Profile Status: Published

Technology Offer

LED driver remote-controlled (all-in-one) for street lighting

Summary

A Spanish SME, active in the area of lighting monitoring, has developed an innovative LED driver remote-controlled for street lighting. Unification of LED & driver in a unique box makes it a worldwide innovation. It can monitor and control luminaries in a remote and autonomous way to improve energy efficiency and consumption. It integrates wireless communication technologies. Commercial Agreements with technical assistance are sought with luminaries & lamps manufacturers for integration.

Creation Date	02 March 2016
Last Update	20 September 2017
Expiration Date	06 March 2018
Reference	TOES20160301001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/979a5e31-a890-4d2e-b4e6-5e60e83fa03d

Details

Description

Taking into account the needs of the lighting sector concerning to space problems, a Southern Spanish SME, very active in the area of lighting monitoring, has developed a novel technology that unifies the dimmers and the remote controllers in a single solution that can be integrated into a lamp.

This technology can monitor and control luminaries in a remote and autonomous way to improve their energy efficiency and consumption. It integrates wireless communication technologies to make possible these features.

This development includes several protections to extend useful life of the driver and luminary:

- Protection against hazard circuits, opened circuit and over tension. In case of led error, the driver automatically disconnects.
- Protection against over-heating.
- Driver auto-disconnect if ambient temperature is over 55 ºC.

Functionalities and features can be customised according to customer requirements.

Communications interface shows the following activation levels:

1. Driver led can work in non-remote monitoring way.
2. Linked to pre-programmed elements. Autonomous system.
3. Cloud solutions. It can be controlled the system and measures.
4. CMS (Control Management System): total control, measurement, interoperability.

This technology complies with the following security standards:

UNE-EN 61347-2-13 (devices for lamp control. Particular requirements)
UNE-EN 61347-1 (devices for lamp control. General requirements and security requirements)
UL8750 (Security standard for lighting Systems in USA)
UNE-EN 60950-1 (IT equipments. General requirements)

This technology complies with the following electromagnetic standards EMC (Electromagnetic Compatibility
/EMI (Electromagnetic interferences):

UNE-EN 55015; UNE-EN 61000-4-4;
UNE-EN 6 1000-3-2; UNE-EN 61000-4-6;
UNE-EN 61000-3-3; UNE-EN 61000-4-8;
UNE-EN 61000-4-2; UNE-EN 61547
UNE-EN 61000-4-3; UNE-EN 61000-4-11

This technology can be used for energy efficiency projects of public & street lighting, construction, civil engineering, airports, parkings facilities, Industrial facilities. ports, Smart Cities.

The Spanish SME is interested in getting in contact with lamps & luminaries manufacturers for commercial agreements with technical assistance in terms of integration of the technology into their lamps/luminaries. Technical support related to sensor / communications will be provided by the Spanish SME.

Advantages and Innovations

Advantages
* This new product solves different needs concerning to the space in luminaries and also about the lighting control.
* It is connected to the loop and is controlled by a digital signal 1-10V that is also used to power the driver.
* Compact design and electric features so it can be integrated in most of the existing luminaries.

Innovations
* The driver for LED and the remote control already exist, but the unification of both products in a single box is a novel concept.

* This development provides an integrative solution that allows lamp manufacturer to offer a complete product with remote control (On, Off and dimming) integrated.

* The communication between each lamp is made by radio frequency and customers could control each lamp with a cloud solution or with software installed in a physical computer.

Stage of Development

Already on the market

IPR Status

Trade Marks

Profile Origin

Private (in-house) research

Keywords

Technology

01001001	Automation, Robotics Control Systems
01002003	Electronic engineering
01003021	Remote Control
04007002	Lighting, illumination

Market

06007	Other Energy
07004008	Other consumer products
08002001	Energy management
08005	Other Industrial Products (not elsewhere classified)

NACE

J.61	Telecommunications
J.62.0.1	Computer programming activities

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2007

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The Spanish SME is present in Europe, Latin America (Chile, Brazil and Colombia), Morocco and Middle East.

Languages Spoken

English

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Type: Industry (Lamps and luminaires manufacturers)

Role:
Commercial agreements with technical assistance are sought with lamps and luminaries manufacturers. They will integrate the Spanish technology into their lamps/luminaries to strengthen innovation in their portfolio of products. The potential partner will be provided with technical support related to sensor / communications by the Spanish SME.

