The company was founded in 1971 by Heinz Mack, a practising dentist, in Munich, Germany. The occasion were occlusion courses. Experience in occlusion and enthusiasm for mechanical developments led to the birth of the SAM 1 Articulator. Since then, it has been followed by the addition of numerous modular accessories resulting in a fully adjustable skull related articulator system for dentistry.

This anatomically correct and skull related articulator system became known and identified as SAM (School Articulator Munich).

The AXIOGRAPH®, AXIOTRON® and AXIOQUICK® RECORDER are examples of the development strategies characteristic of SAM®. Numerous other innovations have been developed from precise cast mounting to the measurement of gypsum expansion. The SAM® company is focused on a very unique need in the dental market and continues to research, develop, and market equipment for the needs of the dental profession. SAM® provides technicians and dentists with high-quality products and information necessary so the end-result is the best possible service and treatment for the patients. Our CDE (Center of Dental Education) at the Corporate Headquarters in Gauting, Germany (a suburb of Munich) is the venue for Continuing Education and Research for all areas of Dentistry. Experts from all over the world provide lectures and participation type courses in all the areas of dentistry. In addition, the facility is available for study groups, individual special trainings, and courses unique to your needs.
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THE ARCON PRINCIPLE

Authentic simulation with the unique feature of the adjustable incisal table in the upper part of the articulator and with the changeable curvatures the SAM® PX and SAM® 3 is a fully adjustable articulator.

The SAM® Norm, in combination with the Esthetic Cranial related anatomic facebow assures the correct positioning of the upper cast in the articulator.

Esthetics and function are accurately simulated for Orthodontics and Prosthetics.
TRANSFERBOW FOR ESTHETICS AND FUNCTION

The special geometry and mechanic of the SAM transfer bow allows an automatically balancing at the skull. The PORION orientated and cranial accelerated connecting technique guarantees the cranial related integration of the upper jaw model in the articulator, which is necessary for aesthetic.

The transfer bow, which is connected on both sides to the PORION, together with the ORBITALE, results in the “Frankurt Horizontale”.

The patented Nasion Relator Interpupil line leveling rod is used to achieve parallelism with the cranial reference planes.

The blue hygienic earpiece caps further enhance the comfort and accuracy of the relationship.

For orthodontics and prosthetics the esthetics are authentically and correctly recorded so as to provide for the accurate simulation of the patient in your articulator.
For all SAM® - articulators with prosthodontics height (SAM® SE, SAM® 2P, SAM® 2PX and SAM® 3) and compatibly to all SAM® transfer fork assembles.

With the transfer stand AX (ATB 398) the upper jaw cast can be transferred into the articulator.

The support of the transfer fork is highly recommended.

For the cast mounting only the transfer fork is needed, the transfer bow remains in the treatment room.
ATB 350K  **AXIOQUICK® transfer bow kit III - NT**

includes AXIOQUICK® III transfer bow (ATB 303), transfer fork assembly i-NT (ATB 305), nasion relator AX (ATB 392), and six hygienic earpiece caps

The perfect and low cost but still safe and torsion free connection between transfer bow and transfer fork assembly.

---

ATB 390K  **AXIOQUICK® transfer bow kit - AX**

includes AXIOQUICK® III transfer bow (ATB 303), transfer fork assembly AXIOMATIC® (ATB 395), nasion relator AX (ATB 392), and six hygienic earpiece caps

By a high degree of technical perfection using ball bearings is achieved a secure and torsion free connection between transfer bow and transfer fork assembly.

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ATB 303  **AXIOQUICK® anatomic transfer bow III**

without accessories

---

ATB 305  **transfer fork I-NT, complete**

with transfer fork NT and NT-clamp

---

ATB 395  **transfer fork assembly AX - AXIOMATIC®**

with a single secure universal clamping mechanism and removable transfer fork AX
ATB 325  **transfer fork NT**

Two-piece, composed of transfer fork AX (ATB 396), used in transfer fork assembly AX and transfer fork adapter (ATB 326), for use in AXIOQUICK® I-NT (ATB 305) and AXIOGRAPH®.

ATB 326  **transfer fork adapter**

Connects transfer fork AX (ATB 396) to transfer fork NT.

ATB 396  **transfer fork AX**

For AXIOMATIC® transfer fork assembly, removable for transportation and to reattach securely, sterilizable.

ATB 336  **transfer fork support, telescopic**

Used to support facebow transfer fork during upper cast mounting procedures in mounting support instrument or articulator.

ATB 338  **magnetic block for ATB 336, MPS**

Aluminum mounting plate for stabilization of the transfer fork support (ATB 336) in an articulator with MPS-system.

ATB 339  **magnetic block for ATB 336, ART**

Like ART 338, for articulators with ART screw type mounting plates.

ATB 392  **nasion relator AX**

With interpupillary line leveling rod, for all SAM® transfer bows.

ATB 240  **hygienic earpiece caps**

200 pieces, used to cover the black plastic earpieces on the AXIOQUICK®, and AXIOGRAPH® III earpiece alignment flags. Earpiece caps assure proper positioning in the ear, are comfortable and disposable for any patient.
ATB 334  transfer fork support, acrylic XL

ATB 398  transfer stand AX
an upper cast mounting device for the articulator, for all SAM® transfer fork assemblies and for reference centric instrument

ATB 304  nasion relator
adjustable

ATB 235  orbital reference pointer
used for facebow transfer with anterior reference point of your choice.

