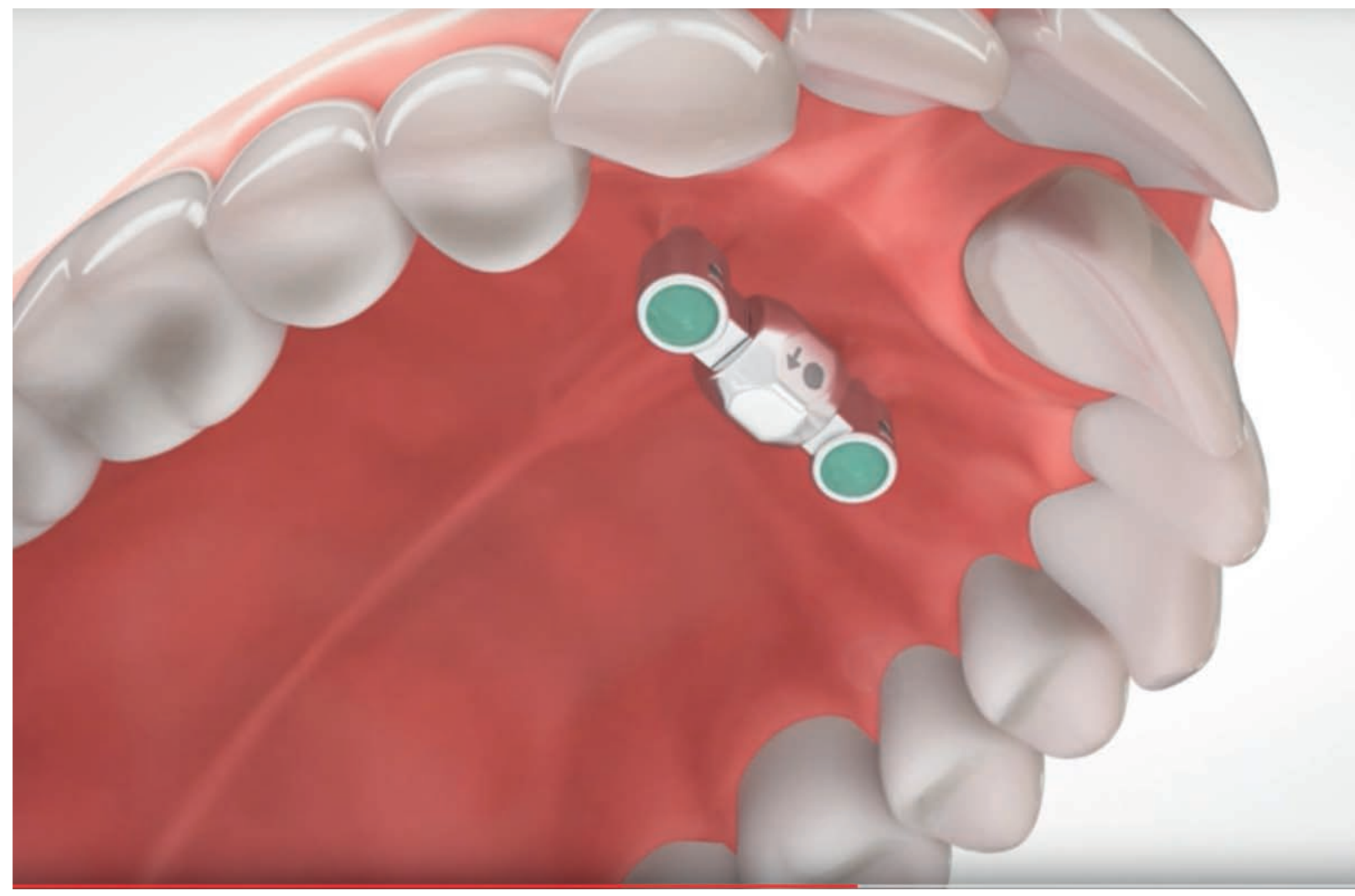


Easy and slow expansion!


