

BOSCH



Robert Bosch GmbH
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D-70745 Leinfelden-Echterdingen

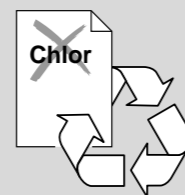
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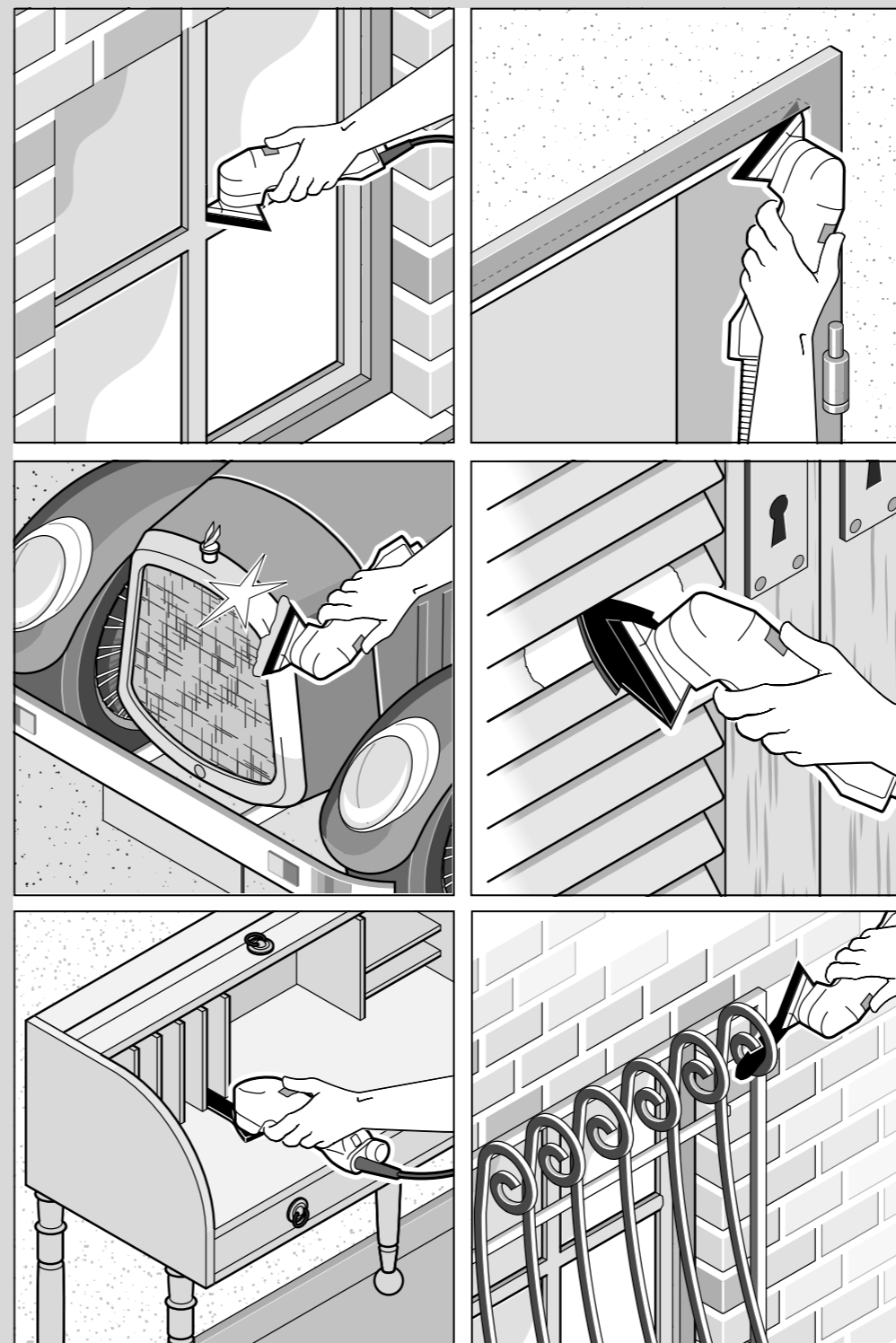


