



CA[®] CLEAR ALIGNER

CA® CLEAR ALIGNER:

The nearly invisible method for straightening teeth

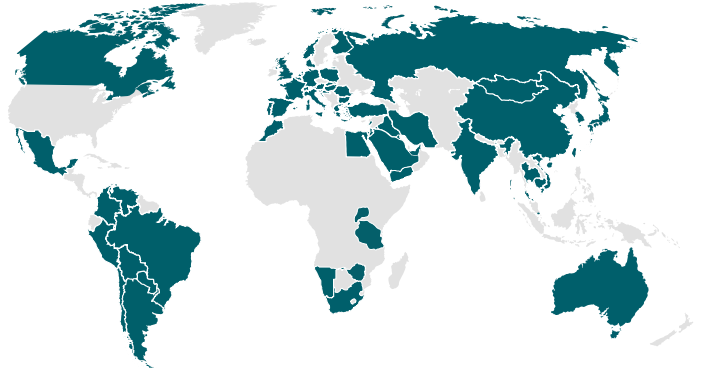
The right concept for every demand:

Many things are different with CA® CLEAR ALIGNER: The shape of the splint, the material thickness – but the most essential difference: It's up to you to decide – holding the complete value creation in your hands or using the services of CA DIGITAL. CA® CLEAR ALIGNER leaves you all the options.

A global success story

The CA® CLEAR ALIGNER therapy system is mentored by an international board of experienced specialists from science and technology, contributing their expertise in orthodontics, dental technology and material science. This expert panel chaired by Dr. Pablo Echarri is in constant contact to share new findings in seminars, workshops and technical articles with CA® users.

- more than 3,000 certified orthodontists
- more than 300 certified laboratories
- more than 20 years of clinical experience
- more than 400,000 CA® treatment cases



One systems - many options

The complete value creation in your hands

The individual components of the CA® CLEAR ALIGNER system give you the opportunity to carry out the treatment from diagnosis to therapy planning, fabrication of set-up models until the final splint fabrication and activation in laboratory or practice. The necessary equipment consists of the pressure moulding devices MINISTAR S® or BIOSTAR®, the CA® foils in soft, medium and hard, the software CA® SMART 3D or 2D including web cam, CA® photo support and CA® CHECKER.

Interested in getting started with digital splint therapy?

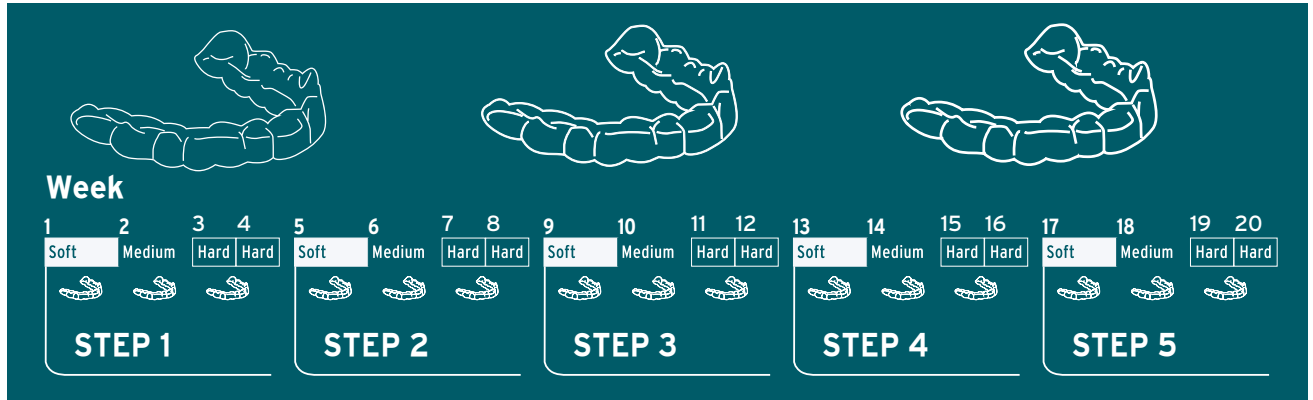
As an orthodontist or dentist you will find an ideal partner with CA DIGITAL, a service provider offering the complete range of digital treatment solutions. Whether you prefer receiving printed models of digitally planned set-ups in order to carry out the fabrication of the splints yourself or if you want to order digital planning including splint fabrication: CA DIGITAL is your individual partner for all your requirements.