Type and Size of Partner Sought

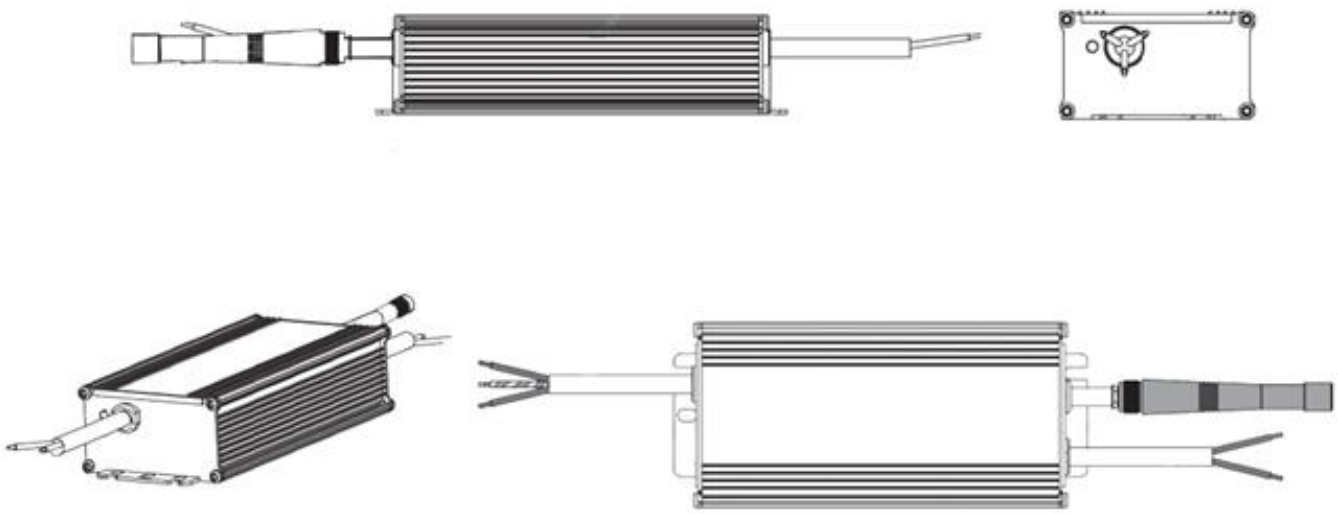
SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

Several views.jpg



General view plus APP.jpg



Dimensions.jpg

DRIVER	A	B	C
35W	174	75	40
50W	174	75	40



Profile Status: Published

Technology Offer

Technology programme for additive manufacturing (3D printing) of polymers, metals and ceramics

Summary

A Dutch research institute has founded a knowledge centre that offers a technology programme for Additive Manufacturing (AM, 3D printing) of technical parts in metal, polymer and ceramics. The technology is capable of predicting and achieving the right microstructure and homogeneous properties in the final material, and works directly from Computer Aided Design (CAD) data. The institute is looking industry partners for commercial agreements with technical assistance.

Creation Date	29 August 2016
Last Update	29 August 2017
Expiration Date	04 March 2018
Reference	TONL20160809001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/cf0e1619-d4da-4b8b-a0de-4d3b74267bd3

Details

Description

This Dutch research institute has a long history in scientific and technological research and development in several fields of expertise. Now they have joined forces with one of the leading Dutch technnical universities, offering a program that builds on the existing expertise of the university and the institute in additive manufacturing.

3D printing is complex because the microstructure of the material needs to be well understood in order to guarantee the homogeneous mechanical properties and structure of parts. Certification of 3D printed parts is therefore an additional developing theme.

The offered technology program will develop new multi-material/multi-technology additive manufacturing concepts and the integration of these technologies in mass-customization manufacturing chains. It brings additive manufacturing from prototyping to industrialization, with emphasis on cost-effectiveness while maintaining flexibility, stability and reliability in the manufacturing system.
• high-speed / continuous AM technology (speed capabilities and single pass deposition)
• in-line metrology technologies

What partners gain by joining this technology program:
• an efficient method to determine optimum processing parameters;
• a database with design values;
• additive manufacturing design guide lines, methods and tools;

• a cost model for additive manufacturing products;
• knowledge of post-processing for (metal) additive manufacturing: powder removal, heat treatments, surface finishing;
• material qualification and process certification methodologies for additive manufacturing;
• optimized technology demonstrators;
• insight in opportunities, technical and economical;

Joining this program helps to:
• prevent fragmentation of research and achieve exchange of knowledge between industry, academic and applied knowledge organizations;
• prevent long and expensive learning curve and high scrap rate;
• make reproducible parts with reliable material properties;
• make use of well accepted certification methods.

