

DRIVE SOLUTIONS

EN



www.sitspa.com

SIT ITALY
SIT FRANCE
SIT SPAIN
SIT GERMANY
SIT SWITZERLAND
SIT ELATECH
SIT CHINA
SIT INDIA



THE SIT GROUP, A TRADITION BEGUN IN 1838.

The SIT Group is a leading global manufacturer and supplier of industrial power transmission solutions. The company dates as far back as 1838, when the parent company started to develop and manufacture technological components for the textile industry, and later diversified its production into the mechanical transmission segment. Today, thanks to over 50 years of specific experience in power transmission and a close-knit team of highly qualified professionals, the Group engages in constant technological innovation in order to offer the best application solutions in mechanical power drives.

The SIT Group conducts continuing research in innovative technologies that will define the environment of the future.

Our experience, along with application expertise gained over decades, is made available and used every day by our customers to develop successful innovative machines and systems.



One of today's leading European power drive manufacturers, the SIT Group develops, engineers, manufactures and distributes high quality transmission solutions and components for superior industrial applications worldwide. With operations on 3 continents, SIT manufactures pulleys, rubber and polyurethane belts, drive couplings, locking assemblies and a wide range of accessories.

MISSION

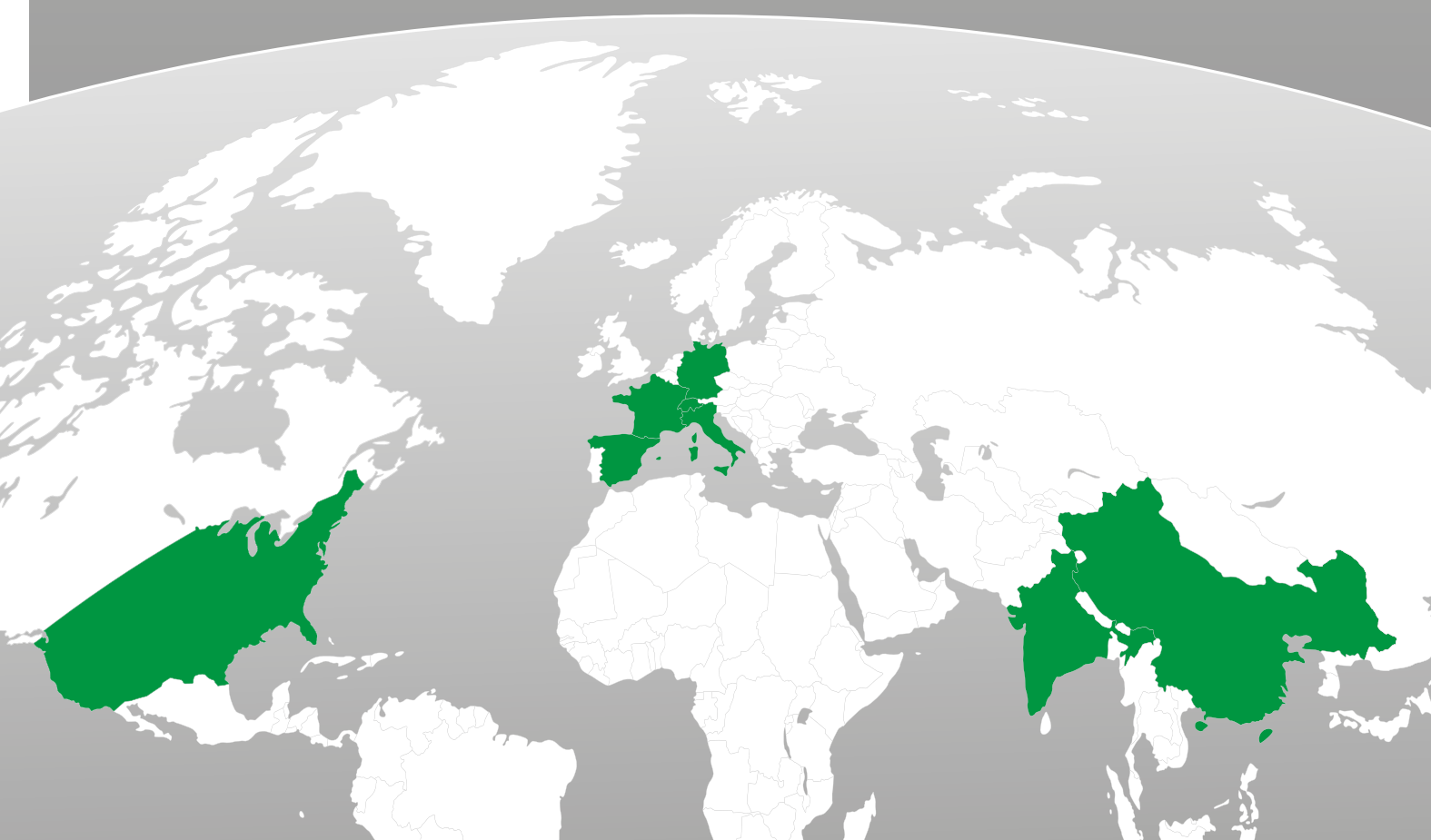
Our mission is to offer customers the most technically efficient and cost-effective solutions, to be at their side with our five regional branches and personal commitment, to propose and inspire innovative ideas and solutions. Through our Product Managers to handle any design request with an expertise that also comes from our history, along with a natural inclination to innovation and investment. In this way we can help our customers improve the reliability of their machines.

