

# SPEED UP PRODUCTION

## metacon

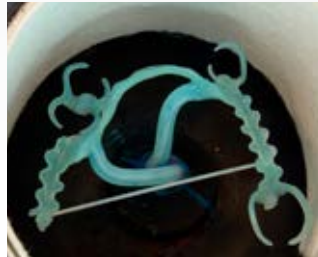
the light cured WAX

the very unique chemical formula of the Metacon wax ideally combines waxes, acrylics and photo-polymerising elements. Thus the material handles like wax before - and like acrylic after light curing

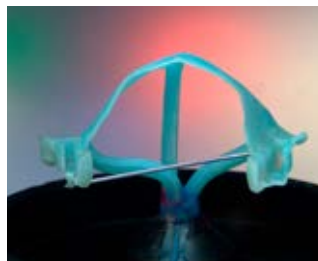
# metaconSystem



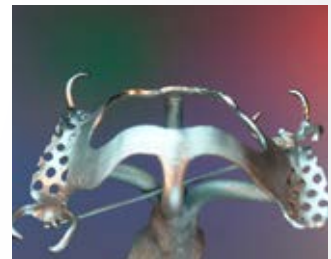
lower partial with clasps



upper combined case



upper partial with clasps



crown and bridgework



pressable ceramics



repairs, i.e. broken clasp



## uses

**the full range of dental applications, such as:**

- combination cases with attachments
- partial dentures with clasps
- full upper palate plates
- crown and bridge restorations
- implant bars and implant bridges
- modellations for pressable ceramics

**without duplicating material and refractory model**



## advantages

- eliminates refractory models
- no need for duplicating materials
- more precise than conventional waxing methods
- substantial time and cost saving
- handles like wax before it is cured
- after it is cured, it handles like acrylic
- does not show any shrinkage or distortion after curing
- the material is strong yet flexible
- polymerized Metacon wax has a physical memory
- can be trimmed before investing
- burns out cleanly and completely
- does not expand in the ring
- available as modelling wax and as preformed patterns

- **metalight**  
light curing units  
mini and trend (from left to right)  
more information on page 11



## technical tips

For best temperature control rather wax up with an electric wax spatula than with an instrument and Bunsen burner. Alternatively Metacon can be kneaded “cold” as it offers perfect modelling consistency just slightly above room temperature. This method is even more productive.

To easily lift partials off the model after light curing always use the Metacon system separators and follow the instructions.

Do not try to wax up all details. It is much more productive to light cure the material first, then create the final shape details in the acrylic stage with grinding tools.

For best results always light cure the material in primotec’s metalight curing units. Do not use any light curing units that generate heat inside the curing chamber and/ or any strobe lights.

## science

The Metacon light cured wax is a unique chemical composition of cracked carbon chains (acrylic) with photo initiators attached to both ends of the carbon chain pieces. These conditioned acrylic parts

are then mixed with specially formulated waxes. Metawax modelling wax and Metaform preformed wax patterns are chemically equal but have a different density.



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## working procedure



1 after survey, design and block out apply the Metaseal separator



2 Metaform preformed patterns are available as clasps, stipple sheets, retentions, bars, etc.



3 for perfect adaptation the Metavac device is used



4 after light curing to acrylic the Metacon material can be trimmed



5 wax up completed, ready for sprueing and investing



6 when using the Metaring investing system three partials can easily be cast in one ring



7 for best fitting the investment material expansion needs to be adjusted 10 % up



8 three partials, one button and minimum investment material used



# metaconSystem

## publications

- **There are simpler ways ...**  
by Joachim Mosch CDT  
and Andreas Hoffmann MDT  
published in Spectrum Dialogue  
Vol.8 No.9
- **The Metacon System – Part 1/2**  
by Bettina Cortés CDT  
published in Spectrum Dialogue  
Vol.6 No.8 & Vol.6 No.9
- **Distortion Free Modeling Using the “cold”  
Technique – Heat-free-modeling**  
by Joachim Mosch, CDT and  
Andreas Hoffmann, MDT  
Published in Spectrum Dialogue  
Vol. 9 No. 2

Find these and more publications as well as the Material Safety Data Sheets (MSDS) under [www.primogroup.de](http://www.primogroup.de) or call primotec Germany at +49(0) 61 72 - 99 770 - 0 for your free printed copy.