It is anticipated that within four years, 25 PhD student research assistants will be undertaking research and that more than 50 full-time professionals will be involved in the centre. Soon 7 PhD student research assistants will begin work and at the institute around 30 people are already working in this field.

The centre aims to collaborate intensively in R&D with industry, the goal being to have dozens of industrial partners participating in research programs in the coming years. The program targets industrial partners with high-tech, 3D printed electronics, food/pharma and medical-related markets with spin-off to other markets that require personalized, customized, on-demand manufacturing, for cooperation within the frame of commercial agreements with technical assistance.

Advantages and Innovations

Compared to traditional manufacturing techniques, additive manufacturing:
- opens opportunities to create parts with complex structures, without additional or dedicated tooling directly from 3D CAD data.
- even shapes that cannot be created with traditional machining processes can be attained.
- high design freedom, desired to reduce assembly steps and to achieve lightweight constructions, is realisable.
- hollow parts that currently need to be machined from one piece for the mechanical properties, can be manufactured with less waste and – in the future- shorter time.
- prototyping and low-volume markets (e.g. medical and space related applications) can be servedm, because for these markets one-offs or low quantities are required.

Compared to other technology partners, this institute holds a specific technology position and also a special knowledge position. And it has an explicit objective to transfer this knowledge to SMEs, which makes them very accessible.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Profile Origin

National or Regional R&D programme

Keywords

Technology

02001001	3D printing
02007003	Ceramic Materials and Powders
02007010	Metals and Alloys
02007011	Non-ferrous Metals
02007014	Plastics, Polymers

Market

05004004	Medical instruments
05004006	Surgical instrumentation and equipment
06001004	Equipment and instrumentation
07004001	Clothing, shoes and accessories (including jewellery)
09001005	Motor vehicles, transportation equipment and parts

NACE

C.22.2.9	Manufacture of other plastic products
C.23.4.4	Manufacture of other technical ceramic products
C.25.9.9	Manufacture of other fabricated metal products n.e.c.
M.72.1.9	Other research and experimental development on natural sciences and engineering

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

Materials

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1932

Turnover

20 - 50M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Netherlands

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: industry
- Specific area of activity of the partner: Mechanical design of high tech systems and components based on technical metal in e.g. sectors like: • Medical and dental • Watch and jewellery • (Petro)chemical • Aeronautics • Automotive • Electronics
- Task to be performed: Implementation of the proposed technology in the frame of a commercial agreement with technical assistance

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

Profile Status: Published

Technology Offer

Process and incident business management solution based on wearable devices and geolocation technology

Summary

A Spanish start-up has developed a solution that allows optimization and management of business processes and incidents by combining it with wearable devices and geolocation technology. The company is looking for commercial agreements with technical assistance.

Creation Date	03 March 2016
Last Update	18 December 2017
Expiration Date	10 March 2018
Reference	TOES20160303001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/3f04d4b3-3d8b-4c5f-bf1f-b2ded69b0489

Details

Description

Nowadays, every company is looking forward to control and optimize the performance of their workers/operators, especially those working remotely, such as many mechanics, experts, technicians, etc. Nevertheless, it is a difficult task to carry out since there are not competitive solutions in the market that can be applied to the most of the sectors.

Luckily, in the past few years innovative technologies such as wearable devices and geolocation have been developed. The Spanish start-up, which specializes in wearable technologies, has taken advantage of it by developing a platform tool that integrates smart glasses and Beacon technology with most of the enterprise software market solutions (BPM(Business Process Management), records manager, (EIM) Enterprise Information Management, etc. As a result it increases the process productivity, safety and control staff, legally certifying activities, reduce time and costs, improve response to incidents, standardize protocols, etc. (see diagram attached for further information).

When carrying out a process, the operator wears smart glasses with augmented reality and begins to work normally, providing the list of tasks, the order to work on them and if necessary, advising during each process with pictures, offering step-by-step videos of the task, live streaming video and drawings, photographs, or other supporting documents, connect with experts online at an event, etc. The glasses can scan materials, tools and location, providing audiovisual support with contextualized information in real time.
Optionally all tasks are likely to be recorded and registered, which helps in standardization of processes and activities, compliance with quality measures and certification activities.