Advantages:

- quick results
- effective and precise
- can be used on all occasions
- high added value
- innovative add-ons
- optimum monitoring

Innovative 3-splint-system

Three different material thicknesses over a period of four weeks ensure impressive efficiency and greater wear comfort. Each treatment step involves aligners of three different levels of material thickness - soft, medium and hard. A steady increase in pressure from the aligners is instrumental in activating the bone cells. As a result, the dental correction process is swift, effective and precise - and yet extremely gentle and without any discomfort for the patient.



Revolutionary design to cover the gingiva

The shape of the aligner is exceptionally innovative: In contrast to other aligner systems, the gingival area is partially covered (2-3 mm). This increases the transfer of pressure and enhances treatment efficacy.

- Increased transfer of pressure
- Shorter treatment time
- No attachments required
- Perfect fit



Phase 1: ARCH DESIGN PHASE

Determining the shape of the dental arch.

Movements: Expansion or constriction, proclination and retraction.

ADD-ON: VECTOR® 40 / VECTOR® 45 expansion screw.

Phase 2: SPACE MANAGEMENT PHASE

Focus on gaining space. Movements: Distalisation or mesialisation.

Optional: IPR (interproximal reduction) or extractions.

Phase 3: ALIGNMENT PHASE

Alignment of teeth at the dental arch.

Movements: Rotation, angulation and torque.

Phase 4: OCCLUSAL FINISHING PHASE

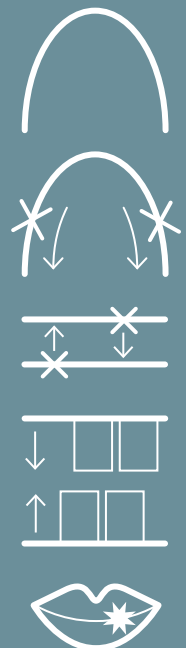
In this phase, the bite - in medical terms, the occlusion - is adjusted.

Movements: Extrusion or CA® POWER GRIP, angulation and torque.

ADD-ONS: CA® BITE RAMP.

Phase 5: CORRECTION PHASE

Fine adjustments and overcorrection in various alignments.



Indications*:

- Space closure up to 4 mm.
- Crowding correction up to 4-6 mm.
- Correction of anterior teeth rotation.
- Anterior deep bite correction.
- Correction of a cross bite with negative torque.
- Molar uprighting (up to a maximum of: 10°).
- Use of CA® CLEAR ALIGNER in mixed dentition.
- Use of CA® CLEAR ALIGNER as a part of other treatments.
- CA® CLEAR ALIGNER as a passive/active retainer. Doubt retention.
- Relapse treatment.



CA® CLEAR ALIGNER System Protocol acc. to Dr. Pablo Echarri CLINICAL ISSUES



1st set-up

Expansion/Movement A, B or C

Max. 0.5 mm	Movement
Max. 0.5 mm	Intrusion
Max. 3°	Torque
Max. 5°	Angulation (molars)
Max. 5°	Angulation (anterior teeth using CA® POWER GRIP)
Max. 5°	Angulation (bicuspids using CA® POWER GRIP)