◀ *PowerScrew* ▶

**More stability and variability
for your safe expansion!**

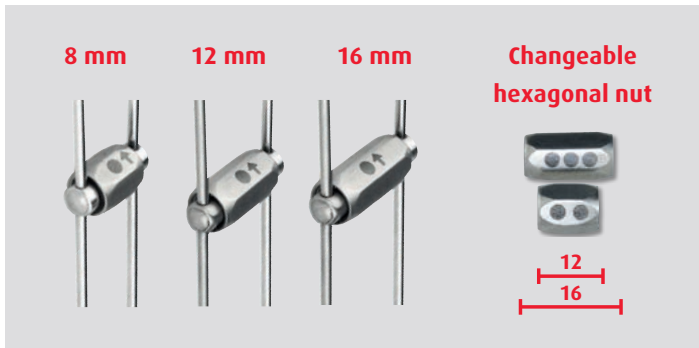
- **Small body, high stability**
- **Easy self activation by the patient**
- **Expansion up to 18 mm**



Product Information



The PowerScrew is a double telescope screw for use in palatal expansion devices. It is available in three sizes  (8, 12 and 16 mm). Its retention arms are extremely stable for greatest forces and torques. Activation with the flat spanner can be done quickly and simple by the patient on the hexagonal nut. By changing the hexagonal nut for the next biggest, the expander can be used to continue expanding.

Three sizes



Areas of application

The PowerScrew can be used for dental and skeletal expansion of a narrow upper jaw in children, adolescents and adults. It is used for dental braces devices (HAAS-type), dental cap splint devices, for the Hybrid Expander (partially miniscrew-borne and tooth-borne RME devices) and for purely miniscrew-borne expanders (MICRO2/MICRO4 expander).

Bone Borne 	Tooth Borne 
Hybrid	HAAS-type
MICRO 2	cap splint devices
Micro 4	

Indications

Used for dental expansion of a narrow upper jaw in:

- Children
- Adolescents
- Adults

Case studies

Claudia is 11 years old patient. She had a significant narrow palate which needed to be expanded. Thanks to the bone borne expander (MICRO 2) she could easily and slowly expand her maxilla by activating the MICRO 2 with the wrench.



Michael, 25 years old, has significant crowding due to lack of space in the anterior maxilla. With the MICRO 4 and the clinical "expansion protocol"*; surgery-free expansion was possible.



* Lecture handout of Dr. Winsauer (EOS2019)

Andrea, 10 years old. Her molars were distalized in the first step to create space for her incisors to erupt. In the second step the hybrid expander is used to widen the palate while retaining the distalized molars.



Your Benefits



High stability

The PowerScrew and its support arms are extremely rigid against the greatest forces and torques. This allows a safe and effective expansion.



Changeable hexagonal nut

For very narrow palates, a PowerScrew 8 expander is required. The replacement of the next larger hexagon nut (12/16) allows a widening of up to 18 mm with the same device.