## training courses

- **MetaconSystem – Partial dentures made easy**  
In this course learn how to fabricate partial dentures on the master model without needing to make a refractory model or use duplicating materials.
- **MetaconSystem – Implants made easy**  
In this course learn how to fabricate single unit to full arch implant cases easily, precisely and quickly using Metacon light cured wax.

On a regular basis, various metaconSystem training courses are organized in primotec's teaching facilities in Germany and in the USA. In addition, many primotec distribution partners worldwide offer different courses with their domestic specialists. For more information, please contact primotec Germany or call your local primotec partner.

[www.primogroup.de](http://www.primogroup.de)






# ORDERING INFO

## metaconSystem – Starter Sets and Kits

Item #	Item
<p>MC Starter Set M</p> 	<p><b>metaconSystem Starter Set M</b></p> <p>ML120: metalight mini - light curing device with cooling system            IM200: Metatouch - finger and instrument separator (43 g)            IM300: Metaseal - stone model and die separator (43 g)            MW100: Metawax - modeling wax (20 g)            Metaform sprues - 3.5 mm (6 pieces)            Metaform round bars - 6 mm (3 pcs)            Metaform smooth sheet - 0.55 x 67 x 130 mm (1 sheet)</p>
<p>MC Starter Set T</p> 	<p><b>metaconSystem Starter Set T</b></p> <p>ML110: metalight trend - light curing device with cooling system            IM200: Metatouch - finger and instrument separator (43 g)            IM300: Metaseal - stone model and die separator (43 g)            MW100: Metawax - modeling wax (20 g)            Metaform sprues - 3.5 mm (6 pieces)            Metaform round bars - 6 mm (3 pcs)            Metaform smooth sheet - 0.55 x 67 x 130 mm (1 sheet)</p>
<p>MC Starter Set Basic</p> 	<p><b>metaconSystem Starter Set Basic</b></p> <p>BP300: Metaform lingual bar straight drop shape (8 g)            GK300: Metaform sprues - 3.5 mm (10 g)            KP100: Metaform premolar clasp (1 sheet)            PP301: Metaform stipple sheet – 0,55 x 67 x 130 mm (1 sheets)            RP200: Metaform mesh retentions (1 piece)            RP400: Metaform retention hole shape (1 piece)            IM200: Metatouch - finger and instrument separator (43 g)            IM300: Metaseal - stone model and die separator (43 g)</p>
<p>KB-KIT</p> 	<p><b>Crown and Bridge base kit</b></p> <p>IM200: Metatouch - finger and instrument separator (43 g)            IM300: Metaseal - stone model and die separator (43 g)            GK300: Metaform sprues - 3.5 mm (53 g)            GK400: Metaform round bars - 6 mm (60 g)            MW100: Metawax - modeling wax (20 g)            PP151: Metaform smooth sheet - 0.55 x 67 x 130 mm (6 sheets)</p>
<p>MG-KIT</p> 	<p><b>Partials &amp; Full Plate base kit</b></p> <p>BP300: Metaform lingual bar straight drop shape (40 g)            IM200: Metatouch - finger and instrument separator (43 g)            IM300: Metaseal - stone model and die separator (43 g)            GK300: Metaform sprue sticks round - 3,5 mm (53 g)            KP100: Metaform premolar clasp (4 sheets, 80 pieces)            PP301: Metaform stipple sheet – 0,55 x 67 x 130 mm (6 sheets)            RP200: Metaform mesh retentions (6 sheets, 5 pieces)            RP400: Metaform retention hole shape (5 sheets, 45 pieces)            VB100: Metabond - connecting bonder (10 ml)</p>
<p>TZ-KIT</p> 	<p><b>Vacuum-Suction kit</b></p> <p>KD100: Metatex - latex covers (1 pack, 36 pieces)            MG100: Metagran - clear acrylic grains (120 g)            MP100: Metapump - hand vacuum pump            MV100: Metavac - vacuum-suction device</p> <p>not suitable for metalight mini</p>

# ORDERING INFO




## metaconSystem preformed patterns

Item #	Item
<b>Clasps</b>	
	
KP100	<b>Metaform premolar clasp</b> (4 sheets, 80 pieces)
KP500	<b>Metaform straight clasp medium</b> (5 sheets, 180 pieces)
<b>Sheets</b>	
	
