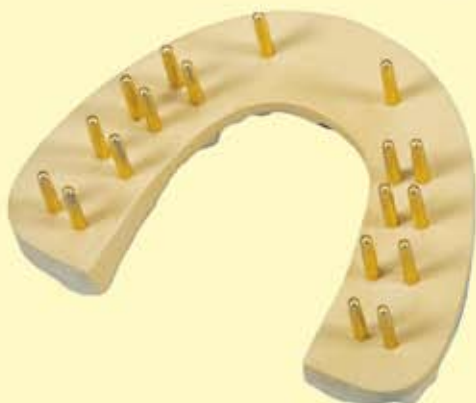


Master-Pin System

The pin system for perfect sawcut models

- diameter of drillhole 1.5 mm
- small drilling depth of only 4.5 mm in the arch
- Boundary line for drilling at the Master-Pin for perfect drilling results
- lateral flattening of the Master-Pin sleeve for pins with small distance to each other
- defined soft friction between Master-Pin and Master-Pin sleeve
- uniform height of model base, since the sleeves are longer than the Master-Pins
- Master-Pin Diatit tungsten carbide drill for constant, precise drilling over long periods



Arches with numerous Master-Pins can be easily removed from the model base



exact and clean model base



professional sawcut models

Master-Pin: a system that simplifies daily production of models

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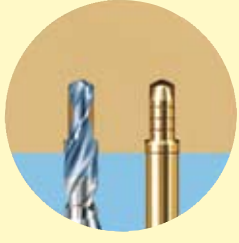
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Master-Pin



The smallest drilling depth of all pins of only 4.5 mm. Advantage: no perforation of the arch during drilling and enhanced stability.



The Master-Pin Diatit tungsten carbide drill is adjusted so that the boundary line for drilling of the pin is exactly on the same level as the basis of the arch.



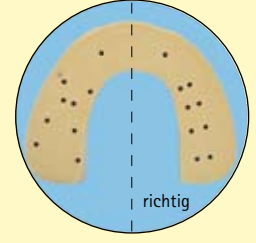
Master-Pin and Master-Pin sleeve can be easily assembled due to the taper and the rounding of the end of the pin.



The optimized glueing tip: the adhesive is spread more uniformly in the drillhole and at the glueing shaft. Advantage: safe hold of the Master-Pin in the die.



A length of only 11.7 mm of the Master-Pin sleeves allows to obtain low sawcut models.



The sleeve rises above the Master-Pin. All Master-Pins can be clearly recognized on the underside of the model.



1 Weigh resp. measure plaster and water to obtain constant results.



2 A thermoforming foil is placed on the impression. Uniform thickness of the arch is obtained.



3 The arch is trimmed to achieve a uniform low height.



4 The correct height of the trimmed arch is essential.



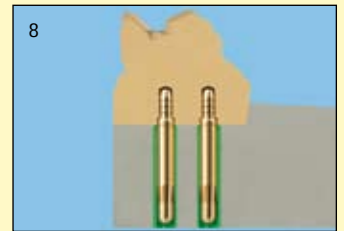
5 The trimmed surface can be optimized with wet grinding paper.



6 The inner surface of the dry arch is ground with a plaster bur slightly conically (6°) toward the base.



7 The drillholes are positioned with the Master-Pin Diatit tungsten carbide



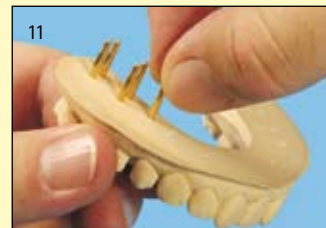
8 Drillholes are prepared- 2 for each die - beginning from the buccal direction:
1. drillhole= center of fissure
2. drillhole=approx. 2-3 mm away toward the palatal or lingual direction.



9 The correct alignment of drillholes in the arch.



10 The upper course of the palatal resp. lingual 6° ground edge is marked with a red pen.



11 The Master-Pins are precisely glued in the drillholes using cyanoacrylic adhesive.

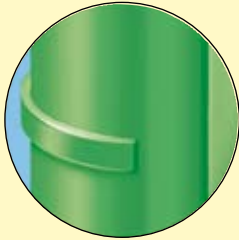


12 Arch with Master-Pins glued in.

Master-Pin sleeve



The funnel-shape design of the Master-Pin sleeve simplifies assembling of die segments and model base.



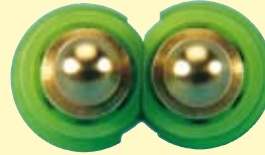
The retentive build-up ensures perfect bonding to the base plaster.



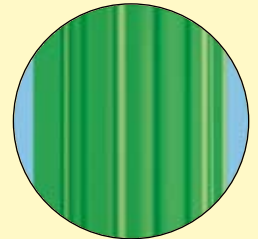
The unilateral flattening of the Master-Pin sleeves serves to protect against twisting and...



... is the perfect solution in case of drillholes with small distance to each other.



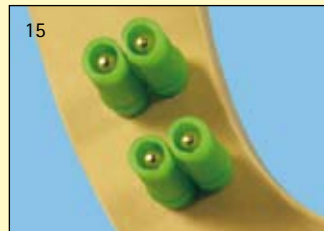
Due to the special surface design of the inner wall of the sleeve, soft friction between Master-Pin and Master-Pin sleeve is achieved whilst ensuring maximum precision and stability.



