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## LOOK OVER OUR NEW PRODUCTS AT ISH'13 - FRANKFURT

Tucaí participates once more at ISH Frankfurt from 12-16 March 2013. Our team will be happy to see you again at Hall 4.2 Booth E 05 and present the latest developments.

### TUCAI introduces its new range of DVGW-approved connectors

The new TAQ FLX range of DVGW-approved braided connectors covering DN6 through DN25 is unmatched in the market place in terms of flexibility and competitiveness.

TAQ FLX combines unique hygienic features together with flexibility in large diameters at a very competitive price.

The full range is designed to withstand the mechanical performance tests according to W543 and to comply with the highest hygienic requirements to KTW-A and W270.

*The best combination ever in the field of flexible connectors for Sanitary, Plumbing and Heating applications!*



Technical Information							
NOMINAL HOSE DIAMETER	DN6	DN8	DN10	DN13	DN18	DN20	DN25
W270 - KTW A	✓	✓	✓	✓	✓	✓	✓
W543 - DVGW	✓	✓	✓	✓	✓	pending	pending
⊘ Inner Diameter in mm.	6,5	8	10	13	18	20	25
⊘ Outer Diameter in mm.	10	11,5	14	17	24	28	33
BAR Working pressure in bar	10	10	10	10	10	10	10
🔄 Flow rate in L/min. at 3 bar	16	29	45	70	120	145	200
🌡️ Maximum temperature	90°C	90°C	90°C	90°C	90°C	90°C	90°C
Inner hose material	TPE	TPE	TPE	TPE	TPE	TPE	TPE
Braiding	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel
Sleeves	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel	AISI 304 Stainless steel
CONNECTIONS							
Nickel-plated Female fitting	✓	✓	✓	✓	✗	✗	✗
Nickel-plated Nipple	✗	✗	✗	✗	✗	✗	✗
Nickel-plated Male fitting	✓	✓	✓	✓	✗	✗	✗

Female fitting



Male fitting



Compression fitting



Smooth tube



Elbow fitting



Additional fittings upon request

## New PLATINUM Shower hose

**TUCAI launches a new shower hose-PLATINUM – to enlarge its Shower Hose range.**

The new PLATINUM Shower Hose is a universal coextruded tube (5 layers) with ACS, WRAS, KTW, listed PVC, reinforced with strong polyester strands. EN1113 certified.

Diameter: 8 x 14.8 mm.

Standard Length: 1'75 mt (all lengths on request)

End fittings: ½" knurled nut metal chrome plated x ½" conical nut metal chrome plated.

*Anti-twist system*



## TAQ SUPER TP

The new polyamide braided hose is an effective solution for water heaters. The polymer wire provides the highest resistance to corrosion. TAQ SUPER TERMO withstands a working pressure of 10 bar and temperatures ranging from – 20°C to 90°C.



## NEW WEBSITE

### TUCAI enhances its presence on the Internet

Coinciding with its 50th anniversary, the TUCAI Group announces the launch of a new, redesigned website to communicate its brand to Industry professionals.