GDA 280 E

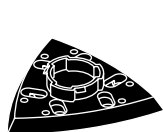
- D** 6...9
- GB** 10...13
- F** 14...17
- E** 18...21
- P** 22...25
- I** 26...29
- NL** 30...33
- DK** 34...37
- S** 38...41
- N** 42...45
- FIN** 46...49
- GR** 50...53
- TR** 54...57



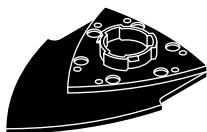
BOSCH



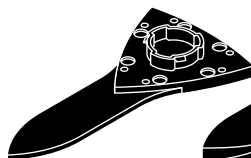
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Korund	P40	2 608 604 460	2 608 604 742	2 608 604 642
	P60	2 608 604 461	2 608 604 743	2 608 604 643
	P80	2 608 604 462	2 608 604 744	2 608 604 644
	P100	2 608 604 463	2 608 604 745	—
	P120	2 608 604 464	2 608 604 746	2 608 604 645
	P180	2 608 604 465	2 608 604 747	—
	P240	2 608 604 466	2 608 604 748	2 608 604 646
P400	2 608 604 468	2 608 604 749	—	
Korund ▼	P40	2 608 604 470	2 608 604 750	—
	P60	2 608 604 471	2 608 604 751	—
	P80	2 608 604 472	2 608 604 752	—
	P100	2 608 604 473	2 608 604 753	—
	P120	2 608 604 474	2 608 604 754	—
	P180	2 608 604 475	2 608 604 755	—
	P240	2 608 604 476	2 608 604 756	—
SiC	P80	2 608 604 479	—	—
	P100	2 608 604 480	—	—
	P120	2 608 604 481	—	—
	P180	2 608 604 482	—	—
	P240	2 608 604 483	—	—
	P320	2 608 604 484	—	—
	P400	2 608 604 485	—	—
P600	2 608 604 486	—	—	
		6	6	6
Korund-SET	P60	2 608 604 469	—	2 608 604 647
	P120			
	P240			
Korund ▼-SET	P60	2 608 604 478	—	—
	P120			
	P240			



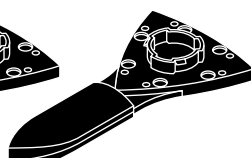
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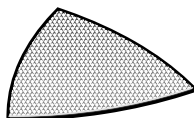
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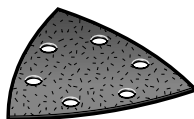
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3



3



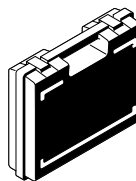
2 608 613 016



2 608 604 494
(P 100)
2 608 604 495
(P 280)



2 608 604 496



2 605 438 366



ø 19 mm
1 610 793 002
(5 m)
2 600 793 009
(3 m)



1 600 499 005



GAS ...

+



+



ø 19 mm



GAS ...

