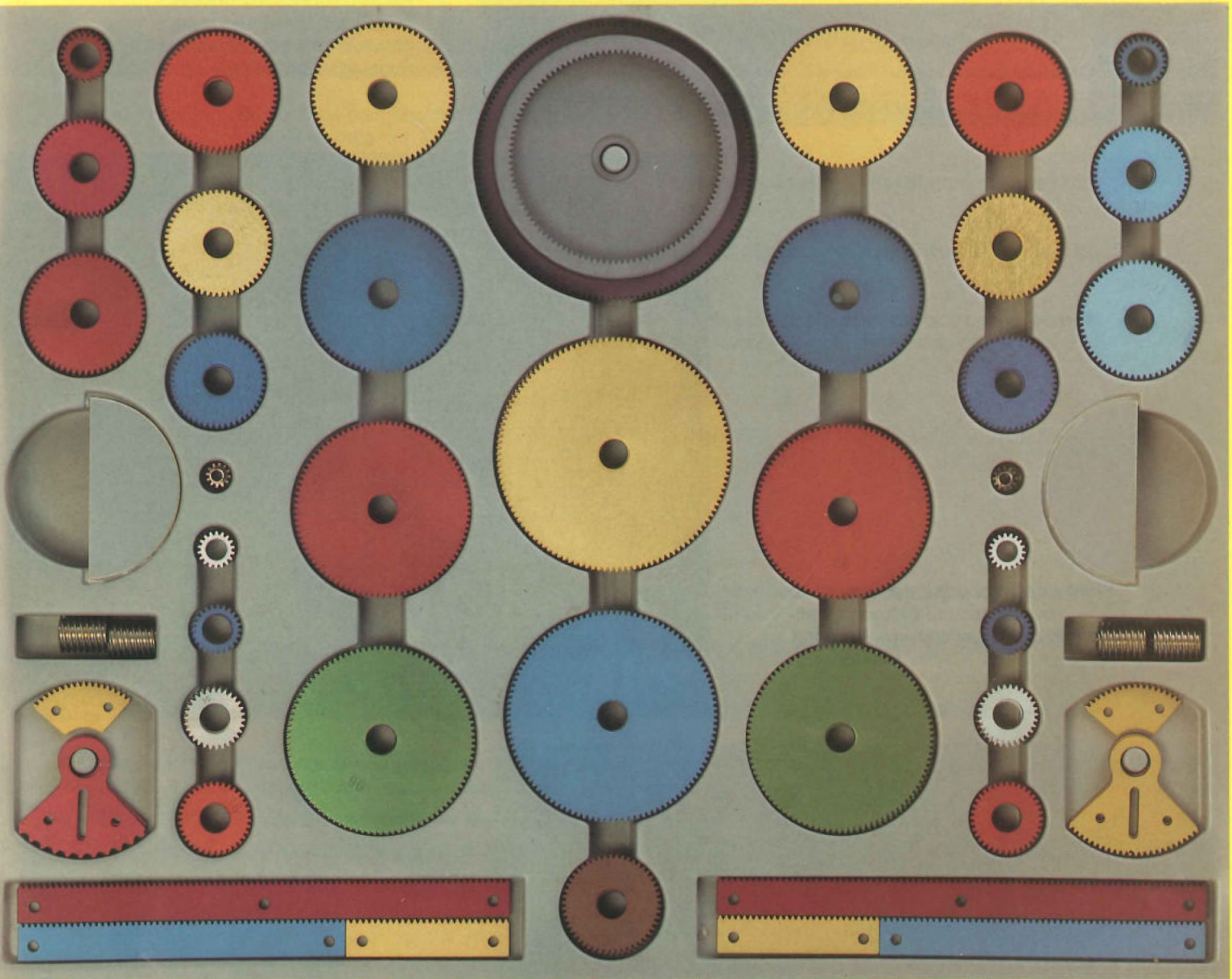


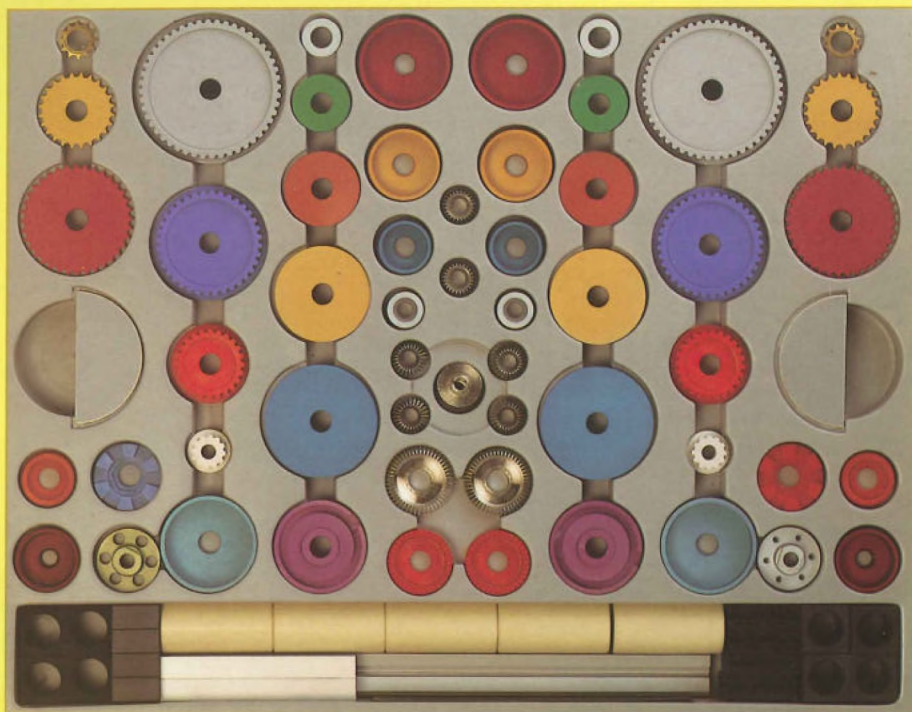
AUTOMAT

KONSTRUKTIONS-BAUKASTEN
CONSTRUCTION KIT SYSTEM

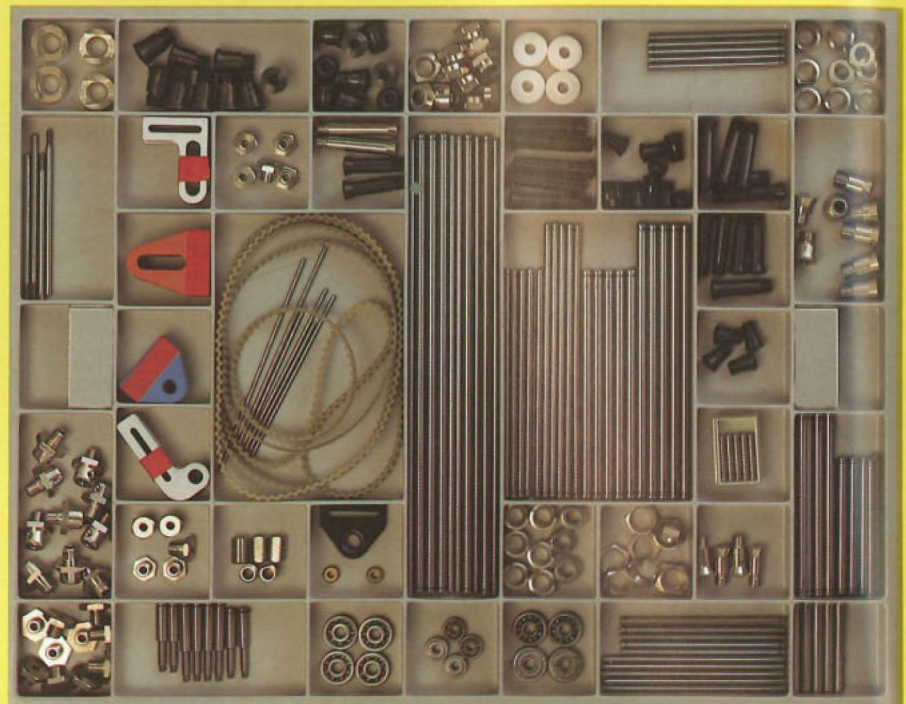