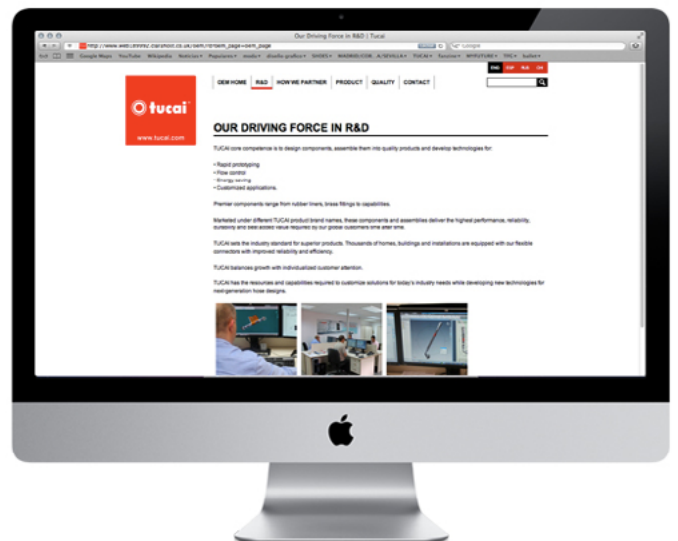
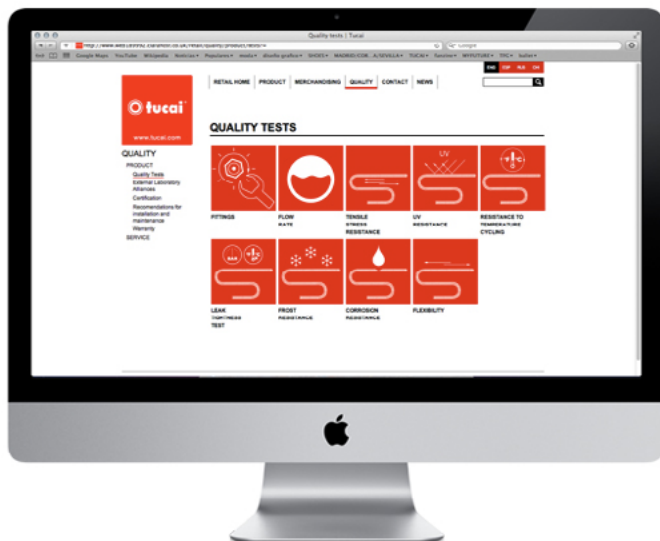
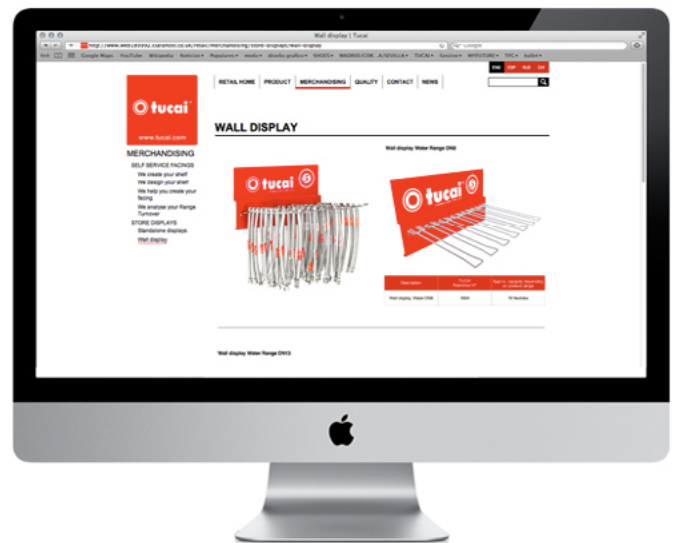
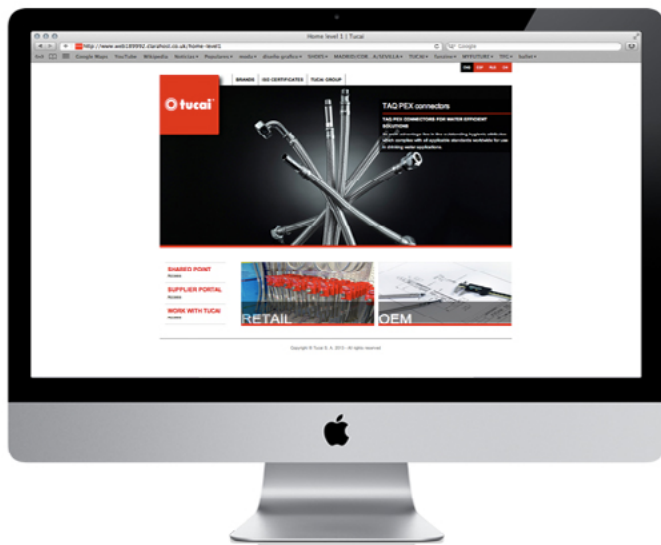
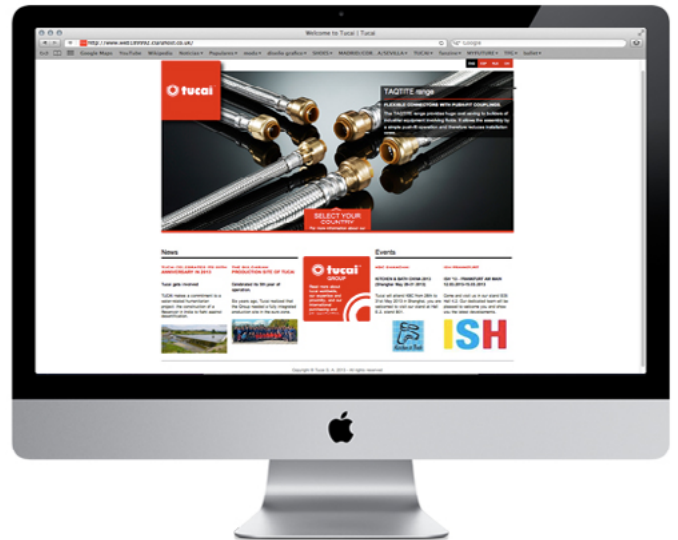
The changes made to the corporate image and the website's new design reflect the Group's innovation and globalisation-driven strategy.

The new website offers improved navigability, segmenting by product and user profile.

Initially, it will be available in four languages (increasing to eight in a second phase to be completed in September 2013).

The Newsletter will keep users informed of all the activities organised by the Company and new product launches.

The TUCAI Group is committed to enhancing its presence on the Internet.



