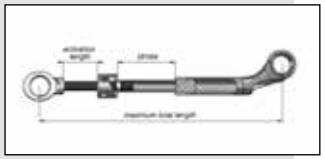
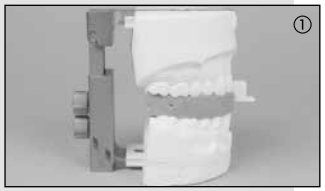
Intraoral Snoring-Therapy-Appliance

IST®-Appliance

Instruction manual













For best IST®-Appliance fabrication results, have the following materials available:

- Upper jaw model
- Lower jaw model
- Duplications of upper/lower models (for pressure moulding process)
- GEORGE GAUGE™ bite registration (REF 5471) or Bite Fix® bite registration (REF 5474) (REF 5492) (REF 5503)
- Construction bite or bite registration after adjusted forward position of the lower jaw and vertical increase of occlusion (minimum 5 mm)
- IST®-Appliance Kit HF 9
- Positioning support for IST-fixing parts (REF 5469)
- SIL-KITT, transparent (REF 3443) or SIL-KITT, red (REF 3442)
- Finishing-Set (REF 3378)
- SCHEU-Anchor 0.8 mm Ø (REF 2050)
- Alastik chain without link, clear (smile-dental REF 03-0112)
- Silicone protection tube for fixing elements

For a most accurate adaptation of DURAN® splint material, we recommend using a positive pressure moulding machine like the BIOSTAR® or MINISTAR® S.

	Minimum length	Maximum length	Stroke	Length to be activated	4 x 1/4
Telescope HF 5	20 mm	28 mm	5 mm	3 mm	0.25 mm
Telescope HF 9	25 mm	39 mm	9 mm	5 mm	0.25 mm
Telescope HF 15	31 mm	51 mm	15 mm	5 mm	0.25 mm

Articulate upper and lower jaw in accordance with the construction bite, using e.g. the GEORGE GAUGE™ bite fork 5 mm, large (REF 5462).
We recommend using the Hinge Fixator (REF 5374) or a semi-adjustable articulator (s. pic.①).

Block-out undercuts on duplicates such as bridge constructions, interdental space or interdental gaps with e.g. SIL-KITT (REF 3443/REF 3442).

Trim model bases flat and place them individually on the platform of the pressure moulding machine. Set code resp. heat the ISOFOLAN® foil according to the instructions. The foil is used as a spacer and for insulation (plaster/resin).

When the ISOFOLAN® foil has cooled, cut it with a scalpel along the model rim. Cut small incisions interdentally/occlusally to avoid air bubbles.

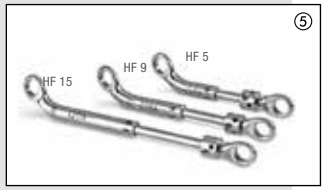
Embed upper and lower casts with ISOFOLAN® individually into the pellets of the pressure moulding device. Scan or set code resp. heat DURAN® 2,0 mm according to the instructions (s. pic.②).

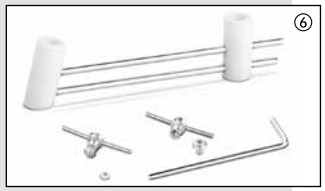
After the cooling time has finished, cut the splint radially from the edges inwards by means of the finishing set (HM burs, cutting burs, tricutter fine), then cut only roughly.

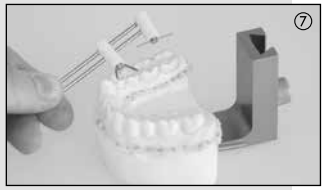
Remove foil from the model and finish splint only after polymerisation (s. pic.③).

Fix the individual position and mark the insertion points of the four IST®-fixing parts and of the 4 SCHEU anchors for fixing the Alastik chains. The fixing points of the upper jaw are vestibular/interocclusal in the area of the molars, in the lower jaw vestibular/interocclusal in the area of the premolars (s. pic.④).

It may be neccessary to adapt the retentions in accordance with teeth and denture position.