3000



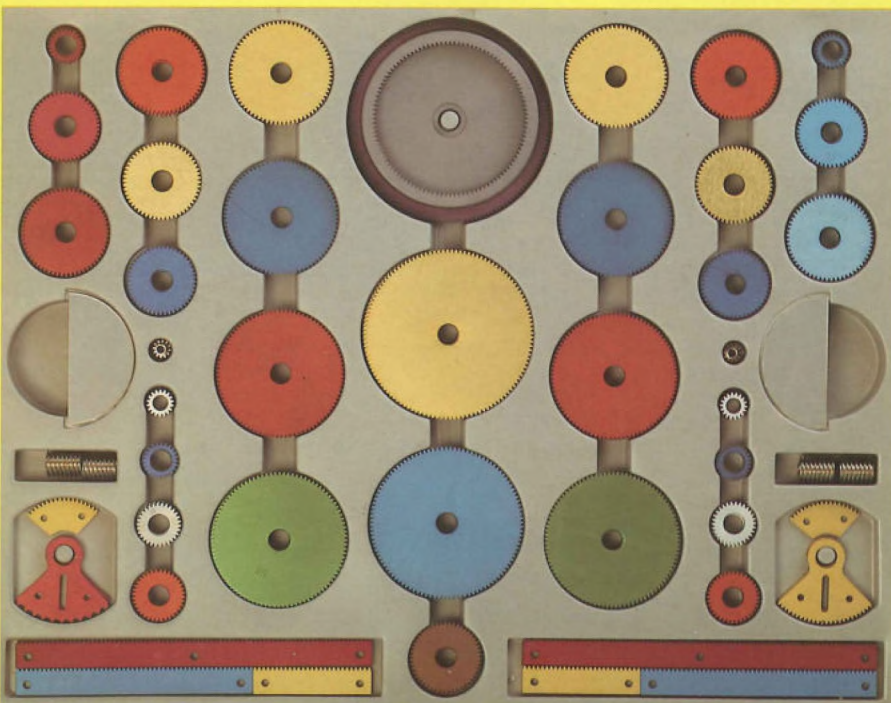
compact technik gmbH · D-6905 Schriesheim · PF 1313 · Tel. 06203/61954 · Fax 06203/68561