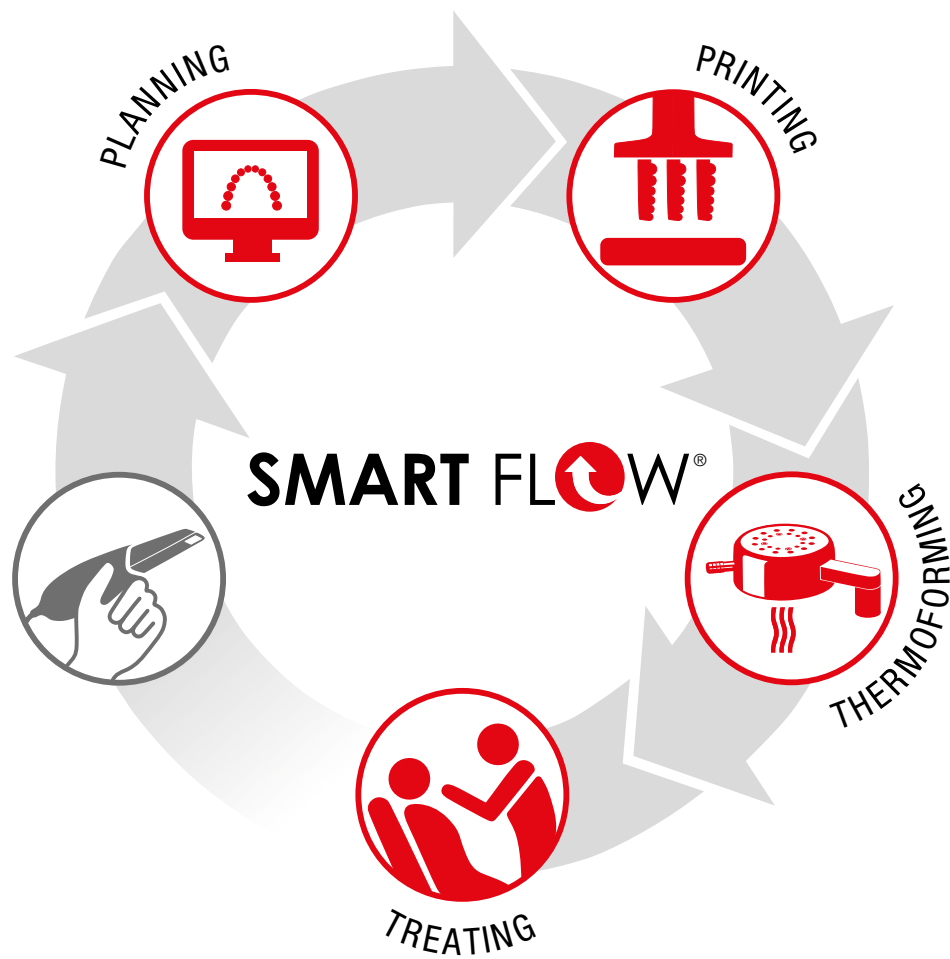
2nd set-up and further

Expansion/ Movement A, B or C

Max. 1.0 mm	Movement
Max. 1.0 mm	Intrusion / during complete treatment max. 1.0 - 2.0 mm
Max. 5°	Torque
Max. 5°	Angulation (molars) / during complete treatment max. 10°
Max. 5°	Angulation (anterior teeth using CA® POWER GRIP)
Max. 5°	Angulation (bicuspids using CA® POWER GRIP)

