



# THE COMPANY

**SPM Special Machine** is a young company from Milan (Italy) specialized in slip ring and cable reel.

The strength of the SPM is the twenty-year experience of Teem working in different industrial sectors (mining, marine and industrial, automotive and testing).

Thanks to their creative ability, the team over the years has revised all the products on the market in terms of technology, quality, reliability and safety, differentiating themselves from competitors with extremely different and effective solutions.







# Mission , Vision and Values

ENG

## MISSION

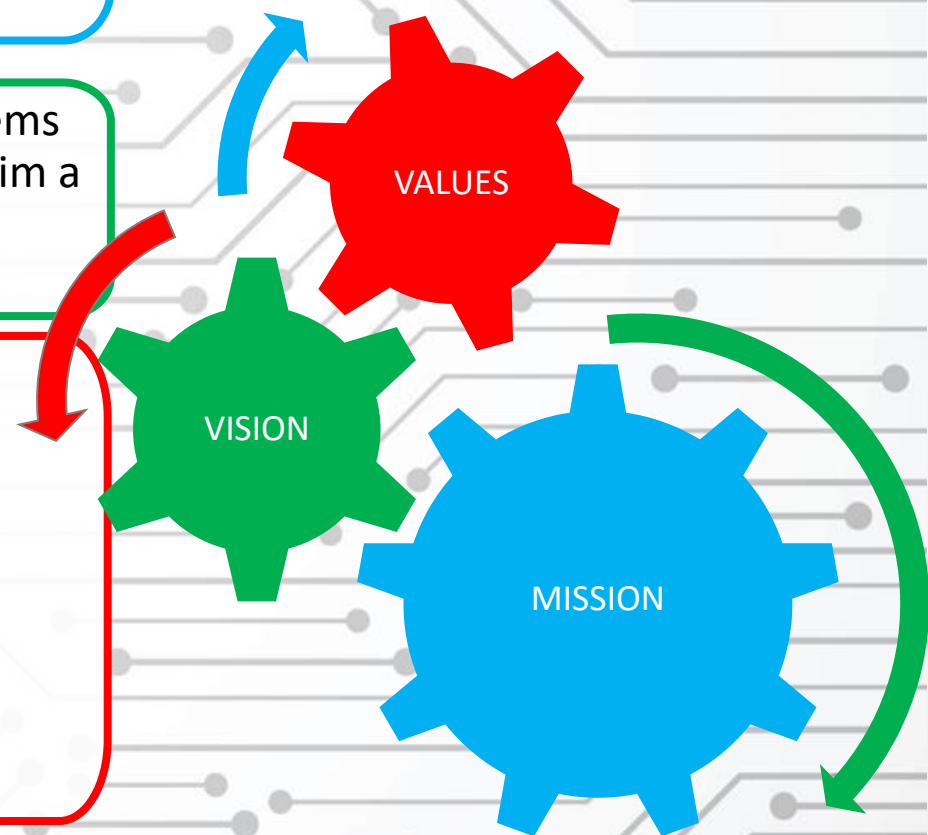
- Building devices and electromechanical systems, in an innovative way and with materials of excellence. The main business objective is that all products manufactured by SPM must function reliably and safely in hazardous and harsh environments in compliance with international standards.

