

Catalogue

VECTOR®  
Orthodontic Screws



# Our line of VECTOR® Orthodontic Screws

**SCHEU**  
Dental Technology

# Our products are still unsurpassed!

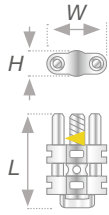
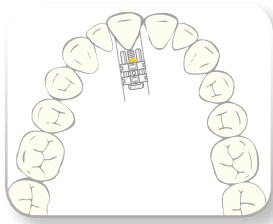
**Quality is not a question of size.** End of the 1950ies, our first orthodontic product was the SCHEU-anchor – a retention element, still unsurpassed in terms of quality, workmanship and spring force. Today our orthodontic line is supplemented and enhanced by innovative products such as VECTOR® expansion screws and the CA® CLEAR ALIGNER splint therapy.





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### VECTOR® 30

Special miniaturised sector screw with bright yellow directional arrow for single tooth movements.

To ensure safe anchorage, retention wires (CHROMIUM Ø 0.8 mm, not included) can be individually inserted and adjusted.

Can also be used in the CA® CLEAR ALIGNER technology for oblique-lateral segment expansion acc. to Dr. Pablo Echarri in conjunction with the CA® Arch CHROMIUM and two VECTOR® 30 screws.

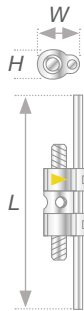
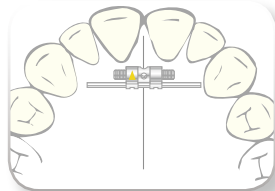
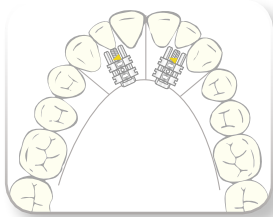
○ VECTOR® 30

#2484

W x H x L: 4.8 x 2.6 x 9.5 mm, expansion 3.0 mm

2/10 pieces, incl. 2/10 keys for expansions screws

CE



### VECTOR® 40 acc. to Prof. Hinz

Special miniaturised screw for fabrication of CA® splints, allowing activation and rapid transversal expansions (up to 3 mm). The retention arms allow safe anchorage on the CA® splints using cold curing resin. With laser-welded directional arrow.

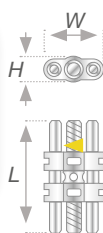
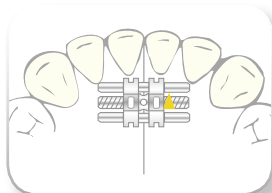
○ VECTOR® 40

#2486

W x H x L: 3.6 x 2.5 x 19 mm, expansion 3.0 mm

10/50 pieces

CE



### VECTOR® 50

Skeletal miniaturised expansion screw with bright yellow directional arrow for transversal expansion in the lower jaw, also for narrow upper jaws.

○ VECTOR® 50

#2489

W x H x L: 4.8 x 2.5 x 10.0 mm, expansion 3.0 mm

10/50 pieces

CE

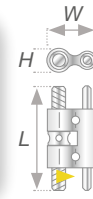
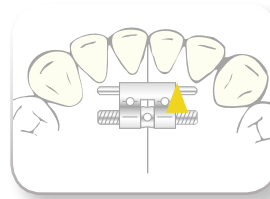
**VECTOR® 80**

Skeletal expansion screw with bright yellow directional arrow for transversal expansion of the lower jaw. Additional bore hole ensures excellent retention in acrylics.

- VECTOR® 80 #2490  
W x H x L: 7.0 x 3.1 x 14.3 mm, expansion 7.5 mm

10/50 pieces

CE

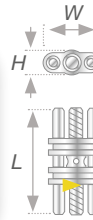
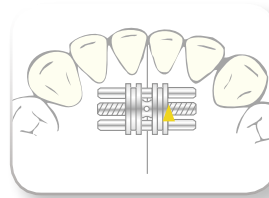
**VECTOR® 90 / VECTOR® 100**

Skeletal expansion screw with bright yellow directional arrow for transversal expansion of the lower jaw. For treatment of Angle Class II cases we recommend using VECTOR® 100 in combination with VECTOR® 900.

- VECTOR® 90 #2491  
W x H x L: 6.2 x 3.0 x 10.0 mm, expansion 4.0 mm
- VECTOR® 100 #2492  
W x H x L: 6.2 x 3.0 x 12.0 mm, expansion 5.0 mm

10/50 pieces

CE

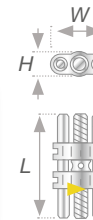
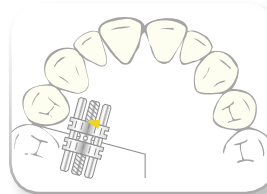
**VECTOR® 140 / VECTOR® 160**

Skeletal expansion screw with bright yellow directional arrow for transversal and sagittal expansion in the upper and lower jaw.

