

adhesives

bur kits by Federico Ferraris

THE MANUAL

English Version





# adhesives

www.federicoferraris.com

www.kometdental.de



**LD1373** and **LD 1372** to have all you need with the essentials, available from all Komet distributors around the world.

The kit burs LD1373 and LD1372 are designed to allow the clinician to manage the different phases of restorative dentistry in both front and posterior areas. LD1373 is dedicated to the preparation and finishing of direct restorations, LD1372 is for indirect restorations.



# adheshetics

Every single set of burs was simplified to 12 points, in ergonomic stainless steel blocks. All burs, both FG and CA, can fit into these blocks, with a rubber fall arrest system for each single tip and a cover that can be closed. Finally, the convenience is that this type of kit can be disinfected and autoclaved without having to carry out these procedures for every single tip.

Let's introduce both kits, DIRECT and INDIRECT:

Page 4 and 5: the overview of both kits

Page 6 to 16 : description of DIRECT KIT LD 1373

Page 17 to 25 : description of INDIRECT KIT LD 1372

Page 26 : contacts and info





For Direct Posterior & Anterior



DIRECT  
KIT LD1373



For Indirect Posterior & Anterior



INDIRECT  
KIT LD1372



adhesives

DIRECT KIT LD 1373

description





# H32 314 012

Amalgam Remover. Tungsten Carbide. Working head Ø 1.2 mm.

The special design provides toothing with a pyramid-shaped cutting tip useful for this purpose.

A distinctive characteristic is the transversing blade which creates an end-cutting tip which gives the H32 its impressive axial drilling ability and ensures low resistance to penetration. The blade configuration features a large chip space which provides optimal cutting action with relatively low heat generation.

Old amalgam fillings are removed in no time at all and with relatively low heat generation, releasing only a minimum of potentially toxic mercury vapour, thus protecting the health of both patients and all members of the dental practice team.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 min<sup>-1</sup>/rpm.

adhes#hetics DIRECT KIT LD 1373





830 314 007

Cavity access. Diamond. Working head, maximum Ø 0.7 mm.

830 007 is a pear diamond bur with medium grit (107 µm) and 2.7 mm length of working part, appropriate to perforate the enamel but not too aggressively, in order to be controlled accurately. This bur is suitable for many situations of cavity's access, especially when the enamel must be perforated and in situations with tight access where you must evaluate the amount of caries enlargement in dentine, both for occlusal cavities, proximal or other areas. Another aim is the preparation of small cavities with slight undercuts.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)-300.000 (max.) min<sup>-1</sup>/rpm.

adhes#hetics DIRECT KIT LD 1373





# S 6830L 314 012

Restoration remover and suitable for cavity preparation. Diamond.

Working head, maximum Ø 1.2 mm.

S6830L 012 is a pear diamond bur, coarse grit (151 µm), with a long working part (4 mm). This bur's design (S series, identifiable with gold-plated shank) has staggered plane surfaces, which assures increased material reduction, good chip removal, better cooling and more tooth substance than conventional diamond instruments can remove. To achieve an optimal surface roughness, subsequent finishing is necessary.

Its purpose is to remove old restorations quickly and easily and to allow the preparation of medium and large cavities even with undercuts.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm.

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# H1 314 003

Access in very narrow cavities. Tungsten carbide.

Working head Ø 0.3 mm.

H1 003 is a round head multi blade tungsten carbide bur, suitable for access of sulcus or very narrow cavities. This ultraconservative bur allows the creation of minimal cavities in order to probe and excavate a very small amount of sound hard tissue.

The choice of carbide instead of diamond, is because in such small diameter the cutting surface is longer lasting and more effective.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)-300.000 (max.) min<sup>-1</sup>/rpm.



# H1SEM 204 010 & H1SEM 204 016

Caries removers. Tungsten carbide.

Working head respectively Ø 1.0 mm and 1.6 mm.

