



Herrán y Díez, S.A.

Surface treatment articles manufacturer - Since 1893

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N.I.F. ESA 39001987

**GRAUER  
BLASBERG  
ARTIPUL  
REYFOR**  
marcas registradas

## Presentation

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At Herrán y Díez S.A., a company founded in Castro Urdiales (Spain) in **1893**, we have a great deal of experience in the field of machine-polishing of a variety of surfaces. Our products cover a wide range of different applications in both solid and liquid compounds for all types of surface finishes. We are the **main manufacturer of polishing compounds in Spain** and one of the most important in Europe with a strong presence in various different countries.

One of the other companies in the group, Tierras Industriales Herrán y Díez, S.A., is the only manufacturer in Europe of the mineral **Tripoli**, an important raw material for all manufacturers of polishing compounds worldwide. This means that we know the market we are working in very well.

During our long history we have worked in all the different fields and applications of polishing compounds, specializing in aluminium, bronze, brass, zamac, silver and gold (non-ferrous metals), iron and stainless steel.

In recent decades we have specialized in the polishing of **cutlery and housewares** with companies such as Cruz de Malta, Dalia, Industrias Jay, Magefesa, Roca, Buades and lamp-makers.

We will now present our range of compounds which have the same **formulations and compositions that we have always used**, and our range of polishing products.

## General informations I

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Before describing our products, here is a brief description of the metals.

### Ferric metals

These can be classified into three groups:

- Cast iron, with a carbon percentage of 2.5 – 6 %.
- Steel, with a carbon percentage of 0.15 – 2.5 %.
- Soft iron, with a carbon percentage of less than 0.1 %.

The higher the percentage of carbon, the harder the metal is but also the more fragile it is, although later it may be possible to combine it with other metals that give it other characteristics. Nickel makes it harder, as does chrome, which also serves to prevent corrosion.

Cast iron: Must be polished with a Corundum compound and a sisal or sisal cloth buff (vas)

Steel: There are basically three types of stainless steel:

Martensitic Steels: Can be hardened. They are magnetic and easily machined. They have a chrome content of between 13 and 17 % and a nickel content of 0 to 2 %. When quenched they are more resistant to rust. Always treated with Corundum or alumina compounds and sisal or sisal cloth buffs.

Ferritic steels: These are not susceptible to quenching and are only slightly magnetic or not magnetic at all. They are basically composed of iron and chrome, and the latter can reach proportions of up to 27%. These are always polished with Corundum, alumina or silicon carbide compounds and sisal or sisal cloth buffs.

Austenitic Steels: These are chrome-nickel steels (18/10), they are not magnetic and are the most resistant to rust and corrosion. They are polished with alumina compounds and sisal or sisal cloth buffs.

Ferric metals may be treated in different ways:

- Heat treatment: Annealing, quenching and tempering.
- Thermochemical: Cementing, cyanide hardening, nitriding, carbon nitriding and sulphurization.
- Mechanical: In cold, deep shaping, superficial shaping, in hot and forge.
- Superficial: Hard chrome and metallization.



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## General informations II

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### Non-ferric metals

These include: Copper, brass (Copper – zinc), bronze (Copper – tin), zamac (zinc – aluminium), aluminium, chrome, nickel, gold, silver, etc.

All of these are polished with either Tripoli compounds or aluminium oxide compounds, with cotton buffs.

Shine is very important in these metals as they must have a perfect finish and sometimes they are coated.

Aluminium polishing requires special treatment as this is a very soft metal with a very high friction coefficient. For polishing, a Tripoli or alumina compound is required with a high grease-content for lubrication purposes, and the metal must be applied to the buff at a very low pressure.

Chrome is a special case as its hardness means that it must be polished with aluminium oxide compounds.

## General catalogue of polishing compounds



		High Cut		Cut – Shine	Super Shine
Iron, Ferritic Steel	Solid Compound	Num 14 B		Inox J4 / R	Latinox
	Liquid Compound	1600	1625	1425	1600
Stainless Steel	Solid Compound	Num 14 B		Rubinit 0 / RN-250	Latinox Vebrix S2
	Liquid Compound	1625		1425 HP / BR	5980
Copper, Aluminium, Brass, Bronze, Zinc	Solid Compound	Num 14 B		RN-043 Grauer / S.G.	Latinox
	Liquid Compound	1625		RN-552	5980
Gold, Silver, precious metals	Solid Compound	Vebrix J		Orolux J	Rouge S
Plastics	Solid Compound	Num 34		Num 36	Latinox
		Simil Gewelia			Vulcano

### Packaging

Liquid Compounds 50 Kg boxes, 250 Kg. metal barrels and 1,000 and 1,300 Kg containers.