- VECTOR® 140 #2494  
W x H x L: 7.5 x 3.3 x 12.0 mm, expansion 5.0 mm
- VECTOR® 160 #2496  
W x H x L: 7.5 x 3.3 x 14.3 mm, expansion 6.0 mm

10/50 pieces

CE

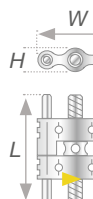
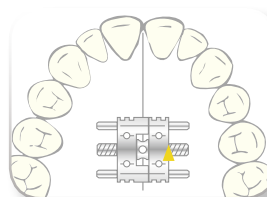
**VECTOR® 190 / VECTOR® 200**

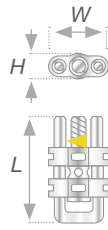
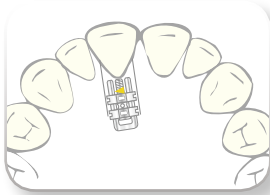
Stable, skeletal expansion screw with bright yellow directional arrow for transversal expansion of the upper jaw and bimaxillary appliances. Additional bore hole ensures excellent retention in acrylics.

- VECTOR® 190 #2497  
W x H x L: 9.8 x 3.1 x 10.0 mm, expansion 5.0 mm
- VECTOR® 200 #2498  
W x H x L: 9.8 x 3.1 x 14.3 mm, expansion 7.5 mm

10/50 pieces

CE





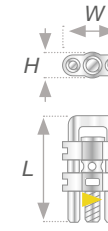
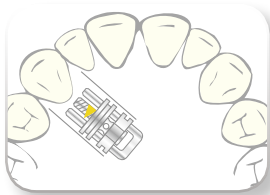
**VECTOR® 350**

Skeletal miniaturised sector expansion screw with bright yellow directional arrow for single tooth and segment movement in the upper and lower jaw.

○ VECTOR® 350 #2509  
*W x H x L: 4.8 x 2.5 x 10.0 mm, expansion 4.0 mm*

10/50 pieces

CE



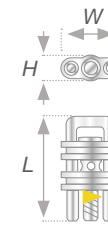
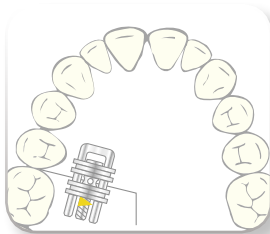
**VECTOR® 400**

Delicate skeletal sector expansion screw with bright yellow directional arrow. Can also be used for single tooth movements.

○ VECTOR® 400 #2510  
*W x H x L: 6.2 x 3.0 x 11.0 mm, expansion 3.0 mm*

10/50 pieces

CE



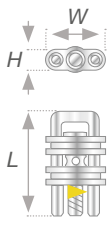
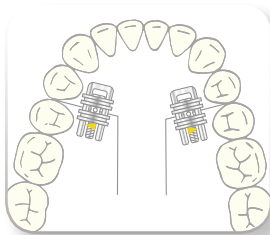
**VECTOR® 420**

Delicate skeletal sector expansion screw with bright yellow directional arrow. Can be used for distalisation and for single tooth movements.

○ VECTOR® 420 #2512  
*W x H x L: 6.0 x 3.0 x 13.0 mm, expansion 5.0 mm*

10/50 pieces

CE



**VECTOR® 440**

Delicate skeletal sector expansion screw with bright yellow directional arrow, allowing distalisation.

○ VECTOR® 440 #2514  
*W x H x L: 6.0 x 3.0 x 13.3 mm, expansion 5.0 mm*

10 pieces

CE

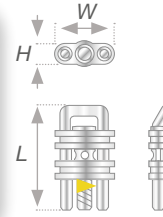
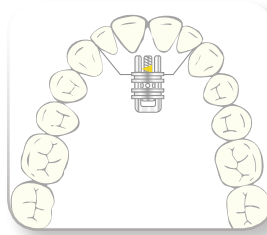
**VECTOR® 440 R**

Delicate skeletal sector expansion screw with bright yellow directional arrow for single tooth or segment movement.

