

WELDICTION PLUS

Welding Multimedia Dictionary

Ľuboš Mráz

WELDING RESEARCH INSTITUTE – INDUSTRIAL INSTITUTE SR
Bratislava, SLOVAKIA



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09.12.2010, LISBON, PORTUGAL

Račianska 71, 832 59 Bratislava, tel.: +421/(0)2/4924 6111, fax: +421/(0)2/4924 6341, www.vuz.sk

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WELDICTION PLUS

WELDICTION MULTIMEDIA DICTIONARY

Acronym: WELDICTION PLUS

LLP, subprogram Leonardo da Vinci, Transfer of innovation

No. 2008-1-SK1-LEO05-00225

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End: 12/2010



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PROJECT PARTNERS

**European Federation for Welding, Joining and Cutting (EFW),
Lisbon, Portugal,**

CESOL, Madrid, Spain

Czech Welding Society – ANB, Prague, Czech Republic

ISQ, Lisbon, Portugal,

**Welding Research Institute – Industrial Institute SR (VUZ-PI SR),
Bratislava Slovakia**



WELDICTION PLUS

Transfer

**of 150 welding terms
supported by definitions, pictures, photos and video records
of welding processes
from WELDICTION (2000
into English, Slovak, Czech, Spanish and Portuguese
languages**



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MAIN GOAL

- **to gather the most well-known welding terms in a multimedia dictionary,**
- **to improve linguistic skills among the partners,**
- **to develop new user friendly training tool,**
- **to support vocational training courses.**



DICTIONARY STRUCTURE

TWO alternatives

a) terms

definitions

pictures, photos

video records, animations

b) terms

DICTIONARY STRUCTURE

- **Terms in 9 categories**
 - **welding processes,**
 - **filler materials,**
 - **equipment,**
 - **materials,**
 - **testing,**
 - **imperfections,**
 - **qualification/certification,**
 - **praxis,**
 - **other.**

www.weldictionplus.eu

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WELDICTION

INFO PARTNERS

English

SEARCH PARAMETERS

SELECT LANGUAGES

English

Choose 2nd Language

Choose 3rd Language

SEARCH ITEM

Insert term

RESET SEARCH

SEARCH IMAGE/VIDEO

SEARCH CATEGORY

- Processes
- Equipment
- Consumables
- Practice
- Materials
- Others
- Testing
- Imperfections

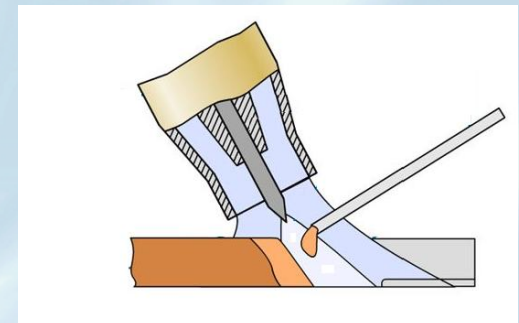
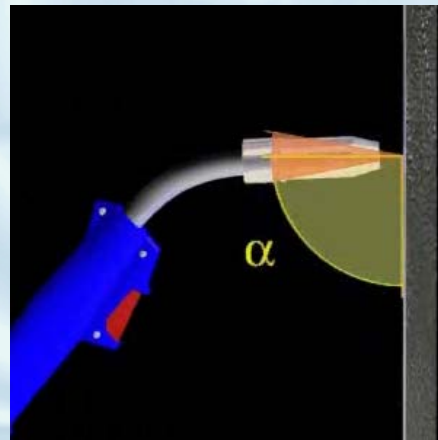
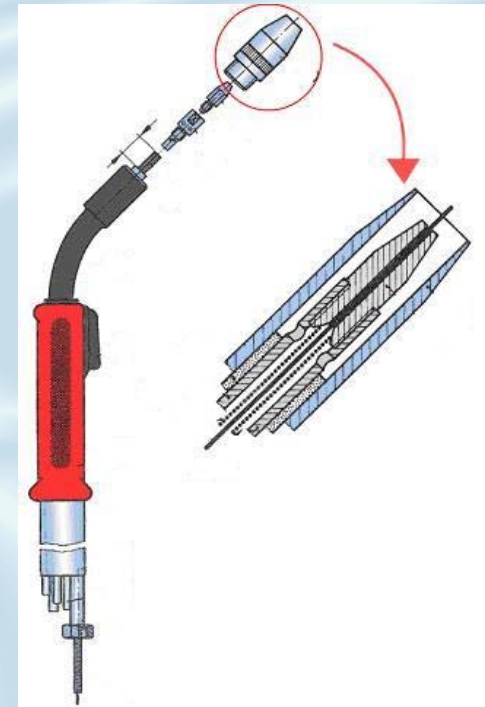
SEARCH RESULTS:

Category	Term	Term Description
Processes	Resistance welding	A method of welding with pressure in which heat is generated in the joint by passage of an electric current: resistive heating (Joule heating).
Processes	Friction welding	A method of welding with pressure in which relative motion between the contacting surfaces of the workpieces causes heating and plastic deformation.
Processes	TIG welding	Gas-shielded arc welding in which the arc burns between a non-consumable tungsten electrode and the molten pool, and is surrounded by inert shielding gas.
Processes	MIG/MAG welding	Gas-shielded arc welding in which the arc burns between a consumable wire electrode and the molten pool, and is surrounded by inert gas (MIG (metal inert gas) welding) or an active (non-inert) gas or mixture of gases (MAG (metal active gas) welding).
Processes	Submerged arc welding	Arc welding in which the arc burns between bare or cored wire or strip electrode (or electrodes) and the molten pool. The arc and molten pool are covered with a blanket of granular flux, some of which melts to form a removable slag covering on the weld.
Processes	Electron beam welding	Fusion welding in which heat is provided by a focused beam of high energy electrons, usually in a vacuum chamber.
Equipment	welding equipment	The apparatus used to make a weld, provided with means for supplying and controlling energy, and for movement if necessary.

IMAGE & VIDEO RESULTS

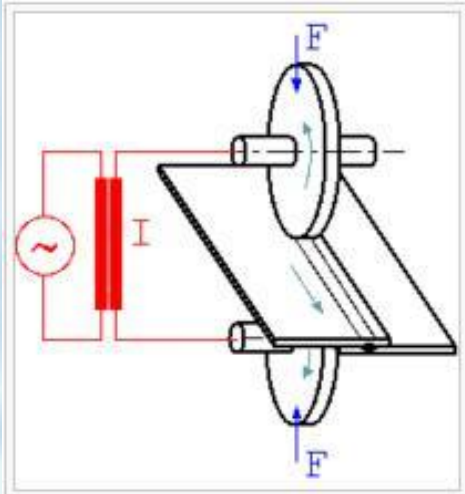


MIG/MAG arc welding

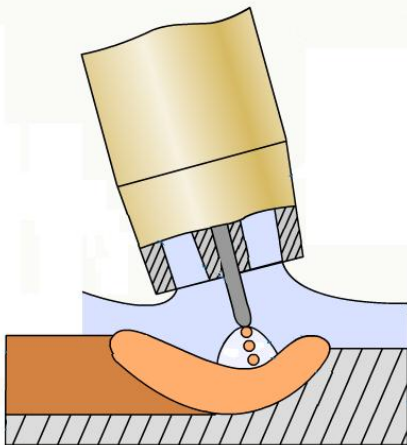


PROCESSES

resistance seam welding



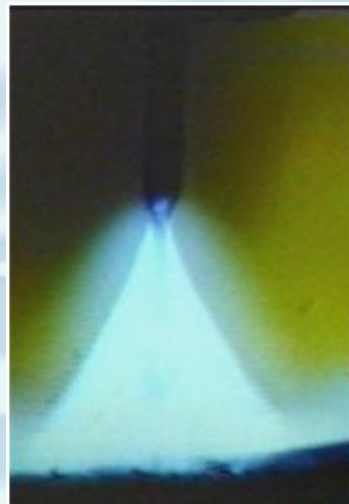
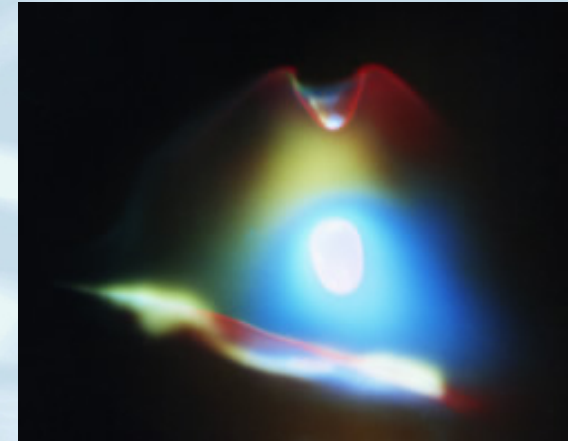
submerged arc welding



PROCESSES



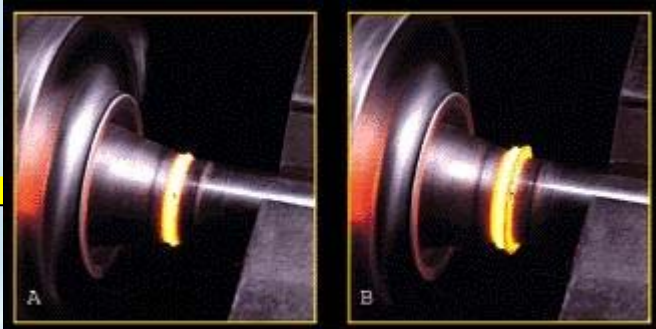
short arc transfer



spray arc transfer



PROCESSES

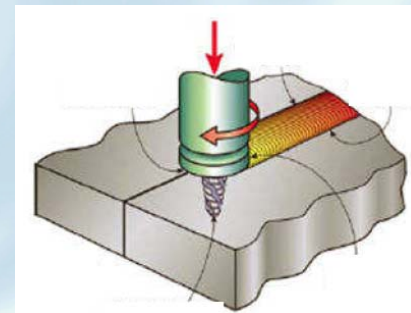


Published with permission of Joel J. Donohue, General Manager at American Friction Welding

friction welding



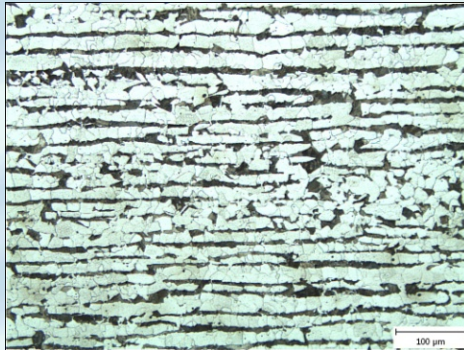
friction stir welding



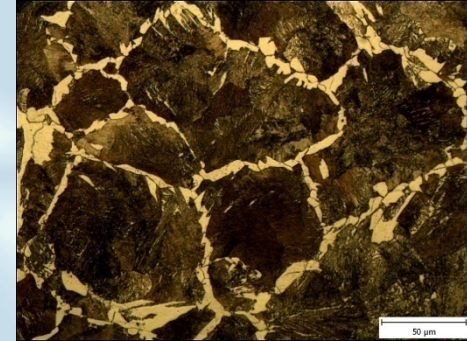
MATERIALS

structural steels

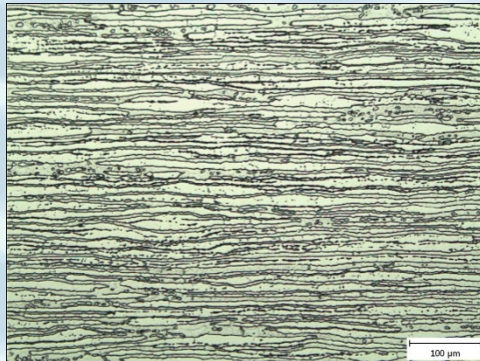
low carbon



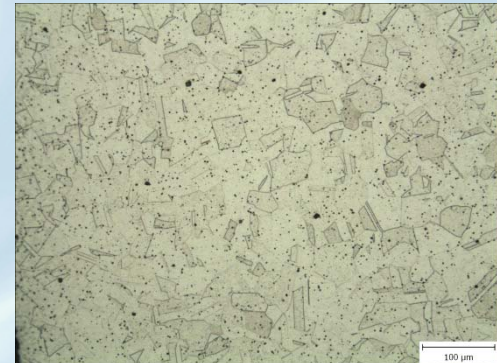
high carbon



duplex



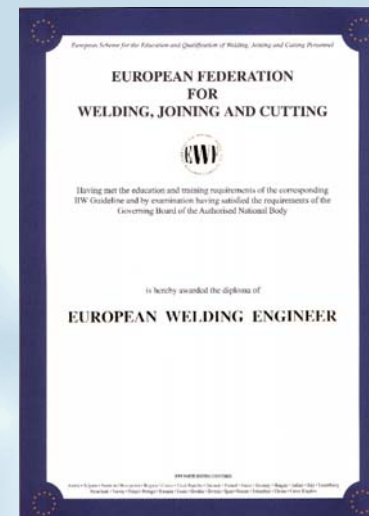
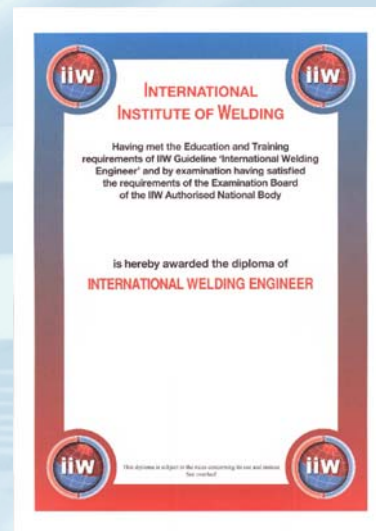
austenitic



QUALIFICATION/CERTIFICATION

European welding engineer

European welder



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POTENTIAL USERS

- **vocational education and training schools,**
- **universities,**
- **welding schools,**
- **vocational training centers,**
- **Industry.**



The following organisations provided material for this dictionary:

ESAB AB, Czech Republic

Fronius, Austria

SLV Duisburg, Germany

AIMEN, Spain

MERSUD, Chile

TRIBTECH, UK

ISIM, Romania

and more others.



**THANK YOU
FOR YOUR ATTENTION**



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