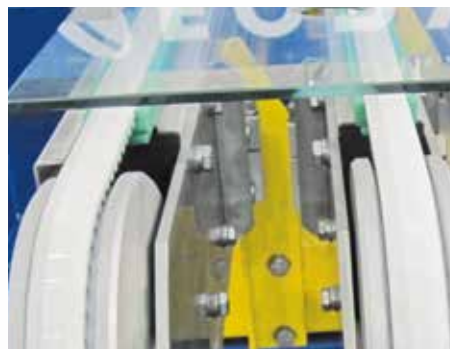
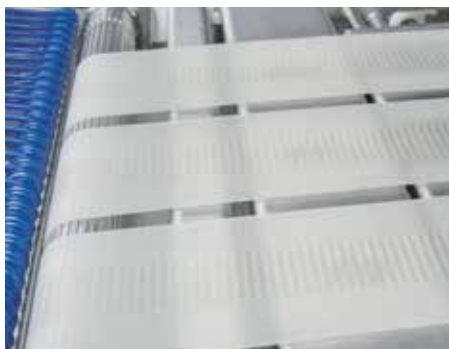
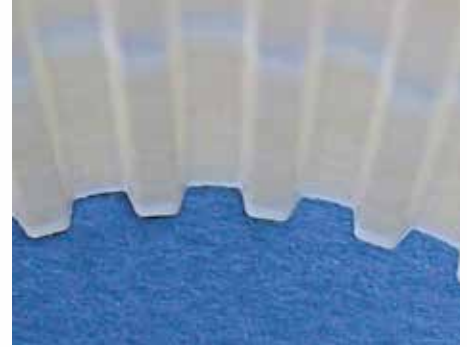



igat
»»» belt systems



→ *Your Specialist for Synchronous Belt Technology*



Your Specialist for Synchronous Belt Technology



Ladies and Gentlemen, dear Customers,

As the owner and CEO of IGAT, it is my pleasure to welcome you to our company. My team and I are delighted that you are interested in our products and services.

As a specialist in synchronous belt technology, we have gained a reputation throughout Europe for innovative solutions, a commitment to quality, and customer service. We are proud to supply our products to leading manufacturers in custom machine engineering and their customers.

Our technical resources, industry expertise and long-standing experience make us a sought-after partner in all major sectors of mechanical engineering. Matched individually to the customer problem in hand, our workflow offers tailored solutions with optimum efficiency – a fact known by our customers, which trust in our capacity to deliver.

So when can we convince you too of the flexibility and friendliness of our owner-led, service-oriented company? We would be delighted to hear from you.

Yours,

Klaus Murmann, Bachelor of Engineering
CEO

A handwritten signature in blue ink, which appears to read 'K. Murmann'. The signature is fluid and cursive, with a long, sweeping tail.



IGAT – The company

A specialist is an expert in its field. When it comes to synchronous belt technology, **IGAT** is one of the industry's top addresses. For many years now, leading companies in custom machine engineering – throughout Europe – have placed their faith in our know-how and our products.

IGAT sees itself as a problem-solver in the complex field of synchronous belt technology: that includes on-site consulting, engineering custom solutions, and delivering all the components, including synchronous belts and sprockets in every material and size.