+

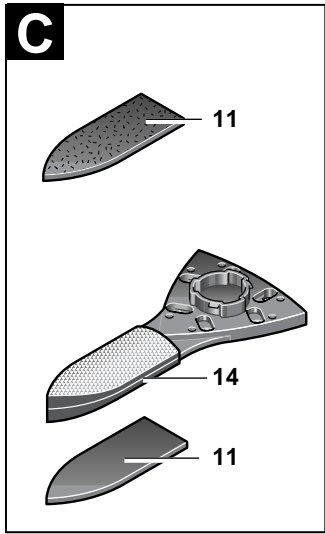
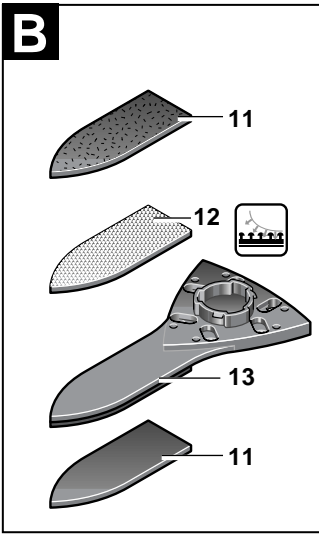
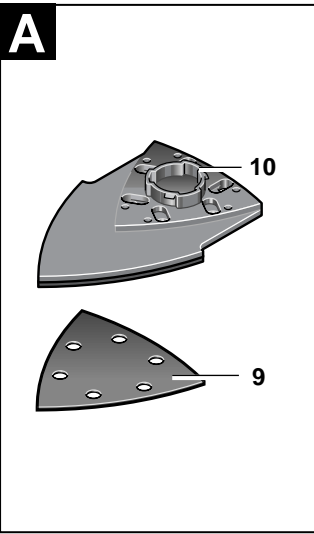
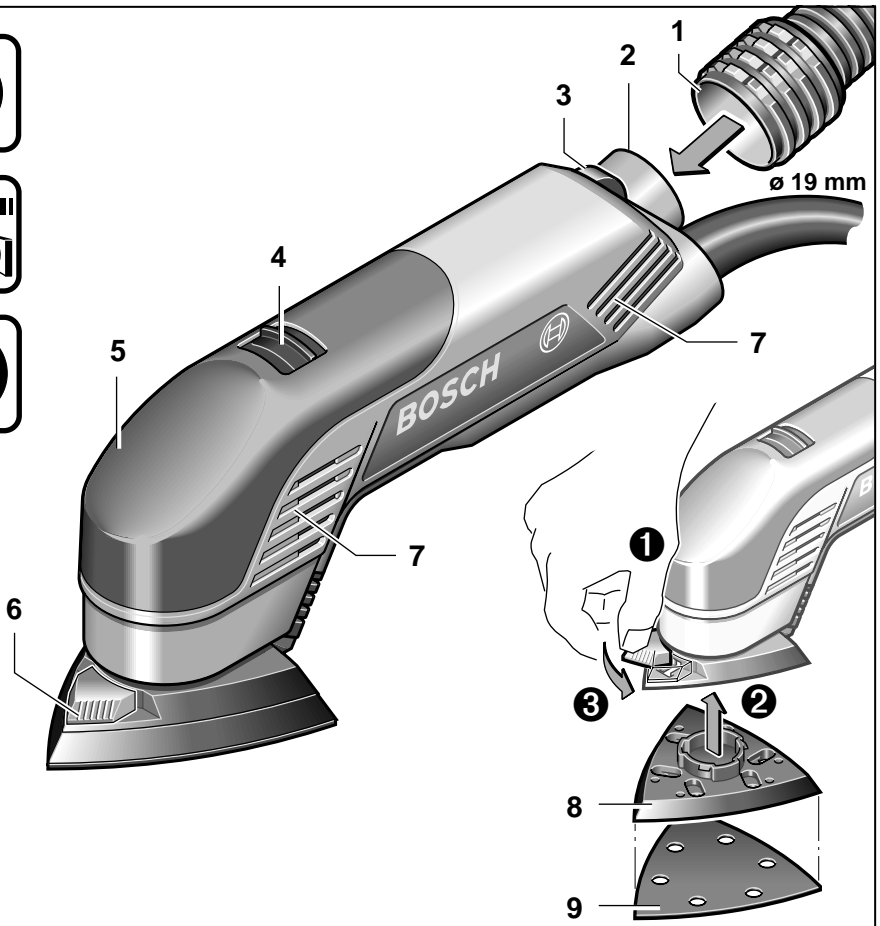


+



1 600 499 005





Tool Specifications

GB

Delta Sander	GDA 280 E
Order number	0 601 294 7..
Rated power input	280 W
Power output	112 W
No-load speed	6 500 - 9 500 min ⁻¹
No-load oscillations	13 000 - 19 000 min ⁻¹
Sanding plate size (corner to corner)	94 mm
Weight (without access.)	Approx. 1.1 kg
Protection class	□ / II

Noise/vibration information

Measured values determined according to EN 50 144.

Typically the A-weighted sound pressure level of the tool is 80 dB (A). The noise level when working can exceed 85 dB (A). Wear ear protection!

The typical weighted acceleration is 3 m/s².

Operating Controls

- 1 Vacuum hose*
- 2 Vacuum connection
- 3 Thumbwheel for oscillation rate
- 4 On/Off switch
- 5 Gripping surface
- 6 SDS slider
- 7 Ventilation slots
- 8 Sanding plate
- 9 Sanding sheet (standard)*
- 10 Louver sanding attachment*
- 11 Sanding sheet for sanding tongue*
- 12 Velcro material for sanding tongue*
- 13 Sanding tongue (flat)*
- 14 Sanding tongue (oval)*

*Accessory

Not all of the accessories illustrated or described are included as standard delivery.

