Orthodontics and Implantology

HSDC
Hybrid System Daniel Celli

Based upon my own experience and the latest literature available, I have developed the HSDC system with the desire to create a biomechanical technique which is intended to greatly simplify the Straight Wire concept, by even enhancing it.
HSDC is a hybrid technique with .020" slots on anterior brackets and the use of self-ligating passive brackets on bicuspids: along with a sequence of specific manufactured archwires, these features manage the various therapeutic phases using familiar concepts such as low friction and bi-dimensional techniques, which have never been used together in one single orthodontic technique.
In other words, the HSDC system is condensing all the best of the past and present in one single technique!

Dr. Daniel Celli

Graduated with honors in Medicine and Surgery at the University of Chieti. Specialized in Dentistry with honors at the University of Chieti. Specialized in Orthodontics at the Catholic University of the Sacred Heart in Rome. Master Degree in "lingual Technique" at the University of Cagliari. PhD in Dentistry disciplines at the University La Sapienza of Rome. Adjunct Professor at the University of Chieti for different academic years. Currently Adjunct Professor at the Catholic University of Sacred Heart in Rome , School of Specialization in Orthodontics. Master Degree in Italy and in the USA with Prof. T.T. Tanaka (USC), J. Okeson (Univ. of Kentucky), F. Dolwick (Univ. of Florida), R. McLaughlin (USC), in 1995/1996. Teacher in private and academic training courses. Speaker at numerous conferences in Italy and abroad. Member of W.F.O, A.A.O., E.O.S., I.A.P.D., S.I.D.O. member since 1995.Certification of excellence in orthodontic at the Italian Board of Orthodontics in 1999. Certification of excellence in orthodontics at the European Board of Orthodontists in 2003. Founding member of S.I.A.D. (Italian Society of Straight Wire). Past President of the Cenacolo Odontostomatologico of Adriatic in the 2008-2009 period. Cenacolo Odontostomatologico Italiano (C.O.I.-A.I.O.G) National Referring and Member of National Scientific Committee 2007/2008. Member of the Examiners Board for the Model Display SIDO years 2000,2001, 2004 and 2005. Member of the Scientific Committee of the Italian Academy of Orthodontics (AIDOR) since 2010. Winner of the National SIDO (Italian Society of Orthodontics) second prize in Clinical Orthodontics at the XVIII International Conference 15-18 November 2006 , Florence. Reward for best communication in TMD (Temporo- Mandibular Disorders) titled: Low Friction Orthodontic finishing in TMD patients . Part.1 , SIDO at the XX International Congress , Naples, Italy 24-27 October 2007 Author of: "Guidelines for the documentation of orthodontic case: acquisition, archiving, presenting" Martina Editions and of "Low friction and clinical success in orthodontics" Editions of Istituto Studi Odontoiatrici (ISO), the scientifical division of Leone. Author of numerous scientific publications in national and international journals. Since 1988 Private Practice of Orthodontics and Gnatology, Pescara, Italy, where he takes theoretical-practical learning courses in clinical orthodontics.

HYBRID SYSTEM HSDC

	torque	ang.	.020"x.030"	.022"x.030"
3.6	+14°	+5°	1 | 1	F4020-11 F4020-21	
3	+7°	+9°	2 | 2	F4020-12 F4020-22	
3.3 VERTICAL SLOT	0°	+7°	3 | 3		F4211-13 F4211-23
3.3	-7°	+8°	3 | 3		F4420-13 F4420-23
3	-7°	+2°	4 | 4		F1000-14* F1000-24*
3	-7°	+2°	5 | 5		F1000-15* F1000-25*
2.1	-6°	0°	1 | 1	F4020-41 F4020-31	
2.1	-6°	0°	2 | 2	F4020-42 F4020-32	
3.3 VERTICAL SLOT	0°	+6°	3 | 3		F4211-43 F4211-33
3.3	-6°	+3°	3 | 3		F4420-43 F4420-33
3	-12°	+2°	4 | 4		F1000-44* F1000-34*
3	-17°	+2°	5 | 5		F1000-45* F1000-35*

Packs of 10
*Packs of 5

Not available into kit

HYBRID SYSTEM HSDC

20 brackets - 1 case	200 brackets - 10 cases
F4020-91	F4021-91

LOW FRICTION LIGATURES *Slide*

EXTRA-SMALL	SMALL	MEDIUM
K6254-10A	K6251-10A	K6252-10A
K6254-10G	K6251-10G	K6252-10G
K6254-10V	K6251-10V	K6252-10V
K6254-10	K6251-10	K6252-10
K6254-10R	K6251-10R	K6252-10R
K6254-10N	K6251-10N	K6252-10N
K6224-10	K6221-10	K6222-10
K6264-10	K6261-10	K6262-10

Packs of 10 modules, 6 ligatures each

***Slide* COLOURED LIGATURES KIT**
K6254-93 extra-small
K6251-93 small
K6252-93 medium
Packs of 432 pcs: 72 assorted modules, 6 ligatures each in 6 colors: (black, red, white, green, yellow, blue)

K6220-95
***Slide* LIGATURE ICE KIT**
K6260-95
***Slide* LIGATURE SILVER KIT**
Packs of 432 pcs: 72 modules, 6 ligatures each: 24 extra-small, 24 small, 24 medium

K6210-93
***Slide* AQUA LIGATURE KIT**
Packs of 432 pcs: 72 assorted modules, 6 ligatures each: 24 extra-small, 24 small, 24 medium

