



+ Dolder® System.

The original and complete bar system
for modern restorations.

Dolder® System

Adjustable bar attachment and resilient bar for removable prosthetics

Characteristics

- The **original** designed by **Prof. Dr E. Dolder**
- Proven on the basis of many years' **clinical experience**
- **The standard** for implant supported bar restorations
- Extremely reliable stabilizing and splinting effect

Processing advantages

- **Large range** of materials and designs allows **greater flexibility with implant restorations!**
- **Time-saving** and **reliable** pre-fabricated male parts in gold or pure titanium, which are connected to the primary unit by soldering or laser welding
- Good value male parts in high quality plastic
- Choice of two sizes **micro + macro**
- **Maximum friction surfaces** by customized adjustment of the lengths

Clinical advantages

- A recess in the milled female parts makes for a perfect fit and guarantees durable functioning. As a result, there is a noticeable slight snap action with the resilient bar.
- Bar-retained restoration enables safe **immediate loading of implants**. Please observe the implant manufacturer's instructions for use.
- **Splints** and **stabilizes** weak abutment teeth
- **Wide range of materials** for the male parts
- Maximum, **long-lasting friction** due to optimally coordinated materials of the prefabricated parts

Indication

- Removable dentures
 - Implant-supported dentures
 - Coverdentures
- Dolder® Bar Attachment**
Tooth- and tooth/gingival supported dentures (with preferably 3 or more abutments available):
 - Interdental (insertion) dentures,
 - Partial dentures
- Dolder® Resilient Bar**
Tooth/gingival supported resilient dentures (placed primarily in upper and lower anterior regions):

Contraindication

- Unilateral dentures without transverse support.
- Restoration of abutment teeth with severe periodontal damage.
- Hybrid dentures which are fitted with a single root cap.
- Where patients have an existing allergy to one or more elements of the attachment materials.
- Unwillingness of the patient to correctly follow the aftercare/recall instructions.
- Patients with bruxism or further uncontrolled para-functional habits.

Description of the Dolder® system

Bar-retained, removable restorations are among the most tried and tested forms of prosthetic treatment both experimentally and clinically and their relevance has increased due to advances in **implantology**.

The Dolder® system, which includes the **Dolder® bar attachment** and the **Dolder® resilient bar**, is based on the successful Dolder® design and now includes new components to cater for market demands.

Materials

Dolder® male parts:

E = Elitor®, warm straightened, high-grade, tough, yellow precious metal alloy. After soldering/laser welding the work must be hardened to attain the best mechanical properties.

T = Pure titanium

K = Korak, plastic for the casting technique that burns out.

Dolder® female parts:

E = Elitor®, warm straightened, high-grade, tough, yellow precious metal alloy.

D = Doral

T = Pure titanium

G = Galak, for friction inserts, orally stable plastic (just as a spare part).

«Standard»: **Horizontal positioning of retention**. This is the well-tried design and is used primarily where there is little space available occlusally.

Setting the retention force

Female part with adjustable lamella

The retention force can be individually and accurately set using the Dolder® activator or deactivator. **The posterior lamella, which is subjected to greater loading, is activated. The anterior lamella acts as a guide surface.**

Limitation of use

Unilateral dentures without a transversal connector

Use of the bar attachment titanium female part with plastic inserts on the resilient bar. This can lead to increased wear and tear because of the amount of free play.



Bar attachment on 4 implants

Female parts «Standard»:



Execution in Elitor® (E)

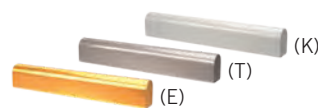


Execution in Doral (D)

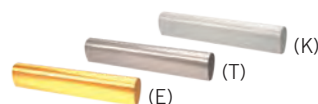


Execution in pure titanium (T)

Available male parts:
Bar attachment:



Resilient bar:



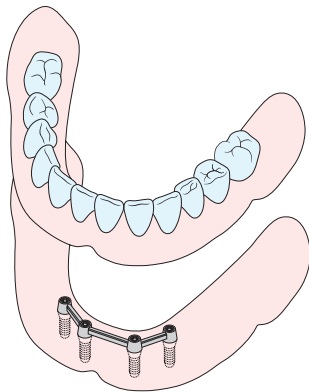
The products carry the CE Mark.
See packaging for details.
For further instructions, warnings and for precautions please refer to the instructions for use.

Condition for correct processing

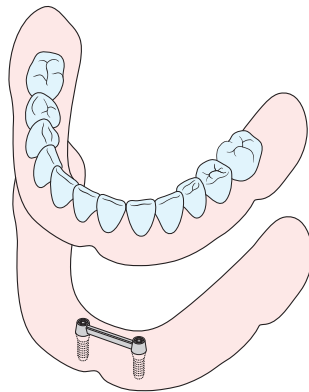
Simple parallelometer apparatus for placement of the male part
The **resilient bar** can be placed without using a parallelometer depending on the oral situation.