Solid Compounds 28 tablet boxes, the weight varies depending on the type of compound.  
Approx. 28-34 Kg.

Format Standard - Bars of 200\*50\*50 mm.  
Special sizes available on demand.

## Solid Polishing Compounds

Description	Aluminium	Stainless Steel	Iron, ferritic, cast	Copper, Bronze, Brass, Zinc, Zamac, ...	Nickel and Chrome	Jewellery	Plastics	Cut Rate	Shine rate	Grase rate
Blanca J						Shine		3	9	0
Latinox	Shine	Shine	Shine	Shine	Shine		Shine	3	9	2
Latinox MS		Shine		Shine			Shine	3	10	1
Orolux					Shine			1	10	1
Roja J						Shine		2	10	0
Vebrix	Shine	Shine	Shine	Shine	Shine			4	10	2
Vulcano							Shine	3	8	3
Grauer K	Cut / Shine			Cut / Shine			Cut / Shine	6	7	5
Inox J4		Cut / Shine	Cut / Shine					8	5	6
Inox R		Cut / Shine	Cut / Shine					7	6	6
Marrón J						Cut / Shine		7	5	6
Num 34	Cut / Shine			Cut / Shine				7	6	7
Num 36							Cut / Shine	4	8	3
RN-043	Cut / Shine			Cut / Shine				6	7	5
RN-250		Cut / Shine						6	7	4
Rubinit		Cut / Shine						6,5	7	4
Símil Gewelia	Cut / Shine			Cut / Shine			Cut / Shine	6	6	7
Verde J						Cut / Shine		4	8	0
Gris J						Cut		10	1	8
Num 14 B	Cut	Cut	Cut	Cut	Cut			10	3	7

Rate 10: max. / Rate 0: min.

## Liquid abrasive polishing compounds

Description	Aluminium	Stainless Steel	Iron, ferritic, cast	Copper, Bronze, Brass, Zinc, Zamac, ...	Nickel and Chrome	Plastics	Cut Rate	Shine rate	Grase rate
5701		Shine			Shine		2	10	2
5735		Shine		Shine	Shine	Shine	1	10	3
5980	Shine	Shine	Shine	Shine	Shine		2	10	1
1425	Cut / Shine	Cut / Shine	Cut / Shine				7	6	5
3226						Cut / Shine	7	6	5
6002						Cut / Shine	7	6	8
RN-552	Cut / Shine			Cut / Shine			6	7	7
1600	Cut		Cut				9	3	7
1625	Cut	Cut	Cut	Cut			9	4	6
5999						Cut	5	6	7

Rate 10: max. / Rate 0: min.

## Specific polishing compounds for each product/application

### Aluminium

Type of compound	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	1600	Grey	Cut	10	3	7	Impregnated Sisal
Liquid	1625	Cream	Cut	9	4	6	Sisal
Liquid	1425	White	Cut / Shine	7	6	5	Impregnated Cotton
Liquid	RN-552	Brown	Cut / Shine	6	7	7	Cotton
Liquid	5980	White	Shine	2	10	1	Cotton / Flannel
Solid	Num 14 B	Grey	Cut	10	3	7	Sisal
Solid	Grauer K	Brown	Cut / Shine	6	7	5	Cotton
Solid	Num 34	Brown	Cut / Shine	7	6	7	Cotton
Solid	RN-043	Brown	Cut / Shine	6	7	5	Cotton
Solid	Símil Gewelia	Brown	Cut / Shine	6	6	7	Cotton
Solid	Latinox	White	Shine	3	9	2	Cotton / Flannel
Solid	Vebrix	Green	Shine	4	9	2	Cotton / Flannel

Level 10 : maximum

Level 0 : minimum

### Stainless Steel

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	1625	Cream	Cut	8	5	6	Impregnated Sisal
Liquid	1425	White	Cut / Shine	7	6	5	Impregnated Cotton / Impregnated Cotton-Sisal
Liquid	5701	White	Shine	2	10	2	Cotton / Flannel
Liquid	5980	White	Shine	2	10	1	Cotton / Flannel
Solid	Num 14 B	Grey	Cut	9	3	7	Impregnated Sisal
Solid	Inox J4	Pink	Cut / Shine	8	5	6	Impregnated Cotton
Solid	Inox R	Pink	Cut / Shine	7	6	6	Impregnated Cotton
Solid	RN-250	Pink	Cut / Shine	6	7	4	Impregnated Cotton / Impregnated Cotton-Sisal
Solid	Rubinit	Pink	Cut / Shine	6,5	7	4	Impregnated Cotton / Impregnated Cotton-Sisal
Solid	Latinox	White	Shine	2	10	2	Cotton / Flannel
Solid	Latinox MS	White	Shine	1	10	1	Cotton / Flannel
Solid	Vebrix	Green	Shine	3	10	2	Cotton / Flannel