PP301	<b>Metaform stipple sheet</b> – 0,55 x 67 x 130 mm (6 sheets)
PP401	<b>Metaform stipple sheet</b> – 0,65 x 67 x 130 mm (6 sheets)
PP305	<b>Metaform rougher stipple sheet</b> – 0,55 x 67 x 130 mm (6 sheets)
PP405	<b>Metaform rougher stipple sheet</b> – 0,65 x 67 x 130 mm (6 sheets)
PP151	<b>Metaform smooth sheet</b> – 0,55 x 67 x 130 mm (6 sheets)
PP251	<b>Metaform smooth sheet</b> – 0,80 x 67 x 130 mm (6 sheets)
<b>Lingual bars</b>	
	
BP100	<b>Metaform lingual bar swung</b> (5 sheets, 40 pieces)
BP300	<b>Metaform lingual bar straight drop shape</b> (40 g)
BP400	<b>Metaform lingual bar straight trapezium shape</b> (40 g)












# ORDERING INFO

## metaconSystem preformed patterns

Item #	Item
<b>Retentions</b> 	
RP100	<b>Metaform mesh retention for toothless jaws</b> (5 sheets, 10 pieces)
RP200	<b>Metaform mesh retentions</b> (6 sheets, 6 pieces)
RP350	<b>Metaform double comb shape retention</b> (5 sheets, 40 pieces)
RP400	<b>Metaform retention hole shape</b> (5 sheets, 45 pieces)
<b>Sprues</b> 	
GK100	<b>Metaform sprue sticks round</b> – 1,5 mm (15 g)
GK200	<b>Metaform sprue sticks round</b> – 2,5 mm (30 g)
GK300	<b>Metaform sprue sticks round</b> – 3,5 mm (53 g)
<b>Rods and half round sticks</b> 	
GK400	<b>Metaform rods</b> – 6 mm (60 g)
GK500	<b>Metaform half round sticks</b> – 1,6 mm (16 g)
GK600	<b>Metaform half round sticks</b> – 2,2 mm (22 g)

# ORDERING INFO

## metaconSystem peripherals

Item #	Item
MW100 	<b>Metawax</b> modelling wax (20 g)
IM200 	<b>Metatouch</b> finger and instrument separator (43 g)
IM300 	<b>Metaseal</b> stone model and die separator (43 g)
VB100 	<b>Metabond</b> connecting bonder (10 ml)
ES100 	<b>Metacool</b> ice spray (two cans at 150 ml each)
MV100 	<b>Metavac</b> vacuum-suction device
MP100 	<b>Metapump</b> hand vacuum pump
MG100 	<b>Metagran</b> clear acrylic grains (120 g)
KD100 	<b>Metatex latex covers</b> latex covers (36 pieces)

## distortion free light curing units

innovative cooling system for stress free light curing

### metalight mini

Metalight mini – is the smallest and most cost effective Metalight model. It is optimal for use directly at the work bench, which increases efficiency and avoids wait times at the central laboratory light curing unit. The chamber accommodates up to two stone models.

### metalight trend

Metalight trend – is more spacious than the Metalight mini and is equipped with an push button operating panel.

There are three easy touch buttons for 5, 10 and 15 minute polymerization cycles. The chamber provides sufficient space for the metavac suction device, up to 4 models and taller models with plaster bases.

## ORDERING INFO

Item #	Item
ML120 	<b>metalight mini</b> Broadband light curing device with cooling system <ul style="list-style-type: none"> <li>· two UV special lamps</li> <li>· UV spectrum: 320 nm - 500 nm</li> <li>· 230/115 V / 50 Hz</li> <li>· Dimensions: L=310mm, Ø=120 mm, H=162 mm</li> <li>· Internal dimensions: L=150 mm, W=90 mm, H=60 mm to 35 mm</li> <li>· Weight: 2.7 kg</li> </ul>
ML110 	<b>metalight trend</b> Broadband light curing device with cooling system <ul style="list-style-type: none"> <li>· three adjustable polymerization times</li> <li>· four UV special lamps</li> <li>· UV spectrum: 320 nm - 500 nm</li> <li>· 230/115 V / 50 Hz</li> <li>· Dimensions: L=330 mm, Ø=180 mm, H=230 mm</li> <li>· Internal dimensions: L=160 mm, W=124 mm, H=120 mm to 80 mm</li> <li>· Weight: 4.3kg</li> </ul>
ML800 	<b>metalight UV-lamp 9 W/78/G23</b> Spectral range 320 to 400 nm
ML801 	<b>metalight UV-lamp 9 W/71/G23</b> Spectral range 400 to 500 nm

## speed up production

the Metacon light cured wax system offers substantial quality and time saving benefits for the full range of dental applications



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