- VECTOR® 440 R #2513  
W x H x L: 6.0 x 3.0 x 13.3 mm, expansion 5.0 mm

10 pieces

CE



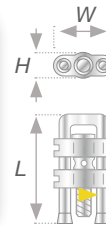
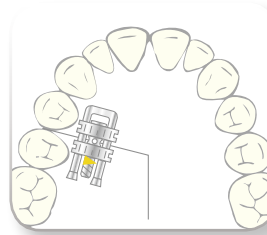
**VECTOR® 450**

Skeletal sector expansion screw with limit stop. Prevents the screw from breaking after maximum expansion, reactivation is possible.

- VECTOR® 450 #2515  
W x H x L: 7.0 x 2.8 x 13.0 mm, expansion 4.0 mm

10/50 pieces

CE



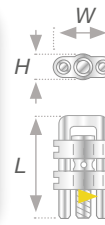
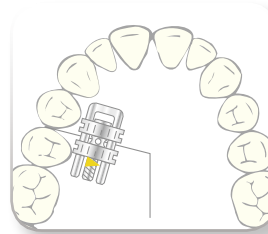
**VECTOR® 460**

Skeletal sector expansion screw in stronger version with bright yellow directional arrow.

- VECTOR® 460 #2516  
W x H x L: 7.5 x 3.3 x 13.0 mm, expansion 5.0 mm

10 pieces

CE



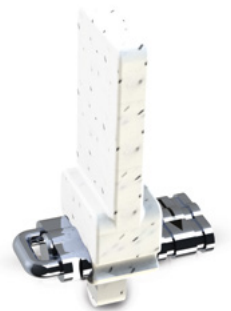
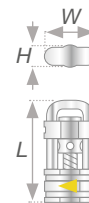
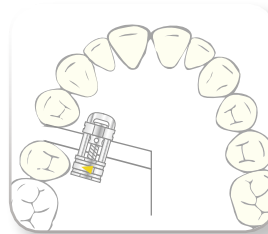
**VECTOR® 500 / VECTOR® 520**

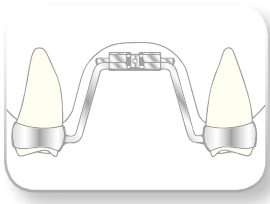
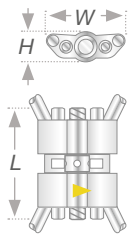
Traction screw for space closure with black directional arrow on the housing.

- VECTOR® 500 #2520  
W x H x L: 6.2 x 3.0 x 13 mm, traction 3.0 mm
- VECTOR® 520 #2522  
W x H x L: 6.2 x 3.0 x 18.0 mm, traction 5.0 mm

10 pieces

CE





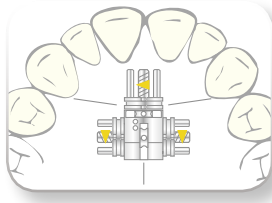
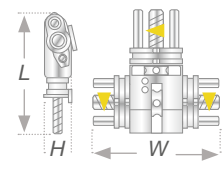
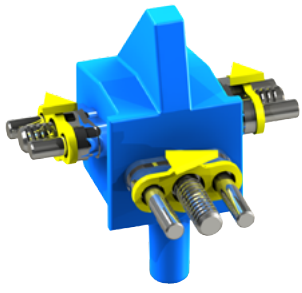
**VECTOR® 600\* / VECTOR® 620\***

Special screw for rapid palatal expansion. The anatomically bent retention arms are soldered or welded onto molar bands. The specially designed housing profile fits perfectly to the palatal vault. The integrated polyamide bush prevents accidental resetting of the screw. Laser-welded marking for direction and expansion on the housing. Comes with security expansion key.

- VECTOR® 600 #2524  
W x H x L: 10.4 x 4.0 x 14.0 mm, expansion 9.0 mm
- VECTOR® 620 #2526  
W x H x L: 10.4 x 4.0 x 16.0 mm, expansion 11.0 mm

1/10 pieces

CE 0044



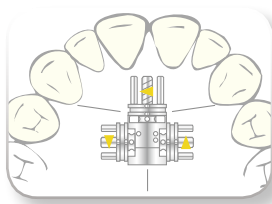
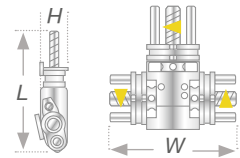
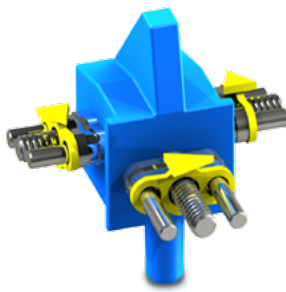
**VECTOR® 720 acc. to Bertoni**

Special Bertoni screw for insertion in multi-sector plates, enabling separate protrusion and symmetric transversal expansion by two independently operating spindles.

