The company was founded in 1971 by Heinz Mack, a practising dentist, in Munich, Germany. He helped organize many occlusion courses and it became evident that there was a need for a new Articulator System that could be used for teaching, research, diagnosis, treatment planning and treatment.

An anatomically correct and skull related articulator system was developed with the project name of SAM (School Articulator Munich). This led to the development of a completely adjustable and anatomically correct articulator system.

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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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.
SAM® SE ARTICULATOR KIT

The INEXPENSIVE alternative kit for teaching and practice with same clinical results.

ART 616 MK  
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, vertical rod for facebowmounting (ATB 234), transfer fork support, acrylic XL (ATB 334), incisal table, flat (ART 275), MPS mounting plates (20 pieces) including metal adhesion plates (MPS 150) in translucent packing for articulator (ART 598)
SAM® 2PX ARTICULATOR KIT

The economic solution is an advancement of the SAM „2P“, that proved itself world-wide 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 Artikulator 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 Artikulator Kit

same as ART 418 MK, for screw type mounting plates
**SAM® 3 ARTICULATOR 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 Artikulator 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 Artikulator Kit**  
same as ART 567MK, for screw type mounting plates
Experts mediate information from first hand of the SAM system to you and their coworkers. Theoretical bases and practical exercises are a component of our training concept.

Our user trainings take place friday afternoon once in the month, if 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 employment in the dentistry. Naturally we consider the different level of knowledge of the participants in the course schedule. At the end all individual questions can be answered.

THE SAM SYSTEM
- Structure of the SAM system
- What's new at SAM
- Practical exercises

THE ANATOMIC FACEBOW
- Function mode of the components
- Attaching technic
- 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 or accessories 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
ARTICULATORS AND ACCESSORIES
SPACE AGE technology, lightweight, and ergonomic in design.

The steel and aluminum featured simulation material is a completely new generation of material in the SAM® SE, inexpensive, light, and very sturdy, and is particularly suitable in the everyday practice of the dentistry.

We have learned the minimum requirements for the everyday practice of dentistry and these are included in the features of the SAM® SE Articulator. Researched Condylar Inclination Curvature 1 and Bennett Guidance Green along with adjustable condylar inclination.

The SAM® SE is compatible with all the accessory equipment from SAM®.

**ART 615M**  **SAM® SE**

SAM® SE articulator „Special Edition” with integrated curvature 1 and bennett guidance with normal sideshift, a flat incisal table (ART 275), for MPS magnetic mounting plate system.
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; overlay orange „XYZ position finder“
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® 2 PX 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

**ACCESSORIES FOR ARTICULATORS**

ART 120  **mounting plates, screw types**  
(20 pieces) yellow glass fiber reinforced polyamide resin with threaded metal insert, for single-use

Consider our mounting plate systems ASP (from page 27) and MPS (from page 31)

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 II PA, asymmetric (ART 361), for better anterior teeth views when working with complete prosthodontics

ART 361  **incisal pin II PA, 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
ART 520  **incisal pin IIIP, complete**  
for SAM® 2P, SAM® 2PX, and SAM® 3, with numeric scale, slightly offset for better viewing

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

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.

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
THE ANATOMIC FACEBOW

is the transferbow for the quick and precise recording and transfer of the upper jaw cast in the articulator. The shear mechanics results automatically in the symmetrical position of the model.

The patented interpupillary line leveling rod at the nasion relator allows to control the parallelism between the transferbow and the interpupillary line.
Skull related measurements confirm certain special symmetries exist that can be used clinically.

Anatomic Porion has been shown to be a very reliable cranial reference point along with Orbitale and is the Anatomic Frankfort Horizontal Plane which is also the same as the Axis Orbital Plane of the patient.

