

SMILE^{Rx}

Naturally beautiful: SMILE system



SMILE^{Rx} – Naturally beautiful

FORESTADENT presents SMILE^{Rx} a new bracket prescription, which produces an even more beautiful smile with anatomically optimal tooth positioning. Various systems have become established in orthodontics over the years, some of which have become more popular than others. Experienced dental practitioners provided inspiration and advice for the development of SMILE^{Rx}. A new prescription, which is based on many years of empirical knowledge of well-known systems, but is still something very special

No departure from trusted methods

All orthodontists work with their preferred bracket prescription. And this should also remain the same in future. It is not without reason that Roth or MBT (McLaughlin/Bennett/Trevisi System) are among the most commonly used systems. However, such successful systems can be further optimised – to achieve even more aesthetic treatment outcomes. To develop SMILE^{Rx}, FORESTADENT, in close cooperation with general dental practitioners and universities, tested established systems, improved indi-

vidual details and integrated the improvements to produce an innovative comprehensive package. SMILE^{Rx} therefore combines well-proven aspects of the edgewise technique with the advantages of modern self-ligating brackets.

Natural, wide smile

The aim during development of the SMILE^{Rx} system was to produce an attractive smile while taking into consideration the most natural position of the teeth possible. The aesthetics were based on current findings, as documented in a study published in the American Journal of

Orthodontics and Dentofacial Orthopedics¹ etc. Small triangular shadows – the buccal corridors – are created during smiling due to the gap between the dental arch and the angle of the mouth. The greater the gap the more prominent these so-called “black triangles” appear. The smaller the gap, on the other hand, the wider the smile appears. In the study above, several pictures of the same patient were presented to a group of test subjects consisting of dentists and lay persons. All the pictures were identical except for one detail: using photographic processing technology, various sizes of buccal



While before therapy (a) only the maxillary central and lateral incisors as well as the canines were visible during smiling due to overcrowding, after therapy (b) the maxillary premolars are now visible.



corridor were shown – from highly prominent to (virtually) non-existent. A reproduction of the sizes of buccal corridors to be assessed can be seen on the cover of this brochure. The clear result was that the smaller the buccal corridor the more attractive the person shown appeared to the test subjects – both the dentists and lay persons. Other professional articles confirm this result.^{2,3} Buccal corridors can be reduced and a wide, attractive smile achieved using the SMILE^{Rx} system from FORESTADENT.

Naturally anatomical

Aesthetics is an important aspect in orthodontics. However, this should not be the only aim with SMILE^{Rx}. A natural position of the teeth is just as important and should therefore be given equal significance. In this respect the SMILE^{Rx} prescription differs in some details from existing systems: in particular the roots of the maxillary premolars are perpendicular in the jaw bone with SMILE^{Rx}. Keeping the root of the tooth in its natural position in the bony periodontium not only has a positive effect on the stability and intercuspation, it also contributes to the white of the tooth being more visible and a reduction of the buccal corridor. Experts such as Prof. Dr. Björn Zachrisson have long advocated that the position of the maxillary premolars should be as upright as possible and refer to their own clinical experience in this respect.^{4,5} A university study, as yet unpublished, can now scientifically support this clinical experience: measurement of the CT scans of over 150 patients established that the position of premolars that have not been treated is virtually upright.

Effective therapy

SMILE^{Rx} produces an aesthetic smile simply due to the perpendicular position of the premolars. It is therefore not necessary to use wide arches. This avoids dental expansion extending beyond the natural shape of the jaw. The SMILE^{Rx} system can be combined with all conventional archwire forms – according to the ex-



SMILE^{Rx} system and Easy Fit-Jumper: posterior region passive-aided distalization. Anterior region active torque control.



SMILE^{Rx} system and Frog appliance: posterior region passive-aided distalization. Anterior region active torque control.



isting, natural shape of the dental arch. A new archwire template facilitates selection.

Skilfully combined – active and passive

FORESTADENT based SMILE^{Rx} entirely on its optimal, sophisticated self-ligating brackets. Two proven SL systems are therefore being utilised – the active BioQuick[®] brackets and the passive BioPassive[®] brackets. Both brackets can be optimally combined with one another, as they have an identical design – except for the difference in the slot depth. SMILE^{Rx} active brackets provide optimal torque control in the anterior region (2–2). By contrast in the posterior region (3–5) passive brackets with less friction are used for rapid retraction, distalization and space closure. The orthodontist therefore benefits in the simplest way possible from the advantages of the two systems, without first having to compile complex sets for individual cases.