ATB 457K  transfer stand 2C
for SAM® 2C, frame height: 77 mm, black posts and blue adapter
SAM® TRANSFER STANDS
FOR NON-SAM ARTICULATORS

ATB 453K  transfer stand - P  for Panadent (low)
ATB 455K  transfer stand - WM 8  for WhipMix 8000 series
ATB 461K  transfer stand - D  for Denar
ATB 462K  transfer stand - G  for Girrbach Artex
ATB 464K  transfer stand - K  for KaVo Protar
ATB 466K  transfer stand - H  for Hanau Modular
ATB 466K  transfer stand - WM2PH  for WhipMix 2000 series and Panadent
ATB 473K  transfer stand - WM3  for WhipMix 3000 series and Stratos 100
ATB 475K  transfer stand - WM2PH  for WhipMix 2000 series and Panadent
ATB 475K  transfer stand WM 3  for WhipMix 3000 series and Stratos 100
ARTICULATORS
AND ACCESSORIES
SAM® 2PX ARTICULATOR KIT

The economic solution is an advancement of the SAM „2P“, that proved itself worldwide as the standard instrument for wax up technique and as „School Articulator Munich“. The most important characteristic is the opening rotation with closed centric lock thumb screw. The upgrade to the complete adjustable instrument is possible.

**ART 418 MK**  
SAM® 2PX Articulator Kit, MPS  
includes SAM® 2PX articulator (ART 415M) for MPS-system, AXIOQUICK® III transfer bow (ATB 303), transfer fork assembly AXIOMATIC® (ATB 395), nasion relator AX (ATB 392), transfer stand AX (ATB 398), six hygienic earpiece caps, vertical support rod (ART 525), tilt support rods (ART 526), with condylar insert curvature 1 white (ART 541), with one pair of each bennett guidances metal (ART 439) and green (ART 445), with incisal table flat (ART 275), telescopic transfer fork support (ATB 336), magnetic block for transfer fork support (ATB 338), 20 yellow magnetic mounting plates (MPS 150) with adhesion plates, red mounting stand (MOH 560) with 30 flexible plastic rods in yellow carrying box (ART 599)

**ART 403 K**  
SAM® 2PX Articulator Kit  
same as ART 418MK, for screw type mounting plates
SAM® 3 ARTICULATORY KIT

With the precision of the centric lock cone and socket system, the ultimate in accuracy has been obtained. Also included is an adjustable incisal table, micro adjustable incisal pin, and complete set of condylar curvatures plus Bennett Guidance Inserts. This is the premium system for dentistry.

**ART 567 MK  **  **SAM® 3 Articulator Kit, MPS**  
SAM® 3 articulator with protrusion / retraction screws (ART 546M) for MPS-system, AXIOQUICK® III transfer bow (ATB 303), transfer fork assembly AXIOMATIC® (ATB 395), nasion relator AX (ATB 392), transfer stand AX (ATB 398), six hygienic earpiece caps, vertical support rod (ART 525), tilt support rods (ART 526), condylar insert set (ART 540), bennett guidances set II (ART 547), protrusive guidance rings according to Gutowski (ART 581), incisal table, adjustable (ART 260), micro adjustable incisal pin IIIPM (ART 533), telescopic transfer fork support (ATB 336), magnetic block for transfer fork support (ATB 338), 20 yellow magnetic mounting plates (MPS 150) with adhesion plates, red mounting stand (MOH 560) with 30 flexible plastic rods in yellow carrying box (ART 599)

**ART 552 K  **  **SAM® 3 Articulator Kit**  
same as ART 567MK, for screw type mounting plates
The SE articulator has normal curvatures of the paths and provides all the requirements for esthetics and function. The SE achieves all minimum requirements for an articulator and is compatible to the SAM-NORM and components of the SAM-system. A centric lock, a support for stable supine position, the magnet mounting plate system and a foam including plastic case are natural standard. The joint path offers an adjustable incline and a normal curvature. The bennett guidances correspond to the curvature of the normal joint. The new materials from the aerospace engineering has proven to be a substitute for aluminum.

The SE is the optimized device for teaching in occlusion and articulation with a small budget. Its the ideal starter kit for initial diagnosis in orthodontics and prosthodontics.

ART 615M  **SAM® SE Articulator**
Special Edition™ with MPS magnetic mounting plate system.

ART 616MK  **SAM® SE articulator kit**
includes SAM® SE articulator (ART 615M) for MPS-system, adjustable inclination of the condylar with curvature 1 and a bennett guidance with normal sideshift, AXIOQUICK® III transferbow (ATB 303), transfer fork assembly I-NT (ATB 305), nasion relator AX (ATB 392), six hygienic earpiece caps, transfer stand SE (ATB 397), transfer fork support, acrylic XL (ATB 334), incisal table, flat (ART 275), MPS mounting plates (20 pieces) including metal adhesion plates (MPS 15 0) in translucent packing for articulator (ART 598)

ART 260  **incisal table, adjustable**
with changeable rotation and inclination angles plus numeric scale
SAM® 2P

**ART 315M**  **SAM® 2P, MPS**
SAM® 2P articulator with condylar housing curvature 1 (ART 225), with one pair of each bennett guidances white (ART 150) and green (ART 176), incisal table flat (ART 275), for MPS-system

**ART 300**  **SAM® 2P**
like Art 315M, for systems with screw type mounting plates

**ART 170**  **bennett guidance set I**
includes one pair of each bennett guidances green (ART 176), blue (ART 177), and red (ART 178) for SAM® 2P

**ART 150**  **bennett guidance white**, straight, one pair
**ART 176**  **bennett guidance green**, with minimal sideshift, one pair
**ART 177**  **bennett guidance blue**, with moderate sideshift, one pair
**ART 178**  **bennett guidance red**, with maximum and immediate sideshift, one pair

**ART 180**  **protrusion Insert Set**
for SAM® 2C and SAM® 2P, includes one pair of each protrusion inserts white (ART 181), yellow (ART 182), green (ART 183), red (ART 184), blue (ART 185), and black (ART 186)

**ART 181**  **protrusion insert white**, 1 mm protrusion, one pair
**ART 182**  **protrusion insert yellow**, 2 mm protrusion, one pair
**ART 183**  **protrusion insert green**, 3 mm protrusion, one pair
**ART 184**  **protrusion insert red**, 4 mm protrusion, one pair
**ART 185**  **protrusion insert blue**, 5 mm protrusion, one pair
**ART 186**  **protrusion insert black**, 6 mm protrusion, one pair