Level 10 : maximum

Level 0 : minimum

## Specific polishing compounds for each product/application

### Iron, ferritic steel, cast iron

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	1600	Grey	Cut	9	3	7	Impregnated Sisal
Liquid	1625	Cream	Cut	8	5	6	Impregnated Sisal
Liquid	1425	White	Cut / Shine	7	6	5	Impregnated Cotton
Liquid	5980	White	Shine	2	10	1	Cotton / Flannel
Solid	Num 14 B	Grey	Cut	9	3	7	Impregnated Sisal
Solid	Inox J4	Pink	Cut / Shine	8	5	6	Impregnated Cotton
Solid	Inox R	Pink	Cut / Shine	7	6	6	Impregnated Cotton
Solid	Latinox	White	Shine	2	10	2	Cotton / Flannel
Solid	Vebrix	Green	Shine	3	10	2	Cotton / Flannel

Level 10 : maximum

Level 0 : minimum

### Soft metals: Copper, Bronze, Brass, Zinc, Zamac, etc ...

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	1625	Cream	Cut	8	3	6	Sisal
Liquid	RN-552	Brown	Cut / Shine	6	7	7	Cotton
Liquid	5735	White	Shine	1	10	2	Cotton / Flannel
Liquid	5980	White	Shine	3	9	1	Cotton / Flannel
Solid	Num 14 B	Grey	Cut	10	3	7	Sisal
Solid	Grauer K	Brown	Cut / Shine	6	7	5	Cotton
Solid	Num 34	Brown	Cut / Shine	7	6	7	Cotton
Solid	RN-043	Brown	Cut / Shine	6	7	5	Cotton
Solid	Símil Gewelia	Brown	Cut / Shine	6	6	7	Cotton
Solid	Latinox	White	Shine	3	9	2	Cotton / Flannel
Solid	Latinox MS	White	Shine	2	10	1	Cotton / Flannel
Solid	Vebrix	Green	Shine	4	9	2	Cotton / Flannel

Level 10 : maximum

Level 0 : minimum

## Specific polishing compounds for each product/application

### Nickel and Chrome

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	5701	White	Shine	2	9	3	Cotton / Flannel
Liquid	5735	White	Shine	1	10	3	Cotton / Flannel
Liquid	5980	White	Shine	3	10	1	Cotton / Flannel
Solid	Latinox	White	Shine	1	10	1	Cotton / Flannel
Solid	Orolux	Blue	Shine	1	10	1	Cotton / Flannel
Solid	Vebrix	Green	Shine	4	10	2	Cotton / Flannel

Level 10 : maximum

Level 0 : minimum

### Jewellery

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended	Approx weight Tablet
Solid	Grey J	Grey	Cut	10	1	8	Cotton / Flannel	125 gr.
Solid	Brown J	Brown	Cut / Shine	7	5	6	Cotton / Flannel	115 gr.
Solid	Green J	Green	Cut / Shine	4	8	0	Cotton / Flannel	140 gr.
Solid	White J	White	Shine	3	9	0	Cotton / Flannel	105 gr.
Solid	Red J	Red	Shine	2	10	0	Cotton / Flannel	195 gr.

Level 10 : maximum

Level 0 : minimum

**Red Compound** Mirror shine on all types of metals. Ideal for gold.

**White Compound** Universal shine. Works very well with brass and all kinds of soft metals.

**Green Compound** Strong polishing and shine in all kinds of metals, especially suitable for soft metals such as white gold, platinum, stainless steel, etc ...

**Brown Compound** General polishing of soft metals, especially suitable for Brass

**Grey Compound** Extra-strong polishing. Definitive scratch-remover.

## Specific polishing compounds for each product/application

### Plastics

Type	Description	Colour	Process	Cut rate	Shine level	Grease level	Buff Recommended
Liquid	5999	Grey	Cut	5	5	7	Cotton
Liquid	3326	Brown	Cut / Shine	7	6	5	Cotton
Liquid	6002	Brown	Cut / Shine	7	6	8	Cotton
Liquid	5735	White	Shine	1	10	3	Flannel
Solid	Grauer K	Brown	Cut	7	6	5	Cotton
Solid	Símil Gewelia	Brown	Cut	7	6	8	Cotton
Solid	Num 36	White	Cut / Shine	4	8	3	Cotton
Solid	Latinox	White	Shine	2	9	2	Flannel
Solid	Latinox MS	White	Shine	2	10	1	Flannel
Solid	Vulcano	Yellow	Shine	3	8	3	Flannel