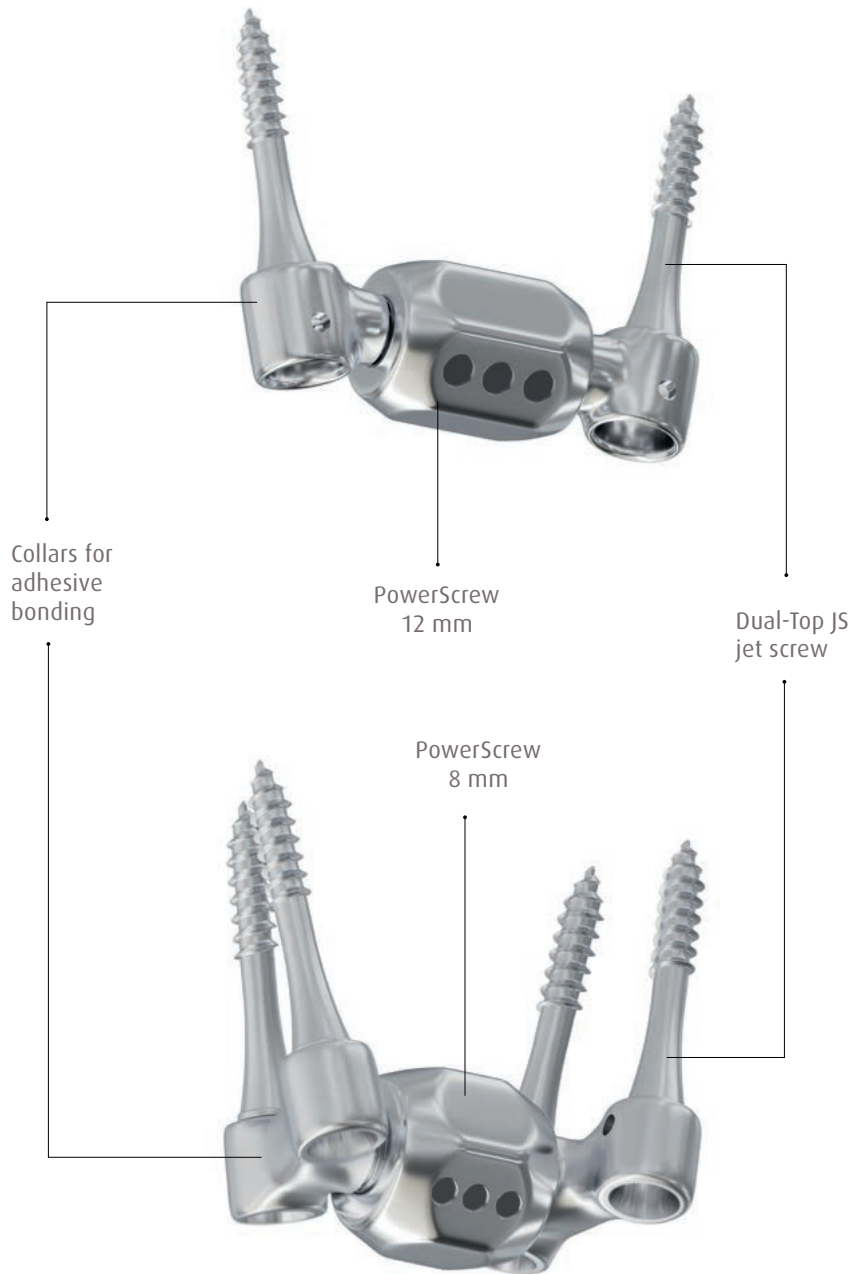
Easy self activation

Easy activation by the patient with an ergonomic open-end wrench for turning of the hex nut. of the PowerScrew.

The System

MICRO 2

Kids Max.
13 years old*



MICRO 4

Older than
13 years old *



Watch our videos for more details



Instructions for use

[https://www.tigerdental.com/
tiger/link/powerscrew_ifu](https://www.tigerdental.com/tiger/link/powerscrew_ifu)



Patient information

[https://www.tigerdental.com/
tiger/link/powerscrew_pi](https://www.tigerdental.com/tiger/link/powerscrew_pi)



Tutorial video

[https://www.tigerdental.com/
tiger/link/ps_micro2](https://www.tigerdental.com/tiger/link/ps_micro2)

* Every case is different and the final decision will depend on the Doctor's qualified opinion.

Equipment for Each Step

1. Screws & Impression



Dual-Top JS Jet screw
with smooth upper shaft.



Transfer caps



W&H Prosthodontic screwdriver IA-400



Hexagonal s crewdriver shaft

2. Production in Laboratory



PowerScrew
with holding arms, flat spanner



Collars for adhesive bonding



Flat wire
used for laser welding: PowerScrew and the MICRO4's adhesive sleeve.



Laboratory analogue

3. Installation



Part A+B adhesive composite



Composite gun
for filling the collars for adhesive bonding.



GC Ortho Connect Flow



Plastic spatula
to mix the phase II adhesive composite.

4. Removal



Collar extractor set H for screwdriver



Pliers for collars

Hands-On Courses with Patients

Visit us in Bregenz for our in-office hands-on courses with live patients:

1. Conveys in-depth theoretical knowledge of secure insertion and application of palatal mini screws for orthodontic anchoring.
2. Active observation of the insertion of mini-screws as well as the installation in/removal of devices from the patient.
3. Detailed exercises on a typodont.

PowerScrew courses:

- 27 September 2019
- 28 February 2020
- 25 September 2020

Topjet Distalizer courses:

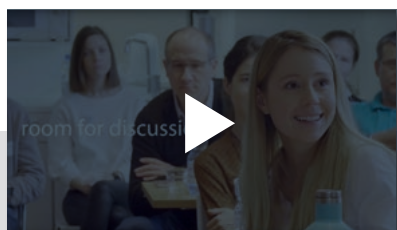
- 17 May 2019
- 22 November 2019
- 15 May 2020

Register here!