Intended Use

The machine is intended for sanding and polishing of wood, plastic and metal materials as well as for painted surfaces.

As a result of its handiness and extensive accessories, the machine can be used for various purposes and is especially suitable for working in corners, edges and small surfaces as well as for hard-to-reach places.



For your safety



Working safely with this machine is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. In addition, the general safety instructions in the enclosed booklet must be followed. Before using for the first time, ask for a practical demonstration.



If the cable is damaged or cut through while working, do not touch the cable but immediately pull the mains plug. Never use the machine with a damaged cable.



The dust that is produced while working is detrimental to health. Use dust extraction and wear a dust mask.

Do not work with materials containing asbestos.

- The machine must be used only for dry grinding.
- Always direct the cable to the rear away from the machine.
- Connect machines that are used in the open via a residual current circuit breaker with a triggering current of 30 mA maximum. Use only extension cables that are intended for outdoor use and are protected against splash water.
- When grinding metal, flying sparks are produced. Take care that no persons are endangered. Because of the danger of fire, no combustible materials should be located in the vicinity (spark flight zone).
- Bosch can assure flawless functioning of the machine only when original accessories are used.

Initial operation

Always use the correct supply voltage:

The mains voltage must correspond to the data on the machine rating plate. 230 V machines may also be operated at 220 V.

Switching on/off

Switching on: Slide ON/OFF switch **4** forwards

Switching off: Slide ON/OFF switch **4** backwards

Selecting the Oscillation Rate



With the thumbwheel **3**, the rate of oscillation can be selected (also during operation).

The optimum speed depends on the material and should be determined by carrying out a practical test.

Replacing the Sanding Plate

Push the SDS slider **6** to the right as far as possible (❶) and remove the sanding plate **8** (see main illustration).

To attach the sanding plate **8**, press on (❷) and lock with the SDS slider (❸).

☞ If the front point of the sanding sheet is worn out, for example, the complete sanding plate can be removed and – rotated by 120° – re-attached.

Using the Accessories

The attachment and removal of all sanding accessories are made in the same manner as the replacement of the sanding plate.

Louver Sanding Attachment (Fig. A)

The use of the louver sanding attachment **10** makes possible the sanding of especially hard-to-reach places, e.g., louvers on windows, cabinets and doors.

Sanding Tongue, Flat (Fig. B)

The flat sanding tongue **13** makes possible the sanding of small slots or narrow spaces, for example.

It can also be provided with Velcro material **12** on the upper surface for the attachment of a sanding sheet **11**.

Sanding Tongue, Oval (Fig. C)

The oval sanding tongue **14** is already covered on both sides with Velcro material. Sanding sheets **11** can therefore be attached to both sides.

In this manner, sanding of forms, especially curved or hollow objects or concave surfaces such as on furniture, railings or heating radiators is possible.

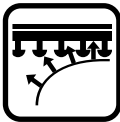
Gripping Surface

The gripping surface **5** attached to the upper side of the machine prevents slipping and improves the grip and handling of the machine.

As a result of the black rubber layer, a vibration absorbing effect is achieved at the same time.

Changing the Sanding Sheet

Attaching the Sanding Sheet



The sanding plate is covered with Velcro material. The sanding sheet can therefore be quickly and simply attached with Velcro fastening.

Knock the dust out of the Velcro material on the sanding plate before applying the sanding sheet.

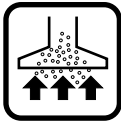
Place the sanding sheet flush with one side of the sanding plate. Then lay the sanding sheet down and press on with a light clockwise turning motion.

Accessories such as fleece or polishing felt are fastened to the sanding plate in the same manner.

Removing the Sanding Sheet

Take hold of the sanding sheet at one of the points and pull off.

Dust extraction



Dust extraction prevents large accumulations of dust, high concentrations of dust in the ambient air and facilitates disposal.



For long periods of working with wood or for commercial use on materials that produce dust that is detrimental to health, the machine is to be connected to a suitable **external dust extraction** device.

The machine has a built-in vacuuming channel which, in conjunction with a suitable vacuum cleaner, provides external dust extraction.

For extraction, a 19 mm dia. vacuum hose **1** can be connected directly to the vacuum connection **2**. When using a 35-mm dia. vacuum hose, an additional adapter must be used (**1 600 499 005** - see accessories).