Aesthetic smiles from the outset

The SMILE^{Rx} system is also available with our QuickKlear[®] brackets so that your patients can

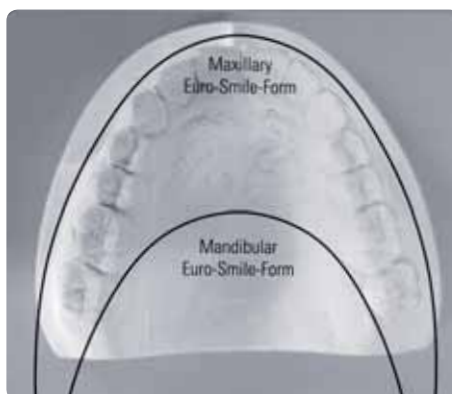
smile freely during treatment. The self-ligating, second generation ceramic brackets have the same, sophisticated locking mechanism as the BioQuick[®] brackets. The brackets are very inconspicuous thanks to the tooth-coloured ceramic and matt-finish clips. QuickKlear[®] is available for SMILE^{Rx} from 3-3 in the maxilla and mandible. BioPassive[®] brackets are used on the premolars. They can of course also be used in combination with tooth-coloured archwires, such as BioCosmetic[®].

References

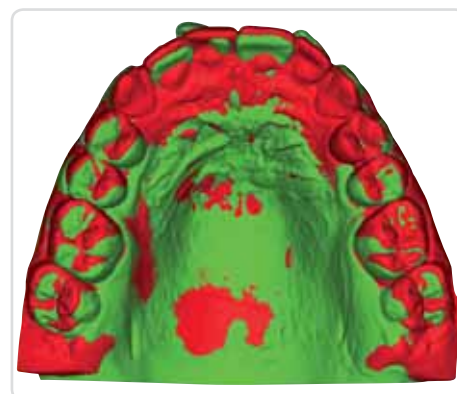
1. Moore T, Southard KA, Casco JS, Qian F, Southard TE: Buccal corridors and smile esthetics, American Journal of Orthodontics and Dentofacial Orthopedics, Volume 127(2), 2005.
2. Gracco A, Cozzani M, D'Elia L, Manfrini M, Peverada C, Siciliani G: The smile buccal corridors: aesthetic value for dentists and laypersons, PROGRESS in ORTHODONTICS, 7(1), 2006.
3. Parekh SM: The perception of selected aspects of smile esthetics – smile arcs and buccal corridors, master thesis, Ohio State University, 2005.
4. Zachrisson BU: Buccal uprighting of canines and premolars for improved smile esthetics and stability, World Journal of Orthodontics, Volume 7, Issue 4, 2006.
5. Zachrisson BU: Making the premolar extraction smile full and radiant, World Journal of Orthodontics, Volume 3, 2002.



CT image of an untreated patient for anatomic analysis and morphological determination of the ideal tooth and root positions.



Easy selection of the shape of the archwire using the archwire template.



3D superimposition before and after treatment: no dental over expansion.

Order information *SMILE^{Rx}* – BioQuick®/BioPassive® & Quicklear®

Slot .018"



MAXILLARY										C € 0297
	735P0503	735P0503	–	C733-0203	C733-0103	C732-0103	C732-0203	–	734P0503	734P0503
	735P0513	735P0513	C731-0313	–	–	–	–	C730-0313	734P0513	734P0513
Torque	0 °	0 °	-2 °	+10 °	+17 °	+17 °	+10 °	-2 °	0 °	0 °
Angulation	0 °	0 °	+11 °	+8 °	+4 °	+4 °	+8 °	+11 °	0 °	0 °
In/Out	0,75	0,75	0,9	1,3	1,1	1,1	1,3	0,9	0,75	0,75
Rotation			4 ° mesial					4 ° mesial		
Torque	-17 °	-12 °	-6 °	-6 °	-6 °	-6 °	-6 °	-6 °	-12 °	-17 °
Angulation	+2 °	+2 °	+3 °	0 °	0 °	0 °	0 °	+3 °	+2 °	+2 °
In/Out	1,05	1,05	1,2	1,3	1,3	1,3	1,3	1,2	1,05	1,05
Rotation										
	733P1603	733P1503	–	C732-1203	C732-1203	C732-1203	C732-1203	–	732P1503	732P1603
	733P1613	733P1513	C733-1413	–	–	–	–	C732-1413	732P1513	732P1613
MANDIBULAR										

Slot .022"



MAXILLARY										C € 0297
	735P0501	735P0501	–	C733-0201	C733-0101	C732-0101	C732-0201	–	734P0501	734P0501
	735P0511	735P0511	C731-0311	–	–	–	–	C730-0311	734P0511	734P0511
Torque	0 °	0 °	-2 °	+10 °	+17 °	+17 °	+10 °	-2 °	0 °	0 °
Angulation	0 °	0 °	+11 °	+8 °	+4 °	+4 °	+8 °	+11 °	0 °	0 °
In/Out	0,75	0,75	0,9	1,3	1,1	1,1	1,3	0,9	0,75	0,75
Rotation			4 ° mesial					4 ° mesial		
Torque	-17 °	-12 °	-6 °	-6 °	-6 °	-6 °	-6 °	-6 °	-12 °	-17 °
Angulation	+2 °	+2 °	+3 °	0 °	0 °	0 °	0 °	+3 °	+2 °	+2 °
In/Out	1,05	1,05	1,2	1,3	1,3	1,3	1,3	1,2	1,05	1,05
Rotation										
	733P1601	733P1501	–	C732-1201	C732-1201	C732-1201	C732-1201	–	732P1501	732P1601
	733P1611	733P1511	C733-1411	–	–	–	–	C732-1411	732P1511	732P1611
MANDIBULAR										