The patented Nasion Relator Interpupillary line leveling rod is used to achieve parallelism with the cranial reference planes. The blue hygienic earpiece caps further enhance the accuracy of the relationship.
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<th>Code</th>
<th>Description</th>
<th>Details</th>
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<td>ATB 235</td>
<td>orbital reference pointer</td>
<td>used for facebow transfer with anterior reference point of your choice.</td>
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<td>ATB 304</td>
<td>nasion relator</td>
<td>adjustable</td>
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<td>ATB 240</td>
<td>hygienic earpiece caps</td>
<td>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.</td>
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<tr>
<td>ATB 303</td>
<td>AXIOQUICK® anatomic transfer bow III</td>
<td>without accessories</td>
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<tr>
<td>ATB 305</td>
<td>transfer fork I-NT, complete</td>
<td>with transfer fork NT and NT-clamp</td>
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<tr>
<td>ATB 325</td>
<td>transfer fork NT</td>
<td>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®</td>
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<td>ATB 326</td>
<td>transfer fork adapter</td>
<td>connects transfer fork AX (ATB 396) to transfer fork NT</td>
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<td>ATB 334</td>
<td>transfer fork support, acrylic XL</td>
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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 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

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

ATB 392  **nasion relator AX**
with interpupillary line leveling rod, for all SAM® transfer bows
ATB 395  **transfer fork assembly AX - AXIOMATIC®**
with a single secure universal clamping mechanism and removable transfer fork AX

ATB 396  **transfer fork AX**
for AXIOMATIC® transfer fork assembly, removable for transportation and to reattach securely, sterilizable

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 457K  **transfer stand 2C**
for SAM® 2C, frame height: 77 mm, black posts and blue adapter

---

Fast, precise and cranially related.

for all SAM® - Articulators with prosthodontics high (SAM® SE, SAM® 2P, SAM® 2PX and SAM® 3) and compatibly to all SAM® transfer fork assemblies. With the transfer stand AX the upper jaw cast can be transferred into the articulator. For the cast mounting only the transfer fork is needed, the transferbow remains in the treatment room.
**SAM® transfer stands for non-SAM articulators**

allows the upper jaw cast transfer with a SAM® transfer fork assembly in Non-SAM articulators.

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<td>ATB 453K</td>
<td>transfer stand - P for Panadent (low)</td>
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<td>ATB 455K</td>
<td>transfer stand - WM8 for WhipMix 8000 series</td>
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<td>ATB 461K</td>
<td>transfer stand - D for Denar</td>
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<tr>
<td>ATB 462K</td>
<td>transfer stand - G for Girrbach Artex</td>
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<tr>
<td>ATB 464K</td>
<td>transfer stand - K for KaVo Protar</td>
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<td>ATB 466K</td>
<td>transfer stand - H for Hanau Modular</td>
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<tr>
<td>ATB 473K</td>
<td>transfer stand - WM2PH for WhipMix 2000 series and Panadent</td>
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<tr>
<td>ATB 475K</td>
<td>transfer stand WM3 for WhipMix 3000 series and Stratos 100</td>
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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 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.
**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)

**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)

**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)

**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)

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

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

**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)

**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)

**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 (see page 30).

MOUNTING PLATES WITH SCREW THREAD

- original classic mounting plate
- rigid retention areas

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

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
MAGNETIC MOUNTING PLATE SYSTEM
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

MPS 150  **MPS mounting plates, yellow**

(20 pieces) including metal adhesion plates

MPS 155  **MPS mounting plates, yellow**

(100 pieces) including metal adhesion plates

MPS 201K  **MPS additional articulator kit, grey I**

for Artex, KaVo, Denar, Dental Hoby, and Quick Balance, includes two magnetic holding cups with nuts (open and closed), and yellow wrench, used to attach the MPS-system to a second articulator

MPS 211K  **MPS additional articulator kit, grey II**

for Hanau 1Pin, includes two magnetic holding cups with nuts (open) and yellow wrench, used to attach the MPS-system to a second articulator

MPS 221K  **MPS additional articulator kit, grey III**

for KaVo EVO, includes two magnetic holding cups with nuts (closed) and yellow wrench (MPS 101K), used to attach the MPS-system to a second articulator
MPS 200K  **MPS starter kit, grey I**
for Artex, KaVo, Denar, Dental Hoby, and Quick Balance, 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)

MPS 210K  **MPS starter kit, grey II**
for Hanau 1Pin, 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)

MPS 220K  **MPS starter kit GK, grey III**
for KaVo EVO, 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)

MPS 250  **MPS mounting plates, grey**
(20 pieces) for non-SAM® articulators, including metal adhesion plates

MPS 255  **MPS mounting plates, grey**
(100 pieces) for non-SAM® articulators, including metal adhesion plates
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.