Additional information

When there is the option of using either size, i.e. **micro** or **macro**, the larger version should be used if there is adequate space.



Example of use bar attachment



Example of use resilient bar



Reducing the female part



Fig. 1
A patent-protected recess in the milled female parts makes for a perfect fit, prevents spring effects when strongly activated and guarantees durable functioning. As a result, there is a noticeable slight snap action with the resilient bar.

Space-saving in any situation!

«Standard»

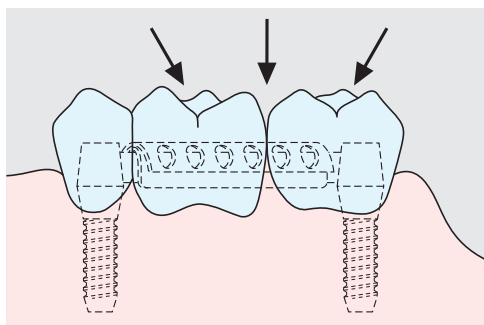


Fig. 2
The «Standard» design optimizes shaping of the occlusion. The two concepts can be combined.

Dolder® bar attachment

Combinations

Implants, tooth-borne and tooth-tissue-borne restorations

Examples:

- Implant-borne restorations (immediate loading)
- Bounded saddle dentures, partial dentures and overdentures especially with very weak abutment teeth

Combinations chart:

		Male parts		
Female parts	micro + macro			
		micro + macro	micro + macro	micro + macro
		micro + macro	micro + macro	micro + macro
		micro + macro	micro + macro	micro + macro

Legend: ■ ideal combination ■ recommended

Dolder® resilient bar

Initial situation: The more advanced tooth loss is and with no possibility of increasing the number of abutments with implants, the more valuable each tooth becomes as a retentive unit for the denture. To relieve the stress on the canines, the teeth most likely to survive, the retentive mechanism is transferred from the tooth to the egg-shaped bar connector with three paths of movement (vertical translation, sagittal and anterior rotation). In many cases tooth loss can be delayed for years if the periodontal conditions are optimal.

Combinations

Tooth-tissue-borne resilient bar dentures

Used primarily in the anterior region of the mandible and in rare cases in the maxilla

Examples:

- Implant-borne restorations
- Overdentures
- With a residual dentition

Combinations chart:

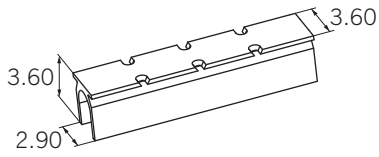
		Male parts		
Female parts	micro + macro			
		micro + macro	micro + macro	micro + macro
		micro + macro	micro + macro	micro + macro
		micro + macro	micro + macro	micro + macro

Legend: ■ ideal combination ■ recommended

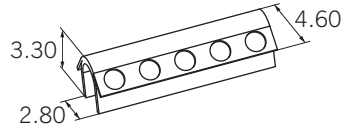
Dolder® System

Bar attachment

Female part **macro**

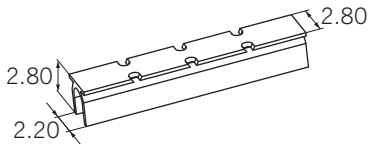


Standard (T)

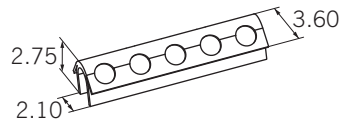


Standard (E and D)

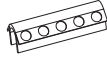
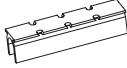
Female part **micro**



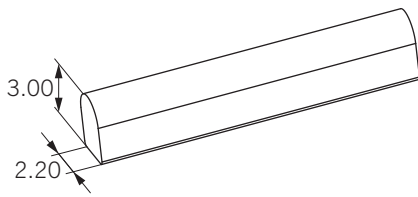
Standard (T)



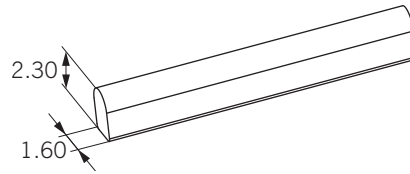
Standard (E and D)

1:1	Female part	Order No.		Material	Lengths (mm)	Description
		macro	micro			
	054 747	054 746	E	L25	Standard For polymerization into denture resin or metal framework (no soldering). Adjustable	
	052 046	052 043	E	L50		
	0500 1125	0500 1201	D	L50		
	0500 0681	0500 0680	T	L47.5	Standard For polymerization into denture resin or metal framework (no soldering). Adjustable	