Slot .018"

Cases	1	3
Brackets 5-5	20	60
3*	C706-1086	C706-1088
3-5**	C706-1087	C706-1089

Slot .022"

Cases	1	3
Brackets 5-5	20	60
3*	C706-1090	C706-1092
3-5**	C706-1091	C706-1093

*Max. + Mand. Quicklear 3-3, 3 with hook and BioPassive 4-5 without hook
**Max. + Mand. Quicklear 3-3, 3 with hook and BioPassive 4-5 with hook

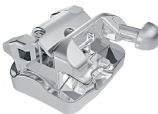
Order information *SMILE^{Rx}* – BioQuick®/BioPassive®

Slot .018"



MAXILLARY											CE 0297
	735P0503	735P0503	731P0303	733-0203	733-0103	732-0103	732-0203	730P0303	734P0503	734P0503	
	735P0513	735P0513	731P0313	—	—	—	—	730P0313	734P0513	734P0513	
Torque	0 °	0 °	-2 °	+10 °	+17 °	+17 °	+10 °	-2 °	0 °	0 °	
Angulation	0 °	0 °	+11 °	+8 °	+4 °	+4 °	+8 °	+11 °	0 °	0 °	
In/Out	0,75	0,75	0,75	1,3	1,0	1,0	1,3	0,75	0,75	0,75	
Rotation			4 ° mesial					4 ° mesial			
Torque	-17 °	-12 °	-6 °	-6 °	-6 °	-6 °	-6 °	-6 °	-12 °	-17 °	
Angulation	+2 °	+2 °	+3 °	0 °	0 °	0 °	0 °	+3 °	+2 °	+2 °	
In/Out	1,05	1,05	1,15	1,4	1,4	1,4	1,4	1,15	1,05	1,05	
Rotation											
	733P1603	733P1503	733P1403	732-1203	732-1203	732-1203	732-1203	732P1403	732P1503	732P1603	
	733P1613	733P1513	733P1413	—	—	—	—	732P1413	732P1513	732P1613	
MANDIBULAR											

Slot .022"



MAXILLARY											CE 0297
	735P0501	735P0501	731P0301	733-0201	733-0101	732-0101	732-0201	730P0301	734P0501	734P0501	
	735P0511	735P0511	731P0311	—	—	—	—	730P0311	734P0511	734P0511	
Torque	0 °	0 °	-2 °	+10 °	+17 °	+17 °	+10 °	-2 °	0 °	0 °	
Angulation	0 °	0 °	+11 °	+8 °	+4 °	+4 °	+8 °	+11 °	0 °	0 °	
In/Out	0,75	0,75	0,75	1,3	1,0	1,0	1,3	0,75	0,75	0,75	
Rotation			4 ° mesial					4 ° mesial			
Torque	-17 °	-12 °	-6 °	-6 °	-6 °	-6 °	-6 °	-6 °	-12 °	-17 °	
Angulation	+2 °	+2 °	+3 °	0 °	0 °	0 °	0 °	+3 °	+2 °	+2 °	
In/Out	1,05	1,05	1,15	1,4	1,4	1,4	1,4	1,15	1,05	1,05	
Rotation											
	733P1601	733P1501	733P1401	732-1201	732-1201	732-1201	732-1201	732P1401	732P1501	732P1601	
	733P1611	733P1511	733P1411	—	—	—	—	732P1411	732P1511	732P1611	
MANDIBULAR											

Slot .018"

Cases	1	5	10
Brackets 5-5	20	100	200
	706-1070	706-1073	706-1076
3	706-1071	706-1074	706-1077
3-5	706-1072	706-1075	706-1078

Slot .022"

Cases	1	5	10
Brackets 5-5	20	100	200
	706-1079	706-1082	706-1085
3	706-1080	706-1083	706-1086
3-5	706-1081	706-1084	706-1087

BioPassive® Universal Molar-Brackets

With hook base and hook.

Max. / 6 – 7 (10pcs/pck) CE 0297		
Slot	right	left
.018"	731P0713	730P0713
.022"	731P0711	730P0711

Torque -14° Rotation 12°

Mand / 6 – 7 (10pcs/pck) CE 0297		
Slot	right	left
.018"	731P1713	730P1713
.022"	731P1711	730P1711

Torque -20° Rotation 2°



Also available on pad and for welding on bands!

Template

for Straight-Arch-Form/Euro-Smile-Form

Order No.		Cont.
435-0006		1