SAM® offers the following services:

- individual engravings
- inspection / maintenance
- modification of devices
- upgrade transfer bow and articulators
- trade-in of used devices
- 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®, the original device for measuring mandibular movements related to the patient’s hinge axis, has been used in research, teaching, and everyday dental practice since 1972.

This device is recognized worldwide as the instrument to measure and record movements of the jaw.

It is easy to determine a precise hinge axis and to also make a direct analysis of the recordings.
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
EDUCATION KIT
SAM TEACHING AIDS

EDU 600K  **Education Kit**
SAM® SE articulator (ART 615M), incisal table, adjustable (ART 260), plastic teaching models (EDU 160), attached with Disposasplit and Magnetic Mounting Plates.

EDU 160  **plastic teeth models (set)**
upper and lower models with removable plastic teeth in a flexible plastic base, attached to MPS Mounting Plates with Disposasplit.

EDU 151  **removable teeth replacement set**
28 replacement teeth for EDU 160.

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.

The SAM® AXIOQUICK® transfer system is applicable on all suitable phantom heads.
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 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
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®.

Several add on products complete the system.
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

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

MSF 525 disposplit 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 | (1.000 pieces each) |
| MSF 510 | pins and sleeves AXIOPIN® in AXIOBOX® | (1.000 pieces each) |
| MSF 513 | pins and sleeves AXIOPIN® refill pack XL | (10.000 pieces each) |

**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
SPECIAL INSTRUMENTS

for orthodontics and orthognathic surgery, science, research and teachings
EMI 100  expansion measuring instrument, mechanical
with mechanical dial gauge used to measure the setting
expansion of dental materials, such as gypsum, etc.,
precision 0.01 mm

EMI 200  expansion measuring instrument, digital PC
like EMI 100, with LCD digital gauge

EMI 300  expansion measuring instrument, digital PC Kit
like EMI 200, with cable connection interface to PC,
includes software - for scientific analysis, available on
request

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, labels,
and calibration tool

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

MPI 120  register labels
15 sheets à six labels, for MPI

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

MPI 500  condymeter III, digital,
like MPI 515M, for systems with screw type mounting plates
MPV 315M  **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  **mandibular position variator 2P**
like MPV 315M, for systems with screw type mounting plates

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MRI 220K  **MRI plastic sleeve insert kit**
includes sleeve insert tool (MRI 212), drill bit (MRI 211), and 200 plastic sleeve inserts (MRI 210)

MRI 210  **MRI plastic sleeve inserts**
200 pieces and drill bit used for the drilled stylus hole in the MRI cast

MRI 211  **MRI drill bit**
1.6 mm diameter, 2.35 mm shaft, for use in straight dental handpiece

MRI 212  **MRI plastic sleeve insert tool**
to insert plastic sleeves into drilled stylus holes of the diagnostic cast

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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 repositioning 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

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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)
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
like RMI 550, includes interface, wire and PC software - available on request for scientific analysis

RMI 560  reference measurement 3D, electronic PC

AXIOSPLIT® 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 articulator equipped with the AXIOSPLIT® system. Complete assembly, includes the AXIOSPLIT® magnet.

ASP 590  AXIOSPLIT® cast positioning table S
adjustable cast holder includes strong 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 36 flexible rods
SAM GmbH has a Center for Dental Education (CDE) at the company headquarters in Gauting, Germany, a suburb of Munich. Throughout the years, courses are given by World Class Dentists, Technicians, and Dental Company Representatives to meet the needs of the Dental Professionals.

Esthetics is on the forefront and Function still plays a very important role. SAM is in full agreement with these ideas.

Contact for schedules and information

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® • AXIOWAX® • AXIOSPLIT®

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Exclusively our general terms and conditions of business conditions apply.
For further questions, please contact us via email:

service@sam-dental.de

Our products are all Made in Germany.

Made in Germany