

# Siccit®

**Universal joints and propeller shaft  
for automotive  
and heavy duty application**



company

# for those who demand the best

**Sicit** has been a **trusted partner** in the field of cardan shaft mechanical transmissions for 60 years, furnishing both **complete transmissions** and **specific components** for applications:

two very different worlds,  
each with specific requirements

**automotive sector**, **commercial vehicles** and **trucks**, **heavy industry** for demanding applications such as paper mills, rolling mills, railways, naval, etc.



company

# Respect for **Tradition** A leap forward in **Quality**

**1953**

machine shop for the  
production of **universal  
joints**

**1975**

**major investments  
in machinery,  
training and safety  
of personnel,  
Studies and Design  
office**

**Today**

**Applications of the  
entire cardan shaft  
transmission also in  
the industrial sector  
have been developed.**

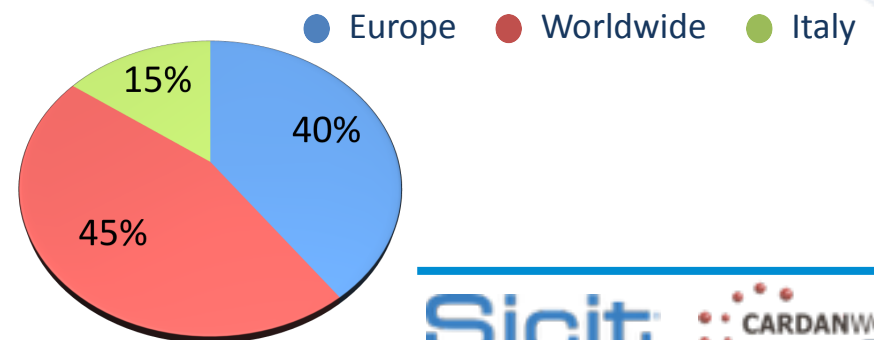
markets

## Sicit products **worldwide**

**Sicit** products are present in 40 countries.

Our efficiency and selling effectiveness is shown by our timely service in every country, from Italy to New Zealand.

Our sales network is direct and only in some cases we have intermediaries.



quality

## Blue Box

maximum **attention to service** and  
**continuous improvement:**

**Sicit Blue Boxes** travel round the world in  
record time, always ready to ...  
set movement in motion!





company

# Tomorrow, here and now



Backed by the experience acquired on the international markets and its specific technical expertise, the company has broadened its range of universal joints, extending application to industrial sectors such as paper-making, marine, steel-making, railway, energy (wind turbine-hydroelectric), **certain of continuing to meet customers' requests... as in the last 60 years!**

quality

# Achievement of the **ZERO Defects** target



- product manufacturing processes are strictly controlled and supported by documentation
- all machinery is refurbished according to latest generation standards
- The controls cover product chemical-physical and dimensional standards.
- certified materials and semi-finished parts.

certification

# Customers quality is our quality!



The **Sicit** Quality Management System complies the requirements of the **ISO 9001:2015** standard as regards the production of universal joints for cardan shafts.

Efficient, effective management of company processes, manufacture of the product and delivery of the service

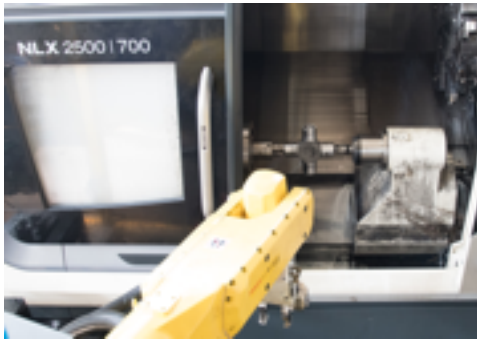


# development

Customer satisfaction measured at international level confirms both the enthusiasm and commitment of the **Sicit** team. :

Investments in machinery and cutting-edge technology

- improved organization of resources and development
- top flight quality, expertise and fast response



# environment

**Sicit** is attentive to the environment:  
future generations will inherit our world.



We, therefore, dedicate maximum attention to managing industrial waste and our processes are designed to minimize waste and rejects.

services

## Our processes

Acquisition of the customer's specifications



Any design or customized co-design



Systematically controlled and verified production process on the basis of targeted control plans



Production monitoring by barcodes and dedicated software systems to optimize the supply chain management



A precise, efficient delivery service



Continuous analysis and improvement of performance



product range

## 6 Product lines

- Universal joints for cars, commercial vehicles and industrial vehicles (A.M.)
- Universal joints for industrial uses: iron and steel plants (rolling mills), railways, shipbuilding, paper mills, earth moving, drilling, agriculture and green energy
- Differential universal joints for differential groups (O.E.M.)
- Roller bearings
- Supports
- Cardan shafts for automotive and industrial applications