## VISION

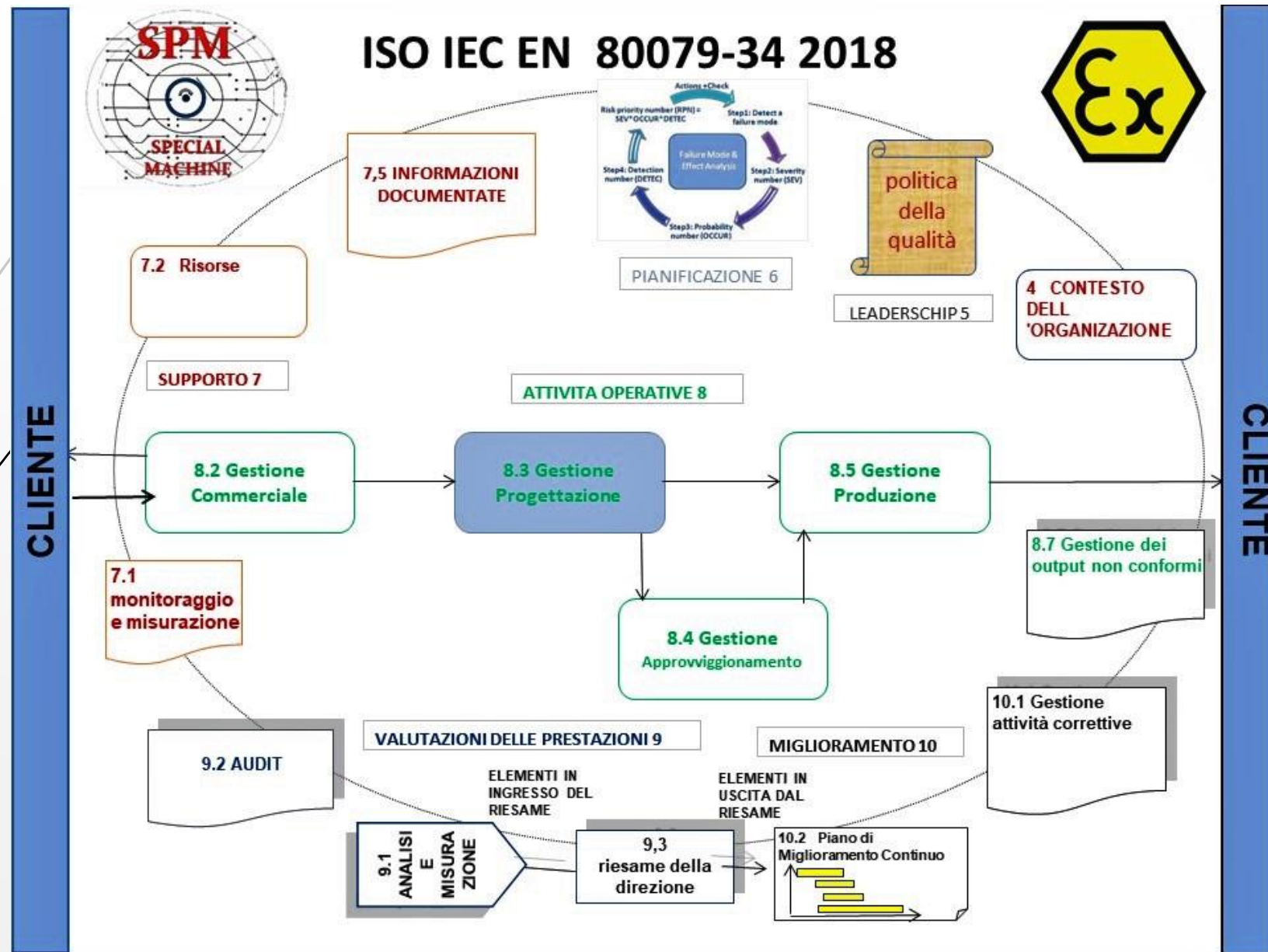
- Designing and building devices and electromechanical systems by focusing on customer needs, structuring together with him a vision of continuous improvement of the product and the service.

## VALUES

- Transparency;
- Professionalism;
- Continuous improvement;
- Customer satisfaction;
- The reliability;
- The responsibility;
- Innovation and creativity.