**ART 225**  **condylar housing curvature 1**
for SAM® 2C and SAM® 2P, one pair of integrated curvatures (shallow curvature), with centric lock thumb screw and bennett guidance white (ART 150)

**ART 230**  **condylar housing curvature 2**, with middle curvature, one pair
**ART 235**  **condylar housing curvature 3**, with steep curvature, one pair

**ART 295**  **XYZ coordinate measurement overlay**
for SAM® 2C, SAM® 2P, and for reference centric instrument;*
**SAM® 2PX**

**ART 415M**  
**SAM® 2PX, MPS**  
SAM® 2PX articulator with condylar insert curvature 1 white (ART 541), with one pair of each bennett guidances metal (ART 439) and green (ART 445), incisal table flat (ART 275), vertical support rod (ART 525), and tilt support rods (ART 526), for MPS-system

**ART 400**  
**SAM® 2PX**  
like ART 415M, for systems with screw type mounting plates

**ART 440**  
**bennett and condylar insert set PX**  
for SAM® 2 PX, includes one pair of each bennett guidances green (ART 445), blue (ART 446), and red (ART 447) and one pair of each condylar inserts curvature 1 white (ART 541), curvature 2 green (ART 542), and curvature 3 red (ART 543), with hex wrench and screwdriver

**ART 439**  
**bennett guidance PX metal,**  
straight, one pair

**ART 445**  
**bennett guidance PX green,**  
with minimum sideshift, one pair

**ART 446**  
**bennett guidance PX blue,**  
with moderate sideshift, one pair

**ART 447**  
**bennett guidance PX red,**  
with maximum and moderate sideshift, one pair

**ART 540**  
**condylar insert set**  
for SAM® 2PX and SAM® 3, includes one pair of each curvature 1 white (ART 541), curvature 2 green (ART 542), and curvature 3 red (ART 543), with yellow wrench

**ART 541**  
**condylar insert curvature 1 white,**  
with shallow curvature, one pair

**ART 542**  
**condylar insert curvature 2 green,**  
with middle curvature, one pair

**ART 543**  
**condylar insert curvature 3 red,**  
with steep curvature, one pair
SAM® 3

ART 515M  **SAM® 3, MPS**
SAM® 3 articulator with condylar inserts curvature 1 white (ART 541), one pair of each bennett guidances metal (ART 539) and light green (ART 540), incisal table flat (ART 275), vertical support rod (ART 525), and tilt support rods (ART 526), for MPS-system

ART 500  **SAM® 3**
like ART 515M, for systems with screw type mounting plates

ART 546M  **SAM® 3 with protrusion, MPS**
SAM® 3 articulator with protrusion / retrusion screws (ART 530), condylar inserts curvature 1 white (ART 541), one pair of each bennett guidances metal (ART 539) and light green (ART 540), incisal table flat (ART 275), vertical support rod (ART 525), and tilt support rods (ART 526), for MPS-system

ART 531  **SAM® 3 with protrusion**
like ART 546M, for systems with screw type mounting plates

ART 530  **protrusion / retrusion screws**
two pieces for SAM® 3, adjustable protrusion 0 - 6 mm, retrusion 0 - 2 mm, with yellow wrench and hex wrench
ART 548   **bennett and condylar insert set 3**  
for SAM® 3, includes condylar insert set (ART 540) and bennett guidances set II (ART 547) and guidance rings according to Prof. A. Gutowski (ART 581)

ART 540   **condylar insert set**  
for SAM® 2PX and SAM® 3, includes one pair of each condylar insert curvature 1 white (ART 541), curvature 2 green (ART 542), and curvature 3 red (ART 543), with yellow wrench

ART 547   **bennett guidances set II**  
for SAM® 3, includes one pair of each bennett guidances light green (ART 545), blue (ART 177) and red (ART 178)

ART 541   **condylar insert curvature 1 white,**  
with shallow curvature, one pair

ART 542   **condylar insert curvature 2 green,**  
with middle curvature, one pair

ART 543   **condylar insert curvature 3 red,**  
with steep curvature, one pair

ART 539   **bennett guidance 3 metal,**  
straight, one pair

ART 545   **bennett guidance II light green,**  
with minimal sideshift, one pair

ART 177   **bennett guidance blue,**  
with moderate sideshift, one pair

ART 178   **bennett guidance red,**  
with maximum and immediate sideshift, one pair

ART 581   **protrusive guidance rings**  
(two pieces) for SAM® 3, according to Prof. A. Gutowski  
black plastic ring for straight protrusion movement, can be used as an alternative for straight bennett guidances, if colored bennett inserts are used
ART 187 infield checking kit
for articulators, hex wrenches 1.5 mm / 2.0 mm / 2.5 mm, screwdriver, feeler gauge 0.05 mm, yellow wrench (ART 510), grease lubricant for metal

ART 260 incisal table, adjustable
with changeable rotation and inclination angles plus numeric scale used for customized protrusive and laterotrusive guidance pathways of anterior and posterior teeth

ART 275 incisal table, flat
(two pieces) yellow, acrylic monomer does not adhere to table surface, table height 16 mm for SAM® 2P, SAM® 2PX, and SAM® 3

ART 368 occlusal plane indicator 3D
for SAM® 2P, SAM® 2PX, and SAM® 3, transparent with vertical, horizontal, sagittal and tilt adjustments, angulation adjustment from 0° - 45° degrees, incisal pin IIPA, asymmetric (ART 361), for better anterior teeth views when working with complete prosthodontics

ART 361 incisal pin IIPA, asymmetric
ART 362 sidearm for occlusal plane indicator 3D

ART 385 occlusal plane indicator set
for SAM® 2P, SAM® 2PX and SAM® 3, with flat and curved template inserts, with vertical and sagittal adjustments, angulation adjustment from 0° - 45° degrees, used for complete denture setups and cast mountings without face bows
For the model assembly of phantom models without transfer sheet: Average value vertically 55 mm, horizontal 75 mm