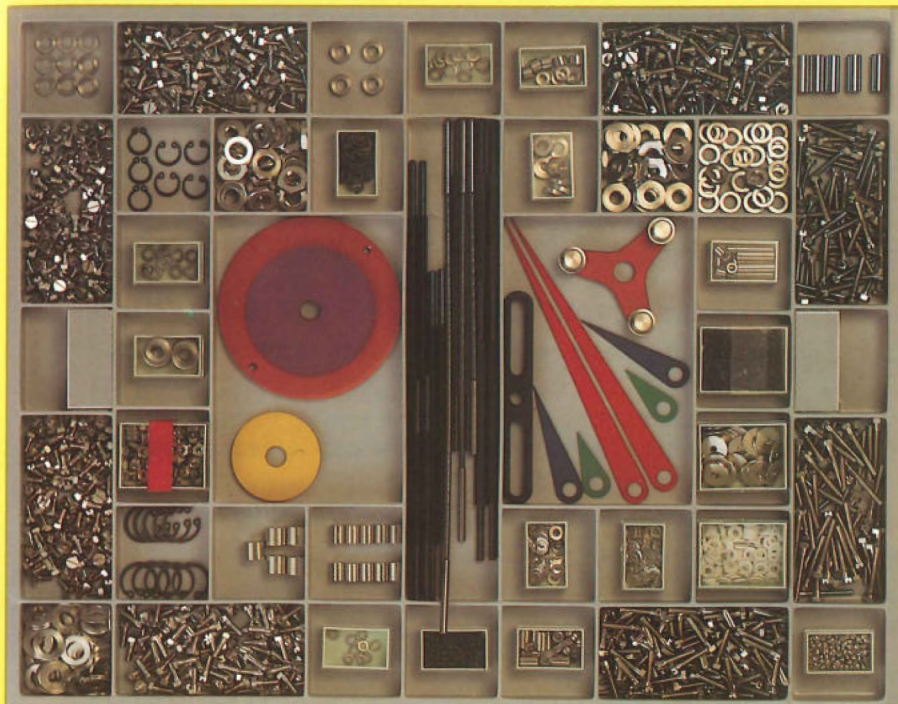
◁ Timing belt pulleys, sprockets, flat and round belt pulleys, couplings, bevel and miter gears, cam bodies, bearing housings, guide rails.



