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**LONGER LASTING  
WEAR PARTS**

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**ABRASERVICE  
INTERNATIONAL**

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SUPPLIERS OF WEAR PARTS AND COMPLETE  
SOLUTIONS IN ABRASION RESISTANT  
AND HIGH YIELD STRENGTH STEELS

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# 1



## Combining products and know-how for ready to use solutions

A EUROPEAN LEADER IN WEAR RESISTANT AND HIGH YIELD STRENGTH STEELS, ABRASERVICE OFFERS ITS CUSTOMERS COMPLETE SOLUTIONS, FROM THE ANALYSIS OF THEIR NEEDS TO THE SUPPLY OF FINISHED AND MACHINED PARTS, READY FOR ASSEMBLY.

— The experience and technical expertise of Abraservice, our understanding of your specific requirements and the wide range of products and processes enable us to propose fully tailored solutions.

— Abraservice believes in long lasting and mutually trusting relationships with its partners: our location, ability and technical advice ensure we fully understand your needs and offer continued support following delivery and during service.

— Established across Europe, Abraservice meets the requirements of customers who work in highly demanding environments, where quality and durability of parts is necessary: the steel industry, mines and quarries, cement works, handling, lifting and transportation, civil engineering, sugar refinery, agricultural machines, paper mills...

# 2



## Expertise & location



ABRASERVICE IS MORE THAN A SPECIAL STEELS SUPPLIER: FOR MANY YEARS WE HAVE WORKED TOGETHER WITH OUR CUSTOMERS FOR ALL PROJECT REQUIREMENTS.

— From receipt of your enquiry we offer you a solution fully adapted to your needs and we support you throughout the whole process.

— We offer the technical skills and experience of our team as well as a wide range of processes and materials to give you the most suitable and cost effective solution.



↑ Bending of a screen



↑ Plasma cutting a perforated screen

# 3

## Applications



↑ Production of an aggregate storage hopper



IN ALL SITUATIONS WHERE HARDNESS AND RESISTANCE TO IMPACT ARE REQUIRED, FRICTION, ELEVATED TEMPERATURES OR STRESS, ABRASERVICE CAN HELP.



Our teams have had success in many industries: the steel production industry, mines and quarries, recycling of paper, wood, rubber, metal, glass and foundry sand, offshore, agricultural equipment, cement production, construction, mechanical engineering, defence as well as waste collection, maintenance and many others...



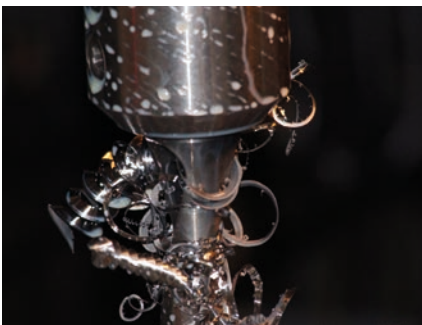
↑ Primary handling of iron ore and coal



↑ Screw conveyor

# 4

## From material to finished parts



↑ Drilling



OUR STATE OF THE ART IN-HOUSE EQUIPMENT AND THE EXPERIENCE OF OUR STAFF IN THE PROCESSING OF WEAR RESISTANT AND HIGH YIELD STRENGTH STEELS, ALLOWS ABRASERVICE TO SOLVE COMPLEX PROBLEMS, SUITABLE FOR THE END PURPOSE.

We offer technical advice based on a wealth of experience enabling us to produce finished parts fit for purpose.. Our services include:

- CAD/CAM design via SolidWorks software.
- High-definition plasma and oxy-gas profiling
- Laser profiling
- Beveling
- Drilling and countersinking
- Rolling and forming
- CNC Machining
- Grinding
- Perforating
- Welded fabrications
- Shot blasting and painting



↑ Welding



5 ↓

## A wide range of products

AS A RESULT OF CLOSE COLLABORATION WITH ITS SUPPLIERS, ABRASERVICE OFFERS THE LARGEST RANGE OF SPECIAL STEEL SOLUTIONS IN THE MARKET.

### ALTERNATIVE SOLUTIONS

**CREUSABRO® DUAL®, CREUSABRO® 8000®, CREUSABRO® 4800®**

*Exceptional resistance to severe combined abrasion types, abrasion with impact, abrasion with elevated temperature, abrasion and corrosion.*

### QUALITY WATER QUENCHED AND TEMPERED SOLUTIONS

**Dillidur 500V, Dillidur 400V, Dillidur Impact**

*Excellent resistance to normal wear and abrasion combined with impact.*

**Dillimax 1100, Dillimax 965, Dillimax 890, Dillimax 690**

*High strength quenched and tempered structural steel which has excellent forming and welding properties. Used for weight saving and high stress applications.*

**WQ: Quard 400/500/500**

*Excellent resistance to normal abrasion in a wide range of thicknesses and primed as standard.*

Grades	Thicknesses (mm)	Formats (mm)	Details
<b>ABRASION</b>			
<b>CREUSABRO® DUAL®</b>	8 - 50	2000 × 6000 2500 × 8000	An innovative grade with very high performance taking its inspiration from the chemistry of <b>CREUSABRO® 8000®</b> and being re-inforced with titanium carbides. The ultimate solution for severe sliding abrasion combined with great impact. For applications where conventional water quenched steels (500 HB, 550 HB), hardfacing plates or hard-casting parts are traditionally implemented. <b>450 - 520 HB.</b> <i>Application: bucket liners for excavator, shovel, loader, dozer, cutting edges, truck body liners, wear parts for primary and secondary crushers, vibratory feeder liners...</i>
<b>CREUSABRO® 8000®</b>	5 - 60	2000 × 6000 2500 × 8000	<b>CREUSABRO® 8000®</b> is a wear resistant steel that combines extreme resistance to abrasion together with a high level of toughness. The ability of this grade to work harden offers an increase of up to 45 % service life compared to conventional 500 HB materials. <b>500 - 540 HB.</b> <i>Application: cement plant, quarrying, mining &amp; earth moving equipment, steel production, recycling plant...</i>
<b>CREUSABRO® 4800®</b>	3 - 100	1500 × 3000 1500 × 6000 2000 × 6000 2500 × 6000	<b>CREUSABRO® 4800®</b> is a wear resistant steel that combines extreme resistance to abrasion together with a high level of toughness. The ability of this grade to work harden offers an increase of up to 45% service life compared to conventional 400 HB materials. It also works at higher temperatures than standard abrasion steels, continuously at >400 °C. <b>400 - 430 HB</b> <i>Application: block moulds, cement plants, quarrying, mining &amp; earth moving equipment, steel production, recycling plant...</i>
ABRAMAX Mu	4 - 80	2000 × 6000 2500 × 6000	Steel with good abrasion resistance, improved processability, heat resistance <400 °C mechanical safeguards (use at room temperature), <b>270 - 350 HB.</b> <i>Application: steel multi-purpose in all areas requiring proper attire to wear.</i>
DILLIDUR 500V	10 - 50	2000 × 6000	A higher abrasion resistant water quenched plate than Dillidur 400 with a hardness of 500 HB and can be readily welded and fabricated: <b>450 - 530 HB.</b> <i>Application: earthmoving, excavator and loading equipment, buckets and edges, dredgers, conveyors, knives and shears, skip liners, recycling equipment...</i>
DILLIDUR 400V	10 - 60	1500 × 3000 2000 × 6000	A water quenched abrasion resistant plate with a hardness of 400 HB and can be readily welded and fabricated. <b>370 - 430 HB.</b> <i>Application: earthmoving and loading equipment, buckets and edges, dredgers, conveyors, knives and shears, skip liners, recycling equipment, agricultural machinery...</i>
DILLIDUR IMPACT	45 - 120	2000 × 6000	Dillidur Impact is a wear resistant steel with exceptionally high resistance to cracking. It has a nominal hardness of approximately 340 HBW in its delivered condition, and its outstanding mechanical properties are obtained by water quenching and subsequent tempering. Dillidur Impact is successfully applied where high resistance to abrasion is required together with very high toughness to resist impact wear <b>310 - 370 HB.</b> <i>Application: earthmoving and loading machines, cutting edges, buckets, shovels, grabs, scoops, breakers and knives...</i>

Grades	Thicknesses (mm)	Formats (mm)	Details
DURETAL 65 DURETAL 35	5 + 3 6 + 4 8 + 5 10 + 9	1250 × 2500 1500 × 3000 2000 × 3000	High chromium carbide weld overlay plate, which offers high resistance to sliding abrasion under moderate impact conditions and temperatures between 450 and 650 °C. <b>58 to 62 HRC, ± 2 HRC.</b>
ROC Mn	3 - 30	1000 × 2000 1500 × 3000 2000 × 6000	A carbon manganese (11 - 14 %), hyper-quenched austenitic, non-magnetic, work hardening steel plate. Outstanding resistance to abrasion with frontal impacts or high compression <b>550 - 600HB (after hardening)</b> . <i>Application: impact and transfer plates (mines and quarries), liners (shot blasting cabinets), lock mechanism protection for security doors ...</i>
ROC 500	6 - 30	2000 × 6000	Wear resistant water quenched grade, which can be readily welded and fabricated. <b>450-550 HB</b>
ROC 400	5 - 25 5 - 60	1500 × 6000 2000 × 6000	Wear resistant water quenched grade, which can be readily welded and fabricated. <b>370-430 HB</b> <i>Application: general use for any parts subjected to abrasion</i>
ROC 401	3 - 8	1250 × 6000 1500 × 6000	Abrasion-resistant steel from strip mill production. Excellent surface condition for a satisfactory appearance after painting. <b>340 - 440 HB.</b> <i>Application: general use for any parts subjected to abrasion</i>
ROC 321	3 - 50	1000 × 2000 2000 × 6000	Wear resistant standard plate, suitable for welding. <b>280 - 345 HB</b> <i>Application: production of components for mining and quarrying.</i>
ROC 250	4 - 40	1500 × 3000 2000 × 6000	An economical wear resistant solution for simple cases of abrasion, good machinability. <b>200 - 260 HB</b> <i>Application: general purpose grade for limited abrasion.</i>

## ABRASION CORROSION

COBRANOX 35 X3 Cr Ni 23-4 EN 10088-2 WN°: 1.4363 / 1.4463	4 - 20	2000 × 6000	Duplex stainless steel type, excellent corrosion resistance (equivalent to AISI 316) and good abrasion resistance (equivalent steel hardness 300 HB.) <b>260 HB.</b> <i>Application: where abrasion and severe corrosion are combined.</i>
ABRACORR 600	4 - 20	2000 × 6000	Normalized steel particularly suited for resistance to combined abrasion & corrosion in wet environments. Abrasion resistance at temperatures up to 600 °C. <b>300-320 HB.</b> <i>Application: steel, cement, sugar, mining, fertilizer production.</i>
COBRANOX 12 X2 Cr Ni 12 EN 10028 WN°: 1.4003	3 - 20	1500 × 3000 2000 × 6000	Ferritic stainless steel type. A technical and economic solution in the case of combined, limited abrasion & corrosion. Good resistance to temperature <500 °C and a good slip coefficient with good resistance to clogging. <b>220 HB.</b> <i>Application: petrochemical, sugar refining, paper, mining and quarrying, agriculture...</i>
COR-TEN A EN 10025-5	3 - 20	1500 × 3000 1500 × 6000 2000 × 6000	Steel resistant to atmospheric corrosion.

## HIGH YIELD STRENGTH

S 690 QL / IMEX 700 EN 10025-6	4 - 150	1500 × 3000 2000 × 6000 2500 × 12000	S690QL is a high strength quenched and tempered structural steel, with excellent forming and welding properties. Used for weight saving and high stress components. <i>Application : crane service, mining &amp; earth moving equipment, agricultural equipment, material handling, bridges, trailers...</i>
DILLIMAX 1100	8 - 30	≤ 2500	Steel with very high yield strength 1100 MPa minimum. <i>Application: welded components in mechanical structures, winches, cranes, conveyors...</i>
DILLIMAX 965 EN 10025-6	6 - 100	≤ 2500	Steel with very high yield strength 965 MPa minimum. <i>Application: welded components in mechanical structures, winches, cranes, conveyors, bridges...</i>
DILLIMAX 890 EN 10025-6	6 - 100	≤ 2500	Steel with very high yield strength 890 MPa minimum. <i>Application: welded components in mechanical structures, winches, cranes, conveyors, bridges...</i>
DILLIMAX 690 EN 10025-6	10 - 120	2000 × 6000	High tensile steel 690 Mpa minimum. <i>Application: all structural elements requiring strength and good resistance to fatigue...</i>
IMEX 960 (S 960 QL) EN 10025-6	On demand	On demand	Steel with very high yield strength 960 MPa.
IMEX 900 (S 890 QL) EN 10025-6	On demand	On demand	Steel with very high yield strength 890 MPa.
IMEX 701 (S 700 MC) EN 10149-2	3 - 10	1250 × 2500 1500 × 3000 1500 × 6000	High tensile steel, thermo-mechanically rolled. Good cold formability and weldability. <i>Application: offers strength in the areas of automotive industry, lifting equipment, Construction...</i>
IMEX 501 (S 500 MC) EN 10149-2	3 - 12	1500 × 3000	High tensile steel, thermo-mechanically rolled. <i>Application: rails, sleepers, reinforcing elements...</i>

## WEAR RESISTANT PRODUCTS

ABRATUBE 400		Ø 65 - 200	Tubes and seamless elbows. Hardness: 400 HB.
ABRATUBE 600	6000 & 12000	Ø 80 - 500	An induction heat treatment process produces a thick layer of 600 HB on the inner surface of the pipe to provide ABRATUBE 600's wear resistant properties. The outer surface hardness at 300 HB adds to ABRATUBE 600's toughness. <i>Application: transportation of quarry product, coal slurry, pulverized fuel systems, cement &amp; wood chip conveyance...</i>

# 6

## The Abraservice brand in Europe

The Abraservice brand is widely represented in Europe through 15 companies, 9 production sites and 24 sales agencies.



### ABRASERVICE INTERNATIONAL

A. 2, rue Jean-Baptiste Perrin  
71380 Saint-Marcel – France  
T. +33 3 85 90 60 13  
F. +33 3 85 90 60 38  
M. a.international@abraservice.com

### AGENTS/DISTRIBUTORS

#### ALGERIA/PIMA

A. 2 & 4 rue Philosophe Aristote  
El Annaser – Alger  
T. +213 21 67 43 62  
F. +213 21 67 70 02  
E. pima\_fnf@yahoo.com

#### WEST AFRICA – MAGHREB

#### AND INDIAN OCEAN

#### PATRICK LENGAGNE

A. Abidjan – Côte d'Ivoire  
T. +225 07 32 81 13  
+33 6 79 05 17 14 (hors Afrique)  
E. plengagne@123afri.net

#### KENYA/KENS METAL INDUSTRIES

A. Off enterprise Road – Industrial Area  
Nairobi  
T. +254 20 55 55 02  
F. +254 20 55 44 56  
E. hitendra.shah@kensmetal.co.ke

#### MOROCCO (CREUSABRO®)

#### INTERACIER

A. 3 Rue Ibnou laknane  
Lot Jannette – Ain Sebaa – Casablanca  
T. +212 52 26 63 656  
F. +212 52 26 63 655  
E. senhadji@interacier.ma

#### MOROCCO (DILLIDUR)

#### SMM SOCODAM DAVUM

A. Bd Ahl Loughlam Sidi Moumen  
Ain Sebaa – Casablanca  
T. +212 52 27 54 752  
F. +212 52 27 54 717  
E. mgraoui@ssd.ma

#### REUNION/SCMP

A. 15 Avenue Piton Tréport – ZI de Cambaie  
97460 Saint-Paul  
T. +33 3 85 90 60 15  
F. +33 3 85 90 60 38  
E. sarl.scmp@wanadoo.fr

#### INDIA/PARIKH STEEL

A. Gujarat Centre – 4<sup>th</sup> floor – 5 Elgin Road  
Kolkata  
T. +913 32 28 14 716  
F. +913 32 28 14 451  
E. ratan.raha@parikhsteel.com

#### INDONESIA/PT TIRA AUSTENITE

A. Pulogadung indl estate  
Jl. pulo ayang no R1 – Jakarta  
T. +622 14 60 25 94  
F. +622 14 60 25 93  
E. headoffice@tiraaustenite.com

#### VENEZUELA

#### REPRESENTACIONES H.J. CITROEN

A. Centro plaza torre b, piso 11  
ofic f-g, los palos grandes – Caracas  
T. +58 22 84 07 90  
F. +58 22 85 68 64  
E. henricitroen@cantv.net

#### SWITZERLAND/MANUEL SCHNORF

A. Zurich – Switzerland  
T. +41 79 20 98 190  
E. manuel\_schnorf@hotmail.com

#### CONTACT

[www.abraservice.com/international](http://www.abraservice.com/international)

Abraservice is a brand  
of the Jacquet Metal Service Group

Graphic design: Superscript<sup>2</sup>  
[www.super-script.com](http://www.super-script.com)

The Abraservice brand

15  
companies

24  
sales agencies

48 000 m<sup>2</sup>  
of warehouses

225  
people