- VECTOR® 720 #2530  
W x H x L: 17.0 x 3.6 x 15.7 mm  
frontal expansion: 5.5 mm  
transversal expansion: 7.0 mm

2 pieces

CE



**VECTOR® 730 acc. to Bertoni**

Special Bertoni screw for insertion in multi-sector plates, enabling separate protrusion and symmetric or asymmetric transversal expansion by three independently operating spindles.

- VECTOR® 730 #2532  
W x H x L: 17.0 x 3.6 x 15.7 mm  
frontal expansion: 5.5 mm  
transversal expansion: 2 x 3.5 mm

2 pieces

CE

\*Not suitable for surgically assisted rapid palatal expansion.

Protect screw body from excessive heat that might damage the integrated polyamide bushing and cause jamming.



**VECTOR® 740 acc. to Bertoni**

Special Bertoni screw for insertion in multi-sector plates, enabling separate protrusion and symmetric or asymmetric transversal expansion by three independently operating spindles.

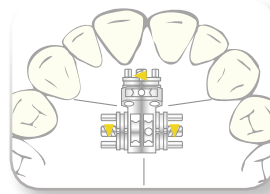
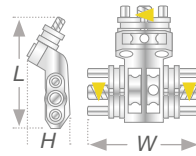
○ VECTOR® 740

#2540

*W x H x L: 15.0 x 5.0 x 15.0 mm*  
*frontal expansion: 2.5 mm*  
*transversal expansion: 5 mm*

2 pieces

CE

**VECTOR® 750 acc. to Bertoni**

Special Bertoni screw in modified, angled and delicate version for insertion in multi-sector plates, enabling separate protrusion and symmetric or asymmetric transversal expansion by three independently operating spindles. For bilateral expansion.

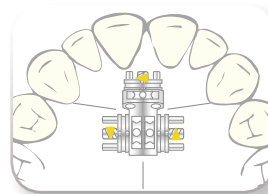
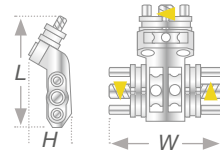
○ VECTOR® 750

#2542

*W x H x L: 15.0 x 5.0 x 15.0 mm*  
*frontal expansion: 2.5 mm*  
*transversal expansion: 2 x 2.5 mm*

2 pieces

CE

**NEW!****VECTOR® 770 acc. to Prof. Godt/Schweizer**

The VECTOR® 770 screw is a special screw for insertion in multi-sector plates, enabling transversal expansion (> 3 mm) with simultaneous proclination in the front (> 3 mm).

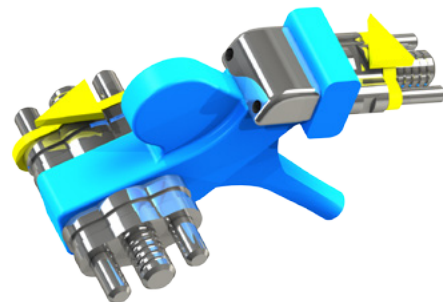
The delicate design allows placing the VECTOR® 770 screw very close to the palate, the thin material ensuring high wearing comfort.

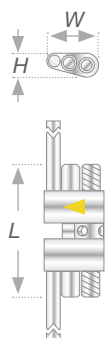
○ VECTOR® 770 acc. to Prof. Godt/Schweizer

#2543

2 piece

CE





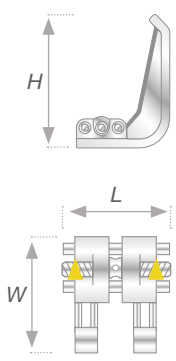
**VECTOR® 800\* / VECTOR® 820\***

Special miniaturised screw for distraction of the lower jaw using stable retention arms of 60 mm length. With laser marking on housing.

- VECTOR® 800 #2533  
W x H x L: 7.0 x 3.3 x 16.5 mm, expansion 9.0 mm
- VECTOR® 820 #2534  
W x H x L: 7.0 x 3.3 x 18.5 mm, expansion 11.0 mm

1/5 pieces with security key for expansion screws

CE 0044



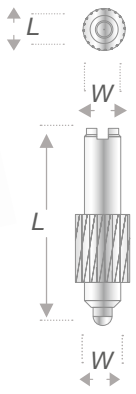
**VECTOR® 900**

Screw for protrusive double plate for treatment of Angle Class II cases (lower jaw retrusion/distal occlusion) as well as for bilateral expansion of the upper jaw in growing children. Compact design with integrated expansion screw, comes with integrated key for expansion screws and SD box. For lower jaw we recommend the combined use with VECTOR® 100.