## 50th ANNIVERSARY TUCAI ANANTAPUR HUMANITARIAN PROJECT A question of values



**TUCAI celebrates 50 years since its foundation in 1963 and gears up to fight against desertification with a water-related humanitarian Project.**

Solidarity is one of the values of TUCAI Corporate Culture. In addition to the purely financial sponsorship of the Company Management, to support the construction of a reservoir, a humanitarian action was set up in last December to facilitate donations across all Group employees, Customers and Suppliers in order to provide parallel support.

This initiative will try to improve the living conditions of the Anantapur population, especially in the field of Education and Healthcare. The program has already raised support that will help fund one parallel project.



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©Nagappa

Water is an increasingly scarce natural resource and TUCAI Management decided to pay tribute to it because it has given success to its people over the last 50 years. Raising awareness about this problem and implementing actions that can little by little help these populations have also convinced the Group employees that they cannot remain passive.

Stopping the devastating desertification from which some of the districts in Andhra Pradesh suffer and convert these areas into cultivatable land in order for people to support themselves is one of the objectives of the Vicente Ferrer Foundation.

The average annual rainfall in the district of Anantapur is practically half of that in the rest of the state of Andhra Pradesh. Anantapur's proximity to the equator and its high temperatures have made the area in which the VFF

- Rural Development Trust works a semi-arid zone, the second driest in all of India.

In a district where 75% of the population depends on agriculture, droughts have a devastating impact among the poorest levels of society.

Thus, in 1969, the Foundation implemented a long-term environmental development plan which includes fundamental approaches to ensure the future of the region's families.

In this context, the construction of a reservoir in B.K. Samudram region supported by TUCAI has already begun. It can hold 53,000 m<sup>3</sup> of rainwater and it is located at a very short distance of the village of Pacharumekalapalli.

Improving agricultural productivity is crucial and our efforts will increase the amount of land under cultivation and the crop harvests to two per year.

It will help women who often take several trips every day to gather and transport water on their heads. It is a big handicap for them as they are removed from being able to better care of their children and get a proper education.



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Laying the foundation stone for the future Pacharumekalapalli reservoir project.

Company Committed to RDT Vicente Ferrer

## NEW EN 13618 STANDARD

### Flexible hose assemblies in drinking water installations



European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Last year, 2012, finally saw the publication of the different national versions of the EN 13618 standard, Flexible hose assemblies in drinking water installations. Functional requirements and test methods. This triggered the start of work on the real unification of the technical requirements for flexible hose assemblies.

This project began more than 16 years ago, and during all this time TUCAI has been actively involved in the successive working groups that have culminated in the publication of this common technical standard through the European Committee for Standardization (CEN).

Once the different national versions of the EN 13618 standard have been published, a period will begin during which this document will be adopted by the different product Certification Bodies in each country, and changes will be made to the products and the existing approvals to bring them to conformity to the new standard.

In this newsletter we want to explain the main implications that this new technical standard has for our product, to provide our customers and users with security and confidence during the transition process just beginning. The main implications are as follows:

In terms of the regulatory framework, the EN 13618 standard is a voluntary standard and it is not legally compulsory within the Construction Products Regulation, so the product should not be CE marked. This is largely due to the fact that the development of the standards and regulations for fitness of materials in contact with water is not harmonised at the European level.

In terms of the product itself, this standard introduces changes to the materials that can be used and these open up the possibility of better performing flexible hoses compared to those made from classic materials. One example of this is the polymeric materials for braiding solutions, since using special high resistance polymers (for example, the new TUCAI – TAQ TP range) allows for an improvement in resistance to corrosion and other chemicals. For this type of innovative solution, it is essential for the products to also be highly resistant to ageing caused by UV rays, in case of direct exposure to sunlight.

We also find changes to metal braiding solutions, through the introduction of a minimum quality standard, with stainless steel 1.4301 (EN 10088) being the minimum quality allowed for the manufacture of flexible hoses in accordance with standard EN 13618. Other metals are not allowed, and aluminium is specifically prohibited as a material under all circumstances. In terms of the fittings



and sleeves, only metals are allowed, with the exception of aluminium which is expressly prohibited too.

Similarly, the dimensions of the assemblies have been standardised in accordance with the current standard, at the measurements DN6 to DN25, with end fittings from G1/4 to G1-1/4 as a maximum. The dimensions and performance of the end fittings have also been standardised, generally increasing the current measurements available in the market (increasing the height of the nuts to provide a longer useful thread length, etc.), setting the minimum values for the tightening torque resistance, etc.

In terms of hydraulic performance, it establishes as a critical test the water hammer resistance test, a test of 200 cycles of pressure pulses from 5 to 50 bar, carried out at a temperature of 90°C, as well as the durability test of 50,000 cycles with pressure alternating between 5 and 30 bar, also carried out at a temperature of 90°C.

As a final summary of this first newsletter, we should highlight the need for an instrument such as this one, creating a high performance common technical standard, providing guarantee and security to the customers and owners of facilities. Compliance with these standards offers a guarantee of high quality, giving the product a long lifetime and ensuring its reliability.