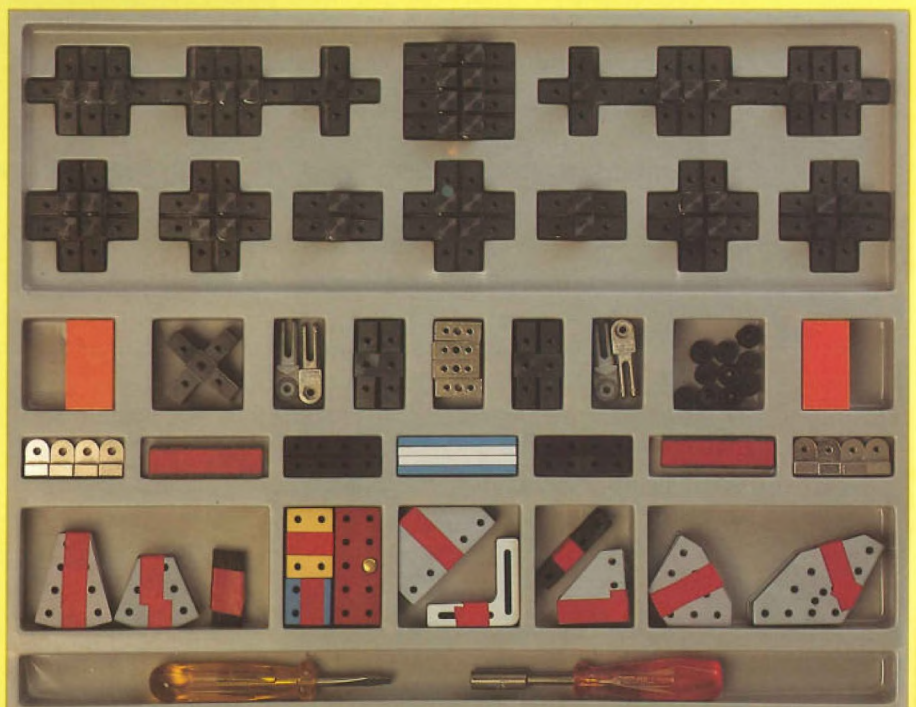
Shafts, collet chucks, cone sleeves, ▷ bushings, ball bearings, self-aligning bearings, bearing supports timing belts.



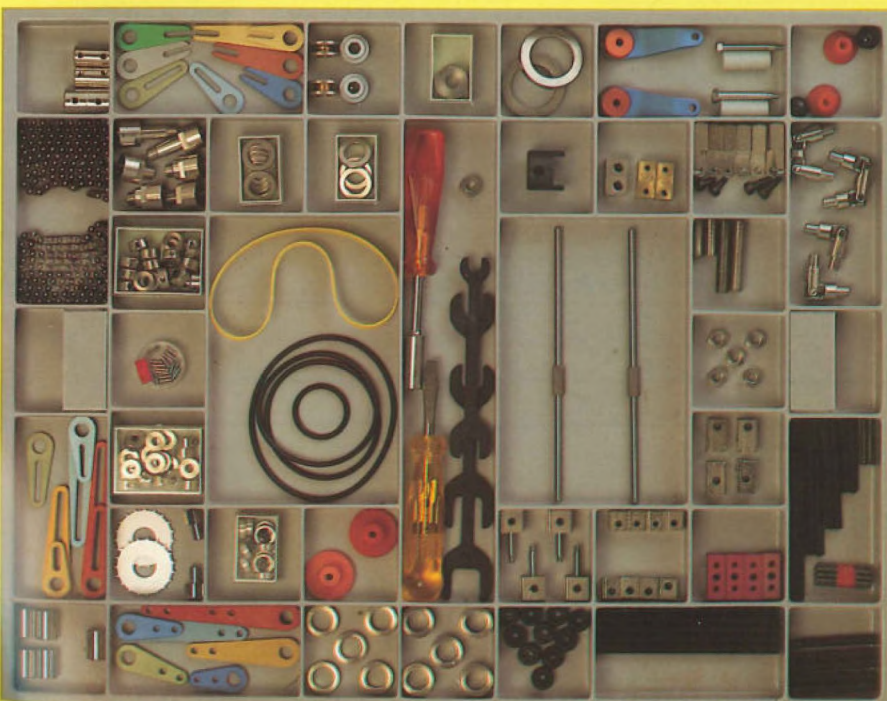
◁ Spur gears, pinions, racks, toothed segments, toothed sectors, worms and worm wheels, internal gear.