ART 390 XYZ Coordinate Measurement Indicator
for all SAM® articulators, for the symmetry evaluation of dental arches, for the regulation of tooth coordinates and for the adjustment of teaching models in the articulator
**ART 396**  **splitcast verification device**
for all articulators and mounting plates, to control the accuracy of two or more factory synchronized identical articulators, includes one splitcast device with rubber ring

for the production of an individual test base with gypsum

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**ART 520**  **incisal pin IIIP, complete**
for SAM® 2P, SAM® 2PX, and SAM® 3, with numeric scale, slightly offset for better viewing

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**ART 525**  **vertical support rod**
for SAM® 2PX and SAM® 3, reference centric instrument, cast mounting instrument and mounting support instrument, extension rod for articulator upper part, attaches on the thumb screw of the incisal table

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**ART 526**  **tilt support rods**
(two pieces) for SAM® 2PX and SAM® 3, used to protect the condylar housings when the articulator is tilted backwards

---

**ART 533**  **incisal pin IIIPM, micro adjustable,**
complete, for SAM® 2P, SAM® 2PX, and SAM® 3, with micro scale for reading into 0,1 mm steps.

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**ART 598**  **translucent packing for articulator**
extra light and space saving storage box with customized foam inserts for articulators, facebows and accessories

---

**ART 599**  **carrying case**
stable, also for the post office dispatch of suitable transport containers for articulators, connectable with other cases in the pile, yellow, 40 x 30 x 22 cm, carrying handle and grey bolts, with small article mounting plate in the cover, foam shaped parts for all SAM® articulators
AXIOSPLIT® NORM- AND MAGNETSPLITCAST-SYSTEM

The AXIOSPLIT® allows the exact exchange of casts between different SAM® articulators (e.g. between old and new devices) in surgery and laboratory. This permits the transport of casts without the articulators.
**ASP 350**  **AXIOSPLIT® reference centric instrument II**
cast mounting device with quick removable thumb screw or magnet assembly for comparison with following articulators SAM® 2P, SAM® 2PX, and SAM® 3, AXIOSPLIT® plates each with magnets with normal strength (ASP 580), master check or master incisal pin are not included.

**ASP 420**  **mounting plates for AXIOSPLIT®, oval**
20 yellow preformed precision matrix mounting plates, plastic, with extended posterior and lateral edges and metal insert, eliminates the need to make a gypsum matrix, for single-use only.

**ASP 425**  **mounting plates for AXIOSPLIT®, round**
20 yellow preformed precision matrix mounting plates, plastic, with extended posterior and lateral edges and metal insert, eliminates the need to make a gypsum matrix, for single-use only.

**ASP 590**  **AXIOSPLIT® cast positioning table S**
adjustable cast holder includes strong magnet.

**ASP 451**  **AXIOSPLIT® double matrix former**
includes magnets with normal strength (ASP 580) and rubber ring, for the production of secondary matrix holder made of gypsum.

**ASP 470**  **AXIOSPLIT® master check P**
for SAM® 2P, SAM® 2PX, and SAM® 3, with master incisal pin.
**ASP 509K AXIOSPLIT® starter kit N**
for SAM® 2P, SAM® 2PX, and SAM® 3, includes master check with incisal pin (ASP 470), regular matrix holder (ASP 529), matrix holder, two-piece assembly (ASP 539) each with magnets with normal strength (ASP 580), security rings (ASP 435), and 20 oval mounting plates (ASP 420)

**ASP 510K AXIOSPLIT® starter kit S**
for SAM® 2P, SAM® 2PX, and SAM® 3, includes master check with incisal pin (ASP 470), regular master holder (ASP 530), master holder, two-piece assembly (ASP 540) each with strong magnets (ASP 582), security rings (ASP 435), and 20 oval mounting plates (ASP 420)

**ASP 514K AXIOSPLIT® articulator kit N**
for every other articulator with master check system, includes regular matrix holder (ASP 529), matrix holder, two-piece assembly (ASP 539) each with magnets with normal strength (ASP 580), and security rings (ASP 435)

**ASP 515K AXIOSPLIT® articulator kit S**
for every other articulator with master check system, includes regular matrix holder (ASP 530), matrix holder two-piece assembly (ASP 540) each with strong magnets (ASP 582), and security rings (ASP 435)

**ASP 529 AXIOSPLIT® matrix holder N, regular**
screw type metal plate for articulator upper member, threaded and supplied with magnet with normal strength (ASP 580)

**ASP 530 AXIOSPLIT® matrix holder S, regular**
screw type metal plate for articulator upper member, threaded and supplied with strong magnet (ASP 582)

**ASP 539 AXIOSPLIT® matrix holder N, two-piece assembly**
for adhesive adjustment in the lower part of articulator, screw type metal plate supplied with magnet with normal strength (ASP 580)

**ASP 540 AXIOSPLIT® matrix holder S, two-piece assembly**
for adhesive adjustment in the lower part of articulator, screw type metal plate supplied with strong magnet (ASP 582)

**ASP 435 AXIOSPLIT® security rings**
two pieces metal, used to cover the mounting plate thumb screw to prevent accidental unscrewing of the attached AXIOSPLIT® plates
MOUNTING PLATES

All SAM® articulators, except the SAM® SE are available either with a thumb screw or with magnetic mounting plates system MPS. For the attachment of the AXIOSPLIT® system the screw thread version is needed. A conversion from one cast mounting system to the other via different additional articulator kits is easy to handle for SAM® users.