H1SEM are round tungsten carbide burs with slim neck for improved vision especially under magnification. These burs are suitable for caries excavation and cavity preparation in dentine, both in small (010) and medium/large (016) cavities. Their multi blade design has staggered tothing with high-efficiency cutting design for excavating compared to the conventional round burs. These burs are also useful for some minor corrections during preparation and finishing restoration phases.

The CA attachment is for the blue ring contra-angle handpiece (recommended use) and any other contra-angle with CA attachment. Speed range 100.000 (max.) min<sup>-1</sup>/rpm.



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10839 314 014

Butt joint margin. Diamond (cutting head only).

Shank Ø 1.4 mm and working head Ø 1.2 mm.

10839 is a diamond bur medium grit (107 µm), which cuts only in the head and not on the side walls of the shank. Its purpose is for margin refinement, finishing and to create flat and butt joints, for example in the palatal part of class IV cavities or in the cervical interproximal floor of class II cavities. In this second situation the great advantage is represented by the fact that you don't risk touching the neighboring tooth. The shank diameter is 1.4 mm and the working part is slightly narrower; this shape allows for coherent finishing with rounded shoulder cavities and most importantly it doesn't create undercuts.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm.

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8858 314 010

Bevel margin preparation and margin finishing. Diamond.

Working head, maximum Ø 1.0 mm at the apex around Ø 0.4 mm.

8858 is a diamond bur fine grit (46 µm), pointed shape. Its main aim is to create the finishing cavity margin both in posterior and anterior cavities. The margin preparation and finishing is another main application; obtaining the bevel is easy and predictable like in buccal surfaces of class IV cavities. Another use is to manage shape modifications after restoration layering (to have a more aggressive or gentler bur, it is possible using 858 or 858 EF 314 010, same shape and dimensions, but respectively with medium grit then 107 µm and extra fine grit then 25 µm, available in INDIRECT kit LD 1372).

The FG attachment is for the red ring speed-increasing handpieces (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm.

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# 8801 314 018

Chamfer margin preparation, cavity finishing and occlusal correction.  
Diamond.

Working head Ø 1.8 mm.

8801 is a diamond bur fine grit (46 µm), round shaped. Its purpose is to create chamfer margin on a buccal class IV cavity around 1.0 mm depth, whenever the clinician wants to have this finishing line. This bur is useful in posterior cavity preparations, when some old restoration spots (i.e. composite) remain in undercut areas or other difficult access areas. It is very useful for the accurate occlusal adjustments of new restorations, especially in posterior areas.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm.

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5862 314 012

Horizontal texture and hard material remover. Diamond.

Working head, maximum Ø 1.2 mm.

5862 is a diamond bur super coarse grit (181 µm), flame shaped. This very aggressive bur is suitable for creating horizontal texture on composite anterior restorations; for this purpose it is important to reduce the speed and manage the pressure according to the texture effect desired. Furthermore it is indicated when a very hard restoration material has to be cut, such as ceramic.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)-300.000 (max.) min<sup>-1</sup>/rpm for preparation purpose, but for texture low speed is suggested.

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# 9401 204 030 & 9402 204 030

Composite polishers. Diamond particles.

Working head, maximum Ø 3.0 mm.

9401 and 9402 are conical polishers for composite. These polishers are interspersed with diamond grit; they must be used with water coolant and low speed, the attachment is for contra angle. The fine grit 40 µm (9401 the pink one) and the ultrafine grit 6 µm (9402 the grey one) are in the direct kit LD1373, for more aggressive finishing the fine diamond burs, 8858 314 010 are recommended.

The CA attachment is for the blue ring contra-angle handpiece (recommended use) and any other contra-angle with CA attachment. Speed range 6.000 (opt.)- 15.000 (max.) min<sup>-1</sup>/rpm.

adhes<sup>®</sup>thetics DIRECT KIT LD 1373





adheshetics

INDIRECT KIT LD 1372

description





# 959KRD 314 018 & 6847KRD 314 016

First preparation of onlays or other rounded shoulder indirect restorations.  
Diamond.

959KRD 018 working head max Ø 1.8 mm and min Ø 1.4 mm; length 6 mm.

6847KRD 016 working head max Ø 1.6 mm and min Ø 1.0 mm; length 8 mm.