A GLOBAL ORGANIZATION

Our research and development are based in Italy, as well as the group's main production and logistics centre. The global contribution given to our customers success is made through our subsidiaries in three continents, which are based in Germany, France, Switzerland, Spain, United States, China and India.

With their production capacity and logistics, they guarantee reliable products, technical support along with global service and quality. Our strong international team of highly qualified engineers who provide the best technical and economic solutions on a daily basis. We are able to offer the best technical and economic solution for each and every specific application.

We can offer solutions from simple to complex applications within mechanical transmission, a unique added-value support.



TIMING PULLEYS

V-PULLEYS

POLYURETHANE BELTS

SPROCKETS, PLATE WHEELS

COUPLINGS

TAPER BUSHING

SELF LOCKING ELEMENTS

CUSTOM PRODUCTIONS
ACCORDING TO DRAWING



sitspa.com | MANUFACTURING



STRONG MANUFACTURING EXPERIENCE

A century-old industrial tradition and 50 years of experience in the development and manufacturing of power transmission components.

Our production facilities use the most advanced technologies. Through constant investment in machinery, equipment and tools, SIT achieves high productivity and flexible efficiency. Our strict quality controls of outgoing products to ISO 9001 quality certifications allows the company to meet the most stringent requirements. The experience, quality awareness and professionalism of our human resources has earned us international recognition as a strong quality-orientation company.

OVER 55.000 SQM OF PRODUCTION AREA IN 3 CONTINENTS

Today's production of drive belts, metal components and accessories, is the result of continuous investments made by the group to meet its customers' needs. Experience, culture, technical resources and expertise make SIT a market leader and standard setter.

RESEARCH & DEVELOPMENT

Through its team of experienced technicians and engineers dedicated to Research and Development along with a Technology Centre equipped with the advanced dynamic test benches. New sophisticated raw materials and finish product testing gives highly innovative products and solutions.



Manufacturing plant - Val Brembilla (BG)



CAD LIBRARY

CALCULATION SOFTWARE

E-SALES NAUTILUS

QUICK AND PUNCTUAL
DELIVERY



SIT logistics hub in Cusago (MI)



E-Sales Nautilus



SitDrive



SitCouplings



CAD Drawings



SIT ONLINE TOOLS

Online resources include downloadable technical catalogues and CAD drawings, sophisticated software for designing power drives, product availability searches, and order submission tools (also from customers' management system).

BEYOND PRODUCTS: LOGISTICS AND SERVICE QUALITY AND PERFORMANCE

LOGISTICS

The integration of advanced manufacturing technologies and cutting-edge logistics ensures a high level of product quality and availability.

The flexibility, speed and continuous improvement of SIT logistics provide competitive advantages and opportunities to all customers. Our new automated logistic center in Cusago, Milan ensures a highly efficient flow of products.

- 18.000 sqm of warehouse and office space
- 60.000 coded products of which 25.000 with stock
- 250.000 order lines shipped every year

ONLINE TOOLS

In addition to the design support service provided by our application engineers, the www.sitspa.com website allows quick and easy access to a great deal of information including: drive sizing through the SITDrive and SITCoupling software applications, 3D drawings of standard components, technical documentation, available stock and much more.

HIGH PERFORMANCE SYNCHRONOUS BELTS

SIT toothed belt drives are constantly updated to meet the most advanced specific application requirements. Through the use of an advanced test laboratory and a focus on application engineering solutions, we are able to offer a wide range of products and solutions for every technical application, from the lightest to the heaviest. Synergies between our production sites, industrial partners and the ability to develop customized products for specific requirements allow us to produce solutions using highly advanced materials technologies, and to provide a virtually endless range of possible solutions. We offer the complete drive unit, belt and pulley (customized if required) - a unique advantage in terms of reliability and quality assurance.

PREMIUM

GTR

★★★★★

GIGATORQUE SYNCHRONOUS BELT

GigaTorque is the most powerful timing belt available in the market today. Made of a premium HNBR rubber and a high modulus carbon fiber cords, it is the most advanced solutions for heavy duty applications. GigaTorque belt construction allows user to design compact drives and have a greater power capability, resulting in lower shaft loads. SIT manufactures a full range of GTR pulleys suitable for any application.

- Tensile member: carbon
- Compound: nitrile rubber (HNBR)
- Belt facing: special low friction fabric

- Benefits
- Higher power rating
 - Longer life span
 - Reduced drive size and weight
 - Minimum tension decay
 - No maintenance costs



GIGATORQUE

SilentSync®



PREMIUM

H.O.T.

