

EASY-WAY-COIL SYSTEM®

A Proven Technique for effective alignment of impacted incisors, canines, and premolars

- Zero inflammatory reactions recorded
- Zero loosening of bonded attachment
- Zero breakages recorded

(Clinical research conducted by Dr. Schubert, Germany)

"Invented by Dr. Schubert, engineered by adenta"



EASY-WAY-COILSYSTEM® for lingual and buccal treatment clinically reliable, efficient, easy to use and economical system for the alignment of impacted and ectopic teeth.



Many different traction appliance options are available for the task of aligning the ectopic or impacted tooth. The forces in some of these appliances are generated by elastics. The quality of the material of elastics, elastic chains or an elastic rubber thread makes frequent replacement necessary for the purpose of re-activation. Lever designs are highly elastic and supply effective force for a relatively long period of time, but they are easily damaged, rather uncomfortable for patients, and make oral hygiene more difficult.

The EASY-WAY-COIL SYSTEM® consists of a stainless steel

tension spring which is pivot-mounted to a lingual button with a bonding base. The appliance is activated by systematically shortening the spring. It is reliable and demonstrates a constant application of force throughout the treatment procedure, including stable maximum anchorage.

Pivot-mounted button



Bonding base button



Space maintaining spring



Chosen if force direction is 90° to the bonding surface



Easy to use →



Finish quickly →



Clinically reliable →



Predictable



Inventor Dr. Michael Schubert



The **EASY-WAY-COIL** system design did not come to me overnight, in fact this design formed slowly and gradually over a period of a few years. Each time I experienced an adverse effect directly related to the design and function of a particular appliance, I started to formulate new appliance design solutions.

In my opinion the EWC system has three distinct advantages:

CONTROL

The rigid nature of this traction spring system permits controlled tooth movement in all directions of space, as long as one point of anchorage is available. Remember this anchorage does not always have to be the archwire, however I choose the arch wire repeatedly for its ease of use.

FORCES

I wanted to design a system that was simple, easily reproducible and clinically easy to perform. Cutting 3 rings of the spring equals cutting 1mm of active length, which generates a force of 0.158N. Thus the total force generated can be adjusted by clipping multiples of 3 rings.

Control of rotational torque/moment

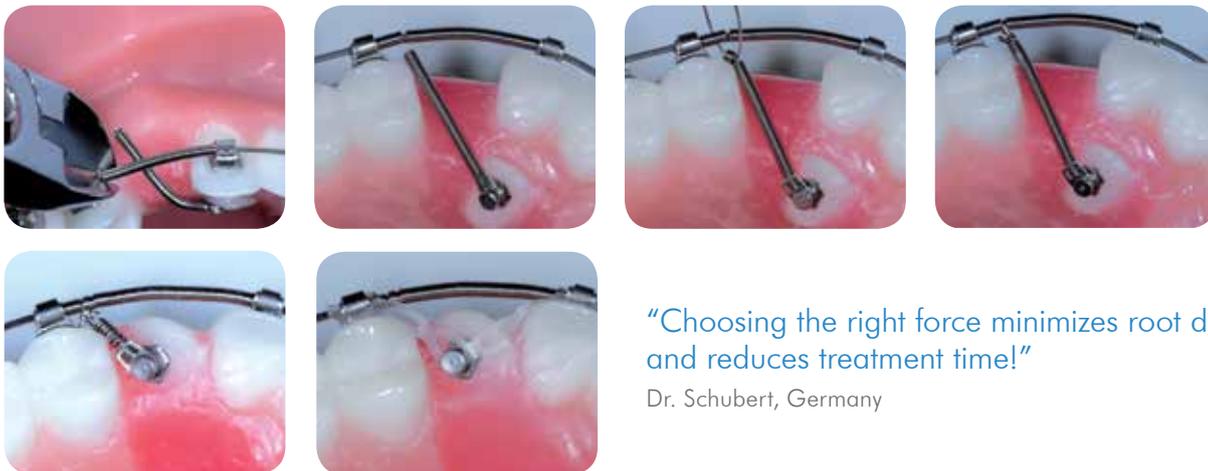
Probably the most pronounced advantages of my system is its ability to control torque. The rigid nature of this spring produces an anti-rotational movement. Now I can move my canines in a lateral direction without unintentionally exerting a rotational movement (favorable for canines with palatinal impaction). With a traction force of roughly 0.3N and the lingual button attached at a distance of 2-3mm from the cuspid's longitudinal axis, an anti-rotational torque of 0.8-0.9 Nmm is generated.