959KRD and 6847KRD are diamond burs respectively medium grit (107 µm) and coarse grit (151 µm), tapered shoulder with rounded edge (indicated by the code "KR"), the winkle angle is 2°. These burs are suitable for shoulder with internal round shapes and butt joint preparation (adhesive preparations), both have depth marks (indicated by the code "D"), useful in order to determine the depth of the occlusal reduction. Plunging completely the markers the depth is at 2 and 4 mm, but if you enter them at the beginning of the marker the depth is at 1.3 and 3.3 mm.

959KRD is more adequate for second molars and in cases of limited spaces with the opponent dentition, 6847KRD is adequate for harder tissues and materials and where enough space with the opponent dentition is present.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm.

adhes<sup>+</sup>thetics INDIRECT KIT LD 1372





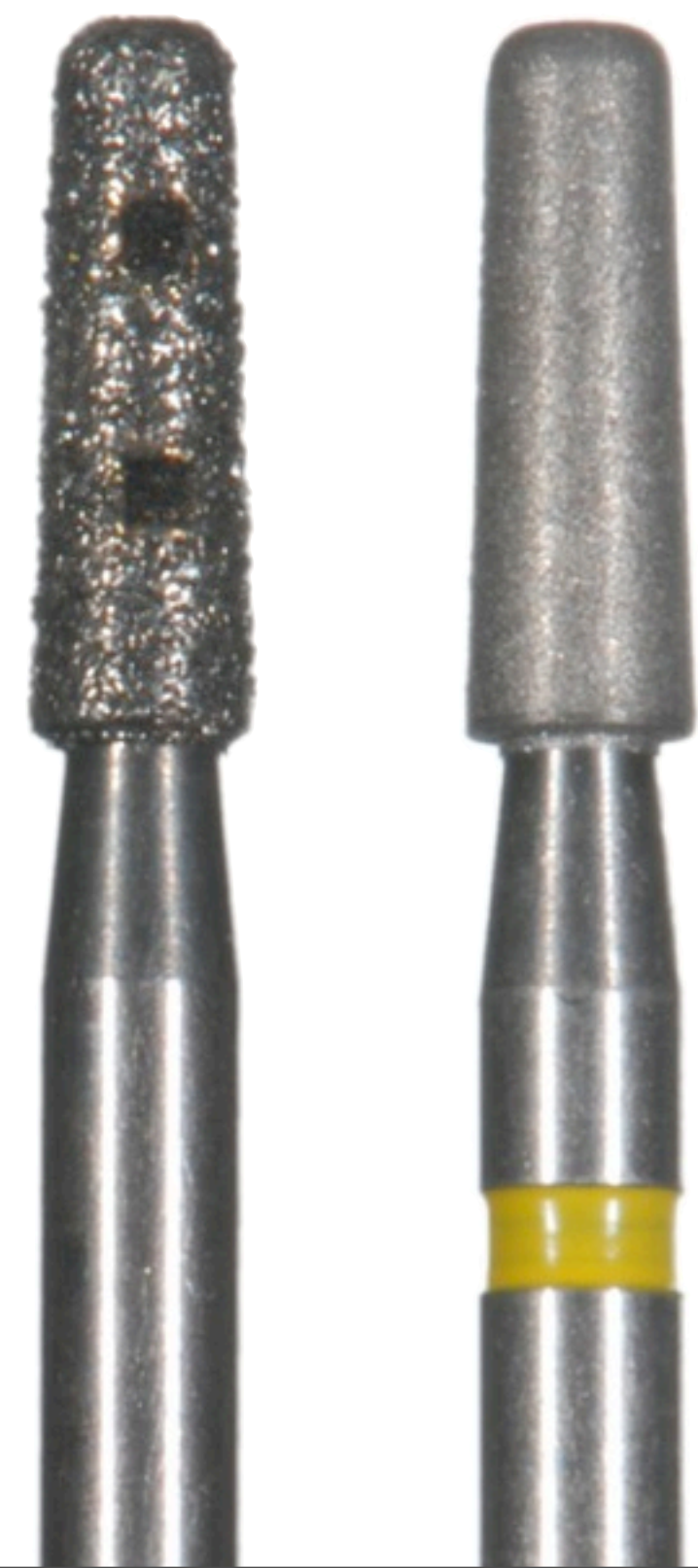
# 959KRD 314 018 & 959KREF 314 018

Occlusal grooves, occlusal reduction and rounded shoulder in buccal and lingual sides. Diamond.