★★★★★☆

SilentSync® SYNCHRONOUS BELT

SilentSync® is an innovative double helical offset tooth drive which, thanks to continuous and progressive meshing between belt and pulley, provides very high performance in terms of both noiseless and precision, reducing vibration.

- Tensile member: aramid fiber
- Compound: nitrile rubber (HNBR)
- Belt facing: layer of nylon fabric and high density polyethylene (JPEX)

- Benefits
- Noise reduction up to 15 decibels compared to any other type of toothed belt
 - Drastic reduction of vibrations
 - Self-aligning transmission (pulleys do not require flanges)
 - High transmissible torque
 - Belts available in both rubber and polyurethane
 - Static Conductive (ISO 9563)

Maximum performance index
★★★★★

Minimum Performance Index
★☆☆☆☆

SYNCHRONOUS BELTS

PERFORMANCE



★★★★☆
MUSTANG® TORQUE HTD SYNCHRONOUS BELT
For very high torque and low speed drives.

- Tensile members: aramid fiber
- Compound: chloroprene rubber (CR)
- Belt facing: polyamide (nylon)
- 8M, 14M pitches

PERFORMANCE



★★★★☆
MUSTANG® SPEED HTD SYNCHRONOUS BELT
For high torque and high speed drives.

- Tensile members: fiberglass
- Compound: chloroprene rubber (CR)
- Belt facing: polyamide (nylon)
- 3M, 5M, 8M, 14M pitches
- Double toothing 5M, 8M, 14M

PERFORMANCE



★★★★☆
TOP DRIVE® HTD SYNCHRONOUS BELT
For medium and low torque drives.

- Tensile members: fiberglass
- Compound: chloroprene rubber (CR)
- Belt facing: polyamide (nylon)
- 3M, 5M, 8M, 14M pitches
- Double toothing 5M, 8M, 14M
- Available with SUPER TORQUE STD profile

STANDARD



★★☆☆☆
CLASSICA SYNCHRONOUS BELT
Economical alternative to chain and gear drives.

- Tensile members: fiberglass
- Compound: chloroprene rubber (CR)
- Belt facing: polyamide (nylon)
- MXL, XL, L, H, XH pitches



CONTROL INSTRUMENTS
TEN-SIT® 2.0, electronic device for belt tension measuring.
LINE-LASER®, a laser device to check the pulleys alignment. Fast and accurate.

PREMIUM



★★★★★
FALCON Pd® SYNCHRONOUS BELT
They permit high torque transmission and reduced dimensions, represent an ideal solution for designing new applications.

- Tensile member: aramid fiber
- Compound: nitrile rubber (HNBR)
- Belt facing: Double layer of nylon fabric and high density polyethylene
- 8M, 14M pitches

PERFORMANCE



★★★★☆
Hi-PERFORMANCE Pd® PLUS SYNCHRONOUS BELT
For medium torque drives, even distribution of effort, good tooth jump resistance.

- Tensile members: fiberglass
- Compound: chloroprene rubber loaded with fiber (Wingprene®)
- Belt facing: polyamide with increased thickness (nylon)
- 8M, 14M pitches

PERFORMANCE



★★★★☆
BLACKHAWK Pd® SYNCHRONOUS BELT
Universal tooth profile suitable for HTD pulleys.

- Tensile members: aramid fiber (Kevlar®)
- Compound: nitrile rubber (HNBR)
- Belt facing: polyamide and polyethylene
- 8M, 14M pitches



- MUSTANG® TORQUE HTD
- MUSTANG® SPEED HTD
- TOP DRIVE® HTD
- CLASSICA
- FALCON Pd®
- Hi-PERFORMANCE Pd® PLUS
- BLACKHAWK Pd®



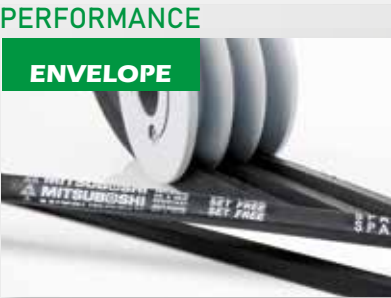
V-BELTS

With its decades of technical and applicative experience in the development and production of complete drive units for the industrial sector and aftermarket, SIT offers the best range of V-belt drives, including customized products for any specific requirements. Availability of high-tech products, in-depth knowledge of materials and processes combined with the ability to design and manufacture complete belt and pulley drive units, make us the ideal partner for machinery and industrial equipment manufacturers.



★★★★★
NEXT® V-BELT
MAINTENANCE - FREE, narrow section. Withstands operating temperatures in the range of **-40 °C** to **+130 °C**. Electrically conductive according to ISO 1813.

- Tensile members: low stretch polyester
- Compound: **EPDM** (Ethylene Propylene Diene Monomer)
- Belt facing: high performance fabric
- XPZ, XPA, XPB, XPC



★★★★☆☆
MAXSTAR® V-BELT
V-belt with exceptional durability for applications even in severe environments. Classical section also available in BARE BACK® version.