The appliance can be plugged directly into the socket of a Bosch all-purpose vacuum cleaner which incorporates a remote-control start device. The vacuum cleaner automatically starts when the appliance is switched on.

Operating instructions

The material removal during sanding is determined primarily by the selection of the sanding sheet and the setting of the oscillation rate.

For exact sanding in corners, on edges and hard-to-reach places, sanding can be done with the point alone or with one of the edges of the sanding sheet.

- Only flawless sanding sheets produce good sanding results and protect the machine.
- Take care to apply uniform sanding pressure; the service life of the sanding sheet is increased in this manner.
- An increase in the sanding pressure does not increase the sanding performance but causes increased wear to the machine and the sanding tools.
- Do not sand wood **and** metal with the same sanding sheet.
- **Use only original Bosch sanding sheets, polishing tools and accessories.**

Sanding Sheet Usage

Depending on the material to be worked and the desired surface removal, various sanding sheet are available.

Coated sanding sheets (▼) have a much higher service life as compared with uncoated sheets when used with the prescribed material.

Corundum

- Application:
- Woods with low resin content
 - Metal
 - Varnish
 - Paint

Corundum ▼ (with coating)

- Application:
- Woods containing resin (larch, pine, spruce)
 - Filler
 - PVC
 - Paint
 - Varnish

SiC

- Application:
- Steel (alloyed)
 - Stone
 - PVC
 - Aluminum and non-ferrous metal
 - Varnish

Fleece and Polishing Felt Usage

The usage of fleeces and polishing felts make possible the finishing or polishing of metal and stone in particular.

Depending on the desired surface quality, various types of fleeces and polishing felts can be used.

Coarse Fleece

- Application:
- Rust removal from steel (alloyed)
 - Stone
 - Paint removal
 - Structuring of wood

Medium Fleece

- Application:
- Structuring of steel (alloyed), delustering, finishing
 - Polishing of stone
 - Sanding of synthetic resin enamel
 - Finishing of repaired areas in wood

Cleaning Fleece

- Application:
- Cleaning of metal

Polishing Felt

- Application:
- Super-finishing of steel (alloyed)
 - Polishing of automobile paint

Environmental protection



Recycle raw materials instead of disposing as waste

Machine, accessories and packaging should be sorted for environment-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorized recycling.

Maintenance and Cleaning

Before working on machine disconnect from power supply by removing plug from socket.

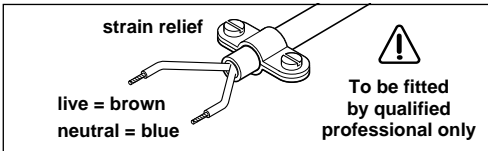
Always keep the machine and the ventilation slots clean.

If the machine should happen to fail despite the care taken in manufacture and testing, repair should be carried out by an authorised customer services agent for Bosch power tools.

For all correspondence and spare parts orders, always include the 10 digit order number of the machine!

WARNING! Important instructions for connecting a new 3-pin plug to the 2 wire cable.

The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.

Important: If for any reason the plug is cut off of the cable of this machine, it must be disposed of safely and not left unattended.

Guarantee

We guarantee Bosch appliances in accordance with statutory/country-specific regulations (proof of purchase by invoice or delivery note).

Damage attributable to normal wear and tear, overload or improper handling will be excluded from the guarantee.

In case of complaint please send the machine, **undismantled**, to your dealer or the Bosch Service Centre for electric power tools.

Service

Great Britain

Robert Bosch Ltd. (B.S.C.)
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Broadwater Park
North Orbital Road
Denham-Uxbridge
GB-Middlesex UB 9 5HJ

☎ Service(08 95) 83 86 81
☎ Advice line(08 95) 83 84 02
FAX(08 95) 83 87 89

Ireland

Beaver Distribution Ltd.
Greenhills Road
IRL-Tallaght-Dublin 24

☎ Service(01) 45 15 211
FAX(01) 45 17 127

CE Declaration of conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents: EN 50 144, EN 55 014, EN 61 000-3, HD 400 according to the provisions of the regulations 73/23/EEC, 89/336/EEC, 89/392/EEC.