Working head max Ø 1.8 mm and min Ø 1.4 mm; length 6 mm.

These diamond burs with the same shape respectively medium grit (107 µm) and extrafine grit (25 µm), tapered shoulder with rounded edge. The occlusal reduction and preparation is suggested not only on onlays preparations but also for crowns and other partial indirect restorations. These burs are suitable for the first preparation and finishing surface and margins of occlusal plane and palatal and lingual shoulder (entering using half diameter of the bur).

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)-300.000 (max.) min<sup>-1</sup>/rpm for preparation purpose, but for finishing low speed is suggested.



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# 6847KRD 314 016 & 8847KR 314 016 & 847KREF 314 016

The main sequence for onlay preparations and finishing of all sides of the tooth. Diamond. Working head max Ø 1.6 mm and min Ø 1.0 mm; length 8 mm.

These diamond burs respectively coarse grit (151 µm), fine grit (46 µm) and extra fine (25 µm); they have a tapered shoulder with a rounded edge, the winkle angle is 2°. This sequence of burs represents the main one about onlay preparations or any other butt joint and rounded shoulder indirect, thanks to depth marks of 6847KRD, the fine grit for first finishing of 8847KR and the extra fine of 847KREF for the last finishing of the surfaces and margins. The fine grit (red ring) is included to avoid passing directly from the coarse grit (red ring) to extra fine (yellow ring).

Thanks to the 1 mm diameter on the apex, this bur is suitable also for interproximal shoulder preparations, where, after the first preparation of 847 314 012, it is possible to sink all the depth of this sequence burs, usually excluding 6847KRD in this area and proceeding only with the finishing two (fine and extra fine grit).

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm for preparation purpose, but for finishing low speed is suggested (20.000 min<sup>-1</sup>/rpm).



adheesthetics INDIRECT KIT LD 1372





# 847KR 314 012

First preparation shoulder rounded interproximal access. Diamond.  
847KR 012 working head max Ø 1.2 mm and min Ø 0.8 mm; length 8 mm.  
This is a very exclusive diamond bur with medium grit (107 µm) tapered shoulder with rounded edge the winkle angle is 2°. This bur is suitable and very useful for starting preparation in the interproximal area, both for access and preparation of the box.  
Thanks to its size, it is very useful for a conservative approach to the interproximal shoulder, sinking completely the depth of the bur, you will avoid touching the neighboring element; in order to start creating the seat for this bur, it is possible to approach the interproximal area with the pointed bur of this kit, 858 314 010.  
The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.) - 300.000 (max.) min<sup>-1</sup>/rpm.

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# 858 314 010 & 858EF 314 010

Bevel, ultraconservative buccal preparations, interproximal for onlay (access) and laminates (access and preparation too). Diamond. Working head max Ø 1.0 mm and min Ø 0.4 mm; length 8 mm.

These are pointed shape diamond burs with respectively medium grit (107 µm) and extra fine grit (25 µm). These burs are suitable for the sequence of beveling (first preparation and marginal finishing) in each area of the tooth, even interproximal if required. The angulation of the bevel is not predetermined by the shape of the bur, but the inclination is decided by the clinician. These burs are recommended for the phases of ultraconservative preparations and finishings of buccal veneers, especially in the proximal areas.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm for preparation purpose, but for finishing low speed is suggested.