- Tensile members: polyester (HMLS)
- Compound: natural rubber (NR)
- SPZ, SPA, SPB, SPC
- Z, A, B, C, D



★★★★☆☆
TORQUE FLEX® V-BELT
V-belt transversely rigid, with improved flexibility thanks to the moulded cogs.

- Tensile members: high strength polyester (Vitacord)
- Compound: chloroprene rubber loaded with fiber (Wingprene®)
- XPZ, XPA, XPB, XPC
- 3VX, 5VX, 8VX
- ZX, AX, BX, CX



★★★★☆☆
MAXSTAR® BANDED V-BELT
Banded belt for applications requiring high torque variation and severe loads.

- XPZ, XPA, XPB, XPC
- SPA, SPB, SPC
- 3V, 5V, 8V
- BX, CX



★★★★☆☆
MAXSTAR® POWER V-BELT
V-belt for heavy loads produced using superior category CR compounds and reinforced cable cords for high-power drive systems.

- Tensile members: polyester (HMLS)
- Compound: chloroprene rubber (CR)
- Belt facing: special high resistance cotton/polyester layer
- SPA, SPB, SPC



★★★☆☆☆
EXCELITE ES® V-BELT
V-belt with excellent price to performance ratio, suitable for general industrial applications intended for not-too-heavy duty use.

- Tensile members: polyester (HMLS)
- Compound: chloroprene rubber (CR)
- SPZ, SPA, SPB, SPC
- Z, A, B, C, D



★★★★★
POLY-V BELT
The traditional **reliability** and **expertise** that accompanies the SIT brand meets Hutchinson's **high technology**. The lengthwise ridged construction helps to achieve a very compact transmission of even heavy loads. Also available in elastic FLEXONIC® and CONVEYXONIC® design.

- Tensile members: polyester (HMLS)
- Compound: chloroprene rubber (CR)
- H, J, K, L, M



★★★★☆☆
MAXSTAR® SUPER KB BARE BACK® V-BELT
V-belt suitable for heavy duty operating conditions, the special BARE BACK® coating allows use in smooth and counter-bending gallop applications.

- Tensile members: aramid fiber (Kevlar®)
- Compound: chloroprene rubber (CR)
- Belt facing: BARE BACK® cotton
- 3LK, 4LK, 5LK



★★★★☆☆
VARIO V-BELT
Used for high power transmission in variable speed drive systems. Produced using chloroprene rubber (CR) compound and Flexten cable cord. Wide range of variable pulleys designed and built to optimize the service life of the drive unit.

ELATECH® POLYURETHANE BELTS

ELATECH® the company of the SIT group, specialized in the development, design and manufacture of polyurethane belts. With its state-of-the-art manufacturing equipment, advanced testing department and a time-tested team of engineers and technicians, the company offers a wide range of products designed to meet any linear positioning, conveying, power transmission and lifting need.



ELATECH® Open End SYNCHRONOUS BELTS

ELATECH® M belts are produced in rolls and are available in any desired length.

Wide range of pitches and profiles, including double toothing.

ELATECH® V-belts are welded belts designed specifically for linear conveying.



ELATECH® ELA-Flex SD® SYNCHRONOUS BELTS

ELATECH® M belts are produced in rolls and are available in any desired length.

Wide range of pitches and profiles, including double toothing.

ELATECH® V-belts are welded belts designed specifically for linear conveying.



ELATECH® SYNCRO MAX® SYNCHRONOUS BELTS

ELATECH® SYNCRO-MAX® Extra-Wide polyurethane belts extend the benefits of synchronous toothed belts to larger surfaces and to typical conveyor belt and modular handling system applications.



ELATECH® iSync® SYNCHRONOUS BELTS

Made from a special polyurethane compound and featuring high-strength steel cords, ELATECH® iSync® belts are the result of a unique, highly sophisticated technology that makes them capable of transmitting 30% more than conventional T and AT profiles. Benefits:

- High transmission capacity
- High abrasion resistance
- Operating temperature range from -10 to +80 °C

Profiles:

- T2,5 - T5 - T10 - AT5 - AT10 - XL - L



FOOD INDUSTRY

Polyurethane Belts comply with the requirements of materials intended for food contact.

- **iFood:** manufactured with special compounds, guarantee an excellent resistance to chemicals and corrosion.
- **Deboning:** used to separate the meat from bones, sinews and skin, as well as to get pulp or juice in the vegetable/fruit processin.



ElaCleats

Drawings of the most suitable cleat for any polyurethane belt can be downloaded in CAD or PDF format. Availability of a vast array of customized and standard cleats, specially designed for the most diverse applications.



T2,5 T5 T10 T20
AT3 AT5 AT10 AT15 SAT10
AT20
ATL5 ATL10 ATL20
TK5 TK10 ATK5 ATK10
HTD 3M 5M 8M 14M
RTD 5M 8M 14M
STD S5M S8M S14M
EAGLE E5 E8 E10 E14
MXL XL L H XH
F1 F2 F2,5 F3 F9
POLY-V K
TT5



ELATECH® SPECIAL BELTS

Thanks to their physical and mechanical properties and a wide range of materials that can be brought to the surface, ELATECH® belts meet any synchronized conveying need.