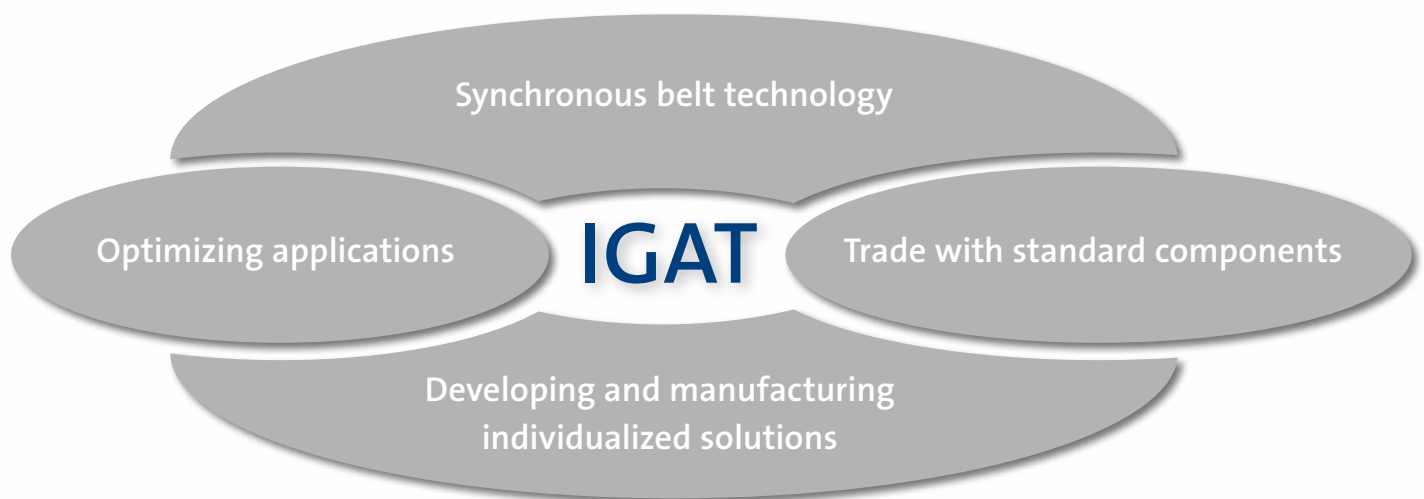
We maintain distribution centers in Düsseldorf and Starnberg, near Munich. There highly qualified sales engineers and clerks guarantee quick preparation of offers and execution of orders. With a central warehouse for all the conventional types of belts, providing delivery within 24 hours, we are at our customers' disposal around the clock.

IGAT works closely with Megadyne, an innovative and leading manufacturer of modern synchronous belt technology. In addition to Megadyne, **IGAT** has developed an excellent network of highly qualified, certified suppliers. That makes us a partner who can also offer solutions from a single source.



Your Specialist for Synchronous Belt Technology

IGAT – Our major fields of expertise at a glance



IGAT – Industries and applications

As a specialist in synchronous belt technology, IGAT gets involved wherever this technology is used. So companies such as ATLAS-COPCO, SCHÜCO, BOSCH, HOCHLAND and BENTELER are among our customers, to name but a few. *The foods processing sector forms a particular focus of our activities.*

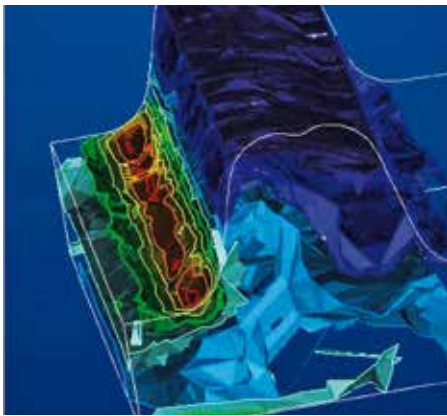
IGAT – Applications at a glance

- + Solar technology
- + Glass transportation
- + Woodworking
- + Medical technology
- + Packaging technology
- + Foods processing sector
- + Heavy-duty drives





Made by IGAT – CAD/FEM engineering design solutions



FEM representation of belt tooth

Our engineers devise individualized solutions according to the customer's specifications and/or tailored to the problem case. We work with the "Pro-Engineer" 3D CAD system. In addition to generating drawings, we can also carry out complex FEM strength calculations. Designing complete assemblies rounds out our range of engineering services.

In detail, we can offer you the following services:

- + General engineering design activities
- + Preparing shop drawings
- + Generating 3D CAD data records
- + FEM strength calculations

Selecting belt drives – where experience really counts



Our technical department has a large number of calculation programs at its disposal, making for correct dimensioning of your drives as per the technical situation. A wealth of solid technical documentation and decades of experience among our employees have made our firm a sought-after partner in mechanical engineering for custom machines.

Our services comprise:

- + Selecting and dimensioning belt systems
- + Calculating inter-shaft distances and belt lengths
- + Estimating service life
- + Determining the ideal belt pre-tension level

Our service offering for you

Fast and straightforward – on-site consulting

When a specific problem needs to be solved, take advantage of our experience and ask for an on-site technical consultation – either on your premises, or we can join you at your final customer's location. Especially when launching new projects, this allows detailed technical questions to be resolved quickly and easily in advance and eliminates the need for time-consuming subsequent clarification.

Examples of our consulting activities:

- + Evaluating existing drive concepts
- + Conversion of existing drive units
- + New projects / assignments for belt drives
- + New engineering designs
- + Selecting suitable backing finishes to handle special conveyance tasks



Damage surveys – the groundwork of efficient solutions

Our staff's many decades of experience make us well-qualified to advise when it's a matter of surveying damage or optimizing faulty drives. We are thoroughly familiar with evaluating and rectifying the following defects:

- + Excessive noise development
- + Poor positioning accuracy
- + Belt tearing and failure
- + Premature wear
- + Detachment of belt coatings
- + Ageing due to environmental influences



 **IGAT – Products**

Synchronous belts

IGAT stocks a complete line of synchronous belts made of neoprene or polyurethane, in all belt systems and pitches. In addition to the standard range, available from inventory, we offer numerous special designs, optimized to match the specific application, for all areas of industry.



Conveyor belts for foods

Whatever the product being transported in the foods processing sector, **IGAT** has toothed and flat belt solutions in fully-sealed, antibacterial versions that satisfy the existing FDA and EU guidelines. Tailored to the product, we manufacture backing coatings and belts with profiles for optimum grip; cleats and flights made from food-safe materials and stainless steel spikes complete our wide-ranging assortment.



Finishing synchronous belts

Specific to the application, **IGAT** supplies a wide variety of belt solutions, which are available with backing coatings, nubs, cleats, paddles, fins etc.. We make these up using sophisticated bonding/welding and vulcanization processes.



Our supply program

Drive elements

In addition to a comprehensive range of standard sprockets, available from inventory, **IGAT** also offers drive elements such as sprockets, chain sprockets, modular wheels and racks manufactured in accordance with your drawings. All the customary materials are available in all conventional pitch distances.



Accessories and components

Our supply range naturally also includes accessories manufactured to the highest technical standards, such as tensioning technology, clamping plates and mechanical belt connectors. To ensure the belt tension is set correctly, our customers use the compact **IGAT** gauge, the TECO-S MINI.



Moldings and castings

For use in mass production, generally in close collaboration with our customer's engineering department and backed up by our professional 3D CAD system, we design economically priced moldings or castings as an alternative to machined drive elements. The material best suited to your application with reproducible production tolerances is chosen by our engineers on submission of the specific drive data.



Our product range

Synchronous belts

Shaped belts (endless)
Bulk stock (finite-length)
Flex belts (endless)

Other belt products

Poly-V belts
PU round belts
Vee belts, SP/XP types

Conveyor belts for foods

Finishing synchronous belts

Coatings
Cleats/nubs
Alternating nub systems

Accessories and components

Clamping plates
Belt connectors
Belt tension gauges
Tension rollers

Drive elements

Sprockets
Chain sprockets
Gears/racks

Moldings or castings made from plastic or cast metal

Sprockets
Spur gears/chain sprocket assemblies
Components

Connection technology

Clamping elements
Couplings

Special solutions

Impression-free backing coatings for glass transportation
Belts with double toothing
Stainless steel nails for fish conveyance
Stainless steel clamping sets
Electrically conductive belts
Extreme-duty synchronous belts RPP Platinum (PLT) / Gold (GLD)
FDA/EU belts without reeling edges / closed edges at the side
Anti-slip backing coatings with high friction value
Heat-resistant belts/coatings
Food-safe synchronous belts
Linatex/LCN belts
Magnetic belts
Cleat strips with quick-change system
Nubs/spikes/milled cleat profiles
Surface treatments
POM/V2A splined shafts with tooth profiles T/AT/HTD up to 1500 mm long
Backing finishes for gentle product handling
Low-friction coatings for conveyors in accumulation mode
Clean-room belts
Belt solutions for deep-frozen products
Pin-joint belt connectors
Heavy-duty lifting belts/lifting straps
Heavy-duty clamping sets
Synchronous belts free of silicone and compatible with paints
Profiles N5/N16 for transporting foods
Vacuum belts
Sprockets made of high-strength aluminum/stainless steel

IGAT – Locations



Düsseldorf: Engineering design / Distribution center north

Feldafing: Distribution center south / order processing

Paderborn: Central warehouse standard parts

Hamburg: Synchronous belt finishing

Hannover: Sprocket production

Turin/Italy: Polyurethane belt production, Megadyne

Barcelona/Spain: Neoprene belt production, Megadyne



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