# Engineered for a wide spectrum of application...



Sicit

CARDANWORKS  
by Sicit



Engineered for a wide spectrum of application...





product range

## Unlimited variety of products...

**...U joint sizes from 19 mm to 154 mm...**

**... propeller shaft - flanges from 78 mm to 840 mm**

**Unlimited variety of products...**

**...as individual as its application...**



**Sicit**

**CARDANWORKS**  
by Sicit

**Unlimited variety of products...**

**...with torque capacities exceeding 3.000.000 Nm...**



**Unlimited variety of products...**

**...flanges from diameter 75 mm up to 840 mm  
in advantageous closed eye design**

DIN



SAE



CROSS  
SERRATED



DIN with  
FACE KEY



HIRTH  
SERRATION



INTEGRAL  
FACE PAD



other kind of connections on request

# Unlimited variety of products...

## Basic cardanshaft types...

**CS**



Cardan shaft with length compensation

**TS**



Tube shaft, without length compensation

**SC**



Short couple shaft with length compensation, no tube

**ITS**



Intermediate shaft, tubular version

**DCS**



Double flange design

**TS**



Tubular shaft, double flange design

**MS**



Midship shaft

**DL**



Consisting of more than one shaft

...other configuration on request



# "The whole is more than the sum of its parts."

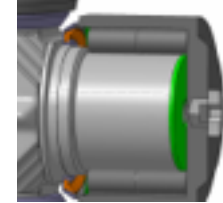
## 1. High capacity splines



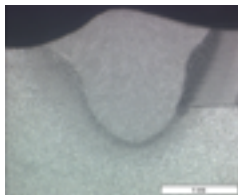
## 2. Precisely dynamically



## 3. High performing Universal Joints



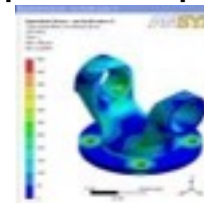
## 5. HQ-weld-seams



## 6. Engineered, manufactured and serviced by the CARDANWORKS division of



## 4. Powerful designed and precise components





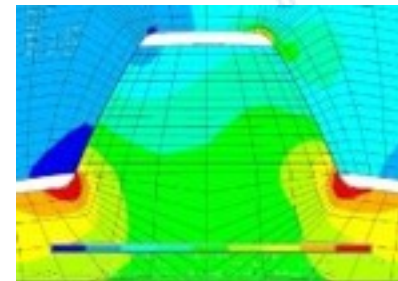
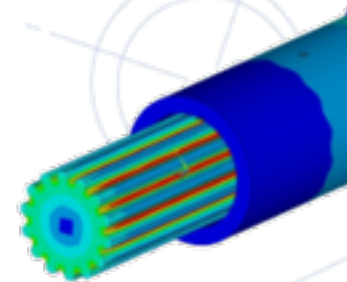
# 1. High capacity splines

**Latest Italian precision in manufacturing combined with German research & engineering know how.**

**1. Rilsan coated splines**

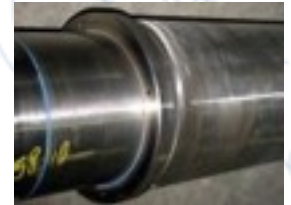
**2. Steel on steel splines**

**3. TOPSPLINECOAT**



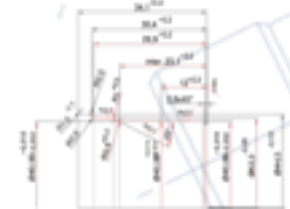
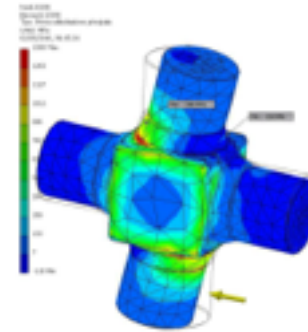
## 2. Precisely dynamically balanced

1. High precise machined and finished components
2. Accurate assembly process
3. Welding and succeeding straightening process
4. Balancing on computer controlled balancing machines
5. Result: A **CARDANWORKS** by **SICIT** shaft



### 3. High performing Universal Joints ... a definition by 7 steps:

1. Design & **engineering**
2. Specification of tolerances and precision
3. Selection of most suitable material
4. Equipped with 1. class bearing caps
5. Forging & adequate **heat treatment**
6. Precise machining & accurate quality control
7. Technical support & application engineering



Inspection Certificate			
Part Name	UNIVERSAL JOINT	Material	42CrMo4
Part Number	1000000000000000	Material	42CrMo4
Part Name	UNIVERSAL JOINT	Material	42CrMo4
Part Number	1000000000000000	Material	42CrMo4
Part Name	UNIVERSAL JOINT	Material	42CrMo4
Part Number	1000000000000000	Material	42CrMo4
Part Name	UNIVERSAL JOINT	Material	42CrMo4
Part Number	1000000000000000	Material	42CrMo4



