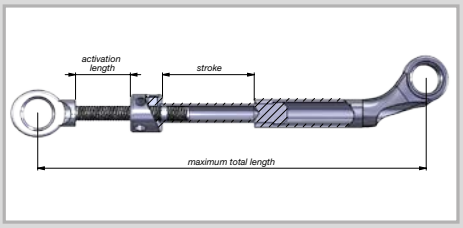
IST®-Appliance
Instruction manual



For best fabrication results, make sure to have the following materials available:

- Upper jaw model
- Lower jaw model
- Duplications of upper/lower models (for pressure moulding processes)
- GEORGE GAUGE™ bite registration (REF 5471) or Bite Fix® bite registration (REF 5474)
- Construction bite or bite registration after adjusted protrusion of the lower jaw and vertical increase of occlusion (minimum 5 mm)
- IST® Kit HF 9
- Positioning aid for fastening elements for IST® appliance (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, transparent (smile-dental REF 03-0112)
- Silicone protection tube for fastening elements (REF 5443)

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

Description	Minimum length	Maximum length	Stroke	Length to be activated	REF	4 x 1/4
TELESCOPE HF 5	20 mm	28 mm	5 mm	3 mm	1 pair 5449	0.25 mm
TELESCOPE HF 9	25 mm	39 mm	9 mm	5 mm	1 pair 5454	0.25 mm
TELESCOPE HF 15	31 mm	51 mm	15 mm	5 mm	1 pair 5444	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).

Once the cooling phase of ISOFOLAN® has elapsed, cut it with a scalpel along the model rim. Make small interdental and occlusal incisions to avoid air bubbles.

Embed upper and lower casts with ISOFOLAN® individually into the pellets of the pressure moulding device. Scan or set code and 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 carbide cutter, cutting bur, tricutter fine), then cut only roughly.

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

SCHEU Dental Technology

Example for HF 5

Example for HF 5

Fix the individual position and mark the insertion points of the four IST® fastening elements and of the 4 SCHEU-anchors for attaching the Alastik chains. The vestibular/interocclusal fixing points in the upper jaw are in the area of the molars and in the lower jaw in the area of the premolars (s. pic. ④). It may be neccessary to adapt the retentions in accordance with the individual tooth form and occlusion.

The marked fixing points will determine which telescope (HF 5 / HF 9 / HF 15) to use. We recommend activating the threads approx. 2 mm already prior to insertion. 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 (+). This procedure also allows for retrusion, should one be necessary during treatment (s. pic. ⑤).

In order to guarantee the largest possible lateral excursion we recommend to use the positioning aid for the IST® fastening elements, providing the exact angle position in accordance to the 12° angulation of the telescopes (see p. ⑤).

Press the IST® fastening elements 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 are 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® fastening elements during polymerisation. Then finally fix the fastening elements and build up the splints by applying the transparent cold cure resin DURASPLINT®, creating plane interocclusal surfaces.

Finishing the surfaces and rims is done by means of the finishing set, then continue with polishing.

In case of using the fastening elements with hexagon socket screw make sure to secure the screw with SD CYANO VENEER FAST .

Attaching 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).

Delivery Program:

Description	unit	REF
TELESCOPE HF 5	1 pair	5449
TELESCOPE HF 9	1 pair	5454
TELESCOPE HF 15	1 pair	5444
IST® Kit HF 9	1 pc.	5461
SD box, blue	1 pc.	5439
O-rings for IST®-fastening elements	10 pcs.	5466
Fastening elements for IST®-Appliance with o-rings	4 pcs.	5468
Positioning aid for IST®-fastening elements	1 pc.	5469
Fastening elements for IST® / Herbst applicances, 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
Safety key	1 pc.	2100
SIL-KITT, transparent	150 g	3443
SIL-KITT, red	150 g	3442
SCHEU-Anchor Ø 0.8 mm	10 pcs.	2050
Alastik chain without link, clear (smile-dental)	1 pc.	03-0112
SD CYANO VENEER FAST / 1 ampulla of 5 g	1 pc.	3701
SD Pipettes	25 pcs.	3703

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 any information on the composition, please visit www.scheu-dental.com/en/service/data-sheets

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