SUGGESTED MIM® BUCCAL TUBES

convertible

	torque	rotat.	round tube diam.	rect. tube slot		weldable tubes	WEB® bands with tube
6|6	-14°	+10°	.045" occl.	.022"	R	G8424-32	E8920-00
					L	G8424-33	E8930-00
6|6	-20°	+8°		.022"	R	G8421-16	E8960-00
					L	G8421-17	E8970-00
6|6	-20°	+8°	.045" ging.	.022"	R	G8424-16	E8961-00
					L	G8424-17	E8971-00

	torque	rotaz.	rect. tube slot		weldable tubes	D.B. *Extremo* No-Nickel tubes
7|7	-14°	+8°	.022"	R	G8321-12	F8621-32
				L	G8321-13	F8621-33
7|7	-20°	+8°	.022"	R	G8321-16	F8621-26
				L	G8321-17	F8621-27

Packs: prewelded bands of 5 - tubes of 10

ARCHWIRE SEQUENCE

PHASE 1: EARLY DENTAL MOVEMENT

	∅ inch	upper	lower	pkg.
MEMORIA® nickel- titanium archwires medium	.012	C5910-12	C5950-12	10
MEMORIA® nickel- titanium archwires medium	.014	C5910-14	C5950-14	10
MEMORIA® nickel- titanium archwires medium	.016	C5910-16	C5950-16	10

PHASE 2 – THREEDIMENSIONAL CONSOLIDATION

	inch	upper	lower	pkg.
THERMOMEMORIA® archwires	.016X.022	C5932-16	C5972-16	10
THERMOMEMORIA® archwires	.019X.025	C5935-19	C5975-19	10
Stainless steel preformed archwires	.019x.025	C3112-19	C3152-19	10
∅				
Special Plus Australian archwires	.020	C2010-20	C2050-20	10

PHASE 3 – ARCHWIRE SEQUENCE

	mm	upper	mm	lower	pkg.
Arches with hook .019X.025	34	C3112-34	24	C3152-24	10
	36	C3112-36	26	C3152-26	10
	38	C3112-38	28	C3152-28	10
	40	C3112-40	30	C3152-30	10
	42	C3112-42			10

Distance in millimeters between hooks

PHASE 4 – FINISHING AND DETAILS

Upper arch	∅ inch		pkg.
Stainless steel preformed archwires	.016	C3110-16*	10
	.018	C3110-18*	10
Lower arch	*inch*		*pkg.*
MEMORIA® nickel-titanium archwires medium	.016	C5950-16	10

*apply in-between 12 and 22

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IN-04-14

HSDC
Hybrid System Daniel Celli

Handiness
Control... Speed

Orthodontics and Implantology

HSDC® (Hybrid System Daniel Celli) is a new orthodontic method, conceived under the suggestion of Dr. Daniel Celli, which combines conventional and self-ligating brackets, with .020" and .022" dual slot size. It **OPTIMIZES** biomechanics, both in the extraction or non-extraction cases, thus **MANAGING FRICTION** and **KEEPING CONTROL** of **ANTERIOR TEETH**. Considerable **REDUCTION** of **TREATMENT TIME**, with more **PREDICTABLE RESULTS**

WHY HYBRID ?

DUAL SLOT SIZE

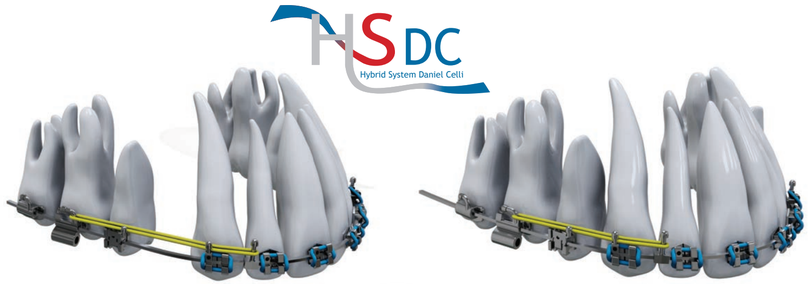
Anterior brackets have a slot of .020" while cuspid, bicuspid, and molar brackets have a slot of .022": this dual slot size thereby gets full advantage of the low friction in the early stages of treatment and effective torque control during en-masse retraction of anterior teeth.

CONVENTIONAL AND SELF LIGATING BRACKET COMBINATION

Twin conventional cuspid-to-cuspid brackets allow the change of friction delivery with the use of low-friction Slide ligatures, either conventional or metal; while self-ligating FIOOO passive brackets on bicuspids facilitate archwire sliding of space closure and alignment, thus encouraging the dynamic occlusion of the rear teeth.

VERTICAL SLOT ON CUSPID (.020 "X.020")

It allows the use of springs for uprighting very useful in the management of anchorage and biomechanical control.



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EXTRACTION CASE

Patient: Age 19.2

Space closure - 11 months from the start of treatment

Space closure - 15 months from the start of treatment

End of space closure - 23 months from the start of treatment

End of treatment – Completion time: 25 months

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NON-EXTRACTION CASE

Patient: Age 14.2

Phase 1: bonding of upper arch, initial alignment and leveling phase

Phase 2: early 3D consolidation of the arches - 5 months from the start of treatment

Phase 3: working wires phase - 12 months from the start of treatment

End of treatment – Completion time: 19 months

Courtesy of Dott. Daniel Celli

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