My patients have greatly profited from the EWC system with excellent treatment results and optimal comfort. I have experienced a high level of controlled tooth movement with a full understanding and control of forces needed for efficient and safe tooth movement.

Dr. Michael Schubert

EASY-WAY-COIL spring system produces a complete treatment approach for impaction producing many advantages that other systems cannot provide.

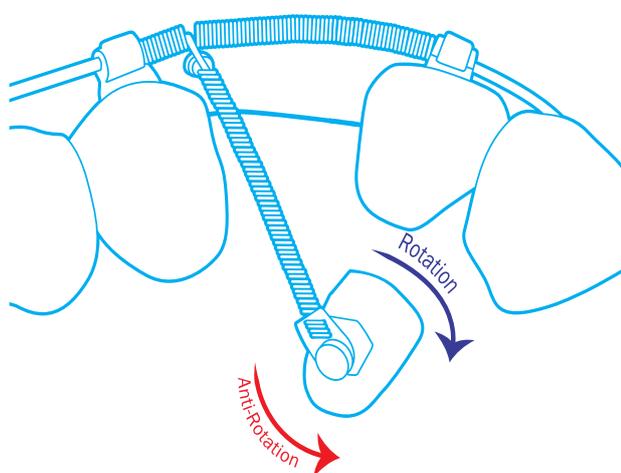
- Sturdy and stable
- Prevents undesired rotation
- Repels Mucosa and scar tissue
- Prevents inflammatory reactions
- Intermitting forces
- Long activation
- Constant precise force during activation
- Simple re-activation and variable direction
- Variable direction of traction
- Simple re-activation
- Precisely quantified amount of force
- High degree of comfort for patients
- Clinically reliable & economical
- Unilaterally or bilaterally
- Can treat both lingual and buccally impacted teeth



“Choosing the right force minimizes root damages and reduces treatment time!”

Dr. Schubert, Germany

MULTI DIRECTIONAL & ANTI ROTATIONAL



The advantages of using a stainless steel spring vs. a NiTi spring can be seen clearly throughout all our clinical testing. Couple this high functioning spring with a custom designed button and you have the perfect traction appliance.

Sturdy and stable

Stainless steel springs permit accurate and sturdy formation of the eyelet, with no introduction of rotation and allows simple and easy re-activation later in treatment.

Prevents undesired rotation of spring

An experimental study confirmed that the steel spring's rigidity has an anti-rotation effect and can thus generate a counter-torque of 0.75 N mm, against the strong rotation of a palatally ectopic cuspid.

Repels Mucosa and scar tissue

Mucosa or scar tissue can grow in between the separated spiral winding of a NiTi spring, this prevents the spring from contracting, and thus making it impossible to estimate how much traction force is effectively being applied to the tooth. Activation with the steel spring is low, the “tube from” is retained and mucosa or scar tissue is easily repelled. This allows the spring to contract and slide easily with little friction.

Prevents inflammatory reactions

Since 2008 the EASY-WAY-COIL® system, no patient has suffered inflammatory reactions in the oral mucosa adjacent to the traction spring during treatment.

Intermitting forces

The EASY-WAY-COIL® is activated in small steps in 4 week intervals. As the tooth reaches the position needed for re-activation, this in turn creates an interval of tooth movement and allows recovery of the tissue in between activation steps. These intermitting forces allow permanent blood supply to all surrounding

Activation Distance = 2mm - Optimum Force = 32 cN



13.1 months after exposure

Item	Sales Unit
EWCS1	1 Patient Kit – 1 EASY-WAY-COIL spring 1 Space maintaing spring
EWCS5	5 Patient Kit – 5 EASY-WAY-COIL springs 5 Space maintaing springs
EWCS1-90	1 Patient Kit – 90° version 1 EASY-WAY-COIL spring 1 Space maintaing spring
EWCS5-90	5 Patient Kit – 90° version 5 EASY-WAY-COIL springs 5 Space maintaing springs