## 4. Powerful designed and precise components

... for a constant strive of product improvement

Example: UJ I330 95 x 216

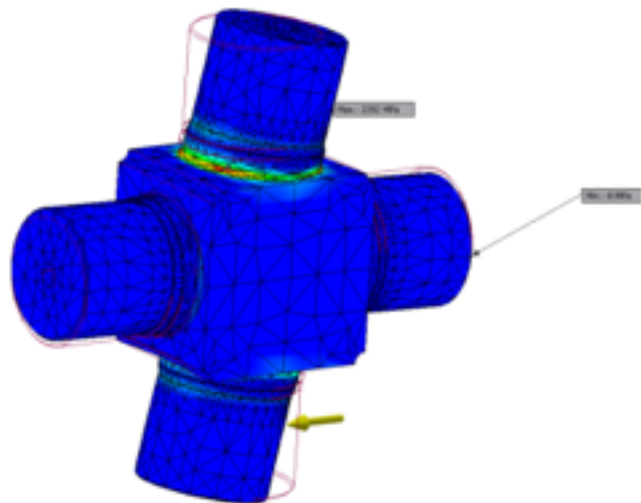
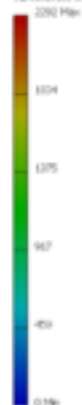
Increase of fatigue torque capacity by

**50%**

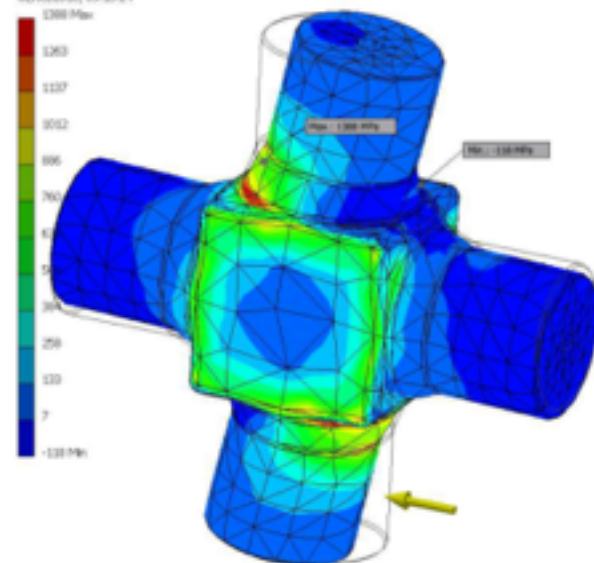
due to shape optimization

SELECTION OF Von Mises

Mod: 04889  
Element: 30025  
Tipo: Selezione di Von Mises  
Unità: MPa  
02/03/2005, 09:46:59



Mod: 20299  
Element: 32095  
Tipo: Prima selezione principale  
Unità: MPa  
02/03/2005, 09:25:24





## 4. Powerful designed and precise components

...some views from our production:



Sicit

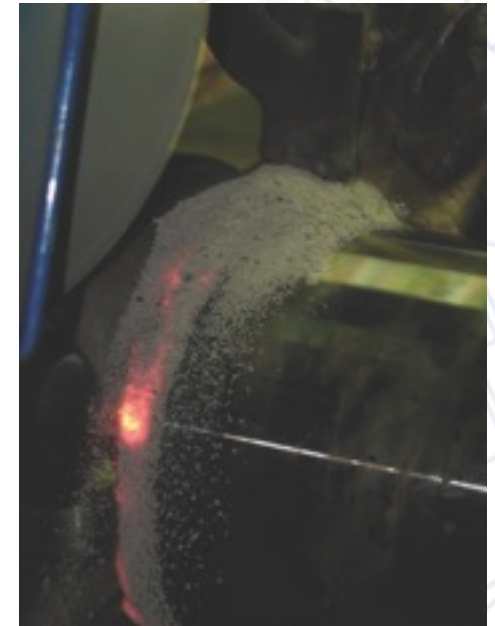
CARDANWORKS  
by Sicit



## 5. High quality weld seams

- MIG welding / Submerged arc welding for Heavy Duty Shafts
- selected materials and thermal heat treatment
- precise weld seam preparation
- accurate alignment of components and straightening
- optimal welding seams according ISO 3834
- tested and monitored welding parameters

Optional UT testing of weldings and components



**6. Engineered, manufactured and serviced by**

**...the CARDANWORKS division of**

**Sicit**

**Sicit**



The image features a hand in a dark suit sleeve holding a blue, segmented cardan shaft. The hand is positioned over a chessboard filled with black and white chess pieces. The background is white with faint, light blue technical drawings of mechanical components, including shafts and joints. The text "Your move..." is written in a bold, blue, sans-serif font in the upper right area.

**Your move...**

**...towards a perfect  
cardan shaft  
solution!**



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