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868B 314 018

Groove maker for ultra conservative laminate preparation. Diamond.  
Groove depth 0.3 mm, maximum Ø 1.8 mm ; length working part 7 mm.  
This bur is depth marker for veneer technique, is a diamond medium grit (107 µm) and its tapered T suitable for cutting depth on a laminate preparation sequence; the groove obtained is 0.3 mm. The length of the working part bur is 7 mm (more compared the average length of an incisor, so is possible to move it in order to have a fourth groove) and the end of its working part is chamfer shaped. This bur is suitable for the preparation directly on the tooth or through the resin mock up.  
The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed 160.000 (opt.) min<sup>-1</sup>/rpm.



# 2979 314 012 & 8979 314 012

Modified chamfer by Domenico Massironi, preparation and finishing. Diamond.  
Working head Ø 1.2 mm; length 9 mm.

2979 012 and 8979 012 are diamond burs chamfer modified shape respectively coarse grit (151 µm) and fine grit (46 µm). These burs are suitable for the sequence of chamfer preparation (first preparation and finishing) for laminates and ultraconservative crowns. The length of the working part is 9 mm. The first preparation with the coarse grit assures to not overheating the surface thanks to the diamond lower friction, being also more effective in the preparation.

In case you want to prepare a veneer with 0.6 mm depth, you can use the 2979 012 to create the vertical guide groove (instead of using the 868B 018 which creates a horizontal groove of 0.3 mm) in the early stages of the preparation.

The FG attachment is for the red ring speed-increasing handpiece (recommended use) and turbine. Speed range 100.000 (opt.)- 300.000 (max.) min<sup>-1</sup>/rpm for preparation purpose, but for finishing low speed is suggested (opt. 20.000 min<sup>-1</sup>).

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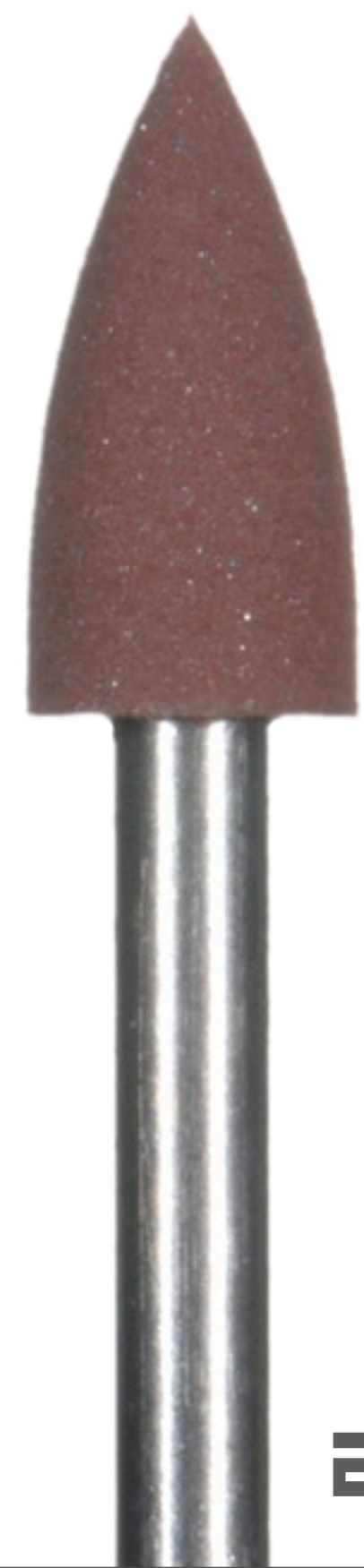




9608 314 030

Universal polishers. Silicon carbide (or so called carborundum) particles. Working head, maximum Ø 3.0 mm.

9608 314 030 is a conical polisher for metal and different surfaces with fine grit (41.5 µm). This polisher must be use with water coolant at a low speed, the attachment is FG (friction grip) suitable for red ring handpiece, and for this reason it may be more interesting to use in the polishing of the preparations; you can adjust the working speed, slightly increasing it, compared to an attack CA polisher. At the end of the finishing preparation phases the surfaces can be smoothed. The FG attachment is for the red ring contra-angle handpiece (recommended use) and is not recommended with turbine. Speed range 6.000 (opt) - 15.000 (max) min<sup>-1</sup>/rpm.





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