ELATECH® EMF
Mechanical Fastening.



ELATECH® EFT
False Teeth.



LININGS:
Fabric, foam, PU and PVC, rubber silicon.

NITTA FLAT BELTS



FLAT BELTS

Different types of flat belts for application in power transmission and conveying that guarantee uniform and high-performance transmission speed.

- **PolyBelt™** with polyamide (nylon) body and NBR surfaces. Chamfered joint: ideal for installation even on site.
- **PolySprint™** with polyester body and NBR surfaces. Z-weld joint: high flexibility and low elongation.
- **SEB™** manufactured as a jointless sleeve with high reliability and precision. Ideal for feeder, ATM and postal sorting systems.

DRIVE COUPLINGS

GENERAL PURPOSE



TRASCO®

- Absorbs torsional vibrations
- Compensates for axial, radial and angular misalignments
- Available in cast iron, aluminium, steel and for taper bush mounting SER-SIT®

GENERAL PURPOSE



SITEX® - SITEX® FL - SITEX® Nylex®

- Maintenance-free
- Compact, easy to install
- FL design for flywheel-pump applications in hydrostatic drives
- NYLEX design with polyamide hubs for light-duty applications

GENERAL PURPOSE



UNIVERSAL JOINT

- Generic applications with high radial misalignment
- E series up to 1000 rpm
- H series up to 4000 rpm
- Single, double and telescopic universal joints

GENERAL PURPOSE



JUBOFLEX®

- An excellent dampening effect of the load peaks
- High flexibility
- High values of possible misalignments

GENERAL PURPOSE



BOLT COUPLINGS

- Rigid connection of two shaft ends
- Vertical connection without axial sliding

GENERAL PURPOSE



SIT-LOCK® 10 - EXTERNAL RIGID SHAFT COUPLING

Composed of two tapered rings and a slit inner ring. It is particularly suitable for clamping two shafts where medium-high torque transmission is required.

ZERO-BACKLASH



TRASCO® ES

- Absorbs shocks and vibrations through an elastomeric ring in different hardnesses
- Also suitable for axial or blind mounting
- Available in clamp hub design and shrink disc execution

ZERO-BACKLASH



SERVOPLUS®

- Maintenance-free high torsional stiffness bellows coupling.
- Operating temperature up to 300 °C
- Clamp hubs
- Innovative modular design
- For infinite number of cycles

ZERO-BACKLASH



SERVOMATE®

- Disc pack coupling with high torsional stiffness.
- Compact design
- High torsional stiffness
- Available with single or double disc package
- Clamp hubs



TRASCO®

SITEX® / SITEX® FL / SITEX® Nylex

UNIVERSAL JOINT

JUBOFLEX®

BOLT COUPLINGS

TRASCO® ES

SERVOPLUS®

SERVOMATE®

SAFEMAX®

METALDRIVE®

SITEX® ST



TORQUE LIMITER



SAFEMAX®

- Zero backlash torque limiting system for direct or indirect transmission.
- Available in combination with TRASCO® ES, SERVOPLUS® or SERVOMATE®
- Quick release (1-3 ms)
- Low inertia moment
- Axial mounting (if desired)

HEAVY-DUTY APPLICATIONS



METALDRIVE®

- Steel disc coupling, suitable for maintenance-free applications even at high speed.
- Backlash-free, torsionally stiff
- Maintenance-free
- Operating temperature up to 300° C
- Allows axial, angular and radial misalignments
- Available according to API610 and API 671
- Available with carbon fiber intermediate shaft

HEAVY-DUTY APPLICATIONS



SITEX® ST

- Steel toothed coupling for applications requiring high operational reliability.
- High transmissible torques
- Very long service life
- Requires lubrication
- Also available in the version compliant with AGMA standards
- Suitable for horizontal applications



LOCKING DEVICES

SIT has created its own product line of SIT-LOCK® shaft-hub locking devices.

SIT-LOCK® Keyless Locking Devices

For more than 40 years SIT has been designing, developing and manufacturing the widest range of SIT-LOCK® friction shrink discs ideal for any shaft-hub connection application.

They can secure any hub body (flywheels, pulleys, chain wheels, gears, levers, couplings, etc.) by simply tightening the screws, develop a radial force on the shaft and hub that extends over the entire contact surface.

Available for shafts from 5 mm to 980 mm.

- Enable reduction in assembly costs
- Ideal for state-of-the-art applications
- They allow precise axial and angular positioning
- Ideal for applications with high acceleration and deceleration
- Zero backlash
- Ease of assembly and disassembly

INTERNAL LOCKING DEVICE SELF-CENTERING



SELF-CENTERING SIT-LOCK®

SIT-LOCK® internal and self-centering SIT-LOCK® locking device do not require a centering base between the shaft and the hub, thus allowing hubs of reduced width with consequent material savings and cost reductions.

