

# Products 2021



reddot award 2019  
best of the best

# Willkommen in der Morita-Welt.

**Uniqueness always manifests itself in the differences. For Morita this not only means always being one step ahead: in performance, innovation, quality and design. We have also always maintained the principles of our Japanese culture – for over 100 years they have shaped our overall corporate activities.**

This special “Spirit of Culture” shows itself in everything that we do: consequently we take the greatest care in the development of all products, strive relentlessly for technological evolution, set the highest aesthetic standards and maintain an appreciative, respectful approach with all our customers and partners. For us the preservation, restoration and improvement of the quality of life are based purely on economical aspects. The company founder Junichi Morita already created this mission statement in the early days of our family company, which is now managed by the third generation.

We take pride in the fact that the Morita Group today is now among the most important manufacturers of medical-technical products worldwide – and this is also an incentive for us to continue to inspire discerning users with unique solutions.

## The Spirit of Culture.



# Focused on life.

## Of Innovations and Milestones.

Question the existing and follow new paths – with clear focus on added value for both practitioner and patient. The results achieved through consistently putting these standards into action are seen in the numerous pioneering developments throughout Morita's history. The best example is the Spaceline treatment unit, introduced in 1964. The concept with its back-friendly method of treatment in the 12 o'clock position and the comfortable horizontal lying position was revolutionary at the time.

The same goes for the panorama radiography unit PANEX-E from 1967. It was able to provide images of the whole dental arch and – contrary to solutions provided by other manufacturers – with vastly reduced radiation levels. Over the course of the next decades, Morita acquired unrivalled expertise in diagnostic imaging and has proven this time and again by introducing far superior products.



## Our Benchmark: Perfection.

In 1991, Morita set an important milestone in endodontics, a particularly sensitive area of dentistry, with the introduction of the Root ZX, the world's first apex locator with impedance measuring. Morita has also been offering premium laser treatment solutions for over 20 years which stand out from the competition through their high value in daily practice. As varied as these innovations may be, they all have one thing in common: they enable better treatment as well as optimum outcomes, thus ensuring the greatest possible satisfaction for both dentists and patients.



# Form meets function.

Morita's Design Philosophy

**From idea to project sketch, from the first prototype to the final cut: In all phases of product development, we make a point of combining the best functionality with exceptional design.**

Only when both aspects merge to form a single unit does the result earn the name of Morita – be it handpiece or treatment unit, imaging unit or endodontic motor. Apart from numerous international design awards, such as the iF Gold Award 2017 for the Veraview X800, the German Design Award 2018 for the Tri Auto ZX2 or most recently the

reddot award “best of the best” for the Signo T500, it is mainly the feedback from our customers that strengthens our resolve to consistently put this high esthetic standard into practice.

Because it is our strong belief: The idea of perfection behind any dental treatment must be mirrored in every detail of dental practice equipment. This assures the patient from the very beginning that nothing has been left to chance – and the practitioner can rely on superior quality and maximum precision.



# Content

## For a perfect perspective Diagnosis and imaging from Morita

### Cone Beam CT System

3D Accuitomo 170 14

### 2D / 3D Imaging

Veraview X800 18

Veraviewepocs 3D R100 24

### Imaging Software

i-Dixel Software 29

i-Dixel WEB 30

exoplan 32

### 2D Imaging

Veraviewepocs 2D 36

Veraview IC5 HD 38

### Intraoral Imaging

Veraview iX 40

## Ingeniously designed Treatment units from Morita

### Classic Units

Soaric 46

Signo T500 52

Signo G10 II OTP 58

### Whip-arm Concept

Signo G10 II S 64

Signo G10 II S Ortho 68

### Ergonomic Concept

Spaceline EMCIA 74

Spaceline EMCIA Ortho 78

## Small and perfectly designed Handpieces and instruments from Morita

### Turbines

TwinPower Turbines	86
--------------------	----

### Straight and contra angle handpieces

TorqTech	90
TorqTech and Ortho-Strips	94

### Maintenance system

Lubrina 2	96
-----------	----

### Motors

Torx micro motors	98
-------------------	----

### Scaler

Ultrasonic scalers	102
Air scaler tips	114

### Hand instruments

118
-----

## Endodontics a cut above the rest Morita endodontic systems

### Apex locators

Root ZX mini	124
DentaPort Root ZX	125

### Canal preparation systems

TriAuto mini	126
--------------	-----

### Measuring and canal preparation systems

DentaPort ZX Set OTR	130
Tri Auto ZX2	134
Set TriAuto mini	138

### Files

EndoWave	140
----------	-----

### Material

EndoWave Gel	148
CromaCore	149
Demonstration and training aids	150
Injection needles	151

## Gentle and effective

### Laser system from Morita

### Laser system

AdvErL EVO	153
Lasertips	154

## For a perfect outcome

### Morita laboratory devices

### Laboratory devices

Articulator YS-B	156
------------------	-----

## Extremely strong, extremely flexible GUMMETAL® orthodontic wire

GUMMETAL	158
----------	-----

## Show your teeth

### Demonstration models from Morita

### Demonstration models

Base models	163
Dental care models	164
Implant models	165
Growth models	166
Periodontal surgery models	167
Phantom head	168

# For a perfect perspective

Diagnosis and imaging from Morita

## Because every detail counts.

When it involves precisely detailed X-ray diagnosis, there is no alternative to Morita – our company is ultimately not only a pioneer in the field of imaging procedures, but is also one of the international market leaders with its high-quality diagnostic units. Our success did not happen by chance: Morita units provide the diagnostic basis for precise, reliable treatment. With a brilliant resolution of up to 80 µm they reveal every detail – and always take patient health into account during imaging; because image quality and minimal radiation dose are by no means mutually exclusive. To cover as many indications as possible there is a variety of systems available in our portfolio – from cone-beam computed tomography through 2D/3D combination units to an intraoral X-ray unit.

### **Cone Beam CT System**

(3D Accuitomo 170) .....From page 14

### **2D / 3D Imaging**

(Veraview X800,  
Veraviewepocs 3D R100)..... From page 18

### **Imaging Software**

(i-Dixel Software, i-Dixel WEB, exoplan)..... From page 29

### **2D Imaging**

(Veraviewepocs 2D, Veraview IC5 HD)..... From page 36

### **Intraoral Imaging**

(Veraview iX) ..... From page 40

The Veraview X800 can be used for different specifications and requirements: thanks to its three models in S, M and L.



# 3D Accuitomo 170

Excellent perspectives

## Brilliant (re-)solution.

Diagnosis marks the starting point of all treatment approaches. Sharp, detailed diagnostic images are therefore absolutely essential in the X-ray sector. At the same time the aim of dentists, radiologists and ENT doctors is to keep the radiation exposure as low as possible for the patient. Morita's 3D Accuitomo 170 meets this challenge – and combines both features masterfully. It thus not only reduces radiation exposure by 50 percent in comparison with medical CT, but also provides internal images accurate in every detail in all areas of the head, including the finest bone structures of the inner ear, anatomy of the paranasal sinuses and teeth. Cone-beam computer tomography thus offers a wide range of applications – from endodontics through orthodontics and periodontology to oral surgery and temporomandibular joint diagnosis.

High-resolution flat panel detector

Four selectable imaging modes

NOW  
in new **DESIGN**  
and with new  
**FEATURES**

3 year guarantee

(Order no. 1622)

## Practical application: The 3D Accuitomo 170.

Independent of whether it involves individual root structures, fractures, cysts, tumors or assessment of bone thickness, the precise CBCT images of the 3D Accuitomo 170 always provide internal views accurate in every detail. This is possible due to various functionalities: operators in dental, radiological and ENT practices can choose from a total of nine different cylindrical image volumes with diameters between 40 and 170 millimeters in

resolution sections up to 80 µm voxels. Four imaging modes are also available; including the worldwide unique high-speed mode. This creates images in only 5.4 seconds, minimizing motion artifacts. The integrated zoom reconstruction is used for creating sections from originally recorded data. This function allows magnification of required areas any time with 80 µm.

### For the highest demands:

The new high-resolution digital flat panel detector generates precise images of neck and head structures.

### Maximum minimum:

The intelligent technology enables a resolution of more than 2 LP/mm (at 10 % MTF) with greatly reduced radiation dose.

### Examine more closely:

Section magnifications of important areas can be created with voxel sizes of 80 µm from recorded images.

### Lowered:

The patient is seated during imaging, which prevents motion artifacts.

### Option – Free choice:

i-Dixel WEB as platform independent Software for viewing the diagnostic images on all your devices (Tablet/Apple/Windows).

Option – Improved transaction paths:  
Improved DICOM features  
(RDSR/DICOM SEND/DICOM Worklist).

### On the right side:

Exact patient positioning thanks to positioning laser beam and scout function.

### Depending on indication:

Four imaging modes are available (180° and 360°) for selection: standard, high-resolution, Hi-Fi and high-speed mode.

### Flexibility:

9 FOVs  
of Ø 40 x H 40 mm to  
Ø 170 x H 120 mm.

### Smart software:

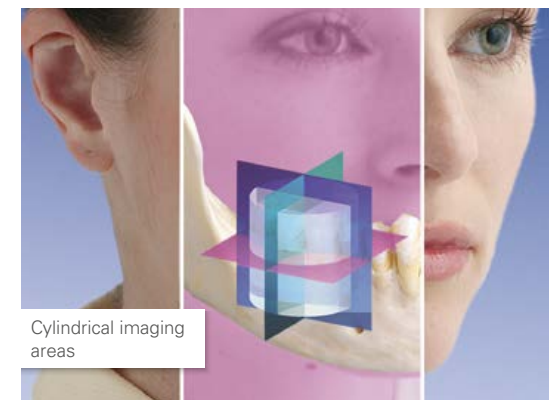
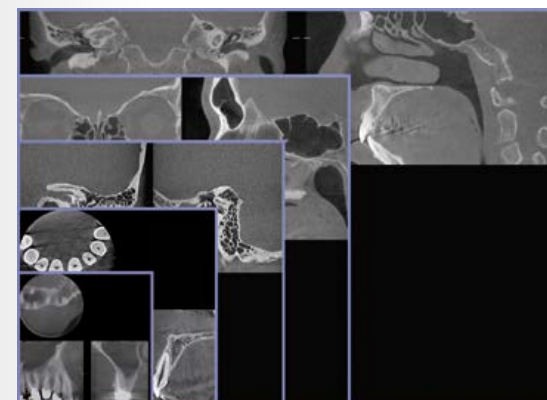
Any resulting motion artifacts can be deducted afterwards using a reconstruction angle of 180°.

Individual solution:  
Individual kV and mA  
settings for Low Dose  
images suitable.



## At a glance: Important equipment in detail.

Tailored to the requirements of dentomaxillofacial diagnosis, the Accuitomo 170 is a preferred imaging system in dental, radiology and ENT sectors.



Cylindrical imaging areas

### ■ Additional functions

- Dicom Modality Worklist (optional)
- Dual Curved MPR
- 3D Zoombox
- Zoom reconstruction
- Display: DAP and CTDI
- Integration in existing network using the i-Dixel Software (from page 28 onwards.)

### 3D Accuitomo 170 equipment package

(Order no. 1622)

- 1 Capture PC (2 year guarantee)
- 1 Server PC (2 year guarantee)
- 5 Client software licenses

# Veraview X800

Time for a new generation



**Networked:**  
Integration in existing network systems via PC or tablet using i-Dixel or i-Dixel WEB software.

## All-rounder in a class of its own.

Our new, revolutionary development in X-ray technology – the Veraview X800 – shows every detail with absolute sharpness. Thanks to the most advanced technology the 2D/3D combination system brings together minimum radiation exposure with unique image quality, providing the perfect basis for all-round, reliable treatment planning. The unit not only features innovative functionality, but also leaves a lasting impression due to its elegant design. In 2017 the Veraview X800 received the prestigious iF Design Award in Gold.



**S, M, L:**  
The Veraview X800 is available in three versions.



Face-to-face positioning

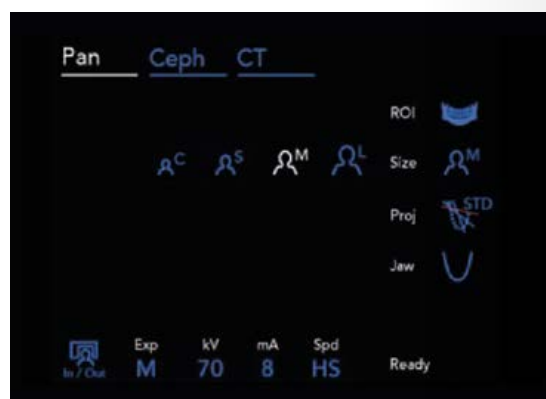
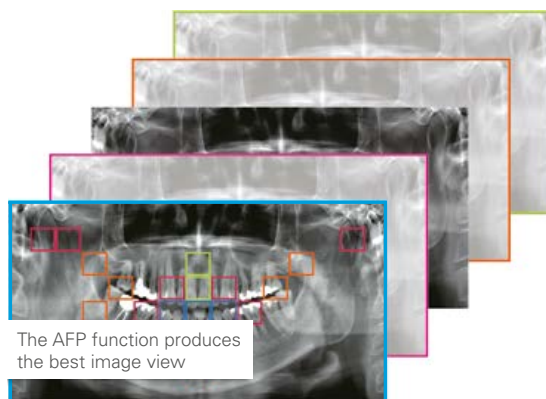


Intuitive user prompting via touch panel

3 year guarantee

(Order no. 1725/1755/1790)

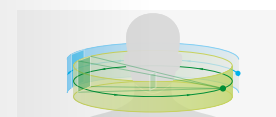
## Practical application: The Veraview X800 combination system.



What is more practical, two-dimensional or three-dimensional X-rays? The answer ultimately depends on the respective patients and their indication. However, Morita's Veraview X800 2D/3D combination system is recommended as a versatile all-rounder to ensure you are optimally equipped in daily practice for all cases. The unit combines market-superior imaging technology with numerous innovative features. For example the eleven different imaging volumes, which

consistently guarantee the lowest radiation dose yet the best image quality. The Veraview X800 has a lot to offer not only during but also at the end of imaging: the integrated zoom reconstruction enables subsequent calculation of an image with 80  $\mu\text{m}$  without having to generate a new image for the purpose. Additional features also include short scan times, practical face-to-face positioning and horizontal X-ray beam, which reduces artifacts to a minimum.

**All-in-one:**  
Creation of high-quality, panoramic, cephalometric and 3D images.

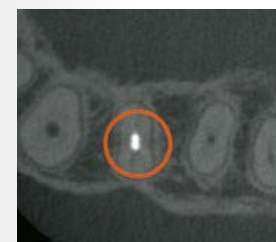


**Needs-based:**  
360° mode for many details, 180° mode with short exposure time and low radiation dose.

**Peak values:**  
With an image field of view of  $\varnothing 40 \times H 40 \text{ mm}$  the voxel size is 80  $\mu\text{m}$  – with a resolution of 2.5 LP/mm MTF is 10 %.



**Minimum artifacts:**  
Horizontal alignment of the X-ray beam produces top-quality 3D images.



**Eagle eye:**  
A high-resolution image section with 80  $\mu\text{m}$  can be reconstructed on the basis of an image with 125  $\mu\text{m}$ .

**Targeted:**  
Thanks to the scout function a partial 3D image of the fields to be imaged can be precisely and easily determined in advance.

**View of the essential features:**  
With its innovative triangular shape, the unique Reuleaux imaging format increases congruency with the natural dentition and shows only the relevant region of interest.

**At eye level:**  
Face-to-face positioning simplifies communication with the patient and exact adjustment of the positioning laser beam.

**In focus:**  
Depending on the model, 11 imaging volumes can be selected – from  $\varnothing 40 \times H 40 \text{ mm}$  to  $\varnothing 150 \times H 140 \text{ mm}$ .

At a glance:  
Important equipment in detail.

Field of view (FOV)	Voxel size	180° mode	360° mode	Type S	Type M	Type L
Ø 40 x H 40 High Res	0.080 mm					
Ø 40 x H 40		✓	✓	✓	✓	✓
Ø 40 x H 80	0.125 mm					
Ø 80 x H 40		✓	✓		✓	✓
Ø 80 x H 50	0.125 mm		✓	-	✓	✓
Ø 80 x H 80						
R 100 x H 40 <sup>1</sup>		✓			✓	✓
R 100 x H 50 <sup>1</sup>	0.125 mm		-	-	✓	✓
R 100 x H 80 <sup>1</sup>						
Ø 150 x H 50 <sup>2</sup>		-	✓	-	-	✓
Ø 150 x H 75 <sup>2</sup>	0.320 mm					
Ø 150 x H 140 <sup>3</sup>						

<sup>1</sup> R100: Dental arch FOV (Ø 100 equivalent)  
<sup>2</sup> Data used equivalent with 180° images.  
<sup>3</sup> Two 360° images, upper and lower.  
Data used equivalent with 180° images.

- **Low radiation exposure thanks to:**
  - 3D dose reduction program
  - Short scan times of only 9.4 seconds
  - Zoom reconstruction
  - Unique Reuleaux imaging format with Veraview X800 M/L
  - Sharp panoramic images thanks to:
    - Optimized imaging fields of view: the AFP (Adaptive Focal Point) function analyses several image layers and selects the optimum panoramic layer.
    - Enhanced contrast distribution (AGS function)
    - Automatic image enhancement (AIE-HD) shows every detail in sharp definition.
- **Innovative 2D functions**
  - 2D low-dose images
  - Three shapes of jaw available (standard, narrow, wide)
  - Bite-wing images
- **Additional programs for Panoramic images**
  - OPG
  - Pedo (pedodontic images)
  - Shadow reduction panoramic image
  - Orthoradial panoramic image
  - Sinus
  - TMJ quadruple image
  - Segmented panoramic image
- **Additional programs for cephalometric images**
  - Posterior – anterior
  - Lateral
  - Handwrist radiograph

Veraview X800 P  
equipment

- 1 Integrated pan and 3D sensor
- 1 Capture box (3 years warranty)
- 1 i-Dixel Software incl. 5 client licenses
- 1 i-Dixel WEB Software
- 1 Chin rest
- 1 Bite rest
- 1 Lip-nose rest



(Order no.  
Veraview X800 S P - 1790  
Veraview X800 M P - 1725  
Veraview X800 L P - 1755)

Veraview X800 CP  
equipment

- 1 Integrated pan, 3D and ceph sensor
- 1 Capture box (3 years warranty)
- 1 i-Dixel Software incl. 5 client licenses
- 1 i-Dixel WEB Software
- 1 Chin rest
- 5-Port-Switch
- 1 Bite rest
- 1 Lip-nose rest



(Order no.  
Veraview X800 S CP - 1795  
Veraview X800 M CP - 1745  
Veraview X800 L CP - 1765)

# Veraviewepocs 3D R100

Cleverly combined

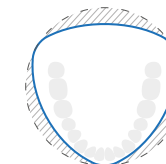
## Unique image quality for every practice.

What sets an excellent imaging system for dentistry apart? Our answer: reliable technology, wide range of applications and of course the greatest possible detail accuracy. The 2D/3D combination system Veraviewepocs 3D R100 from Morita combines all these features. Panoramic photos, 3D images and optional cephalometric pictures can be taken using the Veraviewepocs 3D R100 – in outstanding, far above-average image quality. A particular highlight is the imaging format in the form of a Reuleaux triangle, exclusive to Morita; this generates a unique field of view that only focuses on the relevant areas and saves patients from being exposed to unnecessary radiation.