Bar attachment Male part macro



Male part micro



Profile



1:1	Male part	Order No.		Material	Lengths (mm)	Description
		macro	micro			
	052053	05000289	E	L50	For soldering and laser welding to cast root caps or between crowns, bridges, implants or screw-retained attachments	
	05000571	05000285	T	L200	For laser welding to retaining cores in titanium	
	05000559	05000266	K	L75	Performed part. Delivery unit: package of two	
	01000081		Wire T for laser welding		Pure titanium wire \varnothing 0.40 mm round, roll of 2 m	

1:3		Order No.	Auxiliary instruments	Description
	070143	Parallelometer insert micro		
	070144	Parallelometer insert macro		
	07000034	Insert-positioner micro	For insertion of inserts	

1:3		Order No.	Auxiliary instruments	Description
	070347	Tweezers	For extraction of inserts	

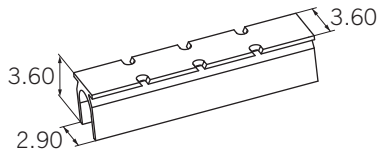
1:3		Order No.	Auxiliary parts	Description
	070171	Transfer jig micro L50		
	070173	Transfer jig macro L50		

1:3		Order No.	Auxiliary instruments	Description
	070198	Activator set	For female parts E/D/T	
	070200	Desactivator micro	For female parts E/D/T	
	070201	Desactivator macro		

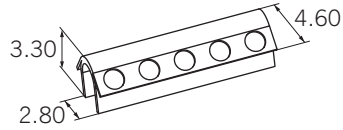
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Resilient bar

Female part **macro**

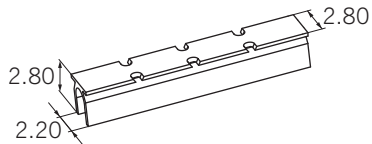


Standard (T)

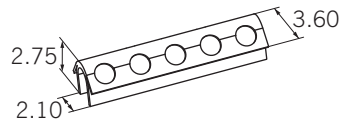


Standard (E and D)

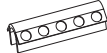
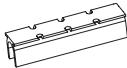
Female part **micro**



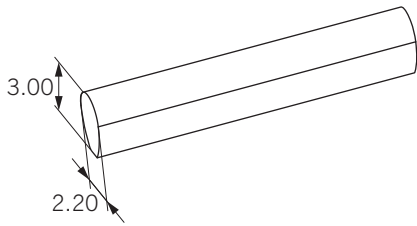
Standard (T)



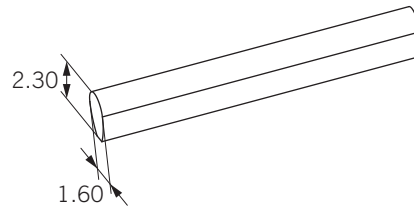
Standard (E and D)

1:1	Female part	Order No.		Material	Lengths (mm)	Description
		macro	micro			
	054 747	054 746	E	L25	Standard For polymerization into denture resin or metal framework (no soldering). Adjustable	
	052 046	052 043	E	L50		
	0500 1125	0500 1201	D	L50		
	0500 0681	0500 0680	T	L47.5	Standard For polymerization into denture resin or metal framework (no soldering). Adjustable	

Resilient bar
Male part macro






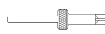
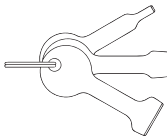
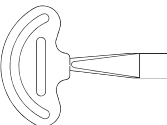


Male part micro



Profile



1:1	Male part	Order No.		Material	Lengths (mm)	Description
		macro	micro			
		052 061	052 057	E	L50	For soldering and laser welding to cast root caps or between crowns, bridges, implants or screw-retained attachments
		05000575	05000573	T	L200	For laser welding to retaining cores in titanium
		05000563	05000561	K	L75	Performed part. Delivery unit: package of two
		01000081		Wire T for laser welding		Pure titanium wire Ø 0.40mm round, roll of 2 m
1:3		Order No.		Auxiliary parts	Description	
		052 080		Spacer micro 50x0.75 mm	Brass, ensures vertical resilience. Mount between female part and bar during polymerization	
		052 081		spacer macro 50x1.05 mm	Is automatically supplied when ordering the bar	
		070 171		Transfer jig micro L50		
		070 173		Transfer jig macro L50		
1:3		Auxiliary instruments				
		072 515		Parallelometer insert micro		
		072 517		Parallelometer insert macro		
1:3		070 198		Activator set	For female parts E/D/T	
		070 200		Desactivator micro	For female parts E/D/T	
		070 201		Desactivator macro		