They include SIT-LOCK® 3, 4, 4A, 5A, 5B, 6, 7, 8, 12, 15, 13, 16, 18.

INTERNAL LOCKING DEVICE NOT SELF-CENTERING



NOT SELF-CENTERING SIT-LOCK®

SIT-LOCK® internal non-self-centering SIT-LOCK® locking device require a centering base between the shaft and the hub.

They include: SIT-LOCK® 1, 9, 2, 10.

SHRINK DISCS



SHRINK DISCS SIT-LOCK®

Shrink discs SIT-LOCK® are ideal for high torque applications.

They include:

- SIT-LOCK® 11
- SIT-LOCK® 14



SIT-LOCK®

SERLOCK®

SER-SIT®



SERLOCK® SELF-LOCKING BUSHING

Innovative locking system for all power transmission components designed for taper bush.

- Zero backlash
- Quick and easy to mount
- Eliminate the cost of additional machining



SER-SIT® TAPER BUSHING

Allow assembly and disassembly of pulleys (and also of numerous transmission components) in a very short time without the use of special tools other than a hexagonal wrench.

BEARING UNITS AND ROD ENDS

ASAHI® bearing units, Japanese production, are used in various applications. Their construction includes an exclusive locking pin that allows self-alignment and prevents the rotation of the outer ring, thus increasing the service life of the installation. The range is one of the largest worldwide and includes bearing units with cast iron, stainless steel and stamped sheet metal bodies. Bearing units designed for the insertion of a protection cap, as well as for high-temperature applications and very heavy radial loads are available.

BEARING UNITS FOR GENERIC APPLICATIONS



Bearing units with CAST IRON body

High machining quality and accuracy ensure maximum reliability and durability in any application, even the most severe.

- Wide range of designs
- For 12 mm to 140 mm shaft diameters



Bearing units with SHEET METAL body

With stamped and galvanized sheet metal body for low-load economical applications.

- For 12 mm to 35 mm shaft diameters

BALL JOINTS AND CONNECTING ROD ENDS



JOINT ARTICULATIONS

Ball joints and connecting rod ends with bronze, teflon or steel on steel insert. Steel on steel or steel on aluminium 90 degree ball joints. Weld-on ends for hydraulic cylinders.

- High reliability
- Self-aligning
- Large offset angle allowed
- High load capacity
- Long service life

BEARING UNITS FOR CORROSIVE ENVIRONMENTS OR FOOD/PACKAGING INDUSTRY APPLICATIONS



STAINLESS STEEL bearing units

Ideal for applications in the food industry.

- Excellent resistance to corrosion
- Optionally supplied with FDA compliant grease
- For 12 mm to 50 mm shaft diameters



SILVER/STAINLESS bearing units

Featuring a special zinc alloy body and an AISI 304 stainless steel bearing, these assemblies combine maximum lightweight with quick and accurate mounting thanks to the marking of the centres.

- Very compact dimensions
- For 10 mm to 30 mm shaft diameters



BEARING UNITS WITH CAST

IRON BODY

BEARING UNITS WITH SHEET

METAL BODY

STAINLESS STEEL BEARING

UNITS

SILVER/STAINLESS BEARING

UNITS

JOINT ARTICULATIONS

MOTOR BASES

ANTIVIBRATION MOUNTS



ACCESSORIES



MOTOR BASES

- COMPATTA (size 80 ÷ 225)
- VAREX (size 56 ÷ 132)
- LINEA (size 56 ÷ 400)
- TV909/910 - longitudinal slide
- TB911 - tilt slide



ANTIVIBRATION MOUNTS

SIT-PAULSTRA elastomeric mounts control and isolate noise, impacts and vibrations to provide ideal conditions for the operation of machines and equipment, extending their service life and protecting the environment.

- Extremely wide range for industrial and civil uses
- Rubber-metal solutions
- Metal solutions

HIGH-PRECISION SERVO REDUCERS

Nidec Shimo's range of servo reducers is designed to provide maximum flexibility and ease of configuration. SIT supports applications with a team of experts in the development of new applications as well as interchangeability with existing ones. The product ensures high reliability and top of the market performance.



COAXIAL EPICYCLOIDAL REDUCERS VR Series

Noiseless, low backlash, high efficiency, compatible with all servomotors.



EPICYCLOIDAL REDUCERS WITH RIGHT ANGLE EVOGEAR Series

High performance and compact design due to planetary technology combined with a hypoid stage.



FLEXWAVE REDUCER

Elastic deformation, lightweight, zero backlash and compact, ideal for the robotics industry.



FLEXWAVE WITH INTEGRATED MOTOR

A combination of a Flexwave elastic deformation gearbox and a brushless DC motor. A very slim solution suitable for applications requiring a combination of power, compactness and precision.



MOTO-REDUCER FOR AGV

Complete motor and gearbox solution for applications such as AGVs and automated shuttles. Ultra-compact, flexible technology with a wide range of types.



TRACTION DRIVE

Roller reduction system (gearless): minimizes vibration and noise, ensuring a steady rotating motion.