MPS MAGNETIC MOUNTING PLATES

YELLOW / GREY

• quick attachment and removal of the cast
• precise positioning of the casts
• yellow plates also fit WhipMix, Panadent and Hanau 2Pin articulators

• grey plates also fitting Artex, KaVo, Denar, Quick, Balance and Dental-Hoby articulators

MOUNTING PLATES FOR AXIOSPLIT®

• the patented original splitcast system with master check and master incisal pin
• quick insertion and safe removal
• inexpensive
• precise splitcast control
• available in round and oval shapes

MOUNTING PLATES WITH SCREW THREAD

• original classic mounting plate
• rigid retention areas
**MPS 100K MPS mounting plate system, starter kit yellow**
for SAM®, WhipMix, Panadent, and Hanau 2Pin, includes two magnetic holding cups with nuts (closed) and yellow wrench (MPS 101K), cup positioner (MPS 111), and 20 mounting plates yellow with adhesion plates (MPS 150)

---

**MPS 101K MPS additional articulator kit, yellow**
for SAM®, WhipMix, Panadent, Hanau 2Pin, and KaVo articulators, includes two magnetic holding cups with nuts (closed) and yellow wrench, used to attach the MPS-system to additional articulators

---

**MPS 111 cup positioner**
for accurate positioning of the yellow and grey SAM magnet mounting plates

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**MPS 150 MPS mounting plates, yellow**
(20 pieces) including metal adhesion plates

**MPS 155 MPS mounting plates, yellow**
(100 pieces) including metal adhesion plates
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<th>MPS 201K</th>
<th><strong>MPS additional articulator kit, grey I</strong></th>
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<td>for <strong>Artex, KaVo, Denar, Dental Hoby, and Quick Balance</strong>, includes two magnetic holding cups with nuts (open and closed), and yellow wrench.</td>
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<th>MPS 211K</th>
<th><strong>MPS additional articulator kit, grey II</strong></th>
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<td></td>
<td>for <strong>Hanau 1Pin</strong>, includes two magnetic holding cups with nuts (open) and yellow wrench.</td>
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<th>MPS 221K</th>
<th><strong>MPS additional articulator kit, grey III</strong></th>
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<td></td>
<td>for <strong>KaVo EVO</strong>, includes two magnetic holding cups with nuts (closed) and yellow wrench (MPS 101K).</td>
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<th>MPS 200K</th>
<th><strong>MPS starter kit, grey I</strong></th>
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<tr>
<td></td>
<td>for <strong>Artex, KaVo, Denar, Dental Hoby, and Quick Balance</strong>, includes two magnetic holding cups with nuts (open and closed) and yellow wrench (MPS 201K), cup positioner (MPS 111), and 20 grey mounting plates with metal adhesion plates (MPS 250).</td>
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<th>MPS 210K</th>
<th><strong>MPS starter kit, grey II</strong></th>
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<tr>
<td></td>
<td>for <strong>Hanau 1Pin</strong>, includes two magnetic holding cups with nuts (open and closed) and yellow wrench (MPS 201K), cup positioner (MPS 111) and 20 grey mounting plates with metal adhesion plates (MPS 250).</td>
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<tr>
<th>MPS 220K</th>
<th><strong>MPS starter kit GK, grey III</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>for <strong>KaVo EVO</strong>, includes two magnetic holding cups with nuts (closed) and yellow wrench (MPS 101K), cup positioner (MPS 111), and 20 grey mounting plates with metal adhesion plates (MPS 250).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MPS 250</th>
<th><strong>MPS mounting plates, grey</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(20 pieces) for non-SAM® articulators, including metal adhesion plates.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MPS 255</th>
<th><strong>MPS mounting plates, grey</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(100 pieces) for non-SAM® articulators, including metal adhesion plates.</td>
</tr>
</tbody>
</table>
SAM® SERVICE

As a provider of professional solutions for dental practices and laboratories we always provide service for our customers. Besides the advisory service by telephone and the ordering service for parts we maintain and repair all SAM® instrumentation as needed. Next to the exchange of mounting plates with screw thread to MPS-magnetic mounting plates, we also synchronize old SAM® articulators with the SAM® - standard by using the AXIOSPLIT® system.

SAM® offers the following services:

- repairs
- modification of devices
- inspection / maintenance
- individual engravings
- synchronization with the AXIOSPLIT® System

We are pleased to receive any questions and requests from you.

You can learn more about the SAM® products in our user-trainings, taking place in the Center of Dental Education CDE (www.cde-info.de). We also provide individualized trainings for special groups.
The SAM® AXIOGRAPH® measures exactly axial and collinear the translation and rotation of the jaw joints.

Due to the precise axial and collinear technology and the Porion oriented base line “Frankfurt horizontal” a direct diagnosis is possible for the first time.

The mounting of the upper jaw model can be made by the hinge axis facebow mounting device, too.
AXO 220  tray clutch N
regular, for AXIOGRAPH® and AXIOQUICK® Recorder, sterilizable

AXO 221  tray clutch K
small, for AXIOGRAPH® and AXIOQUICK® Recorder, sterilizable

AXO 222  paraocclusal clutch
for AXIOGRAPH® and AXIOQUICK® Recorder, used to fabricate individualized paraocclusal custom clutch

AXO 234  transfer fork KG
short fork, for AXIOQUICK® and AXIOGRAPH®, sterilizable

AXO 465  transfer fork KS
short rod, for AXIOGRAPH® III, sterilizable

AXO 340K  articulator adapter kit
for AXIODAPT®, includes asymmetric incisal pin (ART 361) with transfer bow crossrod and NT-clamp, for the production of paraocclusal clutch on articulator mounted casts in the lab

AXO 350  clamp mandibular edentulous
for AXIODAPT®, for fixation of registration adapter

AXO 460  transfer fork, assembly II - NT
for AXIOGRAPH® III, NT-clamp with short transfer fork (AXO 465) and vertical rod length 95 mm

AXO 503  lubricant liquid
for lubricating AXIOGRAPH® recording flags, and AXIOSPLIT® double matrix former, to prevent extreme adhesion of grid labels, requires only a very small amount
AXO 516MK  AXIOGRAPH® III kit, MPS
used for functional analysis of the TMJ system, recording mandibular movement, anatomical and hinge axis facebow transfer. Also used with the AXIOTRON® and ultrasonic for AXIOGRAPH® with hinge axis facebow mounting device, supplied in a carrying case, for MPS-system

AXO 501K  AXIOGRAPH® III kit
like ART 516MK, for systems with screw type mounting plates
AXO 110  **AXIOGRAPH® record sheet**
(50 sheets) for recording AXIOGRAPH® and MPI data