# The Quality System and production processes



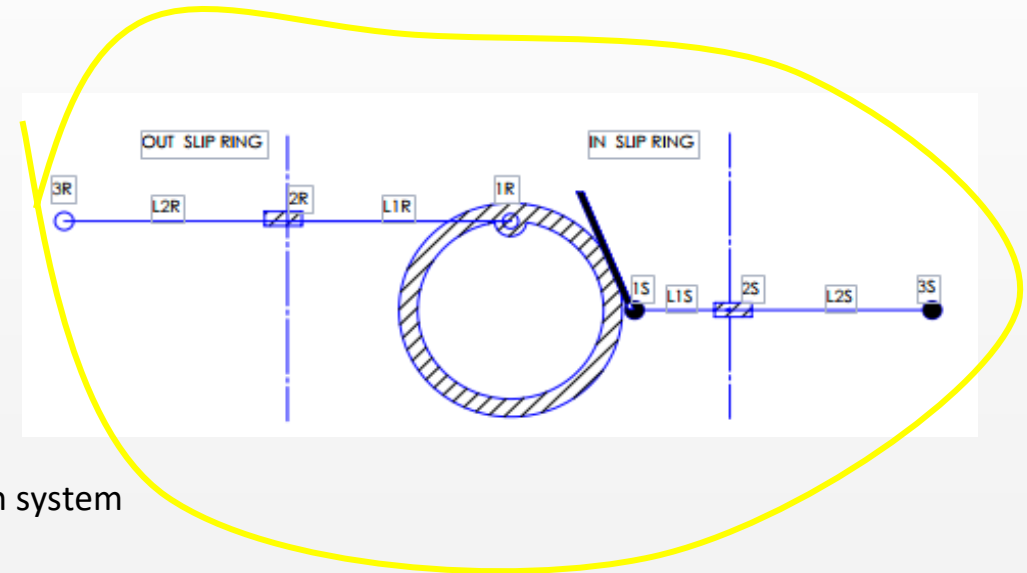
**CESI**  
0722



The leaf foil brush system is a particular brush that slides on a surface of a brass or bronze ring. It has the function of transmitting power electricity, analog and digital signals from a fixed point (brush) to a rotating mobile one (ring) (input = ring / output = brush)

The main advantages of the system are:

- 1) Compactness and constructive simplicity;
- 2) Ease of maintenance;
- 3) Low electrical resistivity values ( $0.2 < R < 6 \text{ mohm}$ )
- 4) Good values of the characteristic impedance of the ring / brush system
- 5) Low friction value (Good ring / brush smoothness).
- 7) Low overheating at the contact point.
- 8) Low overtemperature values of the terminals in case of failure
- 9) Rapid cooling in case of failure at the contact point





# OUR PRODUCTS



## EXPLOSION PROOF



**SHE-SREX150, SREX506, SCREX, MCREX, SERIES**



HYDRAULIC /ELECTRIC SYSTEM EXPLOSION PROOF

**SHE-SREX150 SERIES FENI**

SLIP RING EX db EN60079-1  
ROTARY JOINT EX n EN 60079-36/37

SEH ELECTRIC HYDRAULIC SYSTEM EXPLOSION PROOF

**SREX506 SERIES FENI**

SLIP RING EX db EN60079-1  
ROTARY JOINT EX n EN 60079-36/37  
JUNCTION BOX EX e EN 60079-7  
ELECTRIC INSTALLATION EN 60079-14



SPRING CABLE REEL EXPLOSION PROOF

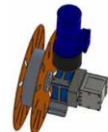
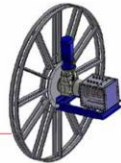
**SCREX SERIES FENI**

II 2G Exh IIB T5 Gb Tamb (-30+60)  
II 2G Exdb IIB T5 Gb Tamb (-40+60°C)

MOTOR CABLE REEL EXPLOSION PROOF

**MCREX SERIES FENI**

II 2G Exh IIB T5 Gb Tamb (-20+60)  
II 2G Exdb IIB T5 Gb Tamb (-40+60°C)  
2014/34 ALLEGATO III : TUV CY 18 ATEX 0206177X



MOTOR CABLE REEL EXPLOSION PROOF

**SCREX SERIES FENI**

II 2G Exh IIB T5 Gb Tamb (-20+60)  
II 2G Exdb IIB T5 Gb Tamb (-40+60°C)  
2014/34 ALLEGATO III : TUV CY 18 ATEX 0206172 X