COAXIAL EPICYCLOIDAL

EPICYCLOIDAL WITH RIGHT ANGLE

FLEXWAVE

FLEXWAVE WITH INTEGRATED

MOTOR

MOTO-REDUCER FOR AGV

TRACTION DRIVE

POWERGEAR

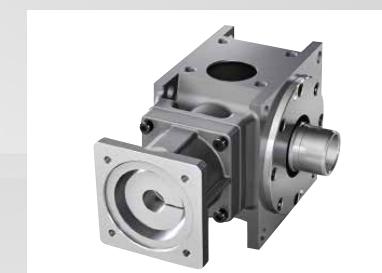
DYNAGEAR E DYNAGEAR ECO

RACK AND PINION



POWERGEAR REDUCER

Right angle gearbox with compact and rigid design for maximum performance, space-efficient and precise. Flanged version, with solid or hollow shaft.



DYNAGEAR E DYNAGEAR ECO HYPOID REDUCERS

Compact and rigid design for maximum performance, dynamic, compact and versatile. Wide range of versions and sizes.



HIGH PRECISION RACK AND PINION

Very compact and precise transmission system with low inertia. Rack and pinion with helical teeth for series mounting.

SIT-MODUTECH® MODULAR BELTS AND CHAINS

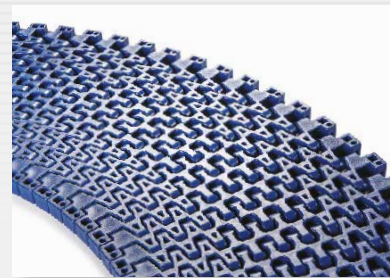
SIT modular belts and chains are used in a broad range of transport and conveying applications. Thanks to their modular structure and variety of designs, they are available in virtually any length and width. They feature high resistance to corrosion and abrasion combined with handling synchronization.

Designed and manufactured in compliance with the highest quality standards as well as FDA and EU standards.



STRAIGHT CONVEYOR BELTS

Available with pitches ranging from 1/2" to 2" in a wide array of designs for any application, from food handling to heavy-duty conveying. Available in different materials depending on the application.



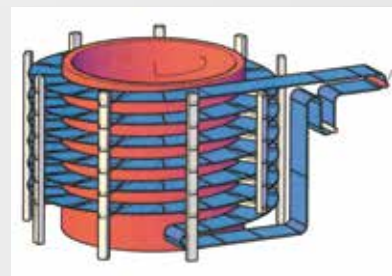
CURVED CONVEYOR BELTS

Designed for curved conveying paths. Also suitable for straight paths. Wide range of curvatures starting from 1,4 m. Available in different materials depending on the application.



CUSTOMER PRODUCTS

The expertise in plastic molding of one of its group companies, SIT can offer the development of special parts to customer specifications.



SOLUTIONS FOR SPIRALS

Modular belts for spiral applications such as refrigeration tunnels, cooking and many others.



FLIGHTS AND SIDE WALL

Wide range of flights and side wall in different heights, materials and designs.



SPROCKETS

In addition to a range of stamped sprockets, SIT can supply specially made sprockets in different materials, designs and numbers of teeth.