* Reference: Dr Echarri, CA Book

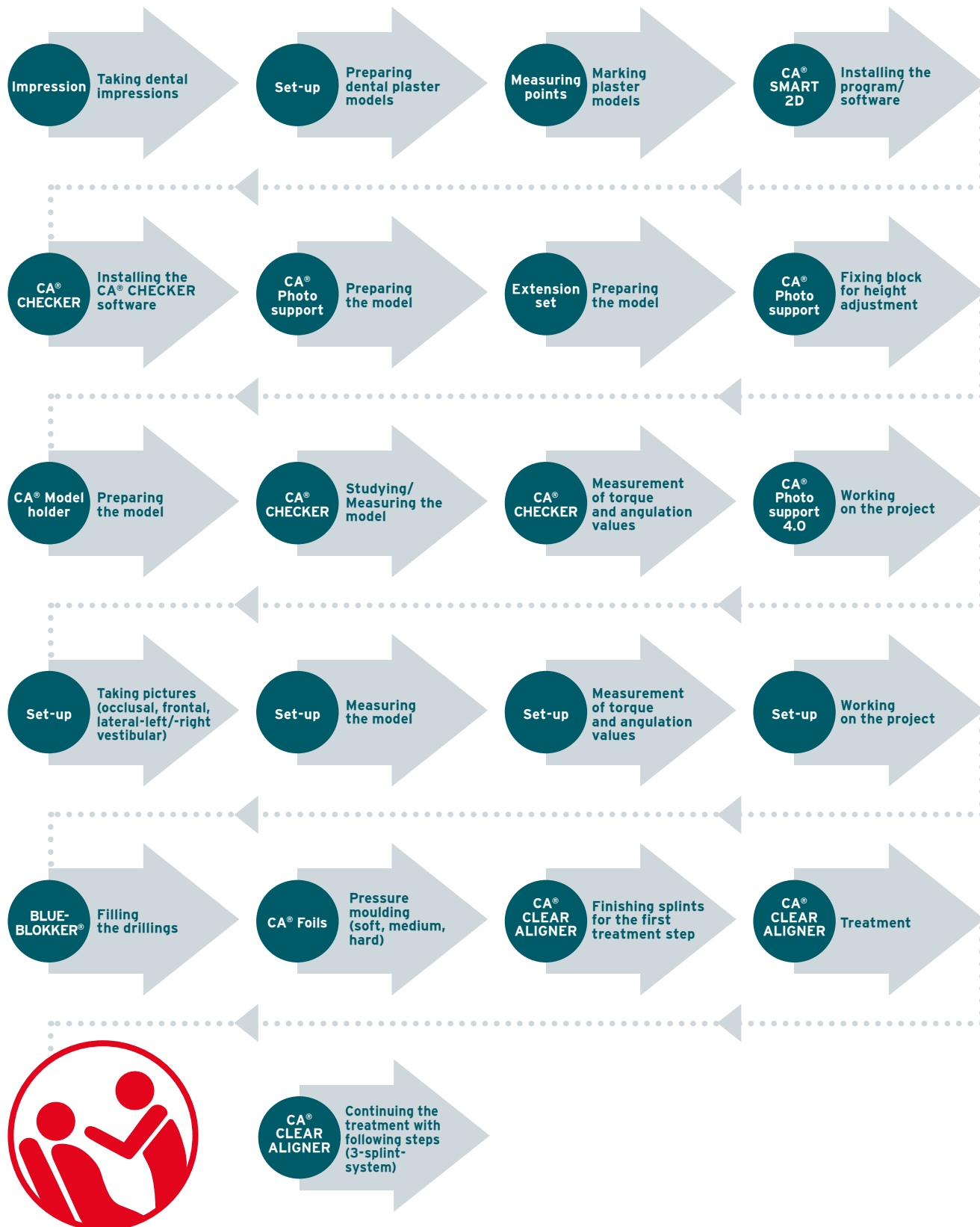
SMART FLOW: The complete digital process chain from a single source for practices and laboratories



	 CA® SMART 2D	 Extension set (4.0) for CA® photo support	 CA® Photo support 4.0	 CA® SMART 3D
	 Asiga Printer	 IMPRIMO® LC materials	 IMPRIMO® Clean	 IMPRIMO® Cure
	 MINISTAR S®	 BIOSTAR®	 CA® Foils	
	 CA® CLEAR ALIGNER	 Bracket Transfer Matrix (pressure moulded)	 Bracket Transfer Matrix (3D printed)	