Eva Diem, Organization courses & lectures

Phone +43 5574 43 50 431

eva.diem@tigerdental.com



Use this QR code to watch:
Tiger Dental Course Trailer Video

Up to 18 mm expansion with the same device!






















◀ PowerScrew ▶

Recommended basic equipment for an expansion.

Configure your basic equipment yourself with our recommendation!

To order, please enter all items in the column „Your order quantity“. We are happy to help!

Article no.	Name & content <i>*(the choice depends on the patient case)</i>	Quantity per piece			Your order quantity
		PowerScrew Hybrid	PowerScrew MICRO 2	PowerScrew MICRO 4	
1. Set the mini anchor screws					
 10615	Dual-Top JS jet screw ø 2.5-JS-012 mm				
 10616	Dual-Top JS jet screw ø 2.5-JS-014 mm	2*	2*	4*	
 10566	Dual-Top JS jet screw ø 2.5-JS-016 mm	2*	2*	4*	
 10429	Hexagonal screwdriver shaft 113-MJ-204, length: 25 mm	1	1	1	
 11058	W&H Prosthodontic screwdriver IA-400	1	1	1	
2. Create impression					
10622	Transfer caps, 2 pcs/pkg	1	1	2	
 10787	Impression Tray perforated/flat, size 5	1	1	1	
 10632	Plastic Spatula DC composite, 3 pcs/pkg				
3. Production of the expander in the laboratory					
 11011	PowerScrew 8, with welded holding arms, flat spanner	1*	1*	1*	
 10965	PowerScrew 12, with welded holding arms, flat spanner	1*	1*	1*	
 10967	PowerScrew 16, with welded holding arms, flat spanner				
10968	PowerScrew 12 mm expansion screw (nut) 3 pcs/pkg				
10969	PowerScrew 16 mm expansion screw (nut) 3 pcs/pkg				
10701	Laboratory analogue long, 4 pcs/pkg	1	1	1	
 10841	Collars for adhesive bonding, straight, 4 pcs/pkg	1*	1*	1*	
 10593	Collars for adhesive bonding, profiled, 4 pcs/pkg	1*	1*	1*	
 10986	PowerScrew flat wire - 3 pcs per 5 cm	-	1	1	
4. Installation of the Expander					
10332	Phase II Part A adhesive composite, 6 g, 3 pcs/pkg	1	1	1	
10333	Phase II Part B adhesive composite, 6 g, 3 pcs/pkg	1	1	1	
10727	Composite-Gun 100 pcs/pkg	1	1	1	
 10868	Applicator, Saremco	1	1	1	
5. Removal of the Expander					
 10892	Collar extractor set H, Contents: collar extractor W, needle holder, hard metal finishing burr, thread grease	1	1	1	
 10611	Pliers for collars				

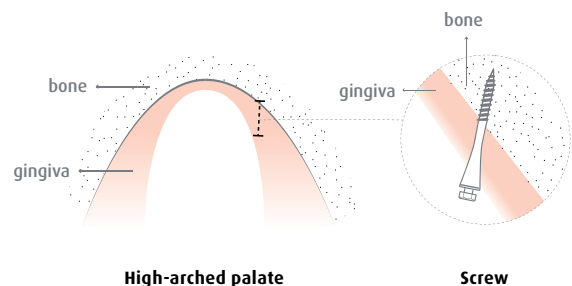
 Depending on the size of the palate.  For soldering/welding.  For lasers.  Instrument for reusing.

How to choose the screws?

The screw is chosen depending on the patient palate.

For expansions a screw with 2,5mm diameter ensures maximal stability. The screws are available in 12, 14 and 16 mm of length. The decisions of the screws lengths depend on the dentition and form of the palate.

“For a normal palate I usually choose between 12 and 14 mm, depending on the dentition of the patient. For a high-arched (gothic) palate longer screws are required.” - Dr. Heinz Winsauer, Bregenz, Austria.



High-arched palate

Screw

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TopJet  ***Distalizer***

TopStop

PowerScrew  

Flex Developer 

Herbst Developer 

Mini Mold 

TopClip

Piggy back spring

Reflex 
Communicator