The smart glasses are combined with iBeacons that implement the last generation Bluetooth 4.0 which allow to easily geotag machinery and operators within their perimeters of work. Through a console of employees and notifications, the company can optimize workflows with the help of smart glasses. This enables the optimum management of real-time priorities, work orders, and maintenance or quality assurance.

It also provides a valuable information such as:

- Materials inventory correction in real time.
- Better management of new activities or unplanned urgent tasks.
- On-ground assisted navigation with contextual information.
- Risk-control and monitoring of employees.
- Location and availability of employees.

The company is looking for IT integrators with experience in wearable devices willing to incorporate this technology with their solutions portfolio under commercial agreement with technical assistance.

Advantages and Innovations

-Higher productivity and efficiency: Empowerment in the management of information and its corporate registration systems, early detection of errors, increased process reliability, etc.

-Save in costs and improving service: online streaming with remote support that allows time-saving moving costs, located personnel and accessible from the central, better maintenance service, review or troubleshooting, reduced new operator training time.

-Standardization and validation: facilitating the "how-to" of protocols and processes in accordance with established rules, integrated with corporate systems, legal figure of the trusted third party.

-Security: operators work with "hands-free", safety in accidents and incidents, reduced errors with potentially dangerous tasks, etc.

-Flexibility: modular solution prepared for new types of records and processes or wearable devices without modifying the system.

-Monitoring and control: Registered activities can be audited.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

01003006	Computer Software
01003015	Knowledge Management, Process Management

Market

02007	Computer Software
09007005	Facility management companies

NACE

J.58.2.9	Other software publishing
M.70.2.2	Business and other management consultancy activities

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The company is looking for international IT integrators with experience in wearable devices in order to commercialize this solution within their area of influence.

The partner must be able to adapt this technology depending on the sector and typology of company in which it is deployed.

The kind of partnership sought is commercial agreement with technical assistance.

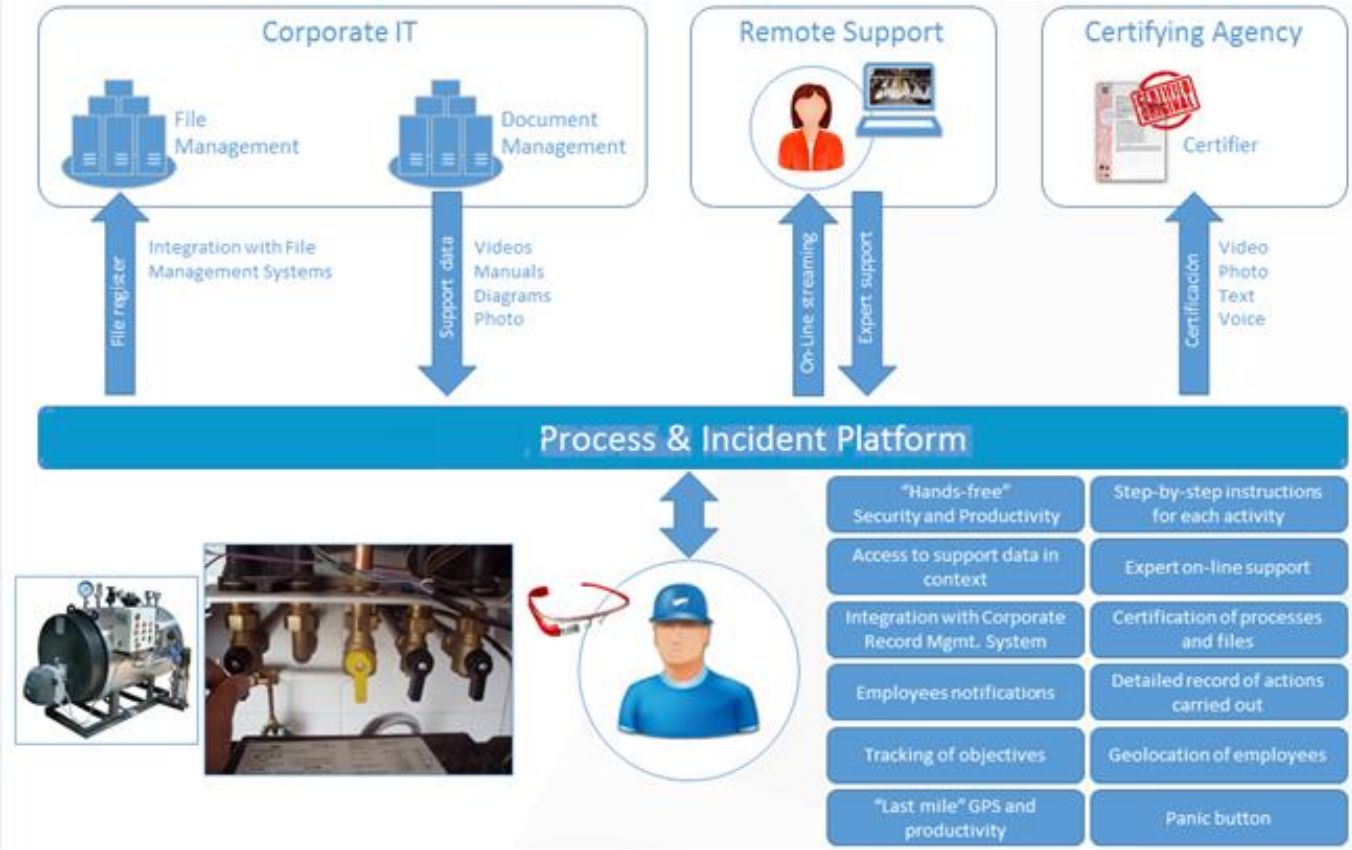
Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