AXO 111  **AXIOGRAPH® registration grid labels, green**
(15 sheets) for AXIOGRAPH® with millimeter graph paper grid labels, four pair per sheet

AXO 112  **AXIOGRAPH® transparent grid labels, red**
(two sheets) for AXIOGRAPH® with millimeter scale, 60 labels per sheet

AQR 100  **AXIOQUICK® recorder**
anatomic transfer bow with ultrasonic receivers, nasion relator (ATB 392), lower recording bow with ultrasonic transmitters, porion ear pieces (one pair), neck band, vertex band, reference point marker, pre-determined hinge axis indicator, tray clutch N (AXO 220), paraocclusal clutch (AXO 222), interface, power supply, foot control, USB wire, PC-software for Windows XP, 2000, supplied in a carrying case

AQR 102  **EMG sensors**
for AXIOQUICK® recorder, EMG-4 channel-interface with four sets of surface EMG-electrodes
MOUNTING STAND AND MOUNTING SUPPORT
MOH 560  mounting stand
with 30 flexible plastic rods, for all articulators and reference centric instruments
while mounting lower jaw casts

MOH 124  flexible plastic rods
(30 pieces)

ASP 350  AXIOSPLIT® reference centric instrument II
cast mounting device with quick removable thumb screw/magnet assembly for
comparison with following articulators SAM® 2P, SAM® 2PX, and SAM® 3, master
check and master incisal pin are not included

MOH 715M  laboratory cast mounting instrument II, MPS
laboratory upper and lower cast mounting instrument, eliminates gypsum
contamination of articulators, same height as SAM® 2P, SAM® 2PX, and SAM® 3,
for MPS-system

MOH 700  laboratory cast mounting instrument II
like MOH 665M, for systems with screw type mounting plates
MODEL, SPLITCAST AND PIN SYSTEM

The comprehensive SAM® model system includes the original SAM® splitcast former and pin system, as well as the space saving dowel pin drill machine AXIODRILL®.
The splitcast technic serves as correct model assembly in the articulator as separation base and for the examination and for the comparison of centric registration.

MSF 100K **magnet splitcast former combination kit**
includes splitcast former red (normal, 80mm), black (reciprocal, 80mm), yellow (small, 70mm), and green (XL, 110mm), four rubber rings, magnet remover, six magnets and magnetic holding cups, six adhesion plates and UG-sep spray

MSF 200K **magnet splitcast former kit normal, red**
splitcast former size 80 mm, includes rubber ring, magnet remover, six magnets and magnetic holding cups, six adhesion plates

MSF 250K **magnet splitcast former kit reciprocal, black**
splitcast former size 80 mm, includes rubber ring, magnet remover, six magnets and magnetic holding cups, six adhesion plates

MSF 300K **magnet splitcast former kit small, yellow**
splitcast former size 70 mm, includes rubber ring, magnet remover, six magnets and magnetic holding cups, six adhesion plates

MSF 350K **magnet splitcast former kit XL, green**
splitcast former size 110 mm, includes rubber ring, magnet remover, six magnets and magnetic holding cups, six adhesion plates

MSF 110 **adhesion plates with grooved retention**
(50 pieces), for magnetic splitcast former

MSF 120 **magnet holding cups**
(50 pieces) for MSF magnets
MSF 121  magnets for MSF
(20 pieces), with MSF magnet remover

MSF 125  magnet remover
(three pieces) for MSF, yellow

MSF 102  UG-sep refill bottle
(500 ml)

MSF 105  UG-sep spray.
universal gypsum (50 ml) separating medium for regular and artificial dental stones

MSF 150  MSF mini student kit
includes six magnets and magnetic holding cups as well as six adhesion plates

MSF 450K boxing aid device kit XL, green
used for boxing denture impressions without performing the usual wax boxing procedure, includes two splitcast former XL green, magnet remover, rubber ring, modelling clay, six magnets and magnet holding cups, six adhesion plates

MSF 526  dispossplit kit
includes six quick matrix holders with rubber ring, magnetic remover, six magnets and magnetic holding cups, six adhesion plates

MSF 525  dispossplit quick matrix holder white
(25 pieces) white plastic, refill pack
The SAM® pin system offers all components for the professional pin model production. With the horizontal pin drill machine, it is possible to drill holes for the pins in optimal position to the sawing cut. The patented form of the parallel dowel pin system keeps gypsum from coming into contact with the brass dowel pins.

**MSF 504**  
*conical pin for ceramics*  
(24 pieces), reusable, for duplication in ceramics

**pins and sleeves AXIOPIN®**  
parallel dowel pin system, with metal pins and yellow plastic sleeves, 1.6 mm drill hole size, dowel pins are attached to the dental cast with cyanoacrylate glue

**MSF 509**  
pins and sleeves AXIOPIN®  
refill pack

**MSF 510**  
pins and sleeves AXIOPIN®  
in AXIOBOX®

**MSF 513**  
pins and sleeves AXIOPIN®  
refill pack XL

**MSF 520K**  
*pins and sleeves AXIOPIN® starter kit*  
includes 200 pieces of each pins and sleeves and one drill bit

**MSF 600**  
**AXIODRILL® II pin drill machine, 230 volt**

**MSF 615**  
**AXIODRILL® II pin drill machine, 115 volt**  
unique horizontal dowel pin drill machine, precise dowel pin placement without accidental incorrect positioning, because complete visual access is always available for drilling of the pin hole, in addition, saw cuts can always be correctly positioned
INSTRUMENTS FOR ORTHOGNATIC SURGERY

The MRI apparatus according to Prof. Dr. Rainer Schwestka-Polly, serves the changing in position of modell casts next to each other before surgery. A new position can be disposed for upper as well as lower jaw and the interocclusal auxiliary part for the surgical procedure can be made.

The shifts are shown on millimeter scales.
### MPV 565M
**Mandibular position variator 3, MPS**
Mark Piper version
This variator is used to reposition all SAM® articulator mounted casts for splint fabrication, anterior and/or inferior up to 10 mm and superior and/or posterior up to 10 mm, for MPS-system.