- VECTOR® 900 #2536  
W x H x L: 14.0 x 20.0 x 13.0 mm, expansion 5.0 mm
- Angle tester acc. to Adamik #2332  
For fixing and controlling the insertion angle

1 piece

CE

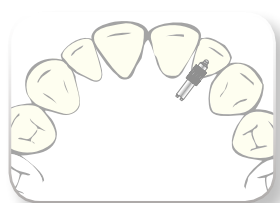


**VECTOR® Piston screw assortment**

Stainless steel screw for single tooth movement during orthodontic treatment with removable appliances. Three different screw lengths allow large protrusion by a constant and precisely controlled amount of pressure on the tooth.

- Piston screw 4 mm, 5 pieces #2477
- Piston screw 6 mm, 5 pieces #2478
- Piston screw 8 mm, 5 pieces #2479
- Serrated housing nut, 5 pieces #2481

CE

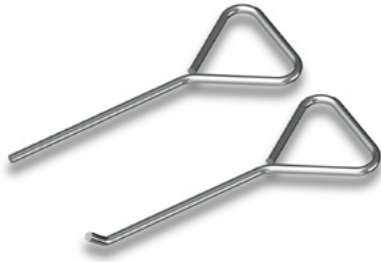


**Accessories**

- Mounting screw, 5 pieces #2480
- Reamer, 1 piece #2482
- Screwdriver F, 1 piece #2483
- Screwdriver M, 1 piece #2083

\*Not suitable for surgically assisted rapid palatal expansion.

# Accessories



## Key for expansion screws

For precision adjustment of VECTOR® expansion screws.

- Key for expansion screws #2101
- Key for expansion screws, angled \* #2130

10/100pieces, \* 10 pieces

€



## Screwdriver F\*

To activate VECTOR® piston screw.

- Screwdriver F #2483

1 piece



## Screwdriver M\*

For VECTOR® mounting screw.

- Screwdriver M #2083

1 piece

\* The screwdriver is not a medical device and is not suitable for use in the mouth.

## Opening and expansion parameters of VECTOR® expansion screws

Expansion screw	REF	Expansion per 1/1 turn	Expansion per ¼ turn	Opening dimension/ total expansion
VECTOR® 30	2484	0,35 mm	0,09 mm	3 mm
VECTOR® 40	2486	0,7 mm	0,18 mm	3 mm
VECTOR® 50	2489	0,7 mm	0,18 mm	3 mm
VECTOR® 80	2490	0,8 mm	0,2 mm	7,5 mm
VECTOR® 90	2491	0,7 mm	0,18 mm	4 mm
VECTOR® 100	2492	0,7 mm	0,18 mm	5 mm
VECTOR® 140	2494	0,8 mm	0,2 mm	5 mm
VECTOR® 160	2496	0,8 mm	0,2 mm	6 mm
VECTOR® 190	2497	0,8 mm	0,2 mm	5 mm
VECTOR® 200	2498	0,8 mm	0,2 mm	7,5 mm
VECTOR® 350	2509	0,35 mm	0,09 mm	4 mm
VECTOR® 400	2510	0,35 mm	0,09 mm	3 mm
VECTOR® 420	2512	0,35 mm	0,09 mm	5 mm
VECTOR® 440	2514	0,35 mm	0,09 mm	5 mm
VECTOR® 440R	2513	0,35 mm	0,09 mm	5 mm
VECTOR® 450	2515	0,35 mm	0,09 mm	4 mm
VECTOR® 460	2516	0,4 mm	0,1 mm	5 mm
VECTOR® 500	2520	0,35 mm	0,09 mm	3 mm
VECTOR® 520	2522	0,35 mm	0,09 mm	5 mm
VECTOR® 720	2530	0,8 / 0,4 mm	0,2/0,1 mm	7 / 5,5 mm
VECTOR® 730	2532	0,4 mm	0,1 mm	5,5 / 2 x 3,5 mm
VECTOR® 740	2540	0,7 / 0,35 mm	0,175 / 0,0875 mm	5 / 2,5 mm
VECTOR® 750	2542	0,35 mm	0,09 mm	2,5 / 2 x 2,5 mm
VECTOR® 900	2536	0,7 mm	0,18 mm	5 mm
VECTOR® 600	2524	0,9 mm	0,23 mm	9 mm
VECTOR® 620	2526	0,9 mm	0,23 mm	11 mm
VECTOR® 800	2533	0,8 mm	0,2 mm	9 mm
VECTOR® 820	2534	0,8 mm	0,2 mm	11 mm









**More information:**

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