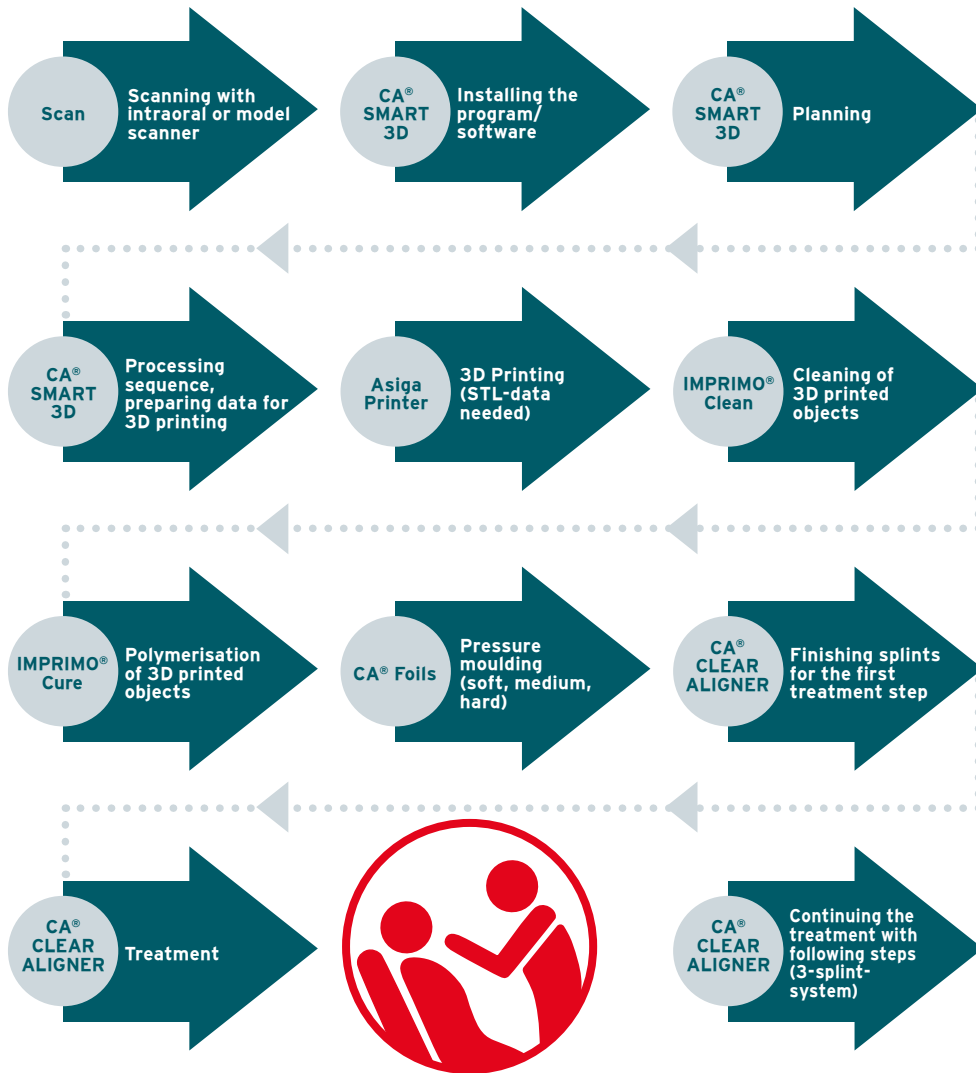
CA® CLEAR ALIGNER - process of workflow

Treatments performed with the manual 2D system



CA® CLEAR ALIGNER - process of workflow

Treatments performed with the digital 3D system



Additional tools

CA® DISTALIZER acc. to Dr. Echarri

The CA® Distalizer splint can be used for single or double-sided molar distalisation. Make sure not to activate the screws simultaneously on the left and the right side in order to prevent the front teeth from tipping in the course of the double-sided distalisation.



VECTOR® 40 acc. to Prof. Hinz

The VECTOR® 40 screw facilitates an expansion in the region of the front teeth especially for the lower arch.



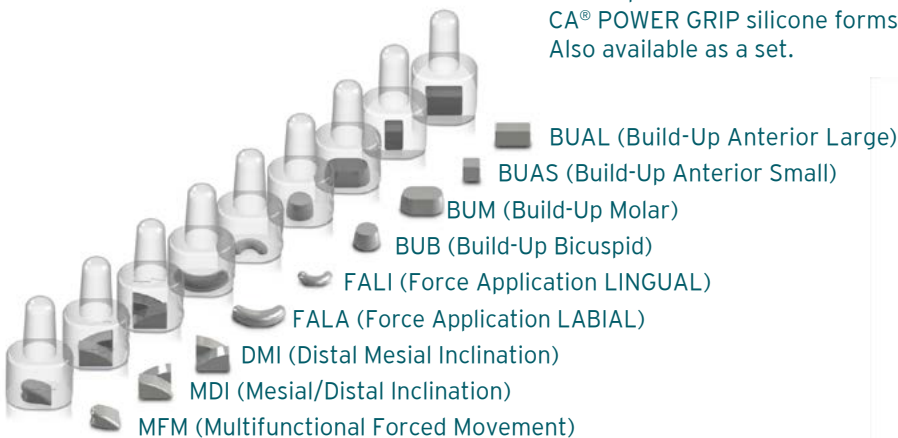
VECTOR® 45 acc. to Prof. Hinz

The VECTOR® 45 has been designed for expansion in the upper arch with CA® CLEAR ALIGNER hard. With two metallic guides, the screw offers more stability to the aligner during the expansion of anterior area.



CA® POWER GRIP

Some special cases need additional retention. We recommend the CA® POWER GRIP silicone forms for fabrication individual attachments. Also available as a set.



CA® CLEAR ALIGNER videos:

