Be Prepared for Excellence in Education.
Discover the KaVo preclinical portfolio.
Excellence in Education – The Preclinical Portfolio from One Source.

360° Competence in Education
Based on close partnerships with German and international universities, KaVo's innovations and experience put it at the forefront of the market. We provide solutions for every need, from preclinical to clinical training, digital dentistry and dental technology.

Long Lasting Quality
KaVo products stand out with their long service life. Both educators and students enjoy the benefits of working with smoothly running educational and clinical equipment.

Premium Service Quality
Whatever areas you wish to equip, KaVo offers comprehensive and competent consultation. Our experts will accompany you throughout the entire planning and implementation process. We then train students, dentists and professors on how to use KaVo equipment, including providing important information to extend the new equipment's service life. This guarantees a smooth procedure with minimum downtime during training and clinic operation.

Simulation
- Modular configurations and flexible instrumentation
- Students can simulate all dental treatments under ergonomic and realistic working conditions
- Robust design and high-quality materials for a long service life

Patient Simulators
- Student-proven, robust construction for daily usage
- As realistic as a real patient
- Can be integrated in different simulation solutions

Digital Education Systems
- Efficient teaching solutions save tutors time and maximize student results
- 3D graphics improve student understanding of complex topics
- Students learn to use modern technology right from the start

Lab Technology
- Long lasting quality devices
- Highest functionality
- KaVo "made in Germany" precision

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KaVo Preclinical Portfolio

KaVo DSEplus

With the KaVo DSEplus, students work under realistic, simulated conditions from the start. Its flexibility and modular design allow the KaVo DSEplus to perfectly adapt to your needs in terms of space and design.

- Students can simulate all dental treatments under ergonomic and realistic working conditions
- Fast and precise adjustment of the patient simulator in the treatment position
- Highest flexibility in instrumentation and media connections

KaVo DSEclinical 5197

The KaVo DSEclinical 5197 represents the ideal symbiosis of patient simulator and treatment unit. With the KaVo DSEclinical 5197, students can practice under realistic equipment conditions.

- In the preclinic, students train with original components of a treatment unit, removing the need to subsequently relearn the workflows
- The KaVo DSEclinical 5197 offers perfect ergonomic prerequisites for any treatment concept
- Optimal integration of the 3D navigation system Dentsim/IGI from Image Navigation

KaVo DSEclinical 5198

The KaVo DSEclinical 5198 offers students maximum treatment ergonomics and health protection. The integration of media and endo-function makes it the most professional unit in the KaVo portfolio.

- Optimum treatment ergonomics with height-adjustable dentist and assistant elements
- Best protection for student health, with integrated, continuous and intensive disinfection of internal water lines
- Integrated endo-function for convenient practice without separate, freestanding device

KaVo DSE Compact

The KaVo DSE Compact is the smallest dental simulation unit offering maximum value. Thanks to its tried and tested KaVo technology and high safety standards, the unit is certified by German TÜV.

The KaVo DSE Compact is easy to configure, quick to adjust and truly economic to maintain.

- Modular configurations and flexible instrumentation
- Realistic torso with articulated arms and shoulders
- Two ample separate storage compartments e.g. student's jaw simulator, articulator or instrument tray
- Standard dental simulation unit - fits under space-constrained workstations
- Low need for service, long-lasting mechanical components

KaVo DSE Compact, KaVo DSEplus, KaVo DSEclinical 5197, KaVo DSEclinical 5198

KaVo Preclinical Portfolio

Realistic Learning like Never Before.

KaVo dental simulation units offer a superior learning experience in preclinical training. Their robust set-up and reliable components are especially developed for daily student usage. Depending on your needs, you can choose from various simulation units.

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Patient Simulators.

**KaVo patient simulators** are robust and as realistic as a real patient. All reference points, levels and movements relevant to dentistry are integrated. In addition, the anatomical shape, colour and material give students the feeling of treating real patients.

Patient simulators can be used in several ways:
- On dental simulation units
- On dental treatment units
- On table for demonstration purposes

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**KaVo Dental Patient Simulator “Eve”**

The new KaVo DPS “Eve” is the most realistic patient simulator for everyday standard courses. The simulator consists of a female patient skull with anatomically correct eyes, a female face mask covering the complete head, an intraoral mask with correct vestibule anatomy, flexible tongues in different sizes and gingiva. Moreover, the KaVo DPS “Eve” offers an interchangeable female torso for an even more realistic patient simulator.

- Most realistic patient simulator with human appearance and natural haptic feel
- Modular design allows students to gradually train dental treatment procedures under increasingly difficult realistic conditions. This gives students confidence and allows them to feel more comfortable when they first treat a real patient
- Robust student-proved materials

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**Jaw Simulators**

The KaVo jaw simulators G20, G40 and G50 reproduce the movements of the lower jaw very realistically and are identical in design with the KaVo PROTARevo articulators. This system enables students to prepare a tooth in the patient simulator and easily transfer the tooth model into the articulator without losing any reference.

- KaVo jaw simulators reproduce all key anatomical dimensions and reference points of the human head
- Thanks to their robust construction, they prove ideal for use in dental education schools
- Different types of face masks with various mouth openings and outflows complete the patient simulator

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**Teeth/Models**

KaVo tooth models are available for different treatment purposes: prosthodontics, restorative dentistry, periodontics, pedodontics, surgery, implantology, etc.

- KaVo study models and teeth are based on a copy of an original patient with all pertinent anatomical and morphological details
- The cleverly designed retention mechanism holds the simulated teeth precisely in the model base, yet allows them to be easily removed by means of extraction forceps
- Easy transfer of models into the articulator

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**Articulators**

Articulators and facebows are important equipment in dental education. The KaVo PROTARevo articulators set new standards in education. Thanks to their excellent design they are easy to use, hygienic to handle and very best value for money.

The KaVo ARCUS/ARCUSevo Facebow effectively records the position of the upper jaw in relation to the arbitrary or individual hinge axis in less than 3 minutes, on the real patient and on the patient simulator.

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Optimum Efficiency in Teaching

The future belongs to those who recognize the next big step and then dare to take it. Modern dental medicine is getting more and more digitalized. Following this trend, KaVo offers innovative systems which maximize the teaching efficiency of tutors and help students to get used to new technologies right from the start.

**KaVo Dental Teacher**

The KaVo Dental Teacher is a new system for fast and objective preparation validation. Moreover, it offers tutors virtual tools to effectively teach complex contents such as articulation and wax-up procedures. Three software modules are included:

- **Prep-validation:**
  - The quickest way to evaluate student preparations. Objective, automatic and computer-based.

- **Virtual articulation:**
  - Teaching occlusion, articulation and functional jaw movements can be frustrating when using only pictures and papers. The KaVo Virtual Articulator walks the student through the occlusal surface. The students learn easily, because they can see how each section of the teeth mechanism interacts with its antagonist during the movement.

- **Virtual wax-up:**
  - Great for learning how to wax-up artificial dentition for prosthesis and patient treatment. Enables the use of CAD-CAM technology from the very beginning.

  - Objective, computer-based validation
  - Time saving: only two minutes for scan and evaluation
  - Result in metrics with clear graphics
  - Always available, 24/7
  - Ideal concept for self-learning center

**NEW!**

**KaVo EDUnet digital**

The KaVo EDUnet digital is a communication network that permits instructors to engage in the next level of interactive teaching. It allows full-screen transmission of video data in real-time, e.g., video transmissions, live demonstrations, etc.

  - Each student follows the lesson “as if sitting in the front row”, thanks to full-screen video transmission in real-time.
  - Even smallest details such as tooth fissures can be transmitted optimally, thanks to full-HD resolution.
  - The lecturer can talk to one, several or all students, using the optional audio transmission.
  - No follow-up costs for the operating system or software adjustment, EDUnet digital is non-dependent on the computer hardware/software, as well as the PC network.
  - System is “future-proof”, equipped with all modern interfaces (DVI-D, DVI-I, USB, HDMI).
Customized Lab Technology.

KaVo Preclinical Portfolio

Next to being one of the largest system suppliers worldwide, KaVo also has decades of expertise in dental technology. In close collaboration with an experienced team of planning specialists, we develop equipment solutions in dental technology and preclinical training, perfectly tailored to your needs. Our key strengths are optimized procedures along with ergonomic and functional planning and design of both dental technology and prosthetic workplaces.

Laboratories that Meet Your Requirements

KaVo MASTErspace

KaVo MASTErspace laboratory equipment features perfect material quality, top-class design and the highest functionality. Its timeless design offers excellent long-term value retention. Its robust and stable material quality makes the KaVo MASTErspace an outstanding choice in education.

- Superior design paired with the highest grade of workmanship and value
- Optimum workflow ensured by clever arrangement of the functional elements
- Technically most advanced suction technology for optimum functionally and clean laboratory air

KaVo SMARTair Evo

Perfect functionality, silent running and healthy air in the laboratory are important criteria when selecting dust extraction equipment. With the KaVo dust extraction equipment, you get top-of-the-line dust extraction technology. The KaVo SMARTair® has single-stage dust extraction and is available in two models: As an integrated solution in a drawer version and freestanding as a flexible solution for the functional area.

- Active health protection: filter type M for removal of fine dust and activated carbon filter for odour reduction
- Very low-noise owing to automatic extraction level adjustment and switch-off automatic
- Continuously high suction

Laboratory Drives

With its broad product range, KaVo covers all your university’s needs for dental technology laboratory drives. From students in their preclinical years, to experienced, fully-qualified dental technicians, the KaVo drives always feature the highest quality and efficiency.

KaVo K5 – the compact all-rounder

- Effective entry-level model
- Robust one-shaft system
- Maximum reliability

KaVo K-POWERgrip – effective and powerful

- High traction with a high torque
- For all common materials
- Durable KaVo quality

KaVo K-ERGOgrip – the powerful comfort solution

- Light handpiece with ergonomic handle sleeve
- Development in collaboration with the Frauenhofer Institut
- Minimal warming during maximum performance
- New chuck system due to a 40% higher retention force

NEW!
KaVo Worldwide References

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- University of Shkodër, Shkodër

Argentina
- Ministry of Education, Buenos Aires
- University of Buenos Aires, Buenos Aires
- University of Cordoba, Cordoba
- University of Tucuman, Tucuman

Australia
- Ministry of Health, Canberra
- Australian Dental Association, Sydney
- University of Sydney, Sydney
- University of Melbourne, Melbourne

Brazil
- Ministry of Health, Brasilia
- University of Brasilia, Brasilia
- University of Sao Paulo, Sao Paulo
- University of Minas Gerais, Belo Horizonte

Canada
- Ministry of Health, Ottawa
- University of Toronto, Toronto
- University of British Columbia, Vancouver
- University of Alberta, Edmonton

Chile
- Ministry of Health, Santiago
- University of Chile, Santiago
- University of Concepcion, Concepcion
- University of Antofagasta, Antofagasta

China
- Ministry of Health, Beijing
- University of Medical Sciences, Beijing
- University of Stomatology, Shanghai
- University of Stomatology, Wuhan

Czech Republic
- Ministry of Health, Prague
- Charles University, Prague
- Masaryk University, Brno
- Palacky University, Olomouc

France
- Ministry of Health, Paris
- University of Paris, Paris
- University of Lille, Lille
- University of Tours, Tours

Germany
- Ministry of Health, Berlin
- University of Munich, Munich
- University of Heidelberg, Heidelberg
- University of Freiburg, Freiburg

Great Britain
- Ministry of Health, London
- University of Oxford, Oxford
- University of Cambridge, Cambridge
- University of Edinburgh, Edinburgh

Iran
- Ministry of Health, Tehran
- Tehran University of Medical Sciences, Tehran
- Shahid Beheshti University of Medical Sciences, Tehran

Israel
- Ministry of Health, Jerusalem
- University of Haifa, Haifa
- Tel Aviv University, Tel Aviv
- Ben-Gurion University of the Negev, Beersheba

Italy
- Ministry of Health, Rome
- University of Rome, Rome
- University of Bologna, Bologna
- University of Turin, Turin

Japan
- Ministry of Health, Tokyo
- University of Tokyo, Tokyo
- University of Osaka, Osaka
- University of Nagoya, Nagoya

Jordan
- Ministry of Health, Amman
- University of Jordan, Amman
- Prince of Wales Hospital, Amman

Korea
- Ministry of Health, Seoul
- University of Seoul, Seoul
- University of Yonsei, Seoul
- University of KyungHee, Seoul

Lebanon
- Ministry of Health, Beirut
- University of Beirut, Beirut
- University of Balamand, Balamand

Mexico
- Ministry of Health, Mexico City
- University of Mexico, Mexico City
- University of Guadalajara, Guadalajara
- University of Monterrey, Monterrey

Netherlands
- Ministry of Health, Amsterdam
- University of Amsterdam, Amsterdam
- University of Leiden, Leiden
- University of Utrecht, Utrecht

New Zealand
- Ministry of Health, Wellington
- University of Otago, Dunedin
- University of Auckland, Auckland
- University of Canterbury, Christchurch

North Africa
- Ministry of Health, Algiers
- University of Algiers, Algiers
- University of Constantine, Constantine

Oman
- Ministry of Health, Muscat
- University of Oman, Muscat
- Sultan Qaboos University, Muscat

Pakistan
- Ministry of Health, Islamabad
- University of Peshawar, Peshawar
- University of Karachi, Karachi
- University of Lahore, Lahore

Peru
- Ministry of Health, Lima
- University of Lima, Lima
- University of San Marcos, Lima

Russia
- Ministry of Health, Moscow
- University of Moscow, Moscow
- University of Saint Petersburg, Saint Petersburg
- University of Novosibirsk, Novosibirsk

South Africa
- Ministry of Health, Pretoria
- University of Pretoria, Pretoria
- University of Cape Town, Cape Town
- University of Stellenbosch, Stellenbosch

Turkey
- Ministry of Health, Ankara
- University of Ankara, Ankara
- University of Istanbul, Istanbul
- University of Marmara, Istanbul

United States
- Ministry of Health, Washington DC
- University of California, Los Angeles
- University of Michigan, Ann Arbor
- University of Texas, Houston

Venezuela
- Ministry of Health, Caracas
- University of Caracas, Caracas
- University of Los Andes, Merida
- University of Eastern Venezuela, Barquisimeto

World Health Organization
- WHO Regional Office, Geneva
- WHO Regional Office, Bangkok
- WHO Regional Office, New Delhi

Yemen
- Ministry of Health, Sana'a
- University of Sana'a, Sana'a
- University of Aden, Aden

Zimbabwe
- Ministry of Health, Harare
- University of Zimbabwe, Harare
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Lithuania
- Lithuanian Ministry of Health

Malta
- Dental School of Malta

Macedonia
- Dental School of Skopje

Luxembourg
- National Health Service

Lithuania
- Lithuanian Ministry of Health

Mali
- University of Mali

Mexico
- National Institute of Public Health
- Mexican Institute of Social Security
- Dentistry Institute

Mauritania
- University of Mauritania

Morocco
- Royal Military Hospital

Mongolia
- National University of Mongolia

Myanmar
- Ministry of Health

Netherlands
- Dental School of Leiden
- Dental School of Amsterdam

New Zealand
- University of Otago
- University of Auckland

Nigeria
- University of Lagos

Norway
- University of Oslo

Oman
- Ministry of Health

Pakistan
- University of Peshawar

Panama
- Dental School of Panama

Peru
- University of San Martín

Poland
- University of Lodz

Portugal
- Dental School of Porto

Qatar
- Doha College of Dental Medicine

Romania
- Carol Davila University of Medicine and Pharmacy
- University of Medicine and Pharmacy " Carol Davila "

Russia
- Dental School of St. Petersburg
- Dental School of Moscow

Slovakia
- University of Kosice

South Africa
- University of Stellenbosch

South Korea
- Yonsei University
- Inha University

Spain
- University of Navarra
- University of Barcelona

Sweden
- University of Gothenburg

Switzerland
- University of Geneva

Taiwan
- National Taiwan University

Turkey
- University of Istanbul

United Arab Emirates
- United Arab Emirates University

United Kingdom
- University of Manchester

Uruguay
- Universidad de la República

USA
- University of Michigan
- University of California

Uzbekistan
- Tashkent Medical Academy

Viet Nam
- Hanoi Medical University

Yemen
- Taiz University

Zambia
- University of Zambia

Zimbabwe
- University of Zimbabwe

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Worldwide Competence in Education.