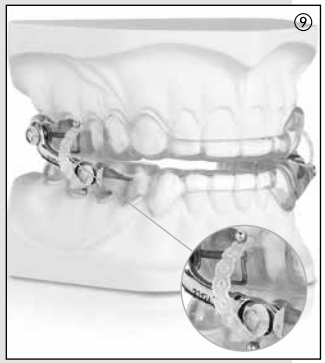








Example for HF 5



For professional use only!
We expressly disclaim any liability in case of changes regarding dimensions, size and design of our products.

⚠ Safety Instructions:

Product contains nickel. Make sure not to use product in case of allergic reactions.
For composition, please visit https://www.scheu-dental.com/en/download-center

The marked fixing points will determine which telescope (HF 5/HF 9/HF 15) to use. We recommend activating the threads already prior to insertion (HF 5: 1mm, HF 9/HF 15: 2 mm). The eye of the thread rod has to be fixed by means of flat pliers and the protrusion nut should be activated with the activating key (+). Doing so, retrusion is possible, should one be necessary during treatment (s. pic.⑤).
In order to guarantee the largest possible lateral movements we recommend to use the position support for the IST®-fixing parts. It provides exact angle position in accordance to the 12° angulation of the telescopes (s. pic.⑤).
Press the IST® fixing parts into the teflon hull, move the straight hull to the desired length (HF 5, HF 9, HF 15) and bring it into a parallel position (s. pic.⑥).
The fixing spots/surface area on the DURAN® splints will be roughened generously. Heat the angled retentions of the fixing parts carefully by means of a pointed flame and melt into the prepared splint (s. pic. ⑦).
We recommend using the silicone protection tube to protect the IST® fixing elements during polymerization. Then proceed with definite fixing and building up the splints by applying the transparent cold cure resin DURASPLINT®, creating plane interocclusal surfaces.
Finishing of the surfaces and rims is done by means of the finishing set, then proceed with polishing.
In case of using the fixing elements with hexagon socket screw make sure to secure the screw with SD Cyano Veneer Fast.
Hooking the Alastik chains on the right and left, will increase the efficiency and avoid any opening movement while sleeping (s. pic.⑧).
Check both the upper and lower splints of the IST®-Appliance for proper fit and function (s. pic. ⑨).
Important: Avoid activation exceeding the values indicated in the chart. Upon reaching the maximum protrusion adjustment, switch to the next larger telescope.
Hint: To be used only for the above indication and by qualified personnel. For single use. Serious incidents in connection with
the use of the product must be reported immediately to the manufacturer and the competent authority!

Delivery Program:

Telescope HF 5	1 pair	#5449
Telescope HF 9	1 pair	#5454
Telescope HF 15	1 pair	#5444
Kit HF 9 incl. 2 telescopes, 4 DURAN® (2.0 mm), 4 ISOFOLAN®, DURASPLINT® resin, 4 fastening elements with O-ring, 4 SCHEU-anchor, Alastik chain, silicone tube, security key, SD box for patient, occlusion trainer, 2 CETRON® cleansing powder bags of 15 g, instructions and patient information.	1 kit	#5461
O-rings for IST®-fixing elements	10 pcs.	5466
Fixing elements for IST®-Appliance with o-rings	4 pcs.	5468
Positioning support for IST®-fixing elements	1 pc.	5469
Fixing elements for IST® / Herbst appliances, with hexagon socket screw	4 pcs.	5457
GEORGE GAUGE™ Bite Registration Kit incl. 3 bite forks	1 set	5471
GEORGE GAUGE™ bite fork 5 mm, small	10 pcs.	5473
GEORGE GAUGE™ bite fork 5 mm, large	10 pcs.	5462
Bite Fix® bite registration	1 pc.	5474
Bite Fix® bite forks	10 pcs.	5475
Bite Fix® Scan bite registration	1 pc.	5492
Bite Fix® Scan bite forks	10 pcs.	5493
Bite Fix® One bite registration	1 pc.	5503
Safety Key	1 pc.	2100
SIL-KITT, transparent	150 g	3443
SIL-KITT, red	150 g	3442
SCHEU Anchor (ball clasps) Ø 0,8 mm	10 pcs.	2050
Alastik chain without link, clear (smile-dental)	1 pc.	03-0112
CA® Cyano Veneer Fast	1 pc.	3701

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