Six different image volumes

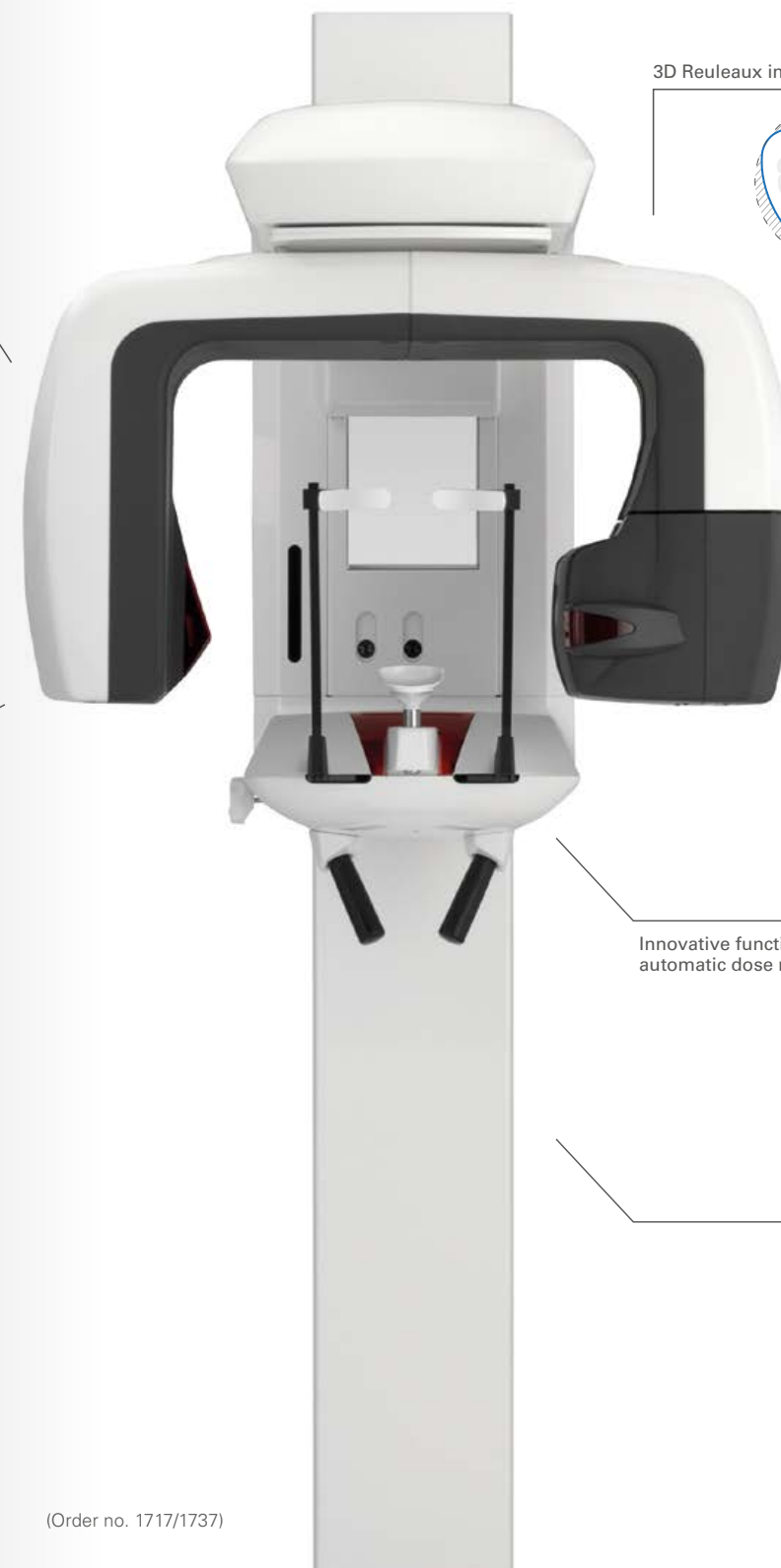
Very high resolution with  
125 µm voxel size

3D Reuleaux imaging format



Innovative functions for  
automatic dose reduction

3 year guarantee



(Order no. 1717/1737)

## Practical application: Veraviewepocs 3D R100.

Whether endodontics, implantology or oral surgery, whether foreign-body analysis in the root canal or detailed determination of the bone availability to ensure optimum implant planning: our 2D/3D combination system Veraviewepocs 3D R100 performs valuable services for the most diverse dental applications. Radiation exposure for the patient is always as low as possible thanks to the special Reuleaux imaging format, as focus can only be placed on sections relevant to treatment.

The integrated 3D dose-reduction program reduces the effective dose by up to 60% compared with the standard program, accompanied by optimized representation of the soft tissue. Other advantages of the two imaging multit talents include easy 3D positioning using Panoramic Scout, the permanent automatic exposure in real time for panoramic photos and six selectable image volumes of Ø 40 x 40 to Ø R100 x 80 mm.

**All-in-one:**  
creation of panoramic photos, 3D images and optional cephalometric pictures.

**On-the-spot:**  
before 3D imaging, a HighRes panoramic photo can be taken that can be used by the dentist to determine the required area for the 3D volumes.

**Always perfect:**  
mispositionings of up to two centimeters can be compensated in the panoramic images at a later stage; this avoids taking multiple images.

**Versatile:**  
Both models provide six selectable image volumes of Ø 40 x 40 to Ø R100 x 80 mm.

**Low radiation dose:**  
due to the revolutionary Reuleaux imaging format and Dose Reduction Program (radiation exposure only 9.4 seconds).

**Highly precise:**  
easy patient positioning thanks to light beam sensor.

**The correct exposure:**  
using permanent real-time automatic exposure with panoramic photos.



## At a glance: Important equipment in detail.

### Veraviewepocs 3D R100 P equipment

- 1 Integrated pan and 3D sensor
- 1 Capture PC (2 years warranty)
- i-Dixel Software incl. 5 client licenses
- 1 Pack of mouth pieces
- 1 Chin rest
- 1 Bite rest
- 1 Lip-nose rest

(Order no.  
Veraviewepocs 3D R100 P - 1717)



### Veraviewepocs 3D R100 CP equipment

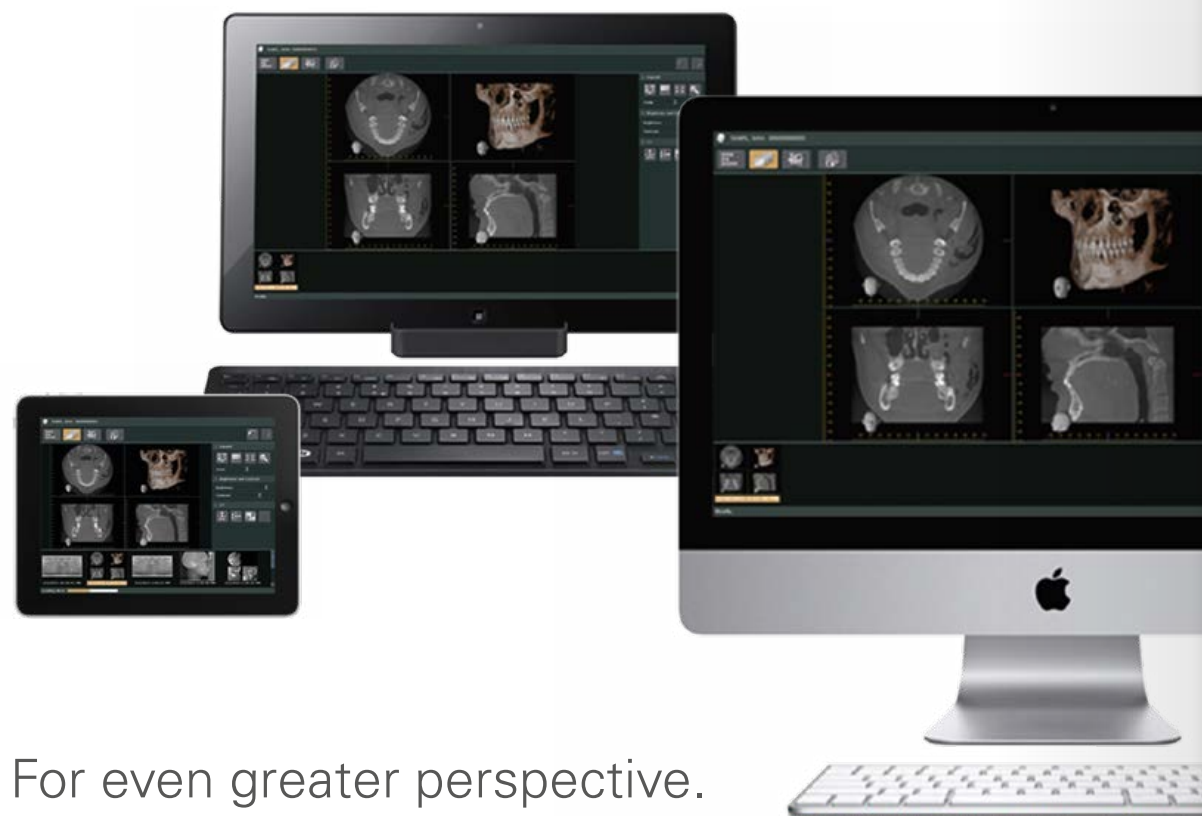
- 1 Integrated pan, 3D and ceph sensor
- 1 Capture PC (2 years warranty)
- i-Dixel Software incl. 5 client licenses
- 1 Pack of mouth pieces
- 1 Chin rest
- 1 Bite rest
- 1 Lip-nose rest

(Order no.  
Veraviewepocs 3D R100 CP - 1737)



# i-Dixel/i-Dixel WEB/exoplan

Well-organized



## For even greater perspective.

In addition to diagnosis units, Morita also provides a smart, user-friendly solution for seamless documentation and easy management of X-ray images: the i-Dixel image processing software. This program includes a large number of added advantages for dentistry. As well as optimized treatment planning, it also provides more efficient processes and is more cost-effective. A clever alternative is also i-Dixel WEB, which can be easily accessed from all workplaces via a web browser – a further step towards the digitized dental office.

## Practical application: The i-Dixel image processing software.

From the initial image to final diagnosis: i-Dixel provides a large number of features for a comprehensive treatment concept. The software includes, for example a drawing function for the mandibular canal and a tool for volume rendering, which converts to three-dimensional X-ray images which can be rotated, magnified and sliced in real time. In addition to image processing, i-Dixel offers operators and their team a comprehensive

patient education feature because what is a perfectly natural work instrument for the dentist, presents a problem for many patients, i.e. they are not used to viewing and assessing X-ray images. i-Dixel enables a vivid depiction; diagnosis, treatment planning and the entire treatment procedure can be comfortably and clearly visualized on the monitor.

### Change of perspectives:

Creation of volume rendering that can be rotated, magnified and sliced in real time.

### Open:

Zeiss microscope camera data can be incorporated in i-Dixel easily and uncomplicated.

### Thinking ahead:

Users can easily export text regarding results from i-Dixel in different text formats.

### Compatible with DICOM 3.0

### Clarified:

Creating a implant presentation.

### Positional markings:

i-Dixel allows marking of the mandibular canal to show its position with regard to the implant position and its buccal and lingual position.

### Focused:

Results are stored directly in i-Dixel each with the relevant framing.

### Best connected:

Twain interface: By using Twain interface, most of IP scanner, which are supported the Twain interface, can be connected and acquired into i-Dixel software.

VDDS interface: i-Dixel software support the VDDS interface.

### One Data & One Volume Viewer:

All image data can be accessed on internal computers in the clinic with the software installed. Observation of images on non-network computers can be achieved with one Data Viewer, and the One Volume Viewer without installing i-Dixel.



(Order no. 1500-100)

## Practical application: The browser-based i-Dixel WEB.

Working with digital CBCT and X-ray images produces large amounts of data – previously terminal devices with a high computing power and memory capacity were required for viewing the data. For this data management Morita developed the web-based i-Dixel WEB software, which enables evaluation of digital X-ray images via the web browser. This means: in contrast to

i-Dixel the mobile version does not have to be installed at all workplaces, but is stored on a central server in the practice. This allows X-ray images and CBCTs to be retrieved and processed via all terminal devices with access to the network – when and where the operator wants. In summary: a future-oriented, practical solution, which greatly facilitates data handling within the practice.

**Anytime and anywhere:**  
Operators can access i-Dixel WEB via their web browser with a range of terminal devices throughout the entire dental office.

**Server solution:**  
No software installation required as i-Dixel WEB is accessed via the web browser.

**Everything included:**  
i-Dixel WEB includes the whole range of performance of the i-Dixel Software – allowing both 2D and also 3D image processing.

**Free choice:**  
i-Dixel WEB is platform independent.

**Directly:**  
i-Dixel WEB allows direct use at the treatment unit via monitors.

**Safety first:**  
Information security is guaranteed by an SSL security protocol.



(Order no. 1500-700)

**Big Data:**  
Data is transferred via cable or Wi-Fi.

## Hardware minimum requirements for 3D X-rays.



### ■ i-Dixel

#### PC requirement for Server and Client\*

- CPU-Minimum Requirements: Can run SQL server, recommended "Intel Core i3" equivalent or faster
- Memory-Minimum Requirements: Can run SQL server, recommended 4 GB or more
- Storage: Duplication storage system (Two drives are necessary to perform backup)
- At least 1 available USB port (USB 2.0 or later)
- LAN: 1 Gbps or faster
- OS: Windows 7 and 10 Professional edition

\*This specification is for small office only. Please contact your Morita expert for large office.

### ■ i-Dixel WEB client

#### Requirement for Windows PC\*\*

- OS: Windows 7 and 10 Professional edition
- Browser: IE 11 or Edge 13 or higher

### ■ Requirement for Mac PC\*\*

- OS: El Capitan 10.11 or higher
- Browser: Safari 9 or higher

### ■ Requirement for iPad\*\*

- Generation: iPad 3rd or higher
- Browser: Safari 9 or higher

\*\* Subject to change

# exoplan

Intelligently integrated



## Everything flows.

Maximum user friendliness and seamless digital workflow: based on the well-known exocad platform, the powerful software exoplan guides the user step-by-step through the entire process of implant planning. Particularly practical: thanks to the open, manufacturer-neutral software architecture the open 3D scanner, 3D printer or milling machines integrate absolutely flexibly in the workflow to suit all requirements. Furthermore, users can take advantage of comprehensive databases of implant systems and prosthetic components integrated in the software. Keyword integration: with exoplan users can also utilize the various advantages of DentalCAD, the CAD software of exocad, which greatly facilitates planning and fabrication of implant-borne, temporary and permanent dentures.

## Practical application: exoplan implant-planning software.

**Multi-inclusive:**  
over 250 implant systems of leading manufacturers and more than 2,000 prosthetic components.

**Open for a wide range:**  
manufacturer-independent software architecture ensures maximum compatibility.



(Order no. 1510-100)

**Intuitive:**  
step-by-step software solution for navigated implantology.

### ■ exoplan

#### Software requirements

- CPU: Quad-Core and 2.8 GHz
- RAM: 8 GB
- Graphics card: Nvidia or AMD Radeon, Graphics processor with at least 2 GB of video RAM or better required
- Screen resolution: 1080p (1920 x 1080, or more)
- An Internet connection is required
- Windows 7, Windows 8.1 and Windows 10 (each 64 Bit)

# Veraviewepocs 2D / Veraview IC5 HD

Modern classics

## Optimally balanced.

The most minimally invasive treatment already begins with diagnosis – meaning radiation exposure for the patient should be as low as possible. To ensure both reliable and precise diagnosis dentists also require highly detailed images. Morita 2D imaging systems bridge this gap with consummate ease and are therefore an integral part of dental diagnosis in many practices. Both the Veraviewepocs 2D and also the Veraview IC5 HD provide dentists and orthodontists with detailed insights, despite low radiation exposure.

Highest image quality



Quick, easy patient positioning

Panoramic images



## Practical application: The Veraviewepocs 2D.

With the Morita Veraviewepocs 2D, operators can depend on a system which provides digital images at high speed. The exposure time for panoramic images is optionally 7.4 seconds with fine high-speed mode and 14.8 seconds with super fine mode for cephalometric images it is only 4.9 seconds. Despite short exposure, the result is convincing in the true sense of the word: the Veraviewepocs 2D delivers images accurate in every detail with fine density and sharp contrast.

This is made possible, among other things, by innovative technologies such as Digital Direct Automatic Exposure (DDAE) and Automatic Image Enhancer (AIE). To meet the diverse requirements of the dental office, the system also provides an entire package of innovative projection options; for example the orthoradial panoramic image. This reduces overlapping of adjacent teeth in the X-ray image – thus always guaranteeing highly informative images.

### Optimum images:

DDAE controls the X-ray tube voltage (kV) and current (mA) simultaneously by detecting X-rays. This improves the dynamic range, and, along with Automatic Exposure (AE), results in exceptionally clear images with the best possible contrast and even density.

### Viewpoint:

Autofocus function, 3x laser and gentle servo drive enable easy, precise patient positioning.

3 years guarantee



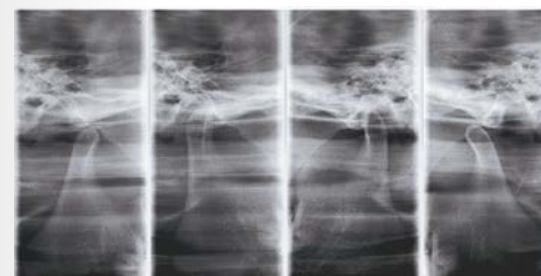
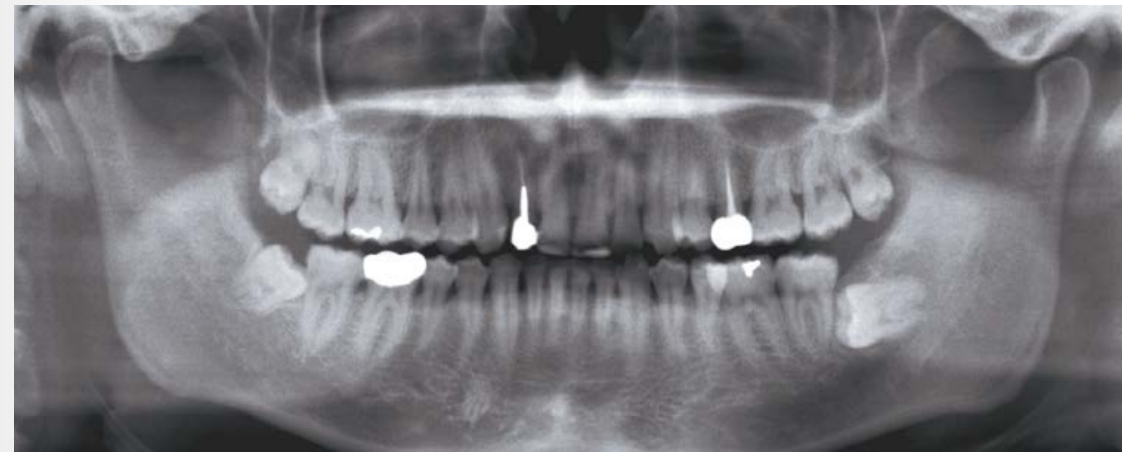
### High-Speed:

In the fine high-speed mode the exposure time is 7.4 seconds.

### High resolution:

Already in the fine high-speed mode.

## At a glance: Important equipment in detail.



### ■ Panoramic program

- OPG 1.3 and 1.6
- Pedo (pedodontic image)
- Shadow reduction panoramic image
- Orthoradial panoramic image
- Sinus
- TMJ quadruple image

### ■ Cephalometric imaging

- Posterior – anterior
- Lateral
- Handwrist radiograph

## Veraviewepocs 2D P equipment

(Order no. 1752)

- 1 Pan sensor
- 1 CD software
- 1 Pack of mouthpieces
- 1 Chin rest
- 1 Lip-nose rest
- 1 Large base

## Veraviewepocs 2D CP equipment

(Order no. 1762)

- 1 Pan/Ceph sensor
- 1 CD software
- 1 Pack of mouthpieces
- 1 Chin rest
- 1 Lip-nose rest
- 1 Large base

## Practical application: Veraview IC5 HD.

In dental radiology clear, detailed images are a decisive factor in ensuring concrete and correct diagnosis. With the Veraview IC5 HD Morita has launched the latest generation of digital panoramic X-ray unit that fully meets this high demand. A high-speed mode takes only 5.5 seconds. The system is therefore not only significantly quicker but also correspondingly reduces radiation

exposure for the patient. The Veraview IC5 HD also provides the advantage of a high-definition mode of 96 µm and fully automatic X-ray imaging. Thanks to fully automatic X-ray imaging the unit no longer requires kV or mA settings; the dentist must only select the required program – panorama, TMJ or pedodontic – at the press of a button. The system then starts imaging immediately.

### High definition:

10 second imaging for an optimum, high-resolution image.

### Fully automatic:

The operator only selects the imaging program required; no further settings are required.

**Panoramic programs:**  
OPG 1.3, pedodontic and TMJ quadruple image.

### 3 in 1:

Low power consumption, low weight and attractive design.

### 3 years guarantee

### In Position:

Quick, easy patient placement with the aid of three laser beam positioners.

### Only the best:

First-class image quality thanks to Digital Direct Automatic Exposure (DDAE) and Automatic Image Enhancer (AIE).



(Order no. 1382)

## At a glance: Important equipment in detail.



Detailed, sharp images.

The Veraview IC5 HD provides real added value for dental radiology with its short exposure time and equally quick and simple patient positioning.

### Veraview IC5 HD equipment

(Order no. 1382)

- 1 Pan sensor
- 1 CD software
- 1 Chin rest
- 1 Lip-nose rest
- 1 Large base



# Veraview iX

In a nutshell

## Uncomplicated and indispensable.

Highest precision, uncomplicated handling – these are the key words where intraoral X-rays are concerned. Morita developed the Veraview iX intraoral X-ray systems based on many years of experience in the field of imaging procedures. The Veraview iX is available in both the space-saving version with patient chair and also for wall mounting, and is very impressive to use producing extremely high-quality images. Typical for Morita: This type of X-ray only exposes the patient to an extremely low level radiation dose.



Illuminated control panel

Height-adjustable sitting position

2 years guarantee



(Order no. 1242)

## Practical application: The Veraview iX intraoral X-ray unit.

High-resolution images, simplest operation and space-saving design: Morita's Veraview iX convinces across the entire spectrum. Literally: as the intra-oral X-ray unit is equipped with two convergent LED light beams, which facilitate exact positioning of the image field of view. Thanks to a high-frequency long-lived generator the unit also produces hard X-ray beams, which enable a lower radiation dose

in comparison with pulse emitter systems. This allows the voltage to be set optionally to 60 or 70 kV.

**Practical:** The diagnosis unit has a practical, small head and can be moved quickly and easily to the correct position thanks to a carrier arm equipped with several hinges. The Veraview iX can thus be comfortably adjusted to suit any size of patient.

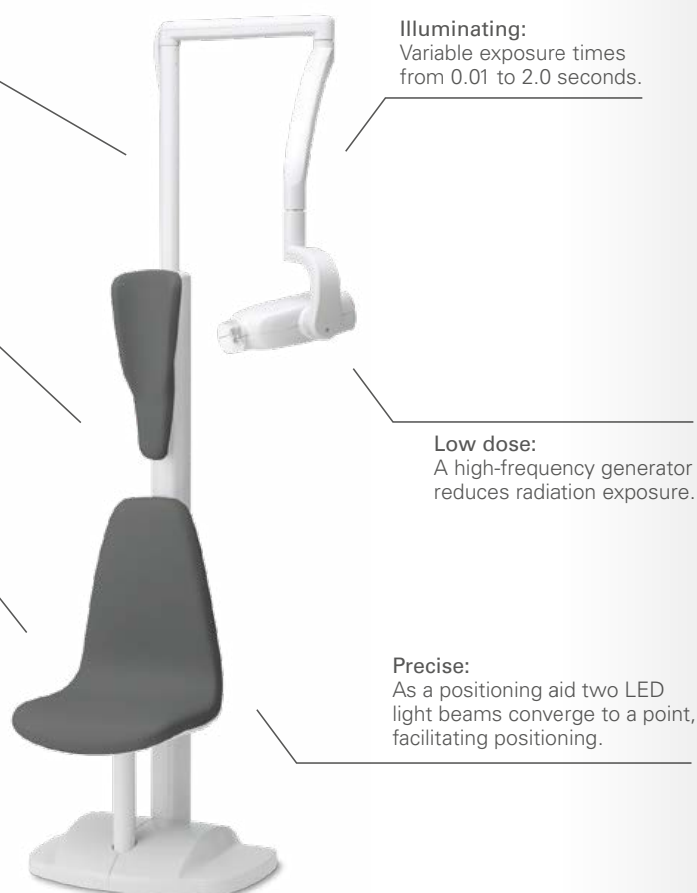
**Two versions:**  
Wall mounted or with patient's chair.

**According to program:**  
Selectable exposure levels for analogue and digital X-ray images.

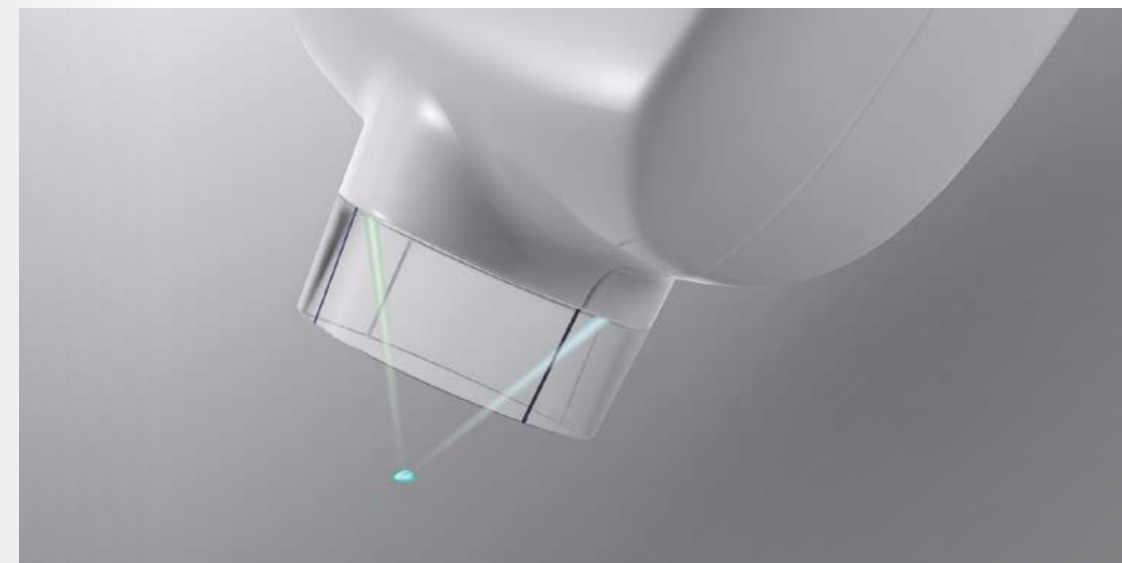
**Made to fit:**  
The seating height is easily adjusted using the gas cylinder lever under the chair.



**Visualization:**  
The illuminated display prevents operating errors.



## At a glance: Important equipment in detail.



(Order no. 1120 - 55 cm arm length  
1230 - 80 cm arm length  
1235 - 100 cm arm length)

Large-scale technology in minimum space: its numerous functions also make the Veraview iX an economic solution in the field of intraoral X-rays, particularly for new dental offices.

# Ingeniously designed

Treatment units from Morita

## The whole is greater than the sum of its parts.

We take this principle literally in the development of our dental units. Where other companies limit themselves to combinations of dental chair, dentist's element and instrument holder, Morita takes a decisive step forward, because under dental units we understand well-conceived workstations down to the smallest detail. Workstations on which every working procedure is ergonomic, every element practically arranged with a perfect interplay of design, ergonomics and functionality. We have therefore developed tailored products for important applications, which optimally support you in your daily office routine: from classic models

for 9 to 12 o'clock positions through whip-arm versions and orthodontic units to solutions with an integrated ergonomic concept.

### Classic Units

(Soaric, Signo T500, Signo G10 II OTP) ..... From Page 46

### Whip-arm Concept

(Signo G10 II S, Signo G10 II S Ortho)..... From Page 64

### Ergonomic Concept

(Spaceline EMCIA, Spaceline EMCIA Ortho).....From Page 74

Focusing on people: Morita dental units provide excellent working conditions for operators and optimum comfort for patients.



# Soaric

Fascinatingly versatile

## External and internal values.

The combination of outstanding design and maximum functionality has a name at Morita: Soaric. Inspired by the style of the famous Bauhaus school of art and design the multi award-winning dental unit creates an atmosphere of trust in which both dentist and patient feel equally at ease. In addition, its design allows a unique range of integration options: from monitors and microscopes through to endodontic contra angles, micro motors and implantology motor.



Integrated 19-inch display



Ten different upholstery colors



2 year guarantee

Floor mounted version  
(Order no. 2100)



Over-the-patient version  
(Order no. 2102)



product  
design award



communication  
design award



communication  
design award

2012 GOLD 2012 2012

# Best Arguments: Soaric in daily routines.

It is not only the award-winning design of Soaric that makes it unique: our first-class Soaric dental unit – unlike many competitors' products – can be equipped with numerous functionalities. Microscopes from Carl Zeiss, Leica or Kaps, for example can be integrated for endodontic applications and the integrated 19-inch monitor clearly displays all endodontic parameters. Soaric also demonstrates

its strengths in the fields of periodontology and implantology. If the integrated implantology monitor is used, dentists are guided through the entire treatment procedure step by step via the navigation interface. A particular highlight is also the comfortable slow-speed mode of the dental chair, enabling exact patient positioning, without you having to divert your attention from the microscope.

## Optimum view:

High-resolution monitors and compact instrument heads allow an optimum view of images and treatment site.

## Open:

Versatile integration options, from microscope to implantology motor.

## Completely according to requirements:

The Soaric is available as floor mounted and over-the-patient delivery version.

## Ergonomic plus:

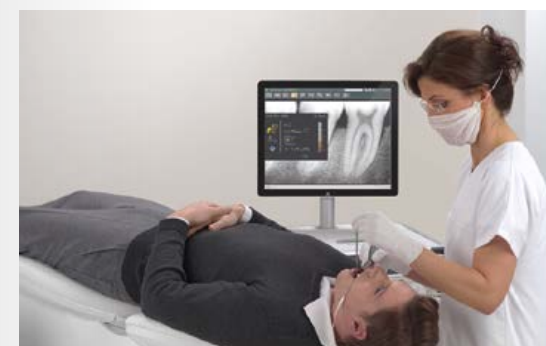
Flexibly adjustable assistant element promotes a natural posture and supports the treatment without assistance.

## User-oriented:

Hose strain relief on the instrument holder ensures the finger muscles remain relaxed.

## Precise:

The slow-speed mode in conjunction with an operating microscope allows image focusing without taking off your eyes from the microscope.



## At a glance: Important equipment in detail.



### ■ Patient's chair

- Oil hydraulics
- 4 Different patient's-chair programs
- Slow-speed mode
- Programmable foot control
- LED operating light

### ■ Operator's element

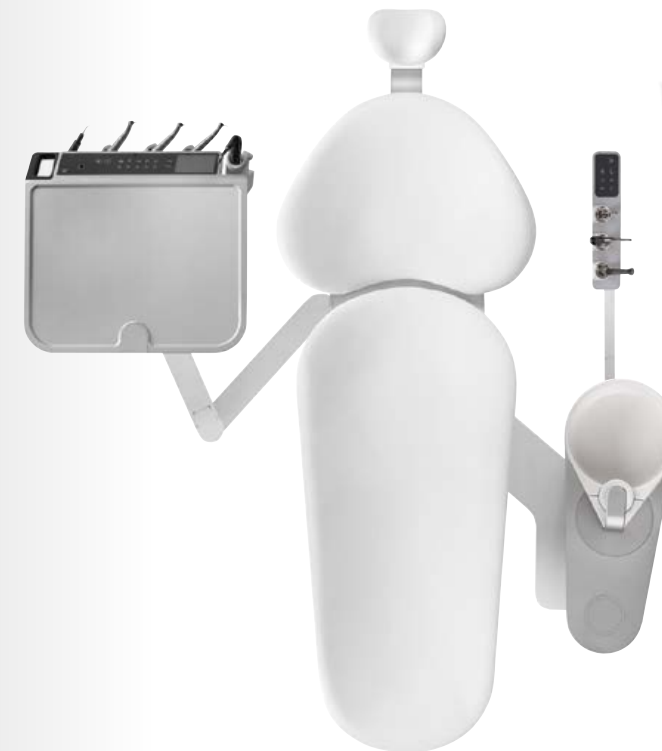
- Swivel-mounted instrument holder
- LCD touch-screen display
- Instrumentation
  - Up to two connections for pneumatically driven handpieces (such as turbines, air scaler and air motor)
  - Up to three micro motors with LED light
  - Multi-functional syringe (optional with light)
- Microscope option (Leica, Zeiss, Kaps)
- Optional: Integrated apex locator and endodontic motor, ultrasonic scaler with LED light (different manufacturers)
- AT AR anti-suck-back mechanism for pneumatically driven handpieces
- USB port on the operator's element

### ■ Assistant's element

- With variable instrument holders and control panel
- Spray-mist ejector, saliva ejector and multi-functional syringe (optional with light)

### ■ Water element

- Swivel-mounted cuspidor (manual or motor driven) with automatic cup refill and optical cup-fill detection
- Warm-water boiler
- Integrated hose flushing system for water-conveying instrument hoses (in accordance with RKI 4/2006)
- Integrated disinfection system for permanent disinfection of the water conduits
- Integrated disinfection system for suction hoses



Our premium Soaric dental unit meets all requirements in terms of equipment and customization options.

# Signo T500

Function meets esthetics



Eight different upholstery colors

## The best of both worlds.

When the designers of the world-renowned Studio F.A. Porsche join Morita engineers at the table, there can only be one result: the extraordinary. May we present – the new Signo T500 from Morita. It literally unites everything that our product philosophy encompasses in a (treatment) unit. Timeless design blends together with maximum functionality and excellent flexibility with convincing durability. The modular Signo T500 is available as an over-the-patient version (OTP), floor-mounted version (FMT) and mobile dentist's element (CART).



reddot award 2019  
best of the best

The right solution for everyone!  
The Signo T500 is available in  
standard and comfort versions.

Extended light field thanks  
to 12 powerful LEDs  
(optionally available as  
touchless sensor).

2 year guarantee

Clear display and  
clearly structured  
operator interface

Floor-mounted version  
(Order no. 3450-FMT Standard  
3455-FMT Comfort)



Over-the-patient version  
(Order no. 3450-OTP Standard  
3455-OTP Comfort)

Cart version  
(Order no. 3450-CTT Standard  
3455-CTT Comfort)

## Best arguments: The Signo T500 in the daily routine.



Design can inspire.  
Technology must convince.

Without compromise: this applies not only for the revolutionary design of the newly developed treatment unit; its architectural configuration is also consequently orientated to the requirements of operators and patients. The repositioned hinge point of the backrest ensures patients assume a relaxed yet stable posture; the chair height and inclination of the backrest can be adjusted smoothly and jolt-free thanks to the integrated oil hydraulics – while the minimum height of only 400 mm ensures easy entry and exit. What's more, in addition to different versions of headrests, there

is an extendable backrest that can be adapted to suit the respective body size of the patient. The operator also enjoys ergonomic benefits from the generous maximum height of the unit: 800 mm enable comfortable working in a standing position. Furthermore, the Luna Vue TS (optional with contactless sensor) or Luna Vue TL LED dental lights with shadow reduction always guarantee the optimum view. Apropos: the intuitive operator panel is also available as a touch version with extended endo functions – from apex locator, endomotor to special scaler.

**Perfectly positioned:**  
The double-hinged headrest (or optional with electromotive natural-movement and rolling function) ensures optimum head positioning for the patient at all times.

**Nice and neat:**  
Detachable holder, tray and lamp holder guarantee the highest standards of hygiene.

**In the best tradition:**  
To date, over 100,000 units of the Signo model series have been installed worldwide; the new T500 will now pen the next chapters of this success story.

**Full transparency:**  
The Luna Vue TL ensures shadow-free brightness with 12 LED lamps.

**Always informed:**  
Display monitors can be attached to trays or lamp support columns for easy-to-understand patient education.

**Always in the right place:**  
The 6-instrument holder has a large radius of movement and can be moved independently from the tray.

**Different versions:**  
The T500 is available as a floor-mounted, over-the-patient or cart version.



**Easy-care:**  
thanks to intelligent placement of the relevant service accesses the T500 can be easily cleaned. For example, the suction filter has been fitted on the back of the assistant element for easy accessibility.

## At a glance: Important equipment in detail.



### ■ Patient's chair

- Oil hydraulics
- 4 Different patient's-chair programs
- Slow-speed mode
- Foot control  
(Comfort version with wireless foot control)
- LED operation light  
(Comfort version with touchless sensor)
- Armrest on assistant's side

### ■ Operator's element

- 6 Instrument holders
- Operator panel  
(Comfort version with touch display)
- Instrumentation
  - Up to two connections for pneumatically driven handpieces (such as turbines, air scaler and air motor)
  - Up to two micro motors with LED light

- Multi-functional syringe
- Ultrasonic scaler  
(Comfort version: SC-7000)
- AT AR anti-suck-back mechanism for pneumatically driven handpiece
- Junction Box

### ■ Assistant's element

- Assistant's element with operator panel
- Spray-mist ejector, saliva ejector, multi-functional syringe

### ■ Water element

- Cuspidor with automatic flushing and optical cup-fill detection
- Warm-water boiler
- Integrated hose flushing system for all water-conveying instrument hoses  
(in accordance with RKI 4/2006)



A new chapter in the worldwide success story of the Signo series: the Signo T500 combines Morita's application skills and the design expertise of F.A. Porsche to an exceptional overall concept. The premium treatment unit meets every requirement in terms of esthetics, comfort and functionality.

# Signo G10 II OTP

Healthy positioning

## Standard colors



## Optional upholstery colors



Colorful variety:  
15 upholstery colors

## Glass cuspidors



## Ceramic cuspidors



Flexible 4-hinge  
swivel arm

2 years guarantee

## Ideally positioned.

Maximum freedom with maximum reliability – with every movement, the Signo G10 II OTP shows how consistently this objective was realized during development. While the unit provides patients not only with a timeless, elegant design but also particularly excellent comfort when lying, operators benefit from a well-conceived hygiene concept, numerous innovative functionalities and virtually limitless flexibility. This “new freedom” is due, among other things, to the variable over-the-patient delivery element of the Signo G10 II OTP, which enables free positioning of the operator’s element according to requirements.



(Order no. 3420-OA)

## Best arguments: The Signo G10 II OTP in daily routines.



Dentists spend the majority of their working day “at the patient” – and with good reason consequently place the highest demands on ergonomics and workflow solutions. This is where the OTP (Over-The-Patient) version of the Signo G10 II comes into play: with its comfortable dentist’s and assistant’s stools, intuitively operated instruments and many other efficiency enhancing functions the unit redefines treatment comfort for dentists, dental assistants and patients. A particular highlight: the

over-the-patient tray with its 4-hinge arm including spring-support height adjustment and extremely wide swivel range. It can be easily set to current requirements, thus enabling interference-free, concentrated working. Additional features of the Signo G10 II OTP are the flexible instrumentation with up to five handpieces and highly luminous, energy-efficient LED dental light Luna Vue ES. The elegant design, which is typical for Morita, also ensures optimum illumination.

### Exactly right:

The oil-hydraulic drive helps move the patient to the exact position – the dental light and cuspidor automatically adapt to the height adjustment.

### Spotlessly clean:

Removable, easy-to-clean cuspidor and smooth surfaces ensure optimum hygiene conditions.

### Hygiene²:

The unit meets the highest hygiene standards thanks to automatic hose flushing system, integrated water reprocessing (Metasys) or intensive sterilization via a bottle system.

### Comfort zone:

The ergonomic backrest comfortably supports the patient when lying and enables optimum working conditions for the operator.

### Totally illuminated:

The single LED dental light provides a uniformly illuminated treatment site.

### Get connected:

Monitor adaptation to lamp mounting column with 22" LCD monitor.

### Intuitive:

The clear control panel of the over-the-patient tray allows optimum access to instruments.



## At a glance: Important equipment in detail.



### ■ Patient's chair

- Oil hydraulics
- 4 Different patient's-chair programs
- Foot control
- Armrest on assistant's side

### ■ Operator's element

- 5 Instrument holders
- Control panel
- Instrumentation
  - Up to two connections for pneumatically driven handpieces (such as turbines, air scaler and air motor)
  - Up to two micro motors with LED light
  - Multi-functional syringe without hose heating
  - Ultrasonic scaler with LED light

- AT AR anti-suck-back mechanism of pneumatically driven handpieces

### ■ Assistant's element

- Swivel-mounted, with 3 instrument holders
- Operator panel
- Tray
- Multi-functional syringe without hose heating, spray mist ejector and saliva ejector

### ■ Water element

- Removable glass/ceramic cuspidor with automatic cuspidor flushing and automatic cup refill
- Warm-water boiler



With its various functions the Signo G10 II OTP provides exactly the amount of free space dentists require.

# Signo G10 II S

Create free spaces

## Standard colors



## Optional upholstery colors



A total of 15 upholstery colors

## Glass cuspidors



## Ceramic cuspidors



## Eight versions of cuspidors

Flexible 4-hinge swivel arm

Intuitive control panel

2 years guarantee

## Reliably flexible.

To ensure an optimum workflow it is essential that the equipment adapts to the operator and not vice versa. We also implemented this philosophy during development of the whip-arm version S of the Signo G10 II from Morita. The unit provides dental practitioners with a new type of freedom of movement combined with comprehensive functionality. The appealing design of the unit also ensures a relaxed environment.

(Order no. 3420-SA)

## Best arguments: The Signo G10 II S in daily routines.

Central element of the Signo G10 II S is the clever combination of 4-hinge swivel arm and the long-reach whip arm with 120° swivel range. This interplay opens up exceptional free space in dental treatment. An intuitive control panel, convenient foot control for the dental chair and a powerful LED operation light also facilitate working. The Signo G10 II S also impresses across the entire

spectrum in terms of patient comfort: the hydraulic drive ensures smooth positioning, the flexible height adjustment guarantees easy raising of the chair including for small patients or patients with restricted mobility. Furthermore, the comfortable lying surface, ergonomic backrest as well as supporting armrests and headrest enhance lying comfort during treatment.

### Lights, action:

The single LED OP light ensures a uniformly illuminated treatment area. The optional Luna Vue EL II with 12 LED direct emitters, and integrated swivel-mounted patient mirror provides the optimum view for you and your patients.

### New free space:

Provided by the whip-arm concept with its 120° swivel range – without interfering locking function and with strain relief for the wrist.

### Flushing:

The automatic hose flushing system of the Signo G10 II S enables reliable flushing of the water-conveying instrument hoses in accordance with RKI 4/2006.

### Comfortable:

The length of the instrument hoses ensures maximum flexibility, also for left-handed operators.

### Optional:

Various additional trays create limitless flexibility.

### Hygiene<sup>2</sup>:

The unit meets the highest hygiene standards thanks to automatic hose flushing system, integrated water reprocessing (Metasys) and intensive sterilization via a bottle system.

**Comfortable and hygienic:** Dental chair and instrument functions can be operated using the foot control.

### Precise:

Patients can be moved into the required position without perceptible start and stop movements using the hydraulic drive. The chair speed can be set individually during installation.



# Signo G10 II S Ortho

Flexibility has a name

## Treatment becomes "child's play" ...

Particularly in orthodontics a smooth workflow is highly advantageous, as young patients generally have a very short attention span. We at Morita addressed exactly this problem with the Signo G10 II S equipped as an orthodontic unit. As the central element in the dental office it helps orthodontists to work ergonomically and efficiently, ensuring comfortable treatment with its beneficial features. The new upholstery shape and special multi-hinge support thus ensure that children below 130 cm in height can also be comfortably and optimally positioned. Thanks to the swivel arm and whip arm the concept also allows a large action radius, providing greater freedom of movement.

### Standard colors



### Optional upholstery colors



A total of 15 upholstery colors

### Glass cuspidors



Basin clear Basin green Basin orange Basin pink

### Ceramic cuspidors



Ceramic black Ceramic blue Ceramic orange Ceramic white

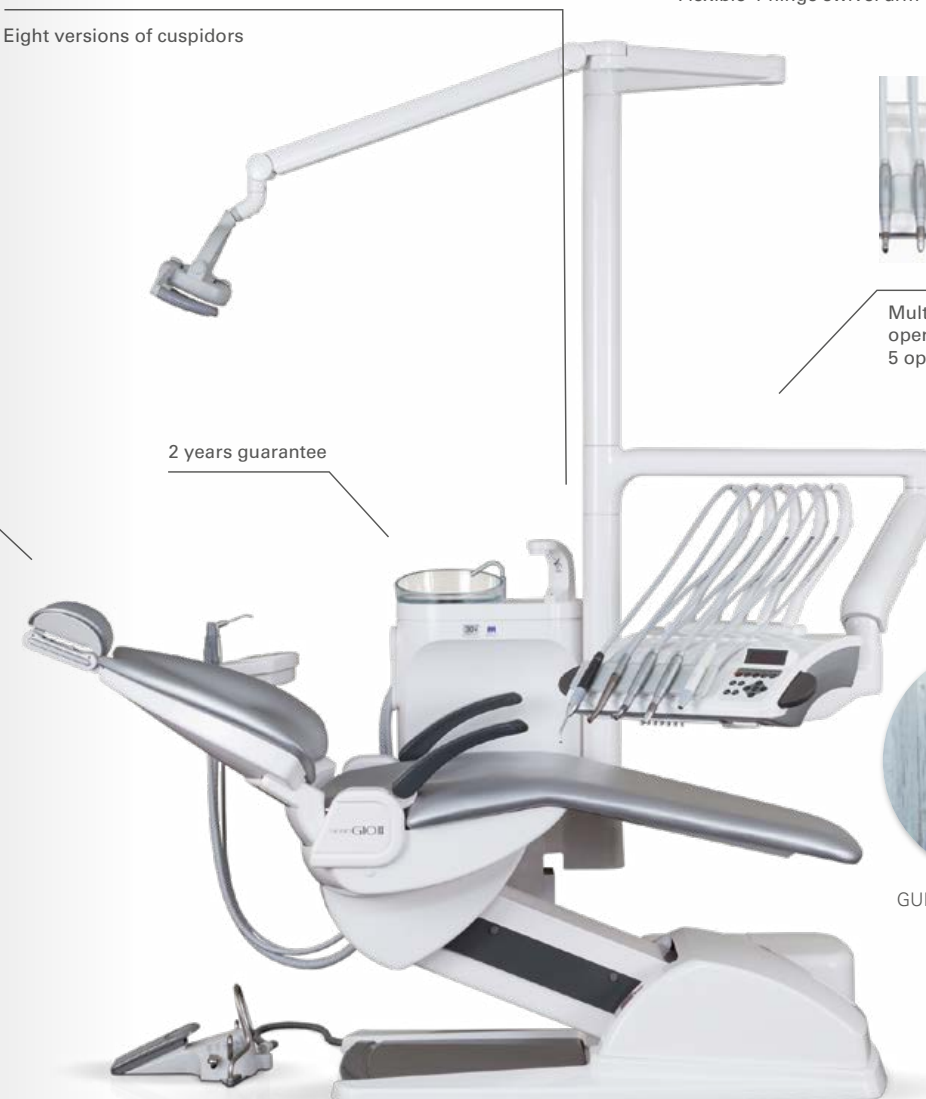
### Eight versions of cuspidors

Flexible 4-hinge swivel arm



Multi-functional operator panel with 5 operator levels

2 years guarantee



GUMMETAL® Ortho wire, Page 158

(Order no. 3420-SA)

# Best arguments: The Signo G10 II S Ortho in daily routines.

New treatment concept promises increased flexibility. The new whip-arm version of the Signo G10 II S is a highly efficient addition to the portfolio of orthodontic dental units, as the practical combination of flexible swivel arm and long-reaching whip arm guarantees a large action radius for the operator. In addition to the appealing design and familiar Morita functionality, this ensures ample freedom of movement during

orthodontic treatment. Clear added value: the Signo G10 II S tailored to orthodontic requirements not only provides orthodontists but also patients with various convenient features and desirable comfort. An easeful, stable headrest, guaranteed easy entry, ergonomic backrest and comfortable lying surface with a soft upholstery also promise young patients a pleasant feeling of wellbeing during treatment.

## Simply see more:

Uniformly illuminated treatment sites, pleasant lighting conditions with minimum heat generation, extremely low power consumption – thanks to the single LED OP light Luna Vue ES.

Optionally available: Luna Vue EL II with 12 LED direct emitters.

## Now rinse please:

Reliable flushing of the water-conveying instrument hoses guaranteed with the aid of the automatic hose flushing system according to RKI 4/2006.

## Perfectly balanced:

The DUAL-BALANCE system balances the instruments thanks to the dynamic strain relief of the whip arm.

## Clever solution:

Dental chair and instruments can be operated hands-free using the foot control without manual setting on the dentist's element.

## Restriction-free zone:

Work undisturbed, completely without troublesome locking – ensured by the 120° swivel function of the whip arm concept.

## Practical:

Instrument hoses with an optimum length (also left-handed operators) provide a high degree of flexibility.

## More is more:

Numerous additional trays create virtually limitless flexibility.

## To the point:

Patients can be moved to the required position without perceptible start and stop movements using the hydraulic drive.



## At a glance: Important equipment in detail.



### ■ Patient's chair

- Oil hydraulics
- 4 Different patient's-chair programs
- Foot control including foot cover
- Armrest on assistant's side

### ■ Operator's element

- 5 Instrument holders
- Operator panel
- Instrumentation
  - Up to two connections for pneumatically driven handpieces (such as turbines, air scaler and air motor)
  - Up to two micro motors with LED light
  - Multi-functional syringe (without hose heating)

- AT AR anti-suck-back mechanism for pneumatically driven handpieces
- Ultrasonic scaler with LED light

### ■ Assistant's element

- Swivel-mounted, with 3 instrument holders
- Operator panel
- Tray
- Multi-functional syringe without hose heating, spray-mist ejector and saliva ejector



### ■ Water element

- Optional glass or ceramic cuspidor with automatic cuspidor flushing and automatic cup refill
- Warm-water boiler



The high-quality designed dental unit Signo G10 II S opens up maximum freedom of movement for the operator – with excellent functionality.

# Spaceline EMCIA

Best handling rating



Total of 8 upholstery colors



Treatment positions from 10.00 to 12.30 o'clock

## Everything in balance.

Virtually all dentists have struggled with back pain during the course of their professional life. A healthy posture in the daily dental office routine is of major importance to ensure that back pain does not develop into undesirable permanent suffering. This is where user-oriented concepts of the Spaceline EMCIA come into play.

The Spaceline EMCIA dental unit promotes a physiologically correct posture and supports the natural movement processes in the positions between 10.00 and 12.30 o'clock – ensuring relaxed, efficient working.



Operating chair OS-EX-1 available to suit the upholstery color of the unit.



Integrated instruments in the backrest

2 years guarantee



6 Colors of cuspidors



Spaceline EMCIA SMT  
(Order no. 2604-SMT)



Spaceline EMCIA PdW  
(Order no. 2604-PdW)

## Best arguments: The Spaceline EMCIA in daily routines.

Not only the back-friendly concept according to Dr. Daryl Beach makes the Spaceline EMCIA so unique; the dental unit from Morita also meets the high demands of modern dental treatment thanks to many other functions. Different EMCIA model versions are available according to office-oriented requirements: the SMT with tray mounted in the backrest and integrated instruments, PdW with flexible swivel-arm dentist's element and orthodontic version with reduced equipment. Independent of which unit the operator opts for,

the Spaceline EMCIA always guarantees maximum freedom of movement with minimum space requirement. Our engineers have ultimately conceived the unit down to the smallest detail, as is typical for Morita, and optimally tailored it to procedures in the daily office routine. As a result, dentists can use the cabinet washbasin easily during treatment and assistants can switch between intraoral and extraoral activities without any problem.



Ergonomic treatment from the 12 o'clock position.

### Two models available:

The SMT version with tray mounted in the backrest and instruments integrated in the dental chair as well as PdW version with floor mounted operator's element.

### Space for more:

The Spaceline EMCIA provides maximum freedom of movement with minimum space requirements.

### Easily accessible:

The instruments integrated in the backrest and also in the dentist's and assistant's element allow optimum access.

### In position:

Armrests guarantee comfortable support of the upper body – even during extended treatment sessions.

### Good posture:

Back-friendly movements during each treatment stage, as the Dr. Beach ergonomic concept reduces physical strain on the body to a minimum.

### At the press of a button:

The dental chair can be positioned smoothly and with millimeter accuracy via slow-speed mode – practical with microscope treatments.

### Equipped:

Separate assistant's element for dental chair and water functions.



PdW

SMT

### Barrier-free:

The useful version of an optionally available automatic foldaway foot section always allows for problem-free entry and exit.

### Perfect view:

The LED dental light with foldaway patient-communication mirror ensures optimum lighting conditions and provides support during patient consultation.

# Spaceline EMCIA Ortho

Ergonomically efficient

Looks good.

Ergonomics, functionality, efficiency, design: The Spaceline EMCIA Ortho joins together what belongs together. With its sophisticated concept the dental unit enables an optimum workflow in a relaxed, esthetic environment. Physical strains on the body for operators are reduced to a minimum, as treatment can be performed from a balanced sitting posture in treatment positions from 10.00 to 12.30 o'clock.

In addition, numerous intelligent details optimally support functional diagnosis.



Instruments integrated in the backrest

2 years guarantee



Treatment positions from 10.00 to 12.30 o'clock



Eight upholstery colors

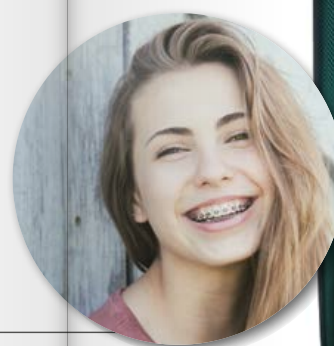


6 Colors of cuspidors

SMT: Orthodontic version upgraded to include a tray mounted in the backrest



Operating chair OS-EX-1 available to suit the upholstery color of the unit.



GUMMETAL®  
Ortho wire, Page 158



(Order no. 2604)

## Best arguments: The EMCIA Ortho in daily routines.

More than 100,000 manufactured units and millions of successful treatments speak for themselves. The Spaceline from Morita has long since re-written dental history and for good reason: after all, our ergonomically functional dental unit meets the highest demands including in orthodontics. With the instruments integrated in the backrest and numerous upgrading options the Spaceline EMCIA, which is tailored to orthodontic requirements, provides orthodontists with perceptible advantages.

These also include effective relief of neck and back muscles thanks to the arrangement according to the Dr. Beach concept.

The space-saving design of the EMCIA Ortho also opens up numerous options in office layout. This means that not only small rooms can be utilized but it is also possible to locate several dental units in a small area.

**Ergonomic:**  
Back-friendly movements reduce physical strains on the body to a minimum.

**Perfect positioning:**  
For craniomandibular dysfunction screening (CMD) – thanks to optional foldaway foot section.

**Well-conceived:**  
Space-saving design opens up options in the interior layout.

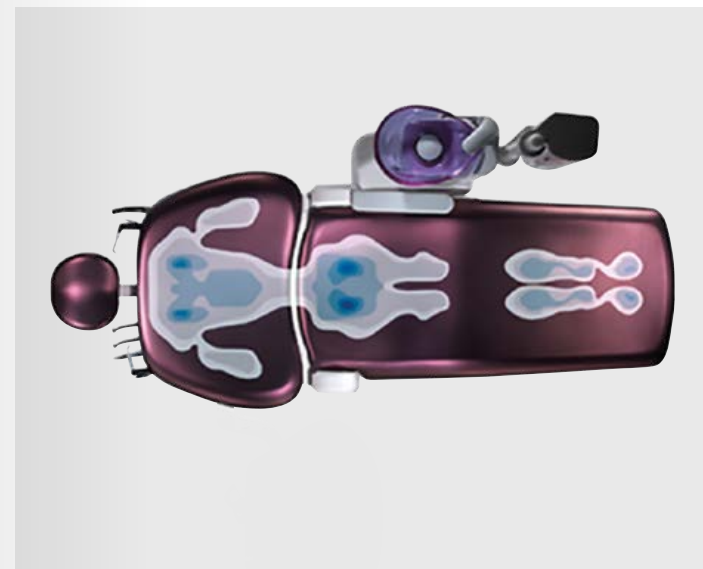
**Comfort class:**  
The comfortable upholstery of the lying surface adapts perfectly to the body contours of the patient.



**Relaxed environment:**  
Instruments integrated in the backrest – and therefore out of the patient's field of vision.

**Millimeter-precise:**  
The slow-speed mode and hydraulic chair movement ensure exact height adjustment of the patient.

**Improved view:**  
The powerful LED dental light creates optimum lighting conditions in any environment.



Barrier-free entry and exit thanks to the foldaway foot section.

## At a glance: Important equipment in detail.



### ■ Patient's chair

- Oil hydraulics
- 4 Different patient's-chair programs
- Slow-speed mode
- Ergonomic foot control with 2 pedals for instrument control
- Armrest on assistant's side

### ■ Operator's element

- Instrumentation
  - Up to two connections for pneumatically driven hand-pieces (such as turbines, air scaler and air motor)
  - Up to two micro motors with LED light
  - Multi-functional syringe (optional with light)
- AT AR anti-suck-back mechanism for pneumatically driven handpieces

### ■ Assistant's element

- Spray-mist ejector, saliva ejector and multi-functional syringe (optional with light)

### ■ Water element

- Cuspidor with automatic cup refill and optical cup-fill detection
- Hose flushing system for all water-conveying hoses (RKI 4/2006)
- Disinfection system for water conduits



Ergonomic, functional, user-oriented and comfortable: Spaceline EMCIA models SMT and PdW impress with features tailored to the needs of the dental office such as the hydraulic lift drive including slow-speed mode and comfortable patient lying area.



The most relaxed way of working efficiently. The Spaceline EMCIA Ortho provides orthodontists with optimum conditions for maximum treatment success.

# Small and perfectly designed

Handpieces and instruments from Morita



## Perfection is a “must” for us.

Dental treatment requires absolute precision day after day – or in other words: perfection right down to the finest detail. This claim, which is also the guiding principle of Morita, is the highest priority for our engineers during development of handpieces and instruments. Interdisciplinary collaboration with leading experts in all fields of dentistry thus creates exceptional results: small, lightweight,

powerful and ergonomically formed products with which even complex treatments are performed very easily. From turbines through straight and contra angle handpieces to handinstruments – our portfolio covers a large number of highly efficient units, which provide you with excellent support in daily routines at your dental office.

### Turbines

(TwinPower) ..... From Page 86

### Straight and contra angle handpieces

(TorqTech, Ortho-Strips) ..... From Page 90

### Maintenance system

(Lubrina 2) ..... From Page 96

### Motores

(Micro motors) ..... From Page 98

### Scaler

(Solfy Ultrasonic scaler, Air scaler tips) ..... From Page 102

**Hand instruments** ..... From Page 118

# Turbines

Practical & powerful



## Minimum size, maximum power.

Efficiency and precision are the prerequisites for economic preparation in modern dentistry. Our multi-award-winning TwinPower turbine series combines both perfectly. With minimum dimensions, very high torque and constant performance, they meet even the highest demands – and are therefore not without reason performance leaders in the dental sector.

## Overview of added values: TwinPower turbines practical application.

What makes Morita TwinPower turbines so unique? The main feature is the innovative double rotor. With its patented technology it enables 50% higher torque than conventional turbines and provides optimum cutting capacity, even with maximum loading. A further highlight is the integrated quick-stop safety function. This function ensures that turbines stop smoothly and instantly within two seconds, which greatly reduces the risk of injury

during treatment. In addition to the “standard” size, TwinPower turbines are also available as an Ultra series with mini instrument heads. They combine numerous advantages thanks to their minimized dimensions: low weight, ample freedom of movement and optimum view of the treatment site – a big advantage particularly in pediatric and geriatric dentistry.



**Real performer:**  
The patented double rotor technology guarantees constantly high cutting capacity – even during intensive use.

**Lightweight:**  
The Ultra series has many advantages; low weight, optimum view and ample freedom of movement.

**Ergonomic:**  
Weighing only 50 grams, the strain on hand and finger dexterity as well as muscles and tendons is significantly reduced.

**Hygienic according to plan:**  
The zero suck-back effect prevents sucking in of saliva, bacteria or blood.




**Highly responsive:**  
Thanks to the patented quick-stop brake ring turbines stop in two seconds, reducing the risk of injury.



**2 year guarantee**



# Performance overview

TwinPower model range

<div><div>TwinPower PAR-4HX-O</div><div></div><div><div>Operating pressure: 0.20 – 0.29 MPa</div><div><div>Light</div><div>Zero suck-back</div><div>Quick-stop</div></div></div></div>	<div><div>TwinPower PAR-4HEX-O</div><div></div><div><div>Operating pressure: 0.20 – 0.29 MPa</div><div><div>Light</div><div>Zero suck-back</div><div>Quick-stop</div></div></div></div>	<div><div>TwinPower PAR-4HEX-O-45</div><div></div><div><div>Operating pressure: 0.20 – 0.29 MPa</div><div><div>Light</div><div>Zero suck-back</div><div>Quick-stop</div></div></div></div>
Power	Power	Power
25 W	22 W	20 W
Rotation speed at 0.2 MPa	Rotation speed at 0.2 MPa	Rotation speed at 0.2 MPa
350,000 rpm ± 30,000 rpm	370,000 rpm ± 30,000 rpm	370,000 rpm ± 30,000 rpm
Head diameter	Head diameter	Head diameter
12 mm	10.5 mm	10.5 mm
Head height	Head height	Head height
13.2 mm	13.2 mm	13.2 mm
Weight (depending on coupling system)	Weight (depending on coupling system)	Weight (depending on coupling system)
48 – 57 g	48 – 57 g	53 – 59 g
Spray nozzles	Spray nozzles	Spray nozzles
3	3	3 (no Tip Air)
Rotor blades	Rotor blades	Rotor blades
40	36	36
Air curtain	Air curtain	Air curtain
Air curtain	Air curtain	Double air curtain
Coupling systems	Coupling systems	Coupling systems
Morita (Order no. 2530) KaVo (Order no. 2530-100) Sirona (Order no. 2530-200) W&H (Order no. 2530-300) NSK (Order no. 2530-400)	Morita (Order no. 2531) KaVo (Order no. 2531-100) Sirona (Order no. 2531-200) W&H (Order no. 2531-300) NSK (Order no. 2531-400)	Morita (Order no. 2531-045) KaVo (Order no. 2531-145)

<div><div>TwinPower Ultra E PAR-4HUEX-O</div><div></div><div><div>Operating pressure: 0.20 – 0.29 MPa</div><div><div>Light</div><div>Zero suck-back</div><div>Quick-stop</div></div></div></div>	<div><div>TwinPower Ultra M PAR-4HUMX-O</div><div></div><div><div>Operating pressure: 0.20 – 0.29 MPa</div><div><div>Light</div><div>Zero suck-back</div><div>Quick-stop</div></div></div></div>
Power	Power
20 W	18 W
Rotation speed at 0.2 MPa	Rotation speed at 0.2 MPa
370,000 rpm ± 30,000 rpm	370,000 rpm ± 30,000 rpm
Head diameter	Head diameter
9 mm	9 mm
Head height	Head height
12.7 mm	10.6 mm
Weight (depending on coupling system)	Weight (depending on coupling system)
48 – 57 g	48 – 57 g
Spray nozzles	Spray nozzles
3	1
Rotor blades	Rotor blades
36	40
Air curtain	Air curtain
5 openings	3 openings
Coupling systems	Coupling systems
Morita (Order no. 2541) KaVo (Order no. 2541-100) Sirona (Order no. 2541-200) W&H (Order no. 2541-300) NSK (Order no. 2541-400)	Morita (Order no. 2540) KaVo (Order no. 2540-100) Sirona (Order no. 2540-200) W&H (Order no. 2540-300) NSK (Order no. 2540-400)

# Straight and contra angle handpieces

Premium standard



## True greatness.

They fit perfectly in the hand, amaze with their compactness and provide optimum visibility of the treatment site. Morita straight and contra angle handpieces are the first choice for modern dental professionals both in terms of ergonomics and quality – regardless of whether used during preparation, prophylaxis, endodontics, stripping, debonding, finishing or light technical tasks.

# Overview of added values: TorqTech serie practical application.

Dental practitioners worldwide value Morita's TorqTech and Tokyo series with torx drive systems. Extreme reliability and impressive performance make them the premium solution for discerning users. Our straight and contra angle handpieces

thus not only convince due to the maximum grip and high-quality finish of the chuck; our highly versatile handpieces also make an excellent impression in terms of smooth running and durability.

### Grips securely:

The high-quality chuck grips tips and burs securely in the handpiece.

### 2 year guarantee

### Ergonomic:

The handpieces fit comfortably in the hand and take the strain off muscles thanks to their ingenious design.

### Clear view:

The glass rod light guide ensures bright illumination of the treatment site – independent of whether for LED or halogen light sources.

### Viewing angle:

The small instrument head allows optimum visibility of the treatment site, including with children and elderly patients.

### Redefined:

The special implantology handpiece combines performance, outstanding ergonomics and precise, comfortable cutting ability.

### Always in use:

Preparation, prophylaxis, endodontics, stripping, finishing or technical tasks – the tools are suitable for various areas of application.



# Performance overview

TorqTech series



Maximum rotation speed | Transmission ratio

Max. 210,000 rpm 1:5	Max. 42,000 rpm 1:1	Max. 42,000 rpm 1:1	Max. 2,000 rpm 10:1
-------------------------	------------------------	------------------------	------------------------

Shank | Chuck type | Light

FG shank Ø: 1.6 mm Push-button Light guide	RA shank 2.35 mm Push-button Light guide	HP shank 2.35 mm or RA shank with spacer No light	RA shank 2.35 mm Push-button No light
--	--	---	---

Application

Preparation	Preparation Prophylaxis	Preparation Prophylaxis Light technical tasks	Endodontics (only Soaric)
-------------	----------------------------	---	------------------------------

Length | Weight | Head Ø x Height

94 mm   68 g Ø: 9.5 mm x H: 14.0 mm	94 mm   67 g Ø: 9.5 mm x H: 13.3 mm	84 mm   72 g –	94 mm   55 g Ø: 9.3 mm x H: 12.7 mm
--	--	-------------------	--

Instrument spray

3-hole with spray filter	1-hole with spray filter	1-hole	No spray
--------------------------	--------------------------	--------	----------



Maximum rotation speed | Transmission ratio

Max. 4,200 rpm 10:1	Max. 4,200 rpm 10:1	Max. 2,500 rpm 4:1	Max. 10,500 strokes/min. 4:1
------------------------	------------------------	-----------------------	---------------------------------

Shank | Chuck type | Light

RA shank 2.35 mm Push-button No light	RA shank 2.35 mm Push-button Light guide	Screw-in-shank No light	EVA/Laminated shank Light guide
---	--	----------------------------	------------------------------------

Application

Preparation Endodontics Prophylaxis	Preparation Endodontics Prophylaxis	Prophylaxis	Stripping (Orthodontics) Deponding (Orthodontics) Root planing Finishing Prophylaxis
---	---	-------------	--

Length | Weight | Head Ø x Height

94 mm   69 g Ø: 8.0 mm x H: 13.0 mm	94 mm   67 g Ø: 8.0 mm x H: 13.0 mm	94 mm   67 g Ø: 8.0 mm x H: 8.5 mm	94 mm   67 g Ø: 7.8 mm x H: 9.1 mm
--	--	---------------------------------------	---------------------------------------

Instrument spray

1-hole	1-hole with spray filter	No spray	1-hole with spray filter
--------	--------------------------	----------	--------------------------

# Overview of added values: TorqTech and Ortho-Strips practical application.

A dynamic duo: Ortho-Strips in combination with linear motion contra angles of the TorqTech series are a perfectly coordinated instrument team ideal for proximal enamel reduction in orthodontics. A decisive factor is the intelligent design: the contra angle converts the rotational movement of the

motor to a powerful linear motion. The transmission ratio of 4:1 and maximum stroke rate of 10,500 strokes per minute provides a very wide stroke rate range. In combination with fine adjustability this allows adaptation to virtually any orthodontic treatment scenario.



TorqTech and Ortho-Strips  
in use



## Clever combination:

In combination with coarse to fine grit sized Ortho-Strips the high torque of the TorqTech CA-4R-O-PF ensures rapid, controlled enamel reduction.

## Ideally adjustable:

The wide stroke rate range of up to 10,000 strokes per minute enables efficient opening of interdental contact points.

## Effective control:

The flexibility of the Ortho-Strips prevents notch formation.

## Two in one:

Hard cutting edges are smoothly contoured and polished by the IPR (interproximal enamel reduction) instrument system.

## Fixed securely in position:

Ortho-Strips are securely and reliably anchored in the chuck of the handpiece.

2 year guarantee

(Order no. SL-2410-001)



# Lubrina 2 Maintenance System

The next generation

## A clean thing.

Lubrina not only impresses with its fresh design but also with a variety of new features: the next generation of our popular Lubrina care system makes cleaning of turbines, straight and contra-angle handpieces even more efficient and at the same time more thorough. Keyword efficiency: in comparison with manual cleaning, Lubrina 2 only requires a quarter of the amount of instrument lubricant normally used. The time required for cleaning a handpiece is also reduced to about 20 seconds. Another innovative feature is the Clean Air Blow System. Air and instrument lubricant are fed into two separate canals – this means: the lubricant only gets into the handpiece once the excess water has been completely removed and can thus lubricate much more effectively.



## Overview of added values: Lubrina 2 Maintenance System practical application.

**Easily cleaned:**  
Lubrina is the first unit for cleaning handpieces with integrated maintenance system for chucks.

**Twice as good:**  
Our unique system allows you the option of maintaining two instruments using one instrument lubricant or, if required, using two different instrument lubricants in parallel.

**Unique:**  
The system operates with an innovative interval compressed air purging system, which ensures particularly efficient, fast and thorough maintenance.

**Connect four:**  
The maintenance unit features time and cost saving efficiency – four handpieces can be simultaneously maintained.



**According to needs:**  
Lubrina allows you to select between two time modes: short mode and long mode.

2 year guarantee

(Order no. 2596)

**One after the other:**  
with the new Clean Air Blow System air and oil are fed into separated canals, ensuring optimized lubrication.

## Equipment

- 1 Lubrina 2
- 2 Morita Multi Spray base (Order no. 2596-200)
- 1 Oil filter (5 pcs./pack) (Order no. 2595-400)
- 1 Tray-inlay sheet (Order no. 2595-450) (1 pcs./pack)

# Motors

Constantly moving



## Real power pack.

Light, compact, powerful: Our versatile micro motors create the ideal basis for gentle, effective treatment – making them a real winner for dental practitioners and their patients.

## Overview of added values: Micro motors practical application.

Distinguishing features of our Torx series motors include convincing performance data and exceptional running smoothness – at both high and low speeds – guaranteeing the highest level of efficiency

and profitability. At the same time, the compact design and low weight ensure maximum treatment comfort – a feature you certainly wouldn't want to miss any more.

**Real performer:**  
High motor performance with a speed range from 100 to 40,000 rpm.

**In control:**  
The powerful torque ensures constantly high motor power during preparation.

**Profitable purchase:**  
Long service life with minimum repairs.

**Perfectly balanced:**  
Ergonomic design for relaxed finger muscles – even during extended treatment sessions.

Available in combination with our treatment units.

**Compatible:**  
The motor fits without any problem on the turbine connections of all dental units. All straight and contra angle handpieces with ISO connectors (without light) can be used.

**Quiet environment:**  
The quiet running of the motor has a positive effect on the treatment procedure.

2 year guarantee



# Performance overview

Torx SII /Torx SII-R /TR-SII-O /TR-SII-R-O  
Torx SIII /Torx SIII-R /TR-SIII-O /TR-SIII-R-O

100 – 40,000 rpm

**Please note:**  
Purchasing only in conjunction with  
Spaceline EMCIA / Soaric / Signo T500



Design	Brushless, electrically driven	
Light source	Easy renewable LED light source	
Control	Control panel of the dental unit and foot control	
Safety	Handpiece/contra angle locked in place mechanically to prevent unintentional release.	
Air and water supply lines	Integrated	
Weight of the handpiece	68 g	
Handpiece dimensions	Ø: 22.0 mm L: 42.0 mm	
Adjustable torque	Torx SII / Torx SIII:	–
	Torx SII-R / Torx SIII-R:	✓
Integrated endo-function	TR-SII-O / TR-SIII-O:	–
	TR-SII-R-O / TR-SIII-R-O:	Measurement function, Auto Torque Control, Auto Apical Control
Hygiene	Motor casing removable and sterilizable and/or thermo-disinfectable	

TorxTR-91 / TR-91-O

100 – 40,000 rpm

**Please note:**  
Purchasing only in conjunction with  
Signo Treffert / Signo G10 II



Design	Brushless, electrically driven	
Light source	Choice of halogen or LED light source in plug-in socket	
Control	Control panel of the dental unit and foot control	
Safety	–	
Air and water supply lines	Integrated	
Weight of the handpiece	95 g	
Handpiece dimensions	Ø: 22.0 mm L: 60.0 mm	
Adjustable torque	–	
Integrated endo-function	–	
Hygiene	Motor casing removable and sterilizable and/or thermo-disinfectable	

# Scalers

Top performance for top results



## Soft, safe, gentle.

Professional tooth cleaning at the top level – Morita’s scalers are optimally tuned to the daily routine of the dental office and its wide range of challenges. In other words: the scalers enable highly precise, professional removal of very different forms of deposits, accretion and plaque from teeth – softly, quickly and gently.

## Overview of added values: Ultrasonic scalers practical application.

Ultra intensive, ultra soft: Removal of calculus and other deposits should be as agreeable as possible both for patients and also the attending dental practitioner. Morita’s ultrasonic scalers convince across the entire range with their effective removal of calculus and deposits. This is possible due to the various settings, which precisely control the

oscillation of the scaler. One example is the “Soft” mode which stops the instrument if excessive pressure is applied and ensures a comfortable, pleasant treatment procedure for the patient. With the optionally integrated Apex Locator, the scaler stops automatically in endodontic function when the apex is reached.

### Pure precision:

With an oscillation frequency of 27 kHz  $\pm$  2 kHz ultrasonic scalers effectively remove plaque, biofilm and other deposits on tooth surfaces, interdental spaces and tongue.

### Clear view:

A halogen or LED light provides brightness, ensuring a clear view of the working area.

### From soft through medium to intensive:

You can set the intensity progressively according to requirements directly on the handpiece.

### 2 year guarantee

### Various applications:

Thanks to a wide range of instruments – for gentle interdental cleaning and comfortable tongue cleaning or root planing.

### Tip variety:

Comprehensive range of tips for prophylaxis, endodontics and orthodontics.

### Please note:

Ultrasonic scalers are only available built into Soaric, EMCIA and Signo T500 units.










Performance overview

	<div>Solfy LED SC-3000-O-LD</div> <div><ul style="list-style-type: none"><li>- Spray control on the dental unit</li><li>- 8 ultrasonic Tips</li><li>- 2 Tip holders</li><li>- 5 Attachments and Tips</li><li>- 7 Endo Files</li><li>- 1 Rinsing Adapter</li></ul></div> <div></div>	<div>Solfy LED SC-7000-O</div> <div><ul style="list-style-type: none"><li>- Spray control on the dental unit</li><li>- 8 ultrasonic Tips</li><li>- 2 Tip holders</li><li>- 5 Attachment and Tips</li><li>- 7 Endo Files</li><li>- 1 Rinsing Adapter</li></ul></div> <div></div>
Design   Technology   Type of drive	Piezoelectric	
Description	Built-in version with LED instrument light	
Oscillation frequency	27 kHz ± 2 kHz	28 kHz ± 4 kHz
Oscillation amplitude	Max. 200 µm	Max. 200 µm
Oscillation form	Linear	
Compatibility	For dental units <ul style="list-style-type: none"><li>▪ EMCIA UP</li><li>▪ Soaric</li></ul>	
Flexibility	–	
Handpiece Ø Handpiece length	Ø: 19.2 mm L: 129.0 mm	Ø: 19 mm L: 90 mm
Weight	55 g	60 g
Hygiene	Sterilizable (autoclavable)	








Applications	Prophylaxis	<ul style="list-style-type: none"><li>▪ Plaque removal</li><li>▪ Removal of subgingival plaque</li></ul>	<ul style="list-style-type: none"><li>▪ Plaque removal</li><li>▪ Removal of subgingival plaque</li></ul>
	Scaling	<ul style="list-style-type: none"><li>▪ Calculus removal</li><li>▪ Periodontology (root planing)</li><li>▪ Removal of subgingival calculus</li><li>▪ Rinsing/disinfecting periodontal pockets</li></ul>	<ul style="list-style-type: none"><li>▪ Calculus removal</li><li>▪ Periodontology (root planing)</li><li>▪ Removal of subgingival calculus</li><li>▪ Rinsing/disinfecting periodontal pockets</li></ul>
	Endodontics	<ul style="list-style-type: none"><li>▪ Root canal irrigation</li><li>▪ Removal of debris</li><li>▪ Planing of canal walls</li><li>▪ Root canal preparation</li><li>▪ Removal of tooth cement</li><li>▪ Removal of crowns</li><li>▪ Removal of posts</li><li>▪ Cleaning fissures</li><li>▪ Surgery</li></ul>	<ul style="list-style-type: none"><li>▪ Root canal irrigation</li><li>▪ Removal of debris</li><li>▪ Planing of canal walls</li><li>▪ Root canal preparation</li><li>▪ Removal of tooth cement</li><li>▪ Removal of posts</li><li>▪ Cleaning fissures</li><li>▪ Surgery</li><li>▪ Optional apex locator after root canal preparation</li></ul>
Performance control	Via Soaric control panel: <ul style="list-style-type: none"><li>▪ 25 Performance stages</li><li>▪ 4 Performance ranges</li><li>▪ 3 Operating modes</li></ul> Via EMCIA control panel: <ul style="list-style-type: none"><li>▪ 15 Performance levels</li><li>▪ 3 Performance ranges</li></ul> Autotuning / Autopower		Via Soaric, Signo T500 control panel: <ul style="list-style-type: none"><li>▪ 25 Performance stages</li><li>▪ 4 Performance ranges</li><li>▪ 3 Operating modes</li></ul> Via EMCIA control panel: <ul style="list-style-type: none"><li>▪ 15 Performance levels</li><li>▪ 3 Performance ranges</li></ul> Autotuning / Autopower
Operating modes	Soaric: Boost, scaling, endodontics, periodontology  EMCIA: Root canal treatment, scaling, crown removal		Soaric, Signo T500: Periodontology, endodontics, scaling, boost  EMCIA: Root canal treatment, scaling, crown removal
Control	Control using the operator panel and foot control of the dental unit		Control using the operator panel and foot control of the dental unit
Upgradable	–		–
Instrument light	Fiberglass light guide, exchangeable LED in the quick connector		Fiberglass light guide, exchangeable LED in the quick connector

Performance overview

Scaling Tips

<b>Universal Tip S1</b> (Order no. 2465-001)	<b>Straight Tip S2</b> (Order no. 2465-002)	<b>Flat Tip</b> (Order no. 2465-010)	<b>Scaling Tip S3</b> (Order no. 2465-015)
			
<b>Application</b> Removal of tooth cement, general calculus removal	<b>Application</b> Removal of tooth cement, general calculus removal, removal of debris	<b>Application</b> General removal of wide areas of calculus	<b>Application</b> Removal of tooth cement, general calculus removal
<b>Scaling Tip S4</b> (Order no. 2465-016)	<b>Flat Tip S11</b> (Order no. 2465-017)	<b>Flat Tip S12</b> (Order no. 2465-018)	
			
<b>Application</b> Removal of tooth cement, general calculus removal	<b>Application</b> Removal of tooth cement, general removal of wide areas of calculus	<b>Application</b> Removal of tooth cement, general removal of wide areas of calculus	

Periodontal Tips

<b>Root Planing Tip R</b> (Order no. 2465-011)	<b>Root Planing Tip L</b> (Order no. 2465-012)	<b>Curette Tip P1</b> (Order no. 2465-031)	<b>Perio Tip P2</b> (Order no. 2465-032)
			
<b>Application</b> Periodontology	<b>Application</b> Periodontology	<b>Application</b> Removal of tooth cement and calculus above and below the gingiva and in root canals	<b>Application</b> Removal of tooth cement and calculus above and below the gingiva and in root canals
<b>Curette Tip P3</b> (Order no. 2465-033)	<b>Perio Tip P4</b> (Order no. 2465-034)	<b>Root Planing Tip P5</b> (Order no. 2465-035)	
			
<b>Application</b> Removal of tooth cement and calculus above and below the gingiva and in root canals	<b>Application</b> Removal of tooth cement and calculus above and below the gingiva and in root canals	<b>Application</b> Removal of tooth cement and calculus above and below the gingiva and in root canals	

# Performance overview

## Periodontal Tips

**Furcation Tip P20L**  
(Order no. 2465-036)



### Application

Removal of tooth cement and calculus above and below the gingiva and on root canals

**Furcation Tip P20R**  
(Order no. 2465-037)



### Application

Removal of tooth cement and calculus above and below the gingiva and on root canals

**Root Planing Tip P21L**  
(Order no. 2465-038)



### Application

General calculus removal, cleaning and planing of tooth surfaces

**Root Planing Tip P21R**  
(Order no. 2465-039)



### Application

General calculus removal, cleaning and planing of tooth surfaces

**Perio Tip PP2R**  
(for Endo-Adapter M EH3)  
(Order no. 2466-011)



### Application

General calculus removal, cleaning and planing of tooth surfaces

**Perio Tip PP2L**  
(for Endo-Adapter M EH3)  
(Order no. 2466-012)



### Application

General calculus removal, cleaning and planing of tooth surfaces

## Endodontic Tips

**Root Canal Tip E1**  
(Order no. 2465-003)



### Application

Removal of tooth cement and residue from the root canal, planing of root canal walls

**Endo Tip E2**  
(Order no. 2465-041)



### Application

Enlarging and cleaning of the root canal, removal of debris

**Endo Tip E3**  
(Order no. 2465-042)



### Application

Removal of root tissue, enlarging and shaping root canal opening

**Endo Tip E4**  
(Order no. 2465-043)



### Application

Removal of root canal tissue, enlarging and shaping root canal opening

**Anchor Tip E10**  
(Order no. 2465-044)



### Application

Removal of root canal tissue, enlarging and shaping root canal opening

**Round Tip E20D**  
(Order no. 2465-045)



### Application

Enlarging fractured root canal area, removal of debris, enlarging and shaping root canal opening

# Performance overview

## Retro endodontic Tips

### Retro Tip R1

(Order no. 2465-051)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro Tip R2

(Order no. 2465-052)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro Tip R3R

(Order no. 2465-053)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro Tip R3L

(Order no. 2465-054)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro File RF1D

(for Endo-Adapter M EH3)  
(Order no. 2466-017)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro File RF2D

(for Endo-Adapter M EH3)  
(Order no. 2466-014)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro File RF3RD

(for Endo-Adapter M EH3)  
(Order no. 2466-015)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

### Retro File RF3LD

(for Endo-Adapter M EH3)  
(Order no. 2466-016)



#### Application

Removal of root canal tissue, enlarging and preparing root canal openings for apico-ectomy

## Other Tips

### Removal Tip

(Order no. 2465-013)



#### Application

Removal of crowns, posts or cement residue

### Alveolus separation during extraction

(Order no. 2465-014)



#### Application

Surgery

## Various attachments for Endo-Tip A or B

### Solify Attachment SP1

(for Endo Tip A EH1 or Endo Tip B EH2)  
(Order no. 2466-020)



#### Application

Cleaning small fissures, hollow spaces or grooves before sealing

### Round Attachment

(Order no. 2465-005)



#### Application

Removal of subgingival calculus or plaque

### Fissure Tip

(6 per pack.)  
(Order no. 2465-007)



#### Application

Cleaning fissures

### RoundTip PP1

(for Endo-Adapter A EH1 or Endo-Adapter B EH2)  
(Order no. 2466-010)



#### Application

Removal of subgingival calculus or plaque

### Diamond Point L EP2D

(for Endo-Adapter A EH1 or Endo Adapter B EH2)  
(Order no. 2466-030 Diamond)



#### Application

Endodontics

### Diamond Point S EP1D

(for Endo-Adapter A EH1 or Endo-Adapter B EH2)  
(Order no. 2466-031 Diamond)



#### Application

Endodontics

# Performance overview

## Adapters for Endo-Files and other Attachments

**Endo-Tip A (120°)**  
(Order no. 2466-001)



**Application**

Only to be used with

- Solfy U-files
- Solfy attachment
- Round attachment

**Endo-Tip B (90°)**  
(Order no. 2466-002)



**Application**

Only to be used with

- Solfy U-files
- Solfy attachment
- Round attachment

**Endo-Adapter M EH3**  
(Order no. 2466-100)



**Application**

Only to be used with

- Solfy U-files
- Solfy attachment
- Round attachment

**Set with Endo-Tip A (105°)**  
(Order no. 2466)

**Set with Endo-Tip B (90°)**  
(Order no. 2466-B)



**Application**

Only to be used with

- Solfy U-files
- Solfy attachment
- Round attachment

## Adapter for 24G rinsing cannulae



**Rinsing Connector P30**  
(Order no. 2465-020)







**Application**

Cleaning of periodontal pockets,  
root canal cleaning

## Solfy U-files for Endo-Tip A or B

Description Order no.	Illustration	Application Order no.	ISO Color-coding
Solfy file range consisting of: 1 x ISO No. 15 1 x ISO No. 20 1 x ISO No. 25 1 x ISO No. 30 1 x ISO No. 35 1 x ISO No. 40	Use with ■ Endo-Tip 105° ■ Endo-Tip 90° 	Order no. 2466-013, 6 x ISO No. 10 Order no. 2466-004, 6 x ISO No. 15 Order no. 2466-005, 6 x ISO No. 20 Order no. 2466-006, 6 x ISO No. 25 Order no. 2466-007, 6 x ISO No. 30 Order no. 2466-008, 6 x ISO No. 35 Order no. 2466-009, 6 x ISO No. 40	Purple White Yellow Red Blue Green Black
Solfy SC-3000 File set (6 per pack) Order no. 2466-003		Endodontic File set	

## Various files for Endo-Adapter M EH3

<b>Solfy SC-3000 Endo-File (single)</b> (for Endo-Adapter M EH3) (Order no. 2466-040)	<b>Solfy SC-3000 Diamond-File (single)</b> (for Endo-Adapter M EH3) (Order no. 2466-041)	<b>Solfy SC-3000 Endo-Files (double)</b> (for Endo-Adapter M EH3) (Order no. 2466-042)	<b>Solfy SC-3000 Diamond-Files (double)</b> (for Endo-Adapter M EH3) (Order no. 2466-043)
			
<b>Application</b>	<b>Application</b>	<b>Application</b>	<b>Application</b>
Removal of softened dentin and debris, enlarging and shaping of root canal opening	Removal of softened dentin and debris, enlarging and shaping of root canal opening	Removal of softened dentin and debris, enlarging and shaping of root canal opening	Removal of softened dentin and debris, enlarging and shaping of root canal opening



# Performance overview

## Prophylaxis

Type S01  
(Order no. 2555-100)



<b>Application</b>
Universal work tip for removing dental calculus
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

Type S02  
(Order no. 2555-200)



<b>Application</b>
Universal work tip for removing dental calculus
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

Type S03  
(Order no. 2555-300)



<b>Application</b>
Universal work tip for removing dental calculus
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

Type R01  
(Order no. 2555-510)



<b>Application</b>
Universal tip for root planing
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

Type R02  
(Order no. 2555-520)



<b>Application</b>
Universal tip for root planing
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

Type R03  
(Order no. 2555-530)



<b>Application</b>
Universal work tip for root planing
<b>Compatibility</b>
All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

# Performance overview

## Prophylaxis

Holder for interdental brushes (Order no. 2555-900)



Application

Interdental cleaning

Compatibility

All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

100 Interdental brushes Type SSS (Order no. 2555-910)



Application

Interdental cleaning

Compatibility

For brush holder Order no. 2555-900

100 Interdental brushes Type SS (Order no. 2555-911)



Application

Interdental cleaning

Compatibility

For brush holder Order no. 2555-900

Holder for tongue brushes (Order no. 2466-910)



Application

Tongue cleaning

Compatibility

All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

30 Tongue brushes (Order no. 2466-920)



Application

Tongue cleaning

Compatibility

For tongue brush holder Order no. 2466-910

# Performance overview

## Orthodontics

Holder for interdental brushes (Order no. 2555-900)



Application

Cleaning brackets

Compatibility

All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

100 Interdental brushes Type SSS (Order no. 2555-910)



Application

Cleaning brackets

Compatibility

For brush holder Order no. 2555-900

100 Interdental brushes Type SS (Order no. 2555-911)



Application

Cleaning brackets

Compatibility

For brush holder Order no. 2555-900

## Accessories

WorkTips organizer (Order no. 2555-990)



Application

Organized storage of scaler tips and tongue brushes, autoclaving

Compatibility

All popular air scalers (Morita, KaVo, Sirona, W&H, Komet, NSK)

WorkTips tool (Order no. 2555-995)



Application

Exchanging tips

Compatibility

For Morita's air scaler

WorkTips cover (Order no. 2555-999)



Application

Sterile storage of work tips

Compatibility

For Morita's air scaler

# Hand Instruments

Reduced to maximum

## Perfect form and function.

Hand instruments are extremely important in dentistry. They are intended to facilitate the work of the attending practitioner and dental office team – both at diagnostic and therapeutic level. The premise in this case is, as easy and precise as possible. Morita's Oral mirror MXS combines highly functional technology with perfect ergonomics. Operators therefore always have an instrument readily accessible that enhances fine tactility, creating the perfect basis for excellent treatment outcomes.



## Overview of added values: Manual instruments practical application.



Application comfort redefined: The ultra-bright, surface-mirrored MXS has a non-dazzling metal surface. Furthermore, the end of the handle is provided with a scale, which is also ideal for gauging endo-files.

### **Oral mirror MXS** (Order no. 6012)

- Mirror diameter of only 14 mm
- Weight of only 4 g
- Instrument length: 16 cm

# Endodontics a cut above the rest

Morita endodontic systems

As special as each  
and every tooth.

Every tooth is an original. The objective is to preserve this original – even if, for example, a painful root canal infection strains its structure. What a good thing that modern dentistry has a whole range of technologies at its disposal which support you, the dentist, when preparing every type of root canal – even where the canal system is very narrow and includes multiple curves. Morita supplies a wide range of highly precise endodontic systems which meet the most stringent requirements and enable customized, sometimes highly complex, treatment.

<b>Apex locators</b> (Root ZX mini, DentaPort Root ZX) .....	From Page 124
<b>Canal preparation systems</b> (TriAuto mini).....	From Page 126
<b>Measuring and canal preparation systems</b> (DentaPort ZX Set OTR, Tri Auto ZX2, Set TriAuto mini) .....	From Page 130
<b>Files</b> .....	From Page 140
<b>Material</b> (Composite, endometric demonstration and training aids, injection needles) .....	From Page 146



# Apex locators

Masters at precision

## Millimeter by millimeter.

Successful endodontic treatment places great demands on every dentist – after all, every patient is different. The various types of root canal structure and specific anamnesis demand customized treatment whereby access to details on every micrometer of the root canal is especially important. This is where Morita's apex locators come into their own. These award-winning devices provide for reliable orientation within the tooth thus enabling them to exceed the stringent requirements of endodontics.

Proven apex localization

Pocket-sized high performer



## In detail: The Root ZX mini in daily use.

As described by the design philosophy “form follows function” at Morita performance is not only described by measured values; high-grade technology should be mirrored by modern design, which has been achieved with the Root ZX mini. This perfected form disguises a high-performance apex locator which successfully continues the tale of Morita’s world-leading range of endodontic products. Like its multiple award-winning

predecessor, the Root ZX mini also localizes root canals reliably and accurately to within a millimeter – regardless of whether or not rinsing fluid or blood is in the canal. This practical device informs the operator acoustically whether it is about to reach the apex or has already done so. A large and clearly readable color LCD – with its clear bar display and high-contrast image – ensures the values can be read off easily.

**Simply reliable:**  
Precise measurements regardless of whether or not rinsing fluid or blood is in the canal.

**Acoustic signal:**  
The Root ZX mini uses acoustic feedback to navigate the operator in the root canal.

**Mini yet mighty:**  
The color LCD features a well thought-out, easily readable display.

**Really easy to handle:**  
The compact design allows the operator to position the device anywhere in the practice.

**Four colors:**  
The Root ZX mini is available in white, red, blue, and green.



(Order no. 6951-110)

2 year guarantee

### Set

- 1 Root canal modul
- 1 “Mini” measuring cable (Order no. 6951-001)
- 5 Mucosal electrodes (Order no. 6950-004)
- 3 File clamps (Order no. 6950-005)
- 3 Batteries
- 1 “Mini” test plug (Order no. 6951-012)

## In detail: The DentaPort Root ZX in daily use.

The DentaPort Root ZX visualizes the invisible. The Morita apex locator stands for one thing in particular – absolute precision and determines accurate to within a millimeter. To ensure this, the device uses the proven quotient method which involves measuring the impedances of two frequencies to provide reliable results on the length of the root canal. A real bonus in daily practice: as the DentaPort Root ZX requires

no zero adjustment, this system can be used immediately for measuring each and every canal. Should you wish, this highly precise apex locator can be upgraded to a convenient endodontic motor including localization and polymerization functions: In combination with the TriAuto OTR root canal preparation module, this product can be used for preparing root canals.

**Right to the tips:**  
The DentaPort Root ZX determines the root canal precisely and reliably.

**At a glance:**  
The large, clearly structured color display shows the exact position of the file in the canal at all times.

**Safe navigation:**  
The DentaPort Root ZX emits signal tones to indicate whether it is about to reach the apex or has already done so.

**Upgradable:**  
By connecting a DentaPort TriAuto OTR endodontic handpiece (from page 130).



(Order no. 6900)

2 year guarantee

**Lightweight, yet robust:**  
The DentaPort Root ZX scores in daily practice with its lightweight, robust casing.

### Set

- 1 Root canal modul
- 1 Measuring cable (Order no. 6950-011)
- 5 Mucosal electrodes (Order no. 6950-004)
- 3 File clamps (Order no. 6950-005)
- 3 Batteries
- 1 Test plug (Order no. 6960-012)

# Canal preparation systems

They have the hang of it



## New: Self-determination.

Tooth preparation demands high concentration of the dentist. Even better if you have dependable equipment, such as the Morita TriAuto mini, at hand which supports you as well as possible with the daily challenges encountered in endodontics. Because this cordless endodontic motor allows a new degree of self-determination where endo treatment is concerned.

## In detail: The TriAuto mini in daily use.

The TriAuto mini allows you to work with the same degree of "feeling" as when preparing by hand. For example, the instrument head with a diameter of only 9 millimeters guarantees optimum access to molars as well as allowing a good view of the root canal access cavities and floor of the pulp chamber. While doing so, the numerous automatic functions govern the speed, direction of rotation and torque of the device which enhances the precision and safety of treatment immensely. One of these is the Auto

Torque Reverse function which prevents the file blocking by ensuring that if a certain torque is exceeded, it automatically rotates in the opposite direction.

Good to know: The TriAuto mini, which is normally cordless, can be connected to a Root ZX mini apex locator via a data transfer cable – when connected, one of the functions monitors the position of the file during treatment.

### Good prospects:

Pleasant preparation thanks to the compact, practical dimensions and head diameter of only 9 mm.

### Auto Torque Reverse:

If a certain torque is exceeded, the file automatically rotates in the opposite direction which prevents it blocking.



### Excellent view:

Easy to read LCD and colored display backlights indicating the different operating modes – including for left-handed operators.

### Full charge:

This device comes with a practical cabinet-top charger.

### As scheduled:

Easy programming and selection of the different combinations optimize your working procedures.

### 2 year guarantee

### Wide speed range:

11 settings ranging from 50 rpm to 1,000 rpm as well as various torque settings.

### Team player:

Can be combined with a Root ZX apex locator via a data transfer cable (from page 124).

## Set

- 1 Handpiece, incl. contra angle (Order no. 6970)
- 1 Battery (Order no. 6440-820)
- 1 Battery recharger (Order no. 6970-002)

(Order no. 6970)

127 Morita Products 01/21

# Measuring and canal preparation systems

Masters in precision

## Ideal combination.

Endodontic procedures in minute structures demand the most subtle tactility. In addition, the topic of safety plays an important role – for both patients and dentists. Morita's measuring and preparation systems comply with these requirements exactly as the combined systems include both high-torque endodontic motors for efficient root canal preparation as well as integral apex locators which allow precise length determination. Operators can choose between systems either with or without cords which provide many additional functions depending on the model.

Eight controllable speed settings ranging from 100 – 800 rpm, up to 11 torque settings, auto start/stop when introducing/withdrawing the files, auto torque apical control functions.

Maximum flexibility and pleasant handling owing to the cordless, 140 g lightweight handpiece – even during longer lasting procedures.



## In detail: The DentaPort ZX Set OTR.



As the saying goes, all good things come in threes – at Morita too. That's why in our DentaPort ZX Set OTR we combine several requirements in one: Precise apex function worth mentioning in this context is the innovative Optimum Torque Reverse function (OTR). It ensures that the optimum torque is applied to the file at any time which aids the localization, convenient preparation and fast polymerization. Like this, the modular combination system quickly and easily turns into exactly that device which the

operator requires – yet the powerful performance, reliability and quality remain unchanged. But safety always remains in the forefront. One localization and preparation device prepare the tooth effectively and reduces file breakage to a minimum. The automatic Start-Stop function is a further important feature. It ensures that the file does not rotate until inserted into the root canal – when withdrawn it stops automatically. In short: You have never treated a tooth so gently!



DentaPort LED module DP-VL

**Expansion:**  
For quick, perfect finishing – The DentaPort LED module DP-VL polymerization handpiece is also available.

### Soft & safe:

The OTR function ensures that the optimum torque is applied to the file at all times – It combines the advantages of rotating and recipro-cating technology.

### Dependable:

Precise and reliable localizations regardless of whether or not rinsing fluid or blood is in the canal.

### The right reaction at the right moment:

Various safety functions including eight adjustable speeds, 11 torque settings, functions for preventing files fracturing or overinstrumentation facilitate safe preparation.

### Safe navigation:

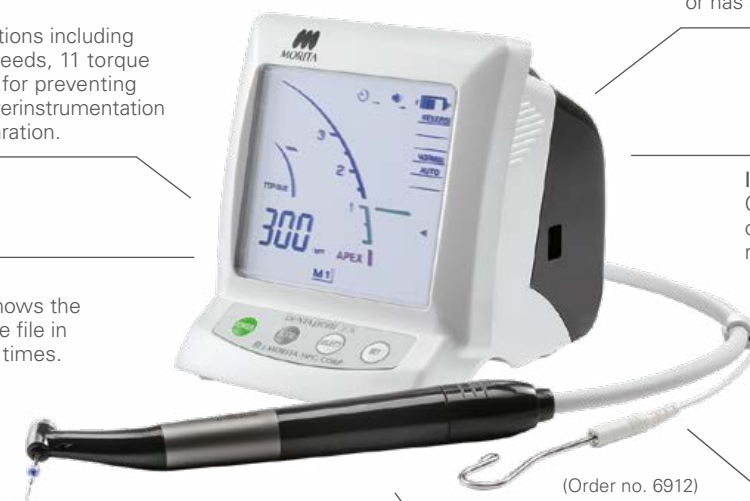
The device emits a signal tone to indicate whether it is about to reach the apex or has already done so.

### Always in view:

The color display shows the exact position of the file in the root canal at all times.

### Independent:

Can be used with all commonly available rotary file systems.



(Order no. 6912)

2 year guarantee

### Lengthwise:

An internal file electrode in the handpiece promises more working length.

### Ambidextrous:

For use by left-handed or right-handed operators.

## In detail: The DentaPort ZX Set OTR.

You not only want reliable localizations, but also visually monitored root canal preparation and convenient finishing? All you have to do is adapt the DentaPort ZX Set OTR to your requirements:

this modular combi-system for convenient and safe endodontics can always be turned into exactly that device needed.



### Set

- 1 Apex locator DentaPort Root ZX (Order no. 6900)
- 1 CE measuring cable (Order no. 6950-011)
- 5 Mucosal electrodes (Order no. 6950-004)
- 3 File clamps (Order no. 6950-005)
- 3 Batteries (AA)
- 1 Test plug (Order no. 6960-012)
- 1 DentaPort TriAuto OTR (Order no. 6907)
- 1 Battery recharger (Order no. 6905-005)
- 1 Ni-MH battery (Order no. 6905-006)
- 1 Contra angle handpiece with integrated file electrode (Order no. 6907-001)
- 1 Micro motor (Order no. 6905-003)
- 1 Handpiece rest (Order no. 6905-007)
- 1 Handpiece cable (Order no. 6905-004)
- 1 LS oil spray (Order no. 2498)
- 1 Foot control (Order no. 6905-008)

# In detail: The Tri Auto ZX2.



The New Movement  
in Endodontics

Turn two into one: the Tri Auto ZX2 with its modern design combines a cordless endodontic motor with an apex locator – and, like its predecessor, combines both tools in one wireless handpiece. This system pools straightforward, intuitive operation with many automatic features which ensure absolutely reliable results during endodontic procedures. These include the Optimum Torque

Reverse (OTR) and Optimum Glide Path (OGP) safety features. OGP simplifies glide path creation for practitioners whereas OTR protects against file breakage and microcracks by automatically reversing the rotational direction once the torque level is exceeded. Like this, the Tri Auto ZX2 protects the natural tooth structure and makes the treatment even more efficient!



## Feels light:

The 140 g lightweight, cordless handpiece ensures the weight is balanced.

## Change sides:

Perfectly suited for right-handed and left-handed.

## Innovative & intuitive:

Thanks to the functions Optimum Torque Reverse (OTR) and Optimum Glide Path (OGP), root canal preparation is both safe and efficient.

## Absolutely reliable:

The Tri Auto ZX2 determines the length of root canals exactly – regardless of whether or not rinsing fluid or blood is in the root canal.

## 2 year guarantee

(Order no. 6961)

## Optimum access:

The small instrument head permits an optimum view of the preparation site.

## Simply safe:

The Auto-Torque function for preventing file breakage as well as apical control functions for active protection against overinstrumentation.

## Signal tones:

The root canal is navigated via signal tones – once the Tri Auto ZX2 approaches the apex or has already reached it.

## System:

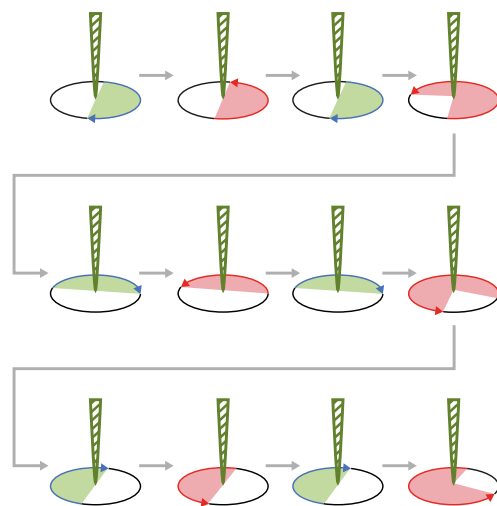
Can be used with all commonly available rotary file systems.

# In detail: The Tri Auto ZX2.



## Change in direction:

The Optimum Torque Reverse (OTR) function helps prevent file breakage by reversing the direction of rotation as soon as a certain torque level is attained.



## Power-driven:

Apical patency can be achieved with the Tri Auto ZX2 and size #10 rotary files.

## Unique:

The new Optimum Glide Path (OGP) function enables the practitioner to create the glide path mechanically, yet faster and safer than with hand instruments.



Unique, compact, innovative.

## Set

- 1 Motor handpiece (Order no. 6961-009) incl. contra angle handpiece (Order no. 6961-001) and internal file electrode (Order no. 6907-011)
- 1 Battery (Order no. 6440-820)
- 1 Battery recharger (100-240 V) (Order no. 6961-002)
- 1 AC adapter (Order no. 6961-012)
- 1 CE probe cord (Order no. 6961-003)
- 1 File clamp (Order no. 6950-005)
- 3 Mucosal electrodes (Order no. 6950-004)
- 1 Test plug (Order no. 6960-012)
- 1 Guide pin for replacing the internal file electrode (Order no. 6961-050)
- 1 Pack hygienic protective covers (100 per pack) (Order no. 6961-010)
- 1 AR-/LS Spray nozzle Tri Auto ZX2 (Order no. 6905-011)

## In detail:

# Root ZX mini combined with the TriAuto mini.

A real power pack: the Root ZX mini apex locator and the TriAuto endodontic motor are a perfect team. This modular system enables the two devices to be linked via a data transfer cable to

enable you to prepare root canals perfectly safely and efficiently – starting with localization and finishing with the preparation. Both devices are available either separately or in combination.

### Connected:

The Root ZX mini and TriAuto mini can be linked flexibly with a data transfer cable; both devices can also be ordered separately.

### Thanks to the apex locator:

Precise and dependable localizations – regardless of whether or not rinsing fluid or blood is in the canal.

### Customize:

Easy programming and a variety of different combinations optimize your working day.

### Visible:

All important data can be read off the clearly structured color LCD.



(Order no. 06970-110)

### 2 year guarantee



### No risk:

Various automatic functions and settings, e.g. Auto Torque Reverse and Auto Torque Slow-down, avoid excessive preparation and wedging of files.

### Display changes color:

When used with the Root ZX mini the display of the TriAuto mini changes color to show the position of the file tip in the root canal and communicate changes.

### Fits well:

Pleasant preparation and optimum access to the preparation site thanks to the compact dimensions of the handpiece – also suitable for left-handed operators.

### It has the hang of it:

11 possible speed settings ranging from 50 rpm to 1,000 rpm.



Team players: Root ZX mini and TriAuto mini.

## Set

- 1 TriAuto mini handpiece incl. contra angle (Order no. 6970-003 + 6970-001)
- 1 Measuring cable (Order no. 6951-001)
- 1 Battery (Order no. 6440-820)
- 5 Mucosal electrodes (Order no. 6950-004)
- 1 Battery recharger as free-standing base (230V) (Order no. 6970-002)
- 3 File clamps (Order no. 6950-005)
- 1 Root ZX mini apex locator
- 3 Batteries
- 1 Connector kit for the Root ZX mini (Order no. 06970-006)
- 1 Test plug (Order no. 6951-012)

# Files

Simple, yet effective

Files made of a flexible alloy  
which minimizes file breakage.



## Purely a matter of shape.

Root canal treatments are among the most difficult procedures in dentists' daily routines because every root canal has different twists and curves. Flexible files are required for power-driven preparation as only they prepare glide paths predictably. That's why Morita supply endodontists with various nickel-titanium file systems which comply with the most stringent requirements and prepare even curved canals reliably, efficiently and safely.

# In detail: EndoWave in daily use.

Since Morita always wants to be on the safe side where endodontic procedures are concerned, we developed the EndoWave file system. This system is based on the Crown-Down technique and includes files with various diameters, lengths and tapers optimized for root canal preparation.

When using the "Hybrid Concept" or "OTR file sequence" versions the practitioner, e.g. only needs a maximum of three files – and can thus prepare more cost-effectively, faster and safer.

**Sometimes more, sometimes fewer:**  
Preparation can be completed with only 3-5 files depending on the EndoWave set in use.

**Safety first:**  
The special file alloy minimizes file breakage.

**Continuous wave design:**  
The "Continuous wave design" prevents screwing-in or blockages in the root canal.

**Purely innovative:**  
The Optimum Torque Reverse (OTR) file set allows for rapid and safe root canal preparation using a maximum of three files.

**Cutting:**  
The triangular design of the files results in sharp cutting edges which provide for effective and rapid working procedures.

**Rounded off nicely:**  
The rounded tips are safe in the root canal.

## Taper Color code:

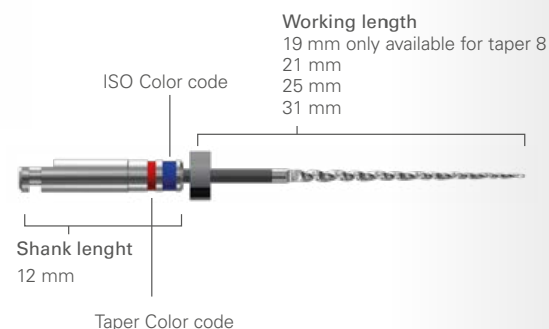
# .02		# .08	
# .04		# .10	
# .06			

## ISO Color code:

# 10		# 45	
# 15		# 50	
# 20		# 55	
# 25		# 60	
# 30		# 70	
# 35		# 80	
# 40			

## Compatibility:

EndoWave file systems are suitable for use with the Morita DentaPort ZX Set OTR, Tri Auto ZX2, TriAuto mini systems as well as all other rotary systems on the market.



## EndoWave Kit A+-25 for normal root canals ①

Order no. 6820-225	EndoWave Kit A+-25 for normal root canals (5 pcs./pack)
--------------------	---

## EndoWave Kit A+-31 for normal root canals ②

Order no. 6820-231	EndoWave Kit A+-31 for normal root canals (5 pcs./pack)
--------------------	---

## EndoWave Kit B+-25 for narrow and markedly curved root canals ③

Order no. 6820-325	EndoWave Kit B+-25 for narrow and markedly curved root canals (5 pcs./pack)
--------------------	---

## EndoWave Kit B+-31 for narrow and markedly curved root canals ④

Order no. 6820-331	EndoWave Kit B+-31 for narrow and markedly curved root canals (5 pcs./pack)
--------------------	---

## EndoWave MGP "Mechanical Glide Path" Kit ⑤

Order no. 6820-002	EndoWave MGP "Mechanical Glide Path" Kit (3 pcs./pack)
--------------------	--

## EndoWave Hybrid Concept-25 ⑥

Order no. 6820-425	EndoWave Hybrid Concept-25 (3 pcs./pack)
--------------------	--

## EndoWave Hybrid Concept-31 ⑦

Order no. 6820-431	EndoWave Hybrid Concept-31 (3 pcs./pack)
--------------------	--

## EndoWave OTR ⑧

Order no. 6820-300	EndoWave OTR Sequence-25 (3 pcs./pack)
--------------------	--

## EndoWave LA Kit ⑨

Order no. 6820-500	EndoWave LA Kit (3 pcs./pack)
--------------------	-------------------------------

## EndoWave UC Kit

Order no. 6820-525	EndoWave UC Universal Set-25 (4 pcs./pack) ⑩
--------------------	--

Order no. 6820-625	EndoWave UC Large Set-25 (4 pcs./pack) ⑪
--------------------	--

## EndoWave U Kit ⑫

Order no. 6820-725	EndoWave U Set-25 Kit (6 pcs./pack)
--------------------	-------------------------------------

# In detail: EndoWave in daily use.

## EndoWave NiTi Files – Single files

Order no. 6820-835	EndoWave nickel-titanium file 8/#35/19 mm (5 pcs./pack) 1 2 6 7 9 11 12
Order no. 6820-225	EndoWave nickel-titanium file 2/#15/21 mm (5 pcs./pack)
Order no. 6821-220	EndoWave nickel-titanium file 2/#20/21 mm (5 pcs./pack)
Order no. 6821-225	EndoWave nickel-titanium file 2/#25/21 mm (5 pcs./pack)
Order no. 6821-425	EndoWave nickel-titanium file 4/#25/21 mm (5 pcs./pack)
Order no. 6821-620	EndoWave nickel-titanium file 6/#20/21 mm (5 pcs./pack)
Order no. 6821-625	EndoWave nickel-titanium file 6/#25/21 mm (5 pcs./pack)
Order no. 6821-630	EndoWave nickel-titanium file 6/#30/21 mm (5 pcs./pack)
Order no. 6825-210	EndoWave nickel-titanium file 2/#10/25 mm (5 pcs./pack) 5 9
Order no. 6825-215	EndoWave nickel-titanium file 2/#15/25 mm (5 pcs./pack) 5
Order no. 6825-220	EndoWave nickel-titanium file 2/#20/25 mm (5 pcs./pack) 3 5
Order no. 6825-225	EndoWave nickel-titanium file 2/#25/25 mm (5 pcs./pack) 10
Order no. 6825-230	EndoWave nickel-titanium file 2/#30/25 mm (5 pcs./pack)
Order no. 6825-235	EndoWave nickel-titanium file 2/#35/25 mm (5 pcs./pack)
Order no. 6825-240	EndoWave nickel-titanium file 2/#40/25 mm (5 pcs./pack) 8
Order no. 6825-245	EndoWave nickel-titanium file 2/#45/25 mm (5 pcs./pack)
Order no. 6825-250	EndoWave nickel-titanium file 2/#50/25 mm (5 pcs./pack)
Order no. 6825-255	EndoWave nickel-titanium file 2/#55/25 mm (5 pcs./pack)
Order no. 6825-260	EndoWave nickel-titanium file 2/#60/25 mm (5 pcs./pack)
Order no. 6825-415	EndoWave nickel-titanium file 4/#15/25 mm (5 pcs./pack) 3 8
Order no. 6825-420	EndoWave nickel-titanium file 4/#20/25 mm (5 pcs./pack) 3
Order no. 6825-425	EndoWave nickel-titanium file 4/#25/25 mm (5 pcs./pack) 3 8 10 12

## EndoWave NiTi Files – Single files

Order no. 6825-430	EndoWave nickel-titanium file 4/#30/25 mm (5 pcs./pack) 3 12
Order no. 6825-435	EndoWave nickel-titanium file 4/#35/25 mm (5 pcs./pack) 12
Order no. 6825-440	EndoWave nickel-titanium file 4/#40/25 mm (5 pcs./pack) 12
Order no. 6825-450	EndoWave nickel-titanium file 4/#50/25 mm (5 pcs./pack)
Order no. 6825-620	EndoWave nickel-titanium file 6/#20/25 mm (5 pcs./pack) 1 6 10 11
Order no. 6825-625	EndoWave nickel-titanium file 6/#25/25 mm (5 pcs./pack) 1 6 9 10 11
Order no. 6825-630	EndoWave nickel-titanium file 6/#30/25 mm (5 pcs./pack) 1 11 12
Order no. 6825-635	EndoWave nickel-titanium file 6/#35/25 mm (5 pcs./pack)
Order no. 6825-640	EndoWave nickel-titanium file 6/#40/25 mm (5 pcs./pack) 1
Order no. 6831-220	EndoWave nickel-titanium file 2/#20/31 mm (5 pcs./pack) 4
Order no. 6831-225	EndoWave nickel-titanium file 2/#25/31 mm (5 pcs./pack)
Order no. 6831-415	EndoWave nickel-titanium file 4/#15/31 mm (5 pcs./pack) 4
Order no. 6831-420	EndoWave nickel-titanium file 4/#20/31 mm (5 pcs./pack) 4
Order no. 6831-425	EndoWave nickel-titanium file 4/#25/31 mm (5 pcs./pack) 4
Order no. 6831-430	EndoWave nickel-titanium file 4/#30/31 mm (5 pcs./pack) 4
Order no. 6831-620	EndoWave nickel-titanium file 6/#20/31 mm (5 pcs./pack) 2 7
Order no. 6831-625	EndoWave nickel-titanium file 6/#25/31 mm (5 pcs./pack) 2 7
Order no. 6831-630	EndoWave nickel-titanium file 6/#30/31 mm (5 pcs./pack) 2
Order no. 6831-640	EndoWave nickel-titanium file 6/#40/31 mm (5 pcs./pack) 2

# Material

Only the best

## For effective root canal preparation.

Successful root canal treatment not only depends on up-to-date equipment and instruments. The materials used in the root canal during and after treatment are also decisive. At Morita we selected those materials from the vast range of products on the market which match our systems very well. Because even small details make a difference.



## In detail: EndoWave Gel in daily use.

Successful treatment of the root canal is not only the result of the instruments employed, but is also due to the materials used during the procedure. Indispensable: EDTA gel, such as our EndoWave Gel,

which facilitates filing immensely by enabling the instruments to glide smoothly into the canal. EndoWave Gel also foams up which enhances cleaning of the root canal.



(Order no. 7471)

## In detail: CromaCore in daily use.

Fast, simple, dependable – where indicated CromaCore is available for core build-ups or placing root posts following root preparation. This hybrid composite can be placed in the cavity in just a single working step from the double-barrel syringe. The intraoral tips help access the difficult

to reach areas in the mouth. Thanks to its excellent flow properties this dual-curing material adapts optimally to tooth structure. Also, this composite can be prepared like dentin and is highly stable. The outcome: A smooth and precise preparation.

### Short in time:

Thanks to its advantageous properties, this composite provides for short treatment times.

### Flowable:

Thanks to the ideal flow properties, optimum adaptation to the tooth structure is possible.



(Order no.  
CromaCore Set 7460  
CromaCore Twix 7462)

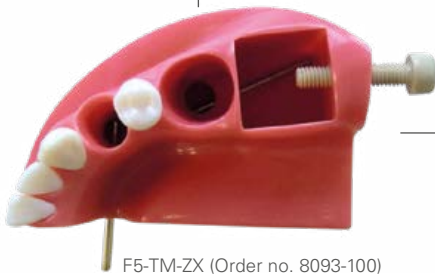
### Hardness:

Thanks to the combination of light and chemical curing, this material attains high final hardness.

# In detail: Demonstration and training aids in daily use.

Practice makes perfect, including for endodontics. For increased reliability when measuring the length of roots electronically in daily practice, Morita developed the F5-TM-ZX Endo Training Simulator which provides optimum conditions for practical

**Well prepared:**  
Dentists can use the simulator to practice electronic measurement of the apex before checking their measurement with the transparent root canal.



Training block 8737-100:  
Canal prepared without checking the length electronically



Training block 8737-200:  
For determining the length electronically

**Preparation:**  
The simulation teeth are fixed in the relevant sockets with alginate or agar agar and filled with isotonic saline solution. Electric current can be conducted between the saline solution and stainless steel contact integrated into the tooth socket – this creates a practical training unit.



**Visual check:**  
Electric length measurement using a Root Canal Simulator PCB (Order no. 8093-110).

training. It consists of a mandibular quadrant with tooth sockets 44 and 46 for trepanned, extracted or artificial training teeth as well as socket 47 for placing an endo training block.

# In detail: Injection needles in daily use.

Syringes and needles are used on a daily basis in every dental office. Our injection needles promote simple handling and, in addition, ensure that the

patient feels as little pain as possible – a top performance.

**Precise:**  
The injection and barrel ends of the needles are beveled to prevent the needle aperture becoming blocked with rubber particles.

**Safe:**  
The point-marking on the coupling enables the injection to be adjusted precisely allowing for more exact and careful working.



**Easy:**  
The color-coded seal on the syringe cover and packaging facilitates sorting and usage.

## Needles – Disposable Injection Needles

Order no. 7710	Morita needles, 30 GL-25 0.3 x 25 mm (100 pcs./pack)
Order no. 7711	Morita needles, 30 GS-21 0.3 x 21 mm (100 pcs./pack)
Order no. 7712	Morita needles, 30 GS-16 0.3 x 16 mm (100 pcs./pack)
Order no. 7713	Morita needles, 30 GS-12 0.3 x 12 mm (100 pcs./pack)
Order no. 7716	Morita needles, 27 GS-21 0.4 x 21 mm (100 pcs./pack)
Order no. 7717	Morita needles, 27 GL-35 0.4 x 35 mm (100 pcs./pack)
Order no. 7711-100	Morita needles, "inch," 30 GS-21 0.3 x 21 mm (100 pcs./pack)
Order no. 7717-100	Morita needles, "inch," 27 GL-35 0.4 x 35 mm (100 pcs./pack)

# Gentle and effective

Laser system from Morita



## Minimally invasive, maximally effective.

Virtually painless surgical procedures while at the same time conserving the tooth structure: minimally invasive forms of treatment have long been an integral part of dentistry. Complex root canal or peri-implantitis treatments in particular require gentle solutions, which go hand in hand with a precise, reliable procedure. This is where laser treatment is effective. With over 20 years of experience in this field, Morita has developed the AdvErL EVO Er:YAG laser. This highly economical

system opens up an extremely wide range of applications – including periodontic, endodontic, implantological or oral surgery indications.

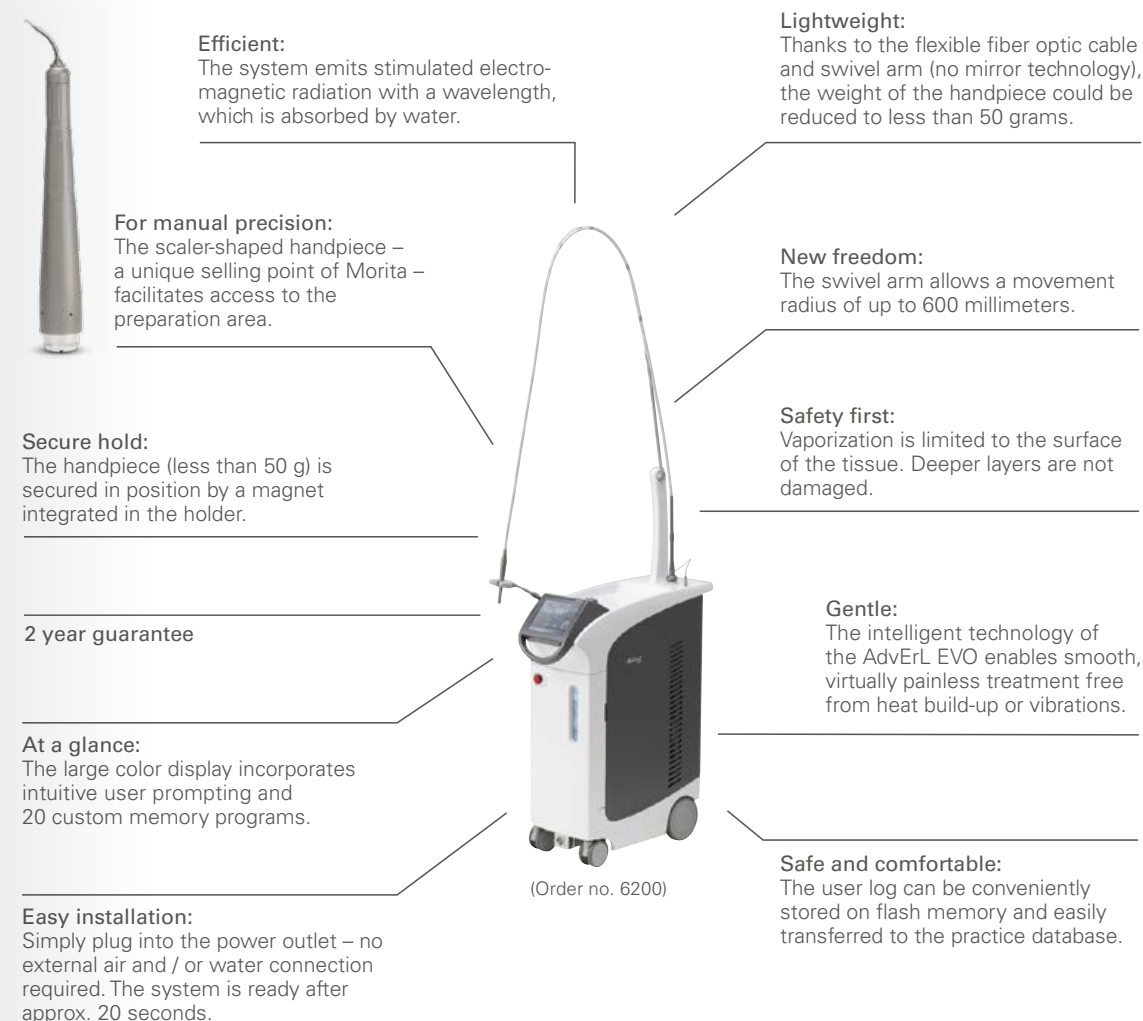
**Laser systems** ..... From page 153

**Laser Tips** ..... From page 154

# Practical application: The AdvErL EVO Er:YAG laser.

Excellent prospects for dentists and patients: The AdvErL EVO Er:YAG laser combines the highest precision with gentle application – setting standards in minimally invasive laser dentistry. Dentists profit from numerous innovations, making treatment more ergonomic and efficient. This includes a scaler-shaped handpiece, which guarantees direct access to the preparation area; while the slender application tips ensure optimum visibility.

The wavelength of the AdvErL EVO provides a further advantage: at only 2,940 nm it ensures maximum absorption in water. In addition, effective tissue ablation is achieved in combination with the pulsed operating mode of this laser system – without any significant thermal side-effect. Thanks to this wavelength, the laser therefore produces virtually no heat, making treatment even more comfortable for the patient.



# Uniquely innovative: The AdvErL EVO laser tips.

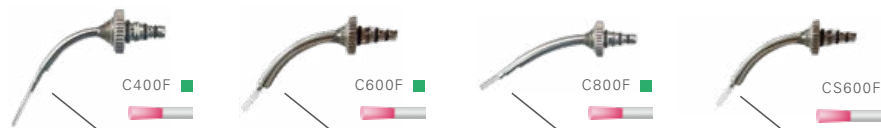
A total of 21 laser tips are available for our advanced laser system.

A particular highlight and genuine unique marketing point is the intelligent design of the tips: the water and air supply are integrated directly in the respective tip at the point where the laser beam is also emitted.

This allows, for example the air supply to be interrupted without having to stop the water flow.



## C series



## P series



## PS series



## S600T



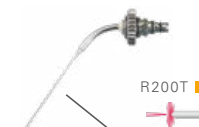
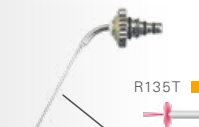
## CF600



## Brush



## R series



## Marking tool:

- Standard Tip
- Handpiece Type R is necessary
- C: Caries Tip
- CF: Corner/Curve flat Tip
- P: Perio Tip
- PS: Pocket surgery Tip
- R: Root Tip/Peri-implantitis
- Brush tip: Hyper Sensitivity
- S: Surgery Tip

## Equipment

- 1 AdvErL EVO laser (6200)
- 7 Standard Tips:
  - C400F (6210-240)
  - C600F (6210-260)
  - C800F (6210-280)
  - PS400TS (6210-541)
  - PS600T (6210-560)
  - PS600TS (6210-561)
  - S600T (6210-860)
- 5 warning labels

## Labeling of laser areas in compliance with BGV B2:

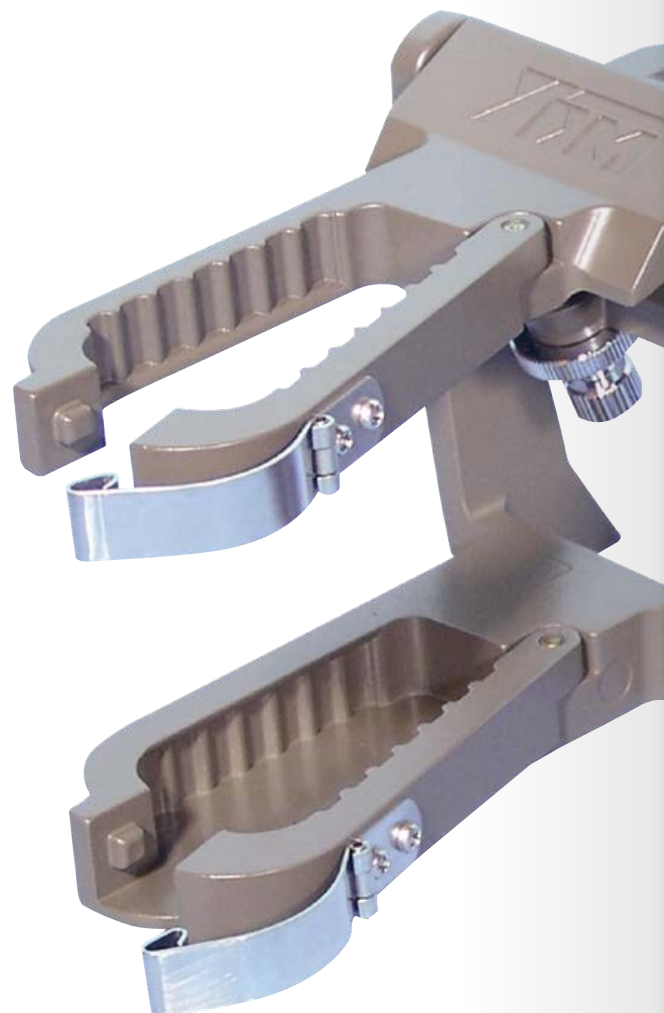
Users can easily and safely identify Class 3B, 3R and 4 laser equipment using the laser warning light. Simply switch on the light and hang the sign on the door handle of the laser room.



(Order no.  
6200-901 DE/  
6200-902 EN/  
6200-903 FR)

## For a perfect outcome

Morita laboratory devices



## Correct technology, top results.

Every prosthetic restoration is unique and must be fabricated exactly to meet the requirements of each specific patient. This is why absolute precision is required when fabricating high-grade restorations – after all; the upper and lower jaws must function in perfect unity. Morita has developed special laboratory devices for this purpose which support the work of professional users in everyday practice extremely well.

## For a perfect bite: Articulator YS-B.

In order to match prosthetic restorations to the specific relationships of upper and lower jaws, Morita equipped the YS-B articulator with numerous well thought-out functions. These

cope well with the various requirements of dental offices and labs enabling analysis of models and fabrication of bite blocks to be carried out in a precise and user-oriented manner.

**Always adjusted correctly:**  
The upper member of the articulator can be set as required with just a few manual adjustments.

**Trend-setting:**  
The YS-B articulator provides for precise lateral and occlusal guidance.

**Firm grip:**  
Models of dental arches can be retained plaster-free.



(Order no. 5130)

# GUMMETAL® Orthodontic Wire

Extremely strong, extremely flexible



## The archwire solution.

Pleasant for the patient, uncomplicated and effective handling: GUMMETAL® Premium orthodontic wire optimizes orthodontic treatment thanks to its worldwide unique material composition. GUMMETAL® archwires are made of a special titanium-niobium alloy and have an extremely low elastic modulus – combined with extremely high strength. The excellent adaptability, extensive

spring-back and low surface friction are impressive features of the archwires during application. Initial levelling and alignment of the teeth are also highly accelerated thanks to these special elasto-plastic properties. Good to know: GUMMETAL® is totally free of heavy metals, non-toxic and is consequently ideal for sensitive, allergy-prone patients.

**Unique:**  
Low elastic module combined with high strength.

**Effective and gentle:**  
The non-linear elastic adaptability ensures maximum activation, without generating strong forces.

**Short and highly efficient:**  
GUMMETAL® significantly shortens the actual duration of treatment.

**Less is more:**  
Fewer archwire changes enhance patient comfort during treatment.

Archwire with a Natural Form

Order no.	Description	Order no.	Description
GM14UE	GUMMETAL Archwire Natural Form, .014 Upper Jaw (5 pcs./Pck.)	GM1622UE	GUMMETAL Archwire Natural Form, .016 X .022 Upper Jaw (5 pcs./Pck.)
GM14LE	GUMMETAL Archwire Natural Form, .014 Lower Jaw (5 pcs./Pck.)	GM1622LE	GUMMETAL Archwire Natural Form, .016 X .022 Lower Jaw (5 pcs./Pck.)
GM16UE	GUMMETAL Archwire Natural Form, .016 Upper Jaw (5 pcs./Pck.)	GM1722UE	GUMMETAL Archwire Natural Form, .017 X .022 Upper Jaw (5 pcs./Pck.)
GM16LE	GUMMETAL Archwire Natural Form, .016 Lower Jaw (5 pcs./Pck.)	GM1722LE	GUMMETAL Archwire Natural Form, .017 X .022 Lower Jaw (5 pcs./Pck.)
GM18UE	GUMMETAL Archwire Natural Form, .018 Upper Jaw (5 pcs./Pck.)	GM1725UE	GUMMETAL Archwire Natural Form, .017 X .025 Upper Jaw (5 pcs./Pck.)
GM18LE	GUMMETAL Archwire Natural Form, .018 Lower Jaw (5 pcs./Pck.)	GM1725LE	GUMMETAL Archwire Natural Form, .017 X .022 Lower Jaw (5 pcs./Pck.)
GM1616UE	GUMMETAL Archwire Natural Form, .016 X .016 Upper Jaw (5 pcs./Pck.)	GM1822UE	GUMMETAL Archwire Natural Form, .018 X .022 Upper Jaw (5 pcs./Pck.)
GM1616LE	GUMMETAL Archwire Natural Form, .016 X .016 Lower Jaw (5 pcs./Pck.)	GM1822LE	GUMMETAL Archwire Natural Form, .018 X .022 Lower Jaw (5 pcs./Pck.)

# In detail: GUMMETAL® in daily use.

## Archwire with a Natural Form

Order no.	Description	Order no.	Description
GM1825UE	GUMMETAL Archwire Natural Form, .018 X .025 Upper Jaw (5 pcs./Pck.)	GM1925LE	GUMMETAL Archwire Natural Form, .019 X .025 Lower Jaw (5 pcs./Pck.)
GM1825LE	GUMMETAL Archwire Natural Form, .018 X .025 Lower Jaw (5 pcs./Pck.)	GM2125UE	GUMMETAL Archwire Natural Form, .021 X .025 Upper Jaw (5 pcs./Pck.)
GM1925UE	GUMMETAL Archwire Natural Form, .019 X .025 Upper Jaw (5 pcs./Pck.)	GM2125LE	GUMMETAL Archwire Natural Form, .021 X .025 Lower Jaw (5 pcs./Pck.)

## Arch Blanks (for lingual)

Order no.	Description	Order no.	Description
GM1616E	GUMMETAL Arch Blanks (for lingual), .016 X .016 26φ (5 pcs./Pck.)	GM16221E	GUMMETAL Arch Blanks (for lingual), .016 X .022 26φ (5 pcs./Pck.)
GMC1751751E	GUMMETAL Arch Blanks (for lingual), .0175 X .0175 26φ (5 pcs./Pck.)	GM17251E	GUMMETAL Arch Blanks (for lingual), .017 X .025 26φ (5 pcs./Pck.)
GMC1751754E	GUMMETAL Arch Blanks (for lingual), .0175 X .0175 32φ (5 pcs./Pck.)	GM18221E	GUMMETAL Arch Blanks (for lingual), .018 X .022 26φ (5 pcs./Pck.)

## Straight wires (cut)

Order no.	Description	Order no.	Description
GMC12	GUMMETAL Straight wire (cut), .012, Length: 355mm, (5 pcs./Pck.)	GMC1722	GUMMETAL Straight wire (cut), .017 x 0.22, Length: 355mm, (5 pcs./Pck.)
GMC14	GUMMETAL Straight wire (cut), .014, Length: 355mm, (5 pcs./Pck.)	GMC1725	GUMMETAL Straight wire (cut), .017 x 0.25, Length: 355mm, (5 pcs./Pck.)
GMC16	GUMMETAL Straight wire (cut), .016, Length: 355mm, (5 pcs./Pck.)	GMC1822	GUMMETAL Straight wire (cut), .018 x 0.22, Length: 355mm, (5 pcs./Pck.)
GMC18	GUMMETAL Straight wire (cut), .018, Length: 355mm, (5 pcs./Pck.)	GMC1825	GUMMETAL Straight wire (cut), .018 x 0.25, Length: 355mm, (5 pcs./Pck.)
GMC1616	GUMMETAL Straight wire (cut), .016 x 0.16, Length: 355mm, (5 pcs./Pck.)	GMC1925	GUMMETAL Straight wire (cut), .019 x 0.25, Length: 355mm, (5 pcs./Pck.)
GMC175175	GUMMETAL Straight wire (cut), .0175 x 0.175, Length: 355mm, (5 pcs./Pck.)	GMC2125	GUMMETAL Straight wire (cut), .021 x 0.25, Length: 355mm, (5 pcs./Pck.)
GMC1622	GUMMETAL Straight wire (cut), .016 x 0.22, Length: 355mm, (5 pcs./Pck.)		

## Straight wires (rolled)

Order no.	Description	Order no.	Description
GMR28	GUMMETAL Straight wire (rolled), .028 Length: 3,2m (1 pc./Pck.)	GMR36	GUMMETAL Straight wire (rolled), .036 Length: 2,0m (1 pc./Pck.)
GMR32	GUMMETAL Straight wire (rolled), .032 Length: 2,5m (1 pc./Pck.)	GMR40	GUMMETAL Straight wire (rolled), .040 Length: 1,6m (1 pc./Pck.)

## Archwire Natural Form White (expected available from the third quarter of 2021)

Order no.	Description	Order no.	Description
GMW1616UE	GUMMETAL Archwire Natural Form White, .016 x .016 Upper Jaw (5 pcs./Pck.)	GMW1822UE	GUMMETAL Archwire Natural Form White, .018 x .022 Upper Jaw (5 pcs./Pck.)
GMW1616LE	GUMMETAL Archwire Natural Form White, .016 x .016 Lower Jaw (5 pcs./Pck.)	GMW1822LE	GUMMETAL Archwire Natural Form White, .018 x .022 Lower Jaw (5 pcs./Pck.)
GMW1622UE	GUMMETAL Archwire Natural Form White, .016 x .022 Upper Jaw (5 pcs./Pck.)	GMW1825UE	GUMMETAL Archwire Natural Form White, .018 x .025 Upper Jaw (5 pcs./Pck.)
GMW1622LE	GUMMETAL Archwire Natural Form White, .016 x .022 Lower Jaw (5 pcs./Pck.)	GMW1825LE	GUMMETAL Archwire Natural Form White, .018 x .025 Lower Jaw (5 pcs./Pck.)
GMW1722UE	GUMMETAL Archwire Natural Form White, .017 x .022 Upper Jaw (5 pcs./Pck.)	GMW1925UE	GUMMETAL Archwire Natural Form White, .019 x .025 Upper Jaw (5 pcs./Pck.)
GMW1722LE	GUMMETAL Archwire Natural Form White, .017 x .022 Lower Jaw (5 pcs./Pck.)	GMW1925LE	GUMMETAL Archwire Natural Form White, .019 x .025 Lower Jaw (5 pcs./Pck.)
GMW1725UE	GUMMETAL Archwire Natural Form White, .017 x .025 Upper Jaw (5 pcs./Pck.)	GMW2125UE	GUMMETAL Archwire Natural Form White, .021 x .025 Upper Jaw (5 pcs./Pck.)
GMW1725LE	GUMMETAL Archwire Natural Form White, .017 x .025 Lower Jaw (5 pcs./Pck.)	GMW2125LE	GUMMETAL Archwire Natural Form White, .021 x .025 Lower Jaw (5 pcs./Pck.)

## Straight wire (rolled) White (expected available from the third quarter of 2021)

Order no.	Description	Order no.	Description
GMWR32	GUMMETAL Straight wire (rolled) White, .032, Length: 2,5m (1 pc./Pck.)	GMWR36	GUMMETAL Straight wire (rolled) White, .036, Length: 2,00m (1 pc./Pck.)

## Training Pliers

Order no.	Description	Order no.	Description
GMTP2	GUMMETAL Training Pliers	CUTVLSB1	Vertical Loop & Step Bend Plier

# Show your teeth

Demonstration models from Morita



## Successful models.

Detailed dental study models are indispensable in modern dentistry – whether they are used for precise visualization during patient education or as teaching aids at universities or training institutes. High-quality models provide optimum support in a wide range of dental applications – from orthodontics through endodontics and periodontology to oral hygiene instruction. A phantom head, also included in our portfolio, provides optimum conditions for practical training and working.

<b>Functional model</b> .....	From page 163
<b>Dental care model</b> .....	From page 164
<b>Implant model</b> .....	From page 165
<b>Growth model</b> .....	From page 166
<b>Periodontal surgery model</b> .....	From page 167
<b>Phantom head</b> .....	From page 168

Further demonstration models for practical initial and advanced training are available here:



## Clear presentation: Base models.

Many patients nowadays expect – independent of the scope of treatment – comprehensive counselling. Models are a useful aid, whether as demonstration material when explaining the

features of the jaws and teeth or demonstration of dental functions. Even complex issues can be precisely explained in a comprehensible manner using the detailed models.

### Functional model upper + lower jaw i2D-400C

Ideal for thorough patient education: the three-dimensional base model i2D-400C.

Upper/lower jaw, set with 28 removable teeth.

Permanent teeth with anatomical roots.

With D-articulator

Soft gingiva, pink colors

Replacement teeth B2-306 (Order no. 8065-0xx).



(Order no. 8500)

## Healthy teeth easily: Dental care models.

Correct dental care is essential for healthy teeth. Prophylaxis models enable dentists to clearly

demonstrate preventive oral hygiene measures, which help prevent dental diseases.

### Model for dental care instructions P3B-705

The model is ideal for demonstrating the correct use of dental floss.



## Total commitment: Implant models.

In addition to disruption of masticatory function, loss of a tooth is also accompanied in the majority of cases by impairment of the esthetics. Thanks to implantology, missing teeth can be replaced

almost realistically. Our implantology models can be used effectively by dental operators to provide patients with transparent information about the treatment methods before this type of surgery.

### Implant model, lower jaw iP12-SB11

The transparent lower jaw model is ideal for demonstrating different dental restoration methods.



## From an early age: Growth models.

Many dentists use pedodontic models to explain the development of the jaw in detail to young patients and their parents. The accurately detailed growth models illustrate different phases in

development of the dentition during childhood – including possible undesirable developments, for example obstacles during eruption of permanent teeth or atypical dentitions.

### Growth model, transparent upper + lower jaw P12D-100A

This growth model shows development of the dentition in 9-year-old children with deciduous and permanent teeth.

Upper/lower jaw, set  
with 24 fixed teeth

Epoxy resin

With D-articulator



(Order no. 8646)

## For all cases: Periodontal surgery models.

Periodontitis is the most frequent disease in the periodontal apparatus region. Periodontology models are often used in theory and practice to make both patients and dentists aware in initial

and continuing education of the issue over the long term. With this extensive portfolio, Morita provides dental operators with a model suitable for every requirement.

### Periodontal surgery model P15D-901C

This study model with periodontal defects, calculus and soft tissue is ideal for treatment training of dentists and dental assistants.

Molar with bifurcation  
and trifurcation.

Removable gingiva

Raising a flap, gingival  
regeneration, furcation  
diagnosis, odontoplastic  
surgery, root capping.

Two-shade teeth (B1A-901C)  
are screw retained  
(Order no. 8082-0xx).

Teeth 35 and 36 missing

(Order no. 8687)



## The “silent” patient: Phantom Head.



Prepared for training.

Learning environments with practical conditions are a decisive success factor in initial and advanced clinical training of dentists. A phantom head model

provides the optimum training conditions: It allows natural simulation of dental and dental technology working procedures.

### Phantom head CH-99 III; Order no. 8832

The compact CH-99 III phantom head is ideal as a “silent” patient for initial and advanced training of dentists and dental assistants. Use on a treatment unit is also no problem using the head support holder (Order no. 8832-900).



(Order no. 8832-900)

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There is no handwriting or other markings on the paper.

Diagnostic and Imaging Equipment

Treatment Units

Handpieces and Instruments

Endodontic Systems

Laser Equipment

Laboratory Devices

GUMMETAL®

Demonstration and Study Models



**J. MORITA EUROPE GMBH**

Justus-von-Liebig-Straße 27b

63128 Dietzenbach

Germany

T +49. 6074. 836 0, F +49. 6074. 836 299

[www.morita.com/europe](http://www.morita.com/europe)