foto 1.png

Partnering Opportunity



Profile Status: Published

Business Offer

Innovative lingerie company seeks agency/distribution/license agreements for unique maternity nursing bra

Summary

This UK garment manufacturer has developed an innovative maternity / nursing bra which focuses on the needs of pregnant and breastfeeding women. The company seeks agents/distributors across Europe and would also consider manufacturing their product under licence for large high-street brands.

Creation Date	14 February 2017
Last Update	21 April 2017
Expiration Date	05 April 2018
Reference	BOUK20170208001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e63004c9-dcb3-4814-ad5d-38fc4d72cf98

Details

Description

This UK based garment manufacturer has developed a maternity / nursing bra which addresses the problems associated with current fashion led bras.
The product is the result of a long R&D programme involving tests with professional technical teams within the industry and wearer trials by women pre and post birth. The product has IP protection.
The bra offers many innovative features with comfort and styling to satisfy the needs of new mothers during the pre and post birth phases of any pregnancy.
It is a non-wired garment made of soft cotton and offers adjustable cup sizes, which enables it to fit not only throughout the pregnancy, but also throughout breastfeeding period.
The company is seeking to develop commercial agreements with agents or distributors who will generate sales through retail clothing / lingerie stores.
The company currently has a listing with a number of retail outlets across Northern Ireland, the Republic of Ireland and with an online retailer.
The company would also like to examine the opportunities to manufacture the bra through licence for established lingerie brands that are looking to add a highly practical and effective maternity bra range to their range.
The management of the company have over 20 years experience in the clothing industry meeting customer demands.
A long term partnership is envisaged.

Advantages and Innovations

This innovative maternity / nursing bra is a unique design which provides an all-in-one solution with adjustable cup sizes, adapting to changing breast size during pregnancy and breastfeeding, ultimately providing superior comfort and fit. The bra can be adjusted quickly with one hand to adapt to the mother's changing body.
The product has been designed for a number of scenarios:
•To be used during pregnancy whilst breasts are very tender, when breasts and body are fluctuating in size.
•For breastfeeding mothers who need flexibility in terms of cup size before and after feeds.
•For breastfeeding mothers who are away from their child and don't have the opportunity to express or feed. A simple adjustment at the side of each cup will relieve any pressure or pain until you can either feed or express later.
The product has already been listed by one of the premier retail shops in Ireland.

Stage of Development

Already on the market

IPR Status

Design Rights,Patents granted

Keywords

Market

07004001	Clothing, shoes and accessories (including jewellery)

NACE

C.14.1.4	Manufacture of underwear

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

Phone Number

+39 0516398090

Email

vera.lullo@aster.it

Open for EOI : Yes

Dissemination

Send to Sector Group

Retail

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2012

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The preferred partners will be successfully trading as an agent or distributor in the maternity wear/nursery sector to retail clothing / lingerie stores. They should be able to identify demand and make connections for the product in their country with potential buyers.
The partner will host a meeting on their premises where details of any distribution/agency contracts will be discussed.
The company will provide marketing materials and support to the distributor/agent.
Lingerie brands seeking to include this product in their range under licence will have to demonstrate their experience and capability to market and sell the bra successfully.
The company is ready to enter a long-term distribution agreement for its products with the right partners.