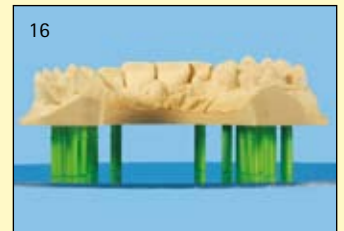
13 The arch as well as the Master-Pins are separated with Master-Sep.



14 The thicker end of the Master-Pin sleeves is put on the Master-Pins.



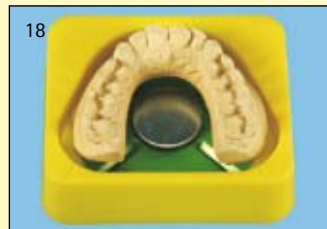
15 Even in case of Master-Pins that have only very little distance to each other, the Master-Pin sleeve can be easily used due to the lateral flattening.



16 The Master-Pin sleeves rise from the Master-Pins by approx. 0.5 mm so that uniform, constant height of the arch is always ensured.



17 The Master-Split system is used to prepare base for the arch.



18 Place the prepared arch into the model former and align it.



19 Base plaster is filled up to 1 mm below the deepest point of the red marking line (fig. 10).



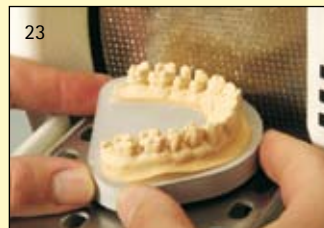
20 After the plaster has hardened, remove the model by pressing it out of the Master-Split model former.



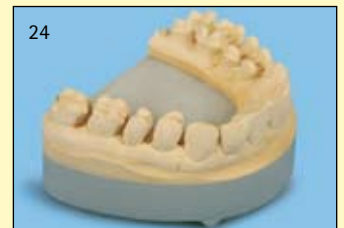
21 The removed model will receive a Split-Cast separation: the Master-Split during the preparation of the arch without any additional work.



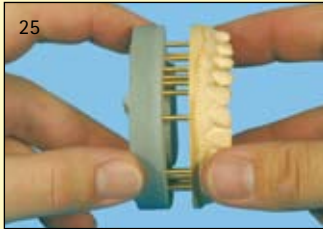
22 Prior to trimming the model, the Master-Split base former is removed.



23 The sawcut model is trimmed to the smallest size possible.



24 The trimmed and dried working model.



25 The arch is removed from the model base towards the pins - parallelly and without tilting.



26 The base of the arch and the model base must be thoroughly cleaned after trimming to ensure high precision and perfect aesthetics.



27 The green Master-Pin sleeves are all on the same level and can be clearly recognized on the underside of the model.



28 The die segments are separated using a Giflex diamond disc.



29 Perfect fit of the working dies on the model base.



30 It is also possible to place interdental Master-Pins that are not glued in.



31 Aesthetically appealing and functional models simplify daily work.



32 A fine and precise dental restoration is created on a fine model.

Master-Pin assortment

200 Master-Pins, 200 Master-Pin sleeves
1 Master-Pin Diatit tungsten carbide bur standard/green 3 mm shaft, 1,5/2
1 working box
Order No. 360 0122 6



Refill package
1000 Master-Pins
1000 Master-Pin sleeves
Order No. 360 0122 5

Master-Sep

Special insulating liquid plaster against plaster
Plaster results are obtained in conjunction with the Master-Pins.
200 ml
Order No. 520 0029 0

Special insulating liquid plaster with optimal separating effect for sawcut models.
Arch and base can be separated perfectly.
A soft gliding layer is obtained by wetting the pins.



Master-Pin-Diatit tungsten carbide step drill standard/green

3 mm shaft, 1.5/2, 1 piece
Order No. 360 0119 2



Master-Pin-Diatit tungsten carbide step drill special/yellow

3 mm shaft, 1.5/2, 1 piece
Order No. 360 0119 3



If gluing in of the Master-Pin is too difficult, the special/yellow Master-Pin-Diatit tungsten carbide drill can be used to prepare a larger drillhole. The diameter of this drill is 0.1 larger than the one of the standard/green Master-Pin-Diatit tungsten carbide drill.

Master-Pin-Diatit tungsten carbide step drill special/red

3 mm shaft, 1.5/2, 1 piece
Order No. 360 0119 4



If the drilled hole is too large to receive the Master-Pin, the special/red Master-Pin-Diatit tungsten carbide drill can be used to prepare a smaller drillhole. The diameter of this drill is 0.01 mm smaller than the one of the standard/green Master-Pin-Diatit tungsten carbide drill.

Master-Model system

Each component can be processed individually and combined with systems of work preparation already used in the laboratory.

Master-Pin/Master-Pin sleeve/Master-Pin Diatit tungsten carbide step drill

- only 4,5 mm drilling depth in the arch - thus no perforation in the area of the die and the pontic
- the optimized glueing tip allows clean and uniform glueing with increased retention force
- perfect friction for pleasant working - individual dies can be easily removed and placed back
- only one pin size for all options

Master-Split base former/Master-Split model former in three sizes

- the universal model fabrication system
- limited number of parts - clearly-arranged, practical and favourably priced
- only one Master-Split base former in combination with three different sizes of Master-Split model formers for all possible model situations

Master-Sep

- perfect insulation and separation between arch and model base
- improves and optimizes the friction of metal pins and plastic sleeves
- uniform application with a brush

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