STRAIGHT CONVEYOR BELTS

CURVED CONVEYOR BELTS

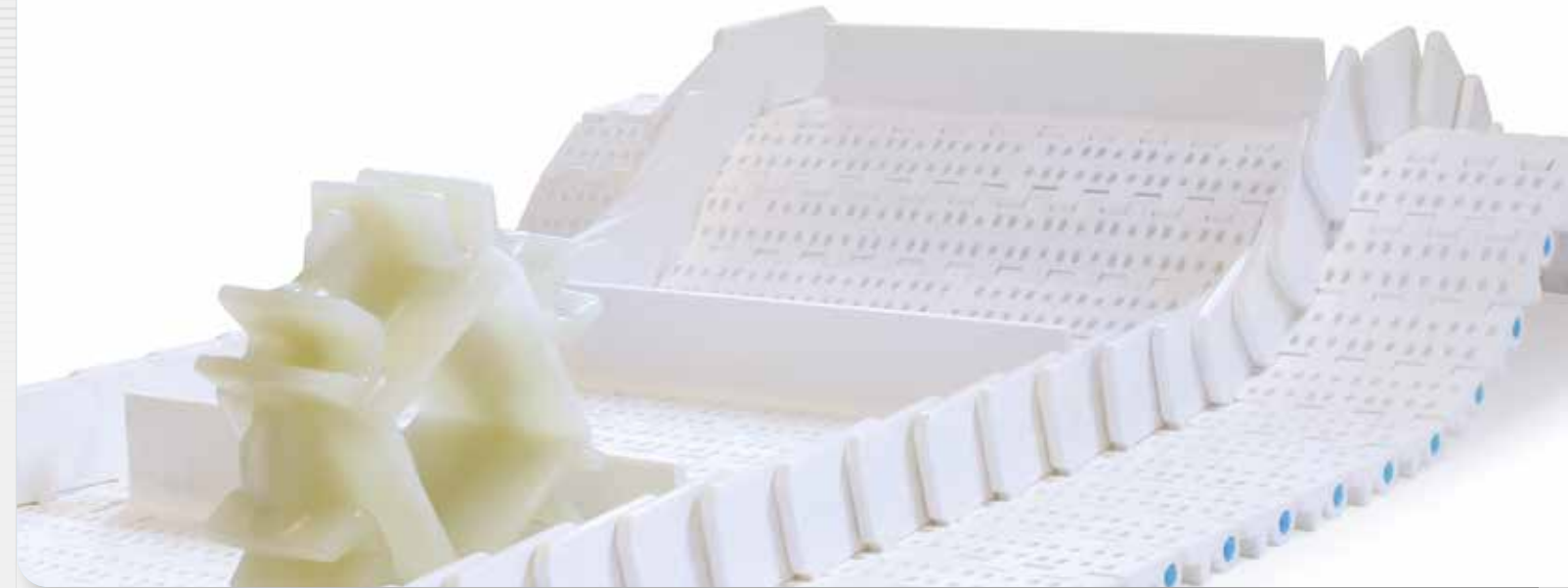
CUSTOMER PRODUCTS

SOLUTIONS FOR SPIRALS

STRAIGHT CHAINS

SPROCKETS

iBlue MONOLITHIC TPU BELTS

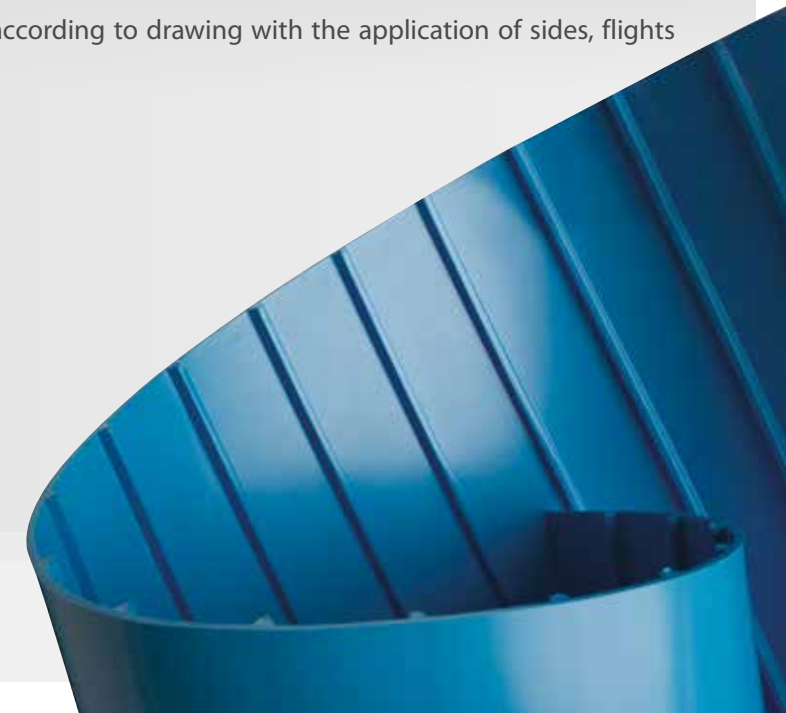


MONOLITHIC TPU BELTS



i-Blue BELT

Available in executions: smooth, synchronous 1" and 2" pitch. The peculiarity of being produced directly in a single step (monolithic) an extreme easy and quick sanitization, making it suitable for food uses for which strict hygiene is required. Can also be supplied according to drawing with the application of sides, flights and centering guides.



SPROCKETS, PLATE WHEELS AND CHAINS

SIT S.p.A. high-performance chain drive systems are used in a wide range of industrial applications. They meet and exceed ISO wear and fatigue resistance requirements. With a wide range of products and a high production capacity, SIT offers innovative and customized solutions.



ES ELITESYSTEM® STANDARD CHAINS

High resistance to wear and fatigue.
Wide and comprehensive range in compliance with ISO 606, up to pitch 2".



IWIS CHAINS

With more than 100 years of experience in the industry, iwis is today a leading partner in quality chain solutions.



SPECIAL CHAINS

A wide range of special chains for conveying, accumulation and lifting applications can be supplied upon request.



ES ELITESYSTEM®

STANDARD CHAINS

IWIS CHAINS

SPECIAL CHAINS

SPROCKETS

PLATE WHEELS



SPROCKETS

- ISO series simple/double/triple sprockets
- ASA series simple/double/triple sprockets
- Hardened sprockets with finished bore
- Hardened sprockets with pilot bore
- Stainless steel sprockets
- Sprockets for SER-SIT® taper bush
- Idler sprockets with ball bearing
- Special design sprockets



PLATE WHEELS

- ISO series simple/double/triple plate wheels
- ASA series simple plate wheels
- Double plate wheels for two chains simple
- Plate wheels for transport chains
- Special design plate wheels



DRIVE
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