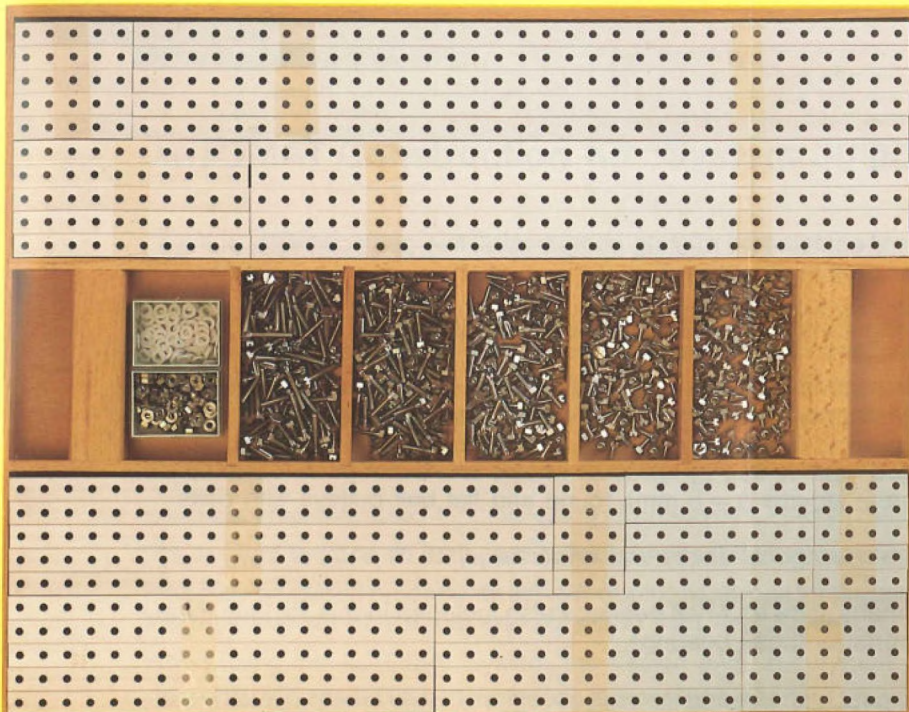
◁ Assembly materials, screws, washers, nuts, spacers, threaded spindles, pointers, disks etc.



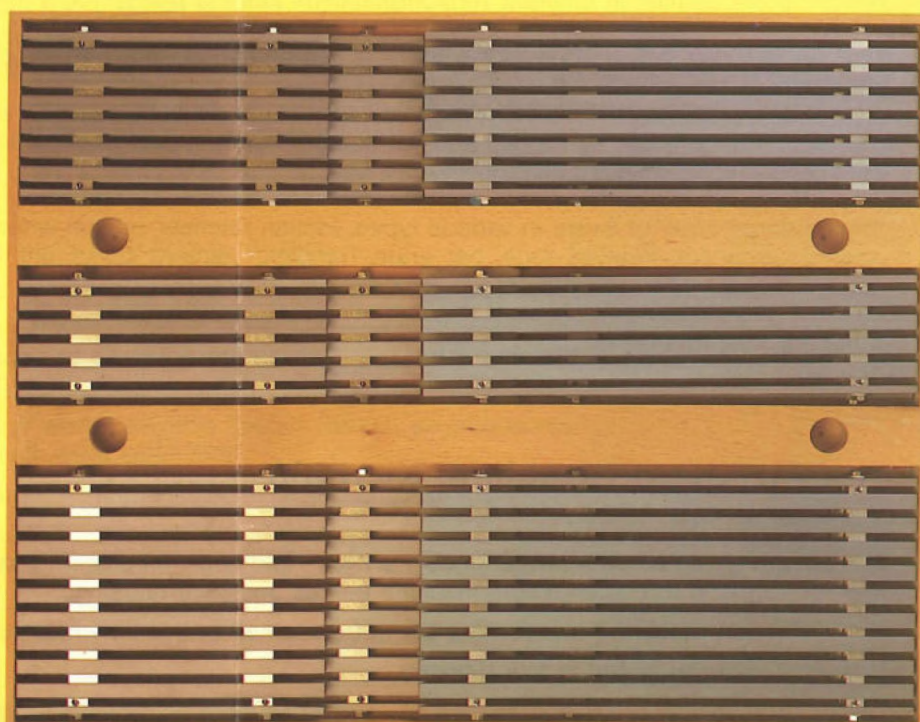
▷ Cornerpieces, hinges, telescoping-joints, straight connectors, flat plates, bumpers, tools etc.