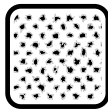
CE 96

Dr. Alfred Odendahl

Dr. Eckerhard Strötgen

Dr. Alfred Odendahl *Dr. Eckerhard Strötgen*

Robert Bosch GmbH
Geschäftsbereich Elektrowerkzeuge



180

...

400

3..5

D

Lacke anschleifen



40

...

120

4..6

Farbe abschleifen



120

...

240

2..4

Anstrich ausbessern



60

...

240

2..6

Holz schleifen



180

...

400

2..4

Furnier bearbeiten



80

...

240

2..4

Aluminium schleifen



40

...

120

2..4

Metall entrosten



120

...

240

3..5

Stahl schleifen



180

...

400

1..4

Plexiglas polieren



180

...

320

2..4

Stein polieren



180

...

320

2..4

Edelstahl polieren

GB**F****E****P**

Sanding down varnishes
Ponçage des laques
Lijado superficial de pinturas
Trabalhar vernizes

I**NL****DK****S**

Irruvidire vernici
Lak schuren
Tilslibning af lak
Lackslipning

N**FIN****GR****TR**

Sliping av lakk
Lakattujen pintojen hiontaan
Τρίψιμο βερνικιών
Vernik zımparalama

Stripping paint
Ponçage de la peinture
Eliminación de pinturas
Tirar pinturas

Asportare vernici
Verf afschuren
Afslibning af maling
Färgavslipning

Avsliping av farge
Maalin-poistoon
Αφαίρεση χρώματος
Boya kazıma

Touching up paintwork
Rectification des peintures
Igualado de pinturas
Emendar pinturas

Ripassare vernici
Lak bijwerken
Udbedring af malede overflader
Förbättring av lackering

Utbedring av maling
Maali-pintojen korjaukseen
Βελτίωση επιφάνειας επιχρίσματος
Boya iyileştirme

Sanding wood
Ponçage du bois
Lijado de madera
Lixar madeira

Levigare legno
Hout schuren
Træslibning
Träslipning

Sliping av tre
Puun hiontaan
Τρίψιμο ξύλου
Tahta zımparalama

Machining veneer
Transformation des placages
Trabajos en chapados de madera
Trabalhar folheados

Lavorare impiallaccature
Fineer bewerken
Bearbejdning af finér
Fanerslipning

Bearbejding av finér
Vanerin työstöön
Τρίψιμο καπλαμά
Kaplama işleme

Sanding aluminium
Ponçage de l'aluminium
Lijado de aluminio
Lixar alumínio

Levigare alluminio
Aluminium schuren
Aluminium-slibning
Aluminium-slipning

Sliping av aluminium
Alumiinin hiontaan
Τρίψιμο αλουμινίου
Alüminyum zımparalama

Derusting metal
Dérrouillage des métaux
Desoxidación de metales
Desenferrujar metais

Disossidare metalli
Metaal ontroesten
Fjernelse af rust på metal-overflader
Rostbortagning på metall

Avrusting av metall
Ruosteen-poistoon metallista
Αφαίρεση σκουριάς από μέταλλο
Metaldeki pasları kazıma

Sanding steel
Ponçage de l'acier
Lijado de acero
Lixar aço

Levigare acciaio
Staal schuren
Stålslibning
Stålslipning

Sliping av stål
Teräksen hiontaan
Λείανση χάλυβα
Çelik zımparalama

Polishing plexiglass
Polissage du plexiglas
Pulido de plexiglás
Polir plexiglas

Lucidare plexiglass
Plexiglas polijsten
Pleksiglas-polering
Plexiglas-polering

Polering av pleksiglass
Pleksilasin kiillotukseen
Στίλβωση Plexiglas
Pleksiglas zımparalama

Polish stone
Polissage de la pierre
Pulido de piedra
Polimento de pedra

Lucidatura della pietra
Steen polijsten
Polering af sten
Polering av sten

Polering av stein
Kiven kiillotukseen
Στίλβωση πετρώματος
Taşın parlatılması

Polish stainless steel
Polissage des aciers spéciaux
Pulido de aceros finos
Polimento de aço fino

Lucidatura dell'acciaio inox
Edelstaal polijsten
Polering af rustfrit stål
Polering av specialstål

Polering av edelstål
Ruostumattoman teräksen kiillotukseen
Στίλβωση ειδικού χάλυβα
Artılmış çeliğin parlatılması