Level 10 : maximum

Level 0 : minimum

### Other products and applications

Description	Applications and characteristics
Tecnistrip SF	Universal cold paint stripper, no carcinogenic products.
Glue	For the preparation of own buffs with the desired emery grain on felt buffs
Solvent	Diluter for the glue
Grauer Metal Cleaner	Universal cleaner for all types of surfaces
Limpograss	Grease used for softening pulleys and/or bands
Limpograss P	The same as Limpograss but with pumice to give it more bite
Oxide Simil Platinum	Oxidant used for aging brass, bronze or silver.

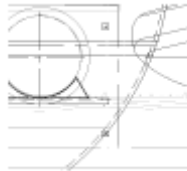
## Installations, equipment and accessories

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We are manufacturers of high pressure guns and wholesaler for Widoberg products.

Therefore if you wish to have a new automatic – or mechanic installation we offer you the most appropriate solution for your requirements.

We have highly qualified staff with a large experience in designing and adjusting installations.



**Installation design**



**High pressure equipment**



**Installation**



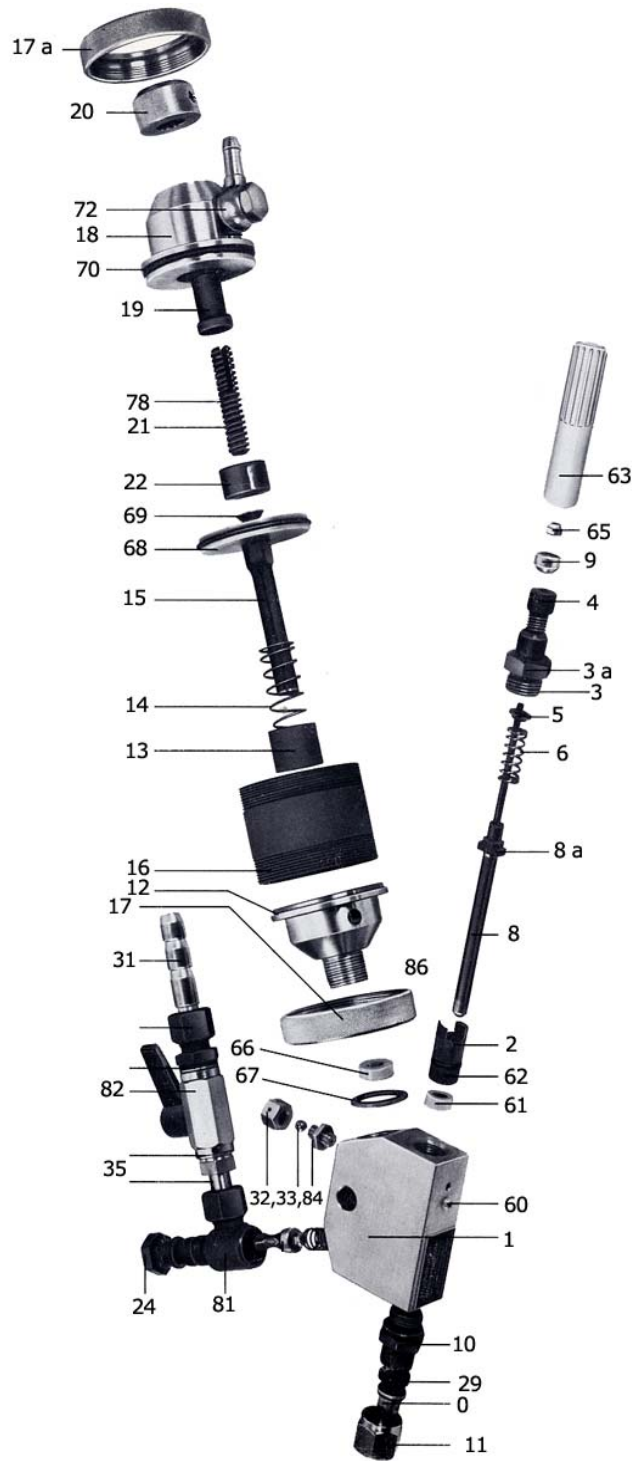
**Pumps**



**Maintenance**

## HDP – Stry gun

- REF 0 BOQUILLAS DE 20-45-65-95-120
- REF 1 CUERPO
- REF 10 TUBULADURA
- REF 11 TUERCA TAPON
- REF 12 BRIDA DE CILINDRO
- REF 13 PLATO DE MUELLE
- REF 14 RESORTE COMPRESION
- REF 15 PISTON DE CERAMICA
- REF 16 CILINDRO
- REF 17 / 17 a TUERCA TAPON
- REF 18 CABEZA DE CILINDRO
- REF 19 CASQUILLO
- REF 2 CASQUILLO GUIA
- REF 20 TUERCA
- REF 21 CASQUILLO
- REF 22 TUERCA DE HUSILLO
- REF 24 VALVULA DE RETENCION
- REF 29 PLAQUETA WIDIA
- REF 3 A MANGUITO ROSCADO
- REF 3 MANGUITO ROSCADO
- REF 31 TUBULADURA
- REF 32,33,84 PURGA
- REF 35 TUBULADURA
- REF 4 TORNILLO PRESION
- REF 5 PLATO DE MUELLE
- REF 6 RESORTE
- REF 60 ESPIGA ROSCADA
- REF 61 JUNTA TORICA
- REF 62 ANILLO VULKOLLAN
- REF 63 CAPERUZA DE PROTECCION
- REF 65 TUERCA
- REF 66 ANILLO VULKOLLAN GRANDE
- REF 67 ANILLO ALUMINIO
- REF 68 PISTON COMPLETO
- REF 69 TORNILLO
- REF 70 JUNTA TORICA
- REF 71,72 JUNTA TORICA
- REF 78 HUSILLO
- REF 8 AGUJAS
- REF 81 ATORNILLADURA
- REF 82 LLAVE DE PASO
- REF 86 ANILLO SEGURIDAD
- REF 8-A CRUZETA DE AGUJA
- REF 9 TUERCA MOLETEADA



## Cotton Buffs

Description		Diameter		Treatment							