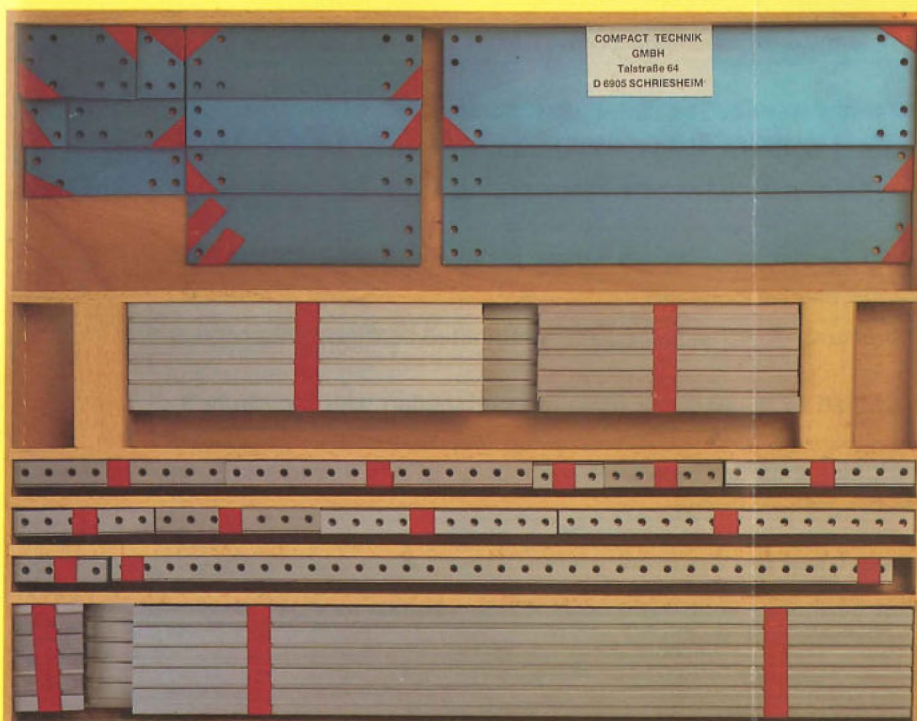
◁ Roller chains, flat and round belts, lever assortment, friction ratchet components, coupling shafts, bearing blocks, bar ends, threaded rods, handles, knobs, tools, etc.



◁ Two sets of square tubes (12.7 x 12.7 x 1.35 mm) in 10 different lengths, assembly materials.



▷ Twelve base plates (9 sizes) in the lengths of 13, 17, and 21 xt and widths of 5, 7 and 10 xt.



◁ U shaped aluminium profiles in various lengths, cover sheets in 12 different sizes.
Please note:
The contents shown may slightly differ from series to series. Alterations and improvements of the kits reserved.

AUTOMAT Construction Kit "System 3000"

The AUTOMAT "System 3000" described herein consists of the basic Gear Set 1600 and the basic Structure Set 1400.

It can be regarded as the most extensive range of mechanical prototype components ever offered.

Therefore it is a very valuable technical aid for design engineers and experimenters since its introduction 25 years ago.

The AUTOMAT 3000 enables the practical engineer to construct by himself all conceivable mechanisms – beginning with simple geartrains, traction- switching and linkage mechanism all the way to cam operated machinery.

It is most efficiently used for developing of prototypes, special machines and additions to existing machines.

The availability of such a system of interchangeable components offers many remarkable advantages:

Presently practiced procedures at R & D departments call for preparing individual drawings for each part, then the procurement of material and only then their manufacture.

When using the AUTOMAT System, the design and procurement labor is eliminated.

Hence one can start immediately to realize the construction idea and the project can be completed in substantially shorter time. A simple hand sketch is often sufficient to start with.

If one considers that unavoidable design changes can also be made such fast and easy, the time saving due to the use of AUTOMAT elements is essential.

Superfluous components can be returned to the kit, and, due to their sturdy design, they are ready to be used again.

The unlimited reusability feature of the AUTOMAT System makes it truly a lifetime investment you make only once.

Often the system pays itself during its very first application.

Moreover the presence of a large number of identical components allows you to build different versions of the proposed design.

This permits thorough comparison and evaluation and ultimately yields the optimal solution to the design task at hand.