### MPV 550
**Mandibular position variator 3,**
like MPV 565M, for systems with screw type mounting plates.

<table>
<thead>
<tr>
<th>MRI 220K</th>
<th>MRI plastic sleeve insert kit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Includes</strong></td>
<td>sleeve insert tool (MRI 212), drill bit (MRI 211), and 200 plastic sleeve inserts (MRI 210)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MRI 210</th>
<th>MRI plastic sleeve inserts</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 pieces and drill bit used for the drilled stylus hole in the MRI cast</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MRI 211</th>
<th>MRI drill bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6 mm diameter, 2.35 mm shaft, for use in straight dental handpiece</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MRI 212</th>
<th>MRI plastic sleeve insert tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>To insert plastic sleeves into drilled stylus holes of the diagnostic cast</td>
<td></td>
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</tbody>
</table>

### MRI 365MK
**MRI II articulator kit, MPS**
According to Prof. Dr. Rainer Schwestka-Polly
Includes SAM® 3 with protrusion (ART 546M), bennett and condylar insert set 3 (ART 548), micro adjustable incisal pin IIIPM (ART 533), adjustable incisal table (ART 260), model reposi-tioning instrument (MRI 300), and MRI-sleeves Kit II (MRI 220K), for MPS-system.

### MRI 350K
**MRI II articulator kit**
Like MRI 350MK, for systems with screw type mounting plates.

### MRI 300
**Model repositioning instrument**
According to Prof. Dr. Rainer Schwestka-Polly
Used with SAM® 3 articulator mounted casts for diagnosis, analysis and treatment planning in maxillofacial orthopedics, articulator mounted casts can be moved 3D without sectioning, includes MRI sleeves kit II (MRI 220K).
Dental gypsum can expand to 72 hours. Because of the changing lots of the manufacturers and because of the local water quality it is therefore advisable always make their own expansion measurement, because due to the individual dosage can occur and processing methods completely different results.

The test cradle has the standard length of 100 mm. The accuracy of the gauge is 0.01 mm.

In addition to the mechanical dial indicator is a digital dial gauge available, which includes optional a control and evaluation program for the PC.
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMI 100</td>
<td><strong>expansion measuring instrument, analog</strong></td>
<td>with mechanical dial gauge used to measure the expansion behavior of gypsum from different batches and mixing procedures, precision 0.01 mm</td>
</tr>
<tr>
<td>EMI 200</td>
<td><strong>expansion measuring instrument, digital PC</strong></td>
<td>with LCD digital gauge used to measure the expansion behavior of gypsum from different batches and mixing procedures, precision 0.01 mm</td>
</tr>
<tr>
<td>EMI 300</td>
<td><strong>expansion measuring instrument, digital PC Kit</strong></td>
<td>like EMI 200, with cable connection interface to PC, includes software - for scientific analysis, available on request</td>
</tr>
</tbody>
</table>
MANDIBULAR POSITION INDICATOR

Both devices are intended for comparison to a reference position and condylar deviation caused by the occlusion. I.e., both devices show the effect of occlusion on the temporomandibular joints in all dimensions.

The comparison of RP to IP, i.e. comparison of the joint position in centric relation and the deflection by the habitual occlusion can be measured on diagnostic models, occlusal splints, in registrations and during a time of a therapy.

MPI measures with cubes, the Condymeter with dial gauges.
MPI 316M **mandibular position indicator with gauge, MPS**
used for comparing centric records, changes in mandibular cast position and monitoring splint adjustments, etc., includes universal incisal pin, 15 sheets à six labels with record sheet (MPI110), and calibration tool

MPI 301 **mandibular position indicator with gauge**
like MPI 316M, for systems with screw type mounting plates

MPI 120 **register labels for MPI**
15 sheets à six labels with record sheet (MPI110)

MPI 415M **condymeter III, analog, MPS**
for scientific analysis, three dimensional measuring in the mandibular area, tolerance 0,01 mm, supplied with master check and a carrying case, for MPS-system

MPI 400 **condymeter III, analog**
like MPI 415M, for systems with screw type mounting plates

MPI 515M **condymeter III, digital, MPS, for MPS-system**
for scientific analysis, three dimensional measuring in the mandibular area, tolerance 0,01 mm, supplied with master check and a carrying case, for MPS-system

MPI 500 **condymeter III, digital**
like MPI 515M, for systems with screw type mounting plates
MADIBULAR POSITION VARIATOR
MANDIBULAR POSITION VARIATOR

is used to change the condylar position during the production of occlusal splint.

The assembled casts are taken from the SAM articulator and placed in the MPV.

The displacements can be separately both vertically and horizontally adjusted.

MPV 315M  \textit{mandibular position variator 2P, MPS}
this variator is used to reposition all SAM® articulator mounted casts for splint fabrication, anterior and/or inferior up to 10 mm and superior and/or posterior up to 2 mm, for MPS-system

MPV 300  \textit{mandibular position variator 2P}
like MPV 315M, for systems with screw type mounting plates

MPV 565M  \textit{mandibular position variator 3, MPS}
Mark Piper version
this variator is used to reposition all SAM® articulator mounted casts for splint fabrication, anterior and/or inferior up to 10 mm and superior and/or posterior up to 10 mm, for MPS-system

MPV 550  \textit{mandibular position variator 3,}
like MPV 565M, for systems with screw type mounting plates
REFERENCE MEASUREMENT INSTRUMENT

The three-dimensional measurement of assembled upper and lower jaw casts for orthodontics and implantology takes place with the SAM ® RMI in a mechanical (RMI 500), or electronic version (RMI 550).

The coordinates of measured points allow comparison of corresponding points in the occlusion or at the maxillary crest.
RMI 500  **reference measurement instrument 3D, mechanical**
measures and compares x,y, and z selected points on articulator mounted casts when placed on the instrument. It can be used to determine optimum implant placement positions and make a surgery template.