## MARINE SAFETY

**SR400 IP66, SERIES**

Marine Safety

POWER SLIP RING

**SR400 IP66 SERIES**

In max = 600 A  
Vacmax = 4 kV  
DNV GL -RU-SHIP PTA CH.B Ed 2019 07



Marine Safety

ULTRA COMPACT POWER SLIP RING

**SR400 IP66 SERIES**

In max = 600 A  
Vacmax = 4 kV  
DNV GL -RU-SHIP PTA CH.B Ed 2019 07



**HYDRA IP67, SERIES**

Marine Safety

SPRING CABLE REEL HYDRA

**IP67 SERIES**



Marine Safety

SPRING CABLE REEL HYDRA

**AISI 316L IP67 SERIES**



## HELIX, MCR, OPS

**SCR ULTRA COMPACT IP66, SERIES**

Helix

SPRING CABLE REEL

**SCR IP66 SERIES**



**MCR OPS, SERIES**

MOTOR CABLE REEL

**MCR SERIES**



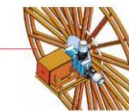
Electric Contact Slip Ring  
Patent Pending



PATENTED

POWER MOTOR CABLE REEL

**MCR SERIES**



VERTICAL MOTOR CABLE REEL

**MCR SERIES**

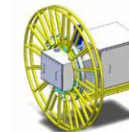


POWER CABLE REEL MEDIUM VOLTAGE

**OPS (on shore power supply) SERIES**

System description OPS

The OPS (On shore power supply) allows you to electrically connect ships stopped for repairs to shore, and to power them using the shore power network. In this way ships can switch off their auxiliary generators reducing polluting emissions and noise. The mobile structure is placed, using telescopic cranes, on the dock near the ship's power supply door.



## MACR, MCDR, SCRWS, SCR-SP, MHCR

**MACR, MCDR, SCRWS, SCR-SP, MHCR, SERIES**



MINE & EHART MOVING MOTOR CABLE REEL

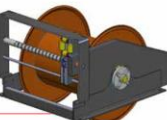
**MACR SERIES**

LOW VOLTAGE 06/1kV  
FOR MEDIUM VOLTAGE 3kV -38kV

MINE & EHART MOVING MOTOR HYDRAULIC CABLE DISTRIBUTION REEL

**MCDR SERIES**

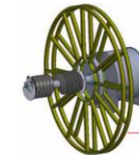
LOW VOLTAGE 06/3kV



SPRING CABLE REEL WITHOUT SLIP RING

**SCRWS SERIES**

APPLICATION:  
MULTI CABLE POWER /AUXILIARY  
CABLE OPTICAL FIBER



AUTOMATIC MOTOR SPRING CABLE

REEL-SHANDERBEG

**SCR-SP SERIES**



MOBILE DRILLING STATION AUTOMATIC MOTOR

HYDRAULIC CABLE REEL VERTICAL APPLICATION

**MHCR SERIES**



**ACCESSORIES**

CABLE GUIDE





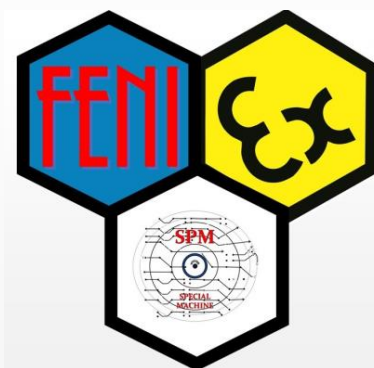
# SLIP RING & CABLE REEL EXPLOSION PROOF SERIES FENI

# ATEX





# HYDRAULIC /ELECTRIC SYSTEM EXPLOSION PROOF SHE-SREX150 SERIES NI



SLIP RING EX db EN60079-1;  
ROTARY JOINT EX h EN 80079-36/37



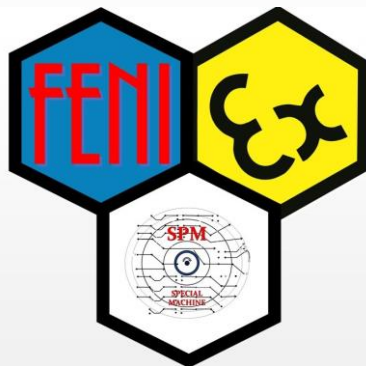