All these many advantages are the reason why this System 3000 is so enthusiastically accepted throughout industrial enterprises and research establishments!

Both kits are shipped in sturdy portable wooden attache cases complete with nine pull out that are fitted out for each component type.

Total weight: 91 lbs.

Recommended AUTOMAT basic equipment combinations:

Kit-type	2000	1600	1400	401	500	V8/V16	8310-8410
Industry-departments		×	×		×	×	×
Research-institutes		×	×		×	×	×
Technical highschoools and universities		×	×		×	×	×
Engineering schools		×	×		×	×	×
Technical schools	×			×	×		
Vocational schools & apprentice shops	×			×	×		
Inventors, hobbyists	×			×	×		

The AUTOMAT Gear Kit 1600

The AUTOMAT Gear Kit 1600 (shown at left) contains all rotating components, like gears, wheels, pulleys, shafts, bearings, couplings, etc. in short, "everything that turns".

Clearly arranged in five trays, we find among them many other elements including:

Pinions and spur gears, an internal gear, racks, toothed sectors, toothed segments, worms and wormwheels, bevel and miter gears in many reasonably stepped numbers of teeth. (module 0.75)

In addition the traction drive components are represented by sprocket wheels and 5 mm pitch rollerchains, timing belt pulleys, matching belts of different lengths ($t = 5$ mm), round and flat belt pulleys with belts.

A large array of 4 mm and 6 mm dia shafts, hexagonal shafts and universal joints fill another tray.

All these shafts will run precisely with the many slide and ball bearings also included in this kit. Plus there are a large number of housings and supports for these bearings.

The fastening of all rotation components, like gears, wheels and levers is accomplished by means of a variety of special collet chucks in different versions.

Thus an absolute strong fixture of the shafts is guaranteed, optimal torques can be transferred and an exact concentricity is ensured.

A selection of cam bodies for bell and flat cams allows the design of cam operated drives, which can be controlled mechanically or electrically.

Another large array of levers in various types, friction ratchets, ratchet wheels, springs, bolts, nuts, screws, washers, spacers, treaded rods, bar ends, handles, pointers, disks, etc. completes the content of this generously equipped assortment.

Shipping weight: 44 lbs.

The AUTOMAT Structural Kit 1400

This structural kit AUTOMAT 1400 (shown at right – fold page out please) contains all available components that are required to design stable machine frames and gear housings.

(As of packing reasons T-slot profiles are not contained in this kit – refer to AUTOMAT Kit 500)

Its contents are arranged in four different trays.

Twelve pre-assembled baseplates in 9 sizes are designed as mounting supports for bearings, gears and motors.

Two sets of precision square tubes in different lengths together with corner pieces and hinges enable you to design a vast variety of frame constructions.

All cornerpieces can be self made by means of center cubes and square studs.

The choosen slide-fit and screw joint technics guarantees stable and elegant framework assemblies.

A large number of I and U shaped aluminium profiles completes the range of strut elements, which can be fixed to the corner-pieces likely.

Additional profile connections can be created by using the flat and angle plates included in this fine kit.

Thus very interressant strut frame constructions can be obtained.

All AUTOMAT struts are compatible to each other and allow a wide range of combinated profiles – either screw-jointed or glued.

The array of decorative plates can be assembled to housings or used in combination with the struts for "box-type" constructions.

As of the choosen aluminium-alloy for all static elements, it is easy for the practician to drill, thread additional holes, or to cut or miter the struts following his special needs.

The AUTOMAT pitch = $1/2" = 12.7$ mm for the outer dimensions and hole-distances makes this system compatible to most of the known metal-construction kits.

Weight of this AUTOMAT Structural Kit 1400: 53 lbs

Das Konstruktionsbaukasten - System **AUTOMAT 3000**

Dieses professionell konzipierte Versuchsbaukasten - System besteht aus dem **Getriebebaukasten 1600** und dem **Statikbaukasten 1400**.

Seit 1960 ist der AUTOMAT 3000 deshalb die Standard-Ausstattung in vielen modern ausgestatteten Industrie- und Forschungslabors im In- und Ausland.

In zwei eleganten Holzkoffern verpackt, bilden die beiden Baukästen das umfangreichste Angebot an mechanischen Bauteilen überhaupt.

Der 3000 gestattet aufgrund seiner sehr reichhaltigen Ausstattung den Selbstbau selbst umfangreicher Konstruktionen, wie Prototypen, Funktionsmodellen, Vorrichtungen, Getrieben, Geräten, Rahmenwerken und Apparaturen u.v.a.m.

Das gleichzeitige Vorhandensein von sehr vielen, exakt zueinander passenden System-Bauteilen erlaubt den sofortigen Baubeginn (und sogar Varianten davon) – meist genügt eine einfache Skizze als Vorlage.

Die sonst üblichen Zeichenarbeiten und Stücklistenherstellung entfallen ebenso wie die bekannten Wartezeiten für Werkstattanfertigungen und die zeitraubende Beschaffung der jeweils benötigten Bauelemente.

Das Konstruieren mit dem bewährten AUTOMAT System bietet daher erhebliche Zeit- und Kosteneinsparungen - Seine Anschaffung amortisiert sich daher bereits nach den ersten Einsätzen.

Der AUTOMAT 3000 ist deshalb die ideale Hilfe zum schnellen und risikolosen Ausprobieren von Konstruktions-Ideen und zur Erstellung von deren Varianten.

Erweiterungen und Änderungen der damit gebauten Konstruktionen sind jederzeit möglich. Sie hinterlassen keinen "teuren Schrott", da die stabilen Bauteile jederzeit wiederverwendbar sind.

Eventuell zusätzlich benötigte Bauteile werden prompt und preiswert nachgeliefert.

Das Bauen mit dem AUTOMAT System ist daher sehr rationell und risikolos – (und Spaß macht's natürlich auch !)

Das System 3000 bietet allen Versuchs-Praktikern die ideale Möglichkeit, ihre besten Konstruktions - Ideen risikolos und rationell verwirklichen zu können

Unsere vielen Kunden sagen deshalb : **Mit AUTOMAT geht's einfach einfacher !**

Deutscher Text für den gelben Prospekt "System **AUTOMAT 3000**"

(Technisch bedingte Änderungen der Inhalte vorbehalten)

Innenseite links oben 1600 er

Das Fach zeigt Zugmittelelemente wie Zahnriemenscheiben , Kettenräder, Flach- und Rundriemenscheiben, sowie Kupplungen, Kegel- u. Tellerräder und Kugellagerklötze.

Innenseite links Mitte 1600 er

Inhalt:

Wellen in verschiedenen Durchmessern und Längen, Gleitlager, Lagerträger, Spannzangen und Konushülsen, Zahnriemen, Kugellager- sind in diesem Fach zu finden.

Innenseite links unten 1600 er

Das Rädertablett enthält 16 verschiedene Zahnradtypen, ein Hohlrad mit Planetenträger, 2 u. 3 gängige Schnecken mit passenden Rädern, Zahnstangen, u.a.m.

Mittelseite oben 1600er

Dieses Fach ist mit dem passenden Montagematerial, d.h. Schrauben, Muttern, U-Scheiben, Sicherungsscheiben, Zug- u. Druckfedern, Gewindewellen, Zeiger, Distanzelementen, und Gewindestifte bestückt.

Mittelseite Mitte 1400 er

Anstelle der hier gezeigten (schwarzen) Vierkantröhrverbinder werden Eckwürfel und Vierkantzapfen geliefert, die zu den benötigten Eckverbindertypen verschraubt werden. Das Fach enthält noch Scharnierteile, Lagerklötze, 12 verschiedene Knotenblechtypen und Werkzeug.

Mittelseite unten 1600 er

Dieses Tablett enthält Flach- u. Rundriemen, div. Hebel, Freiläufe, Kupplungsteile, Lagerklötze, Rollenketten, Gewindestangen, Kurbeln, Gelenkwellen, Gewindehülsen.

Rechte Seite oben 1400 er

Zwei Sätze Vierkantröhre in verschiedenen Längen und das passende Montagematerial sind in diesem Fach enthalten. Diese Röhre werden (ungelocht und nicht eloxiert) auch in Meterstücken angeboten

Rechte Seite Mitte 1400 er

Die hier gezeigten Grundplatten wurden durch massive Nutprofilplatten ersetzt, die in drei verschiedenen Breiten und fünf verschiedenen Längen angeboten werden.

Rechte Seite unten 1400 er

Das Fach enthält elegante Verkleidungsplatten in verschiedenen Abmessungen, sowie vorgelochte Konstruktionsprofile.