases and common training and product standards.

The service performance of components hardfaced by WA Integra has proven that great cost savings can be achieved compared to the replacement with a new part either cast, forged or fabricated.

Welding Alloys has built up a worldwide reputation for carrying out both in-house and in-situ welding services and for assisting local companies, as well as large multi-nationals. WA Integra Service Centres are considered as reliable engineering partners offering a consistent high quality in welding services.



Integra Products

Extensive work in research has resulted in the development of a wide range of alloys and welding procedures. The optimum alloy selection is made considering the component service conditions, the component material and feedback of service performance.

Welding Alloys is not only a welding service supplier, our Integra engineers also work with our global research and development teams to produce specific products with unique features and benefits:

The Integra range of composite wearplates (Hardlite™, Hardplate™, Tuffplate™), Integra Mill welding wires, 3-DCarb™ and Integra™. Advanced Components are just a few of the specialised and unique solutions offered.



"Our passion is to develop an automated solution to any welding application"



WA Hand-in-Hand with Industry

Welding Alloys is committed to forming close customer relationships and has established numerous partnerships with industry as a supplier of the total solution – from consumables, machines and training, to integrated engineering services.

Through this the Welding Alloys Group has gained a thorough understanding of the operating conditions and requirements of industries worldwide.



- Agriculture
- Construction
- Recycling & waste treatment
- Power Generation
- Mining, ceramic & earth moving
- Steel
- Oil & Gas/Petrochemical
- Material handling & Transport
- Cement & building materials
- Defence
- Raw chemical
- Pulp and paper
- Glass industry

Welding Alloys Group satisfies specific requirements at all levels in all of these industries. Whether with OEMs, direct users, sub-contractors or distributors, WA unreservedly collaborates and offers the best possible solutions.



“We listen to and understand your challenges and readily share our knowledge and solutions”

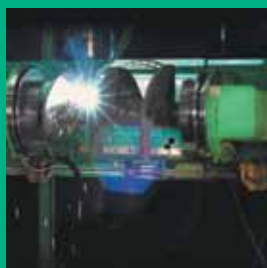


A perfectly controlled technology



WA Cored Wires™

Design and manufacture of all types of cored welding wires



WA MultiSurfacer™

Design and manufacture of automated welding equipment for hardfacing and rebuilding applications



WA Integra™ Services

Innovative hardfacing and rebuilding solutions by welding

A worldwide presence

United Kingdom

(Head office)

Welding Alloys Ltd

Argentina

Welding Alloys Argentina S.A.

Australia (Trading Partner)

Specialised Welding Products Pty Ltd

Brazil

Welding Alloys Brasil Ltda

China

Welding Alloys China Ltd

Egypt

Welding Alloys Egypt

Finland

Welding Alloys Finland Oy

France

Welding Alloys France SAS

Germany

Welding Alloys
Deutschland GmbH

Greece

Welding Alloys Hellas EPE

India

Welding Alloys
South Asia Pvt Ltd

Iran

Aliaj Joosh Iran

Italy

Welding Alloys Italiana s.r.l.

Japan

Welding Alloys Japan

Malaysia

Welding Alloys (Far East) Sdn. Bhd.

Mexico

Welding Alloys
Panamericana S.A. de C.V.

Morocco

Welding Alloys Maroc Sarl

Poland

Welding Alloys Polska Sp. z o.o.

Russia

ZAO Welding Alloys

South Africa

WASA (PTY) Ltd

South Korea

Welding Alloys Korea Ltd

Spain

Welding Alloys España

Sweden

Welding Alloys Sweden

Thailand

Welding Alloys (Thailand) Co. Ltd

Turkey

Welding Alloys Limited Şirketi

Ukraine

Welding Alloys Ukraine

United Arab Emirates

Welding Alloys Middle East FZC

USA

Welding Alloys (USA) Inc.

Vietnam

Welding Alloys Vietnam Co. Ltd.

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