RMI 550  **reference measurement 3D, electronic**
with electronic measuring unit; measures and compares x,y, and z selected points on articulator mounted casts when placed on the instrument. It can be used to determine optimum implant placement positions and make a surgery template.

RMI 560  **reference measurement 3D, electronic**
for scientific work available on request, like RMI 550, with an electronic device for three-dimensional data acquisition with interface cable and PC software.
MISCELLANEOUS PARTS
RMI 535  **matrix holder**
(one pair) metal for RMI 500/550/560, with magnets and hex wrench

ART 310  **mounting plates screw adapter**
for a singular conversion of casts from SAM® 2C to SAM® 2P, SAM® 2PX, and SAM® 3
(15 mm extension)

ART 311  **mounting plates screw adapter 2**
fixed set for the comfortable repeated conversion of casts from SAM® 2C to SAM® 2P,
SAM® 2PX and SAM® 3, (15 mm extension)

ASP 445  **AXIOSPLIT® adapter**
used to attach SAM® 2C AXIOSPLIT® mounted casts on a SAM® 2P, SAM® 2PX or
SAM® 3 articular equipped with the AXIOSPLIT® system. Complete assembly, includes
the AXIOSPLIT® magnet.

ART 450  **articulator upper member H (+15)**
upper member 15 mm higher, when using a reference plane lower than the AO-
plane (e.g. Camper), or for additional upper cast space in orthognathic surgery,
implantology, or prosthodontics

ART 455  **articulator upper member XL (+55)**
upper member 55 mm higher, for additional upper cast space in orthognathic surgery,
implantology, or prosthodontics

AXO 334  **AXIODAPT transfer fork, adjustable**
paraocclusal clutch adapter with hex screw driver

ATB 330  **NT - clamp upgrade kit**
used for conversion of SAM® anatomic transfer facebows and transfer fork assemblies
equipped with regular double clamp to non-wrench NT type clamp
ATB 337 magnetic pad
used to hold telescopic transfer fork support (ATB 336) during upper cast mounting procedures in mounting support instrument or articulator

AXO 505 occlusal indicator wax
green, 300 µm, used for intraoral occlusal contact checking

MOH 265M lab mounting device for mounting support instrument, MPS
for upper cast mounting in a mounting support instrument (MOH 300K) instead of using articulator upper member, for use with MPS-system

MOH 250 lab mounting device for mounting support instrument
like MOH 265M, for systems with screw type mounting plates

MOH 300K mounting support instrument lab kit
for mounting casts in SAM® 2C and SAM® 2P, includes a mounting support instrument with magnetic pad, telescopic transfer fork support, and centric mounting cast holder with 30 flexible rods

MOH 665M laboratory cast mounting instrument, MPS
laboratory upper and lower cast mounting instrument, eliminates gypsum contamination of articulators, same height as SAM® 2P, SAM® 2PX, and SAM®3, for MPS-system

MOH 650 laboratory cast mounting instrument
like MOH 665M, for systems with screw type mounting plates

SIM 155 hinge axis simulator
to practise the determination of the hinge axis

SIM 300 Simulator for mandibular movements,
for use with screw type mounting plates or AXIOSPLIT® System, in carrying case

SIM 315M Simulator for mandibular movements, MPS
like SIM 300 for use with MPS-system
Experts provide up to date first hand information on the SAM System to Dentists, Assistants, and Technicians. Theoretical bases and practical exercises are a component of our training concept. Our user trainings take place Friday afternoon once a month, when you can leave your practice or your laboratory alone. In our training center in Gauting near Munich we would like to give you within one afternoon (a small break with a little snack included) an understanding of our system and its use in the dentistry. Naturally we consider the different level of knowledge of the participants in the course schedule. At the end all individual questions will be answered.

THE SAM SYSTEM
- Components of the SAM system
- What’s new at SAM
- Practical exercises

THE ANATOMIC FACEBOW
- Function mode of the components
- Attaching technique
- Model assembly

THE ARTICULATOR
- The different “versions” and their characteristics
  - Function mode, attitude and accessories
  - The correct care

MSF MODEL SYSTEM
- SAM Model mounting
- Splitcasts
- The Parallel Step Pin System

CREDIT FOR YOUR COURSE FEE:
With the order of SAM devices your course fee will be deducted from the purchase price. This is valid naturally only for orders during this course.

Find out the exact dates and starting times of our courses on the homepage: www.cde-info.de
The CDE has established itself as a forum for qualified and scholarly advanced dental training / further education.

The participants benefit from our high-class equipment, the comfortable ambience and the excellent supervision. Many renowned enterprises and institutions of the dental branch make use of our institute for vocational training for their events.

- The auditorium with 80 places captivates by its acoustics similar to a concert hall. Up-to-date projection and video equipment is self-evident.

- The clean op-room is located behind the auditorium stage. Relocatable glass partitions allow a direct insight. Close-up views of the working area are broadcasted via video on projection screens.

- The seminar room with 24 dental work stations and five dentist’s chairs can be used for practical exercises, equipped with state-of-the-art project technique, as well.

- In the reception area the materials used in the course are exhibited and a comfortable cafeteria can be found there, as well.

The frequently visited advanced dental training institute is located in a southern suburb of Munich. It offers an attractive surrounding besides the idyllic scene of the “Five-See-Country” in the region of the foothills of the alps.

Benefit from the merits of high-classed vocational training and from the exchange of views with colleagues.

More information about the agenda and the content of the courses and some firsthand reports are available under www.cde-info.de
SAM® • AXIOGRAPH® • AXIOTRON® • AXIOQUICK® RECORDER • AXIOSAW® • AXIOPIN®
AXIODRILL® • AXIOSIM® • AXIOCOMP® • AXIOWAX® • AXIOSPLIT®

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SAM® Präzisionstechnik GmbH is

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Errors excepted and subject to change without prior notice - especially technical changes.
Exclusively our general terms and conditions of business conditions apply.
For further questions, please contact us via email

service@sam-dental.de

All of our products are all manufactured in Germany.

Made in Germany