Type and Size of Partner Sought

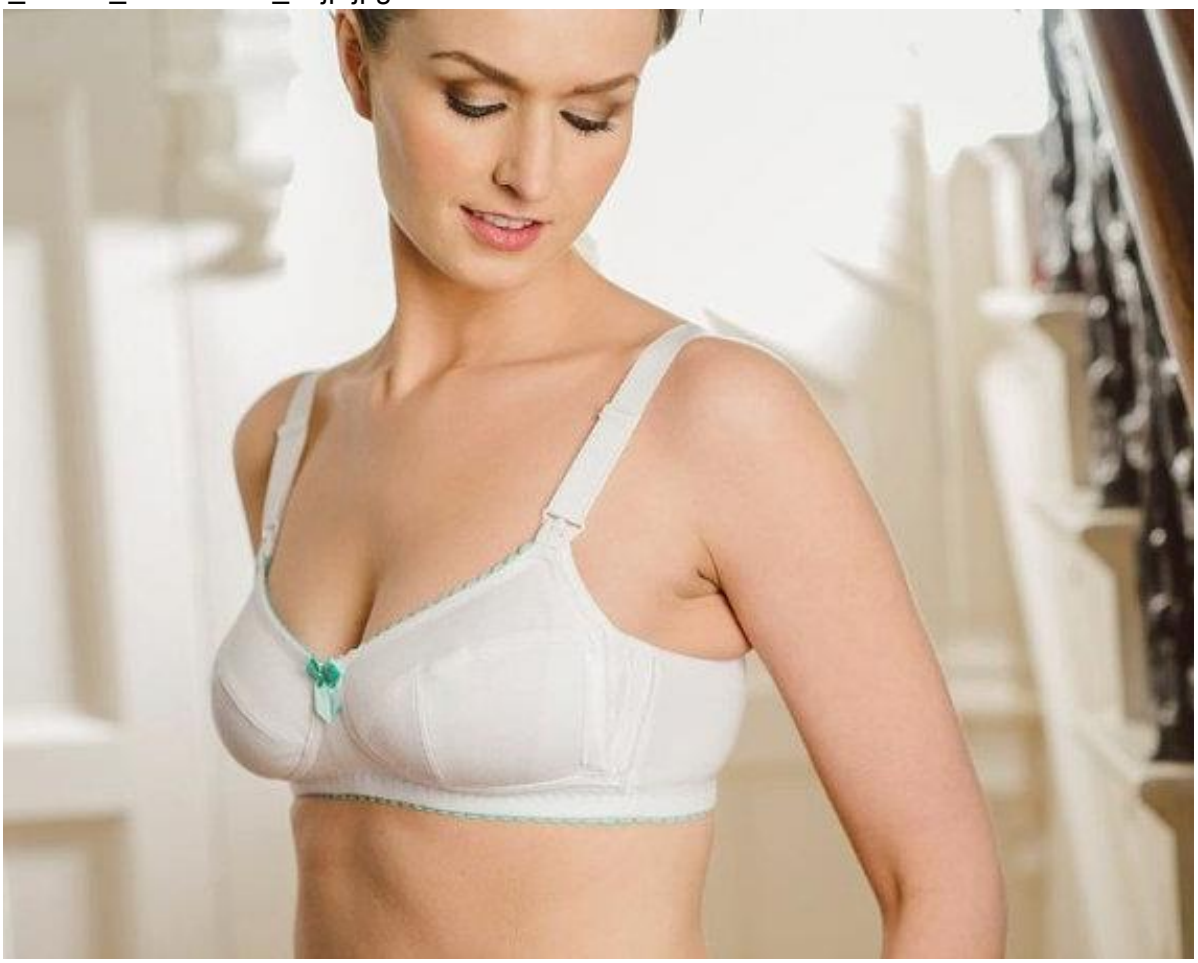
SME 11-50,SME <10,251-500,SME 51-250

Type of Partnership Considered

License agreement
Distribution services agreement
Commercial agency agreement

Attachments

il_570xN_580103580_76jp.jpg



il_570xN_580103558_s5u2.jpg