		Inside (mm)	Outside (mm)	No treat.	Soft Pink	Hard Pink	Trans-parent	Yellow	Green	Blue	Red
AF	Ventilated cotton	80 130 180	250 300 350 400	X	X	X		X			
PE	One sewn cotton	10	100 400 (de 50 en 50)	X							
COS S	Soft sewn cotton	10	100 400 (de 50 en 50)	X							
COS D	Hard sewn cotton	10	100 400 (de 50 en 50)	X							
PE	One sewn khaki	10	100 400 (de 50 en 50)	X							
COS S	Soft sewn khaki	10	100 400 (de 50 en 50)	X							
COS D	Hard sewn khaki	10	100 400 (de 50 en 50)	X							
MINI AF	Mini ventilated cotton	19-24 hex.	100 150 200	X				X			



AF sin tratar

Polishing and buffing of all kinds of metals



Alg Cos-D

Shine Polish for soft metals (copper, silver), and alloys (brass, zamac)



Kaki Cos-D



Mini AF

Especially suitable for polish and shine work with portable machines. Used in metalwork, silverwork, restoration, cutlery, etc, ...

## Sisal buffs

Description		Diameter		Treatment							
		Inside (mm)	Outside (mm)	No treat.	Soft Pink	Hard Pink	Trans-parent	Yellow	Green	Blue	Red
S/T	Braid sisal	80-130-180	250 300 350 400	X	X	X	X		X		
COS	Compact sisal	80-130-180	250 300 350 400	X	X					X	
Mini S/T	Mini braid sisal	19-24 hex.	100 120 150	X							X



S/T

Especially suitable for polishing pieces that have niches that are difficult to reach. Used in silverwork, bronze or stainless steel articles.



S/T con grapa



Cos -5/10

Strong polishing of metals, especially stainless.



Mini S/T

Especially suitable for polishing work with portable welding machines in stainless and metals in general.

## Sisal- Cotton buffs

Description		Diameter		Treatment							
		Inside (mm)	Outside (mm)	No treat.	Soft Pink	Hard Pink	Trans-parent	Yellow	Green	Blue	Red
AL/SIS	Cotton Sisal	10	de 100 a 400 de 50 en 50 mm	X	X	X					
VAS	Ventilated Cotton Sisal	80 130 180	250 300 350 400	X	X	X				X	



VAS

Polishing of all kinds of metals, especially stainless.



AL/SIS

For polishing all kinds of metals, stainless, Brass, etc,...

## Flannel buffs

Description		Diameter		Treatment							
		Inside (mm)	Outside (mm)	No treat.	Soft Pink	Hard Pink	Trans-parent	Yellow	Green	Blue	Red
VF	Ventilated Flannel	80 130 180	250 300 350 400	x							
PE	Flannel 1 sewn	10	100 400 (de 50 en 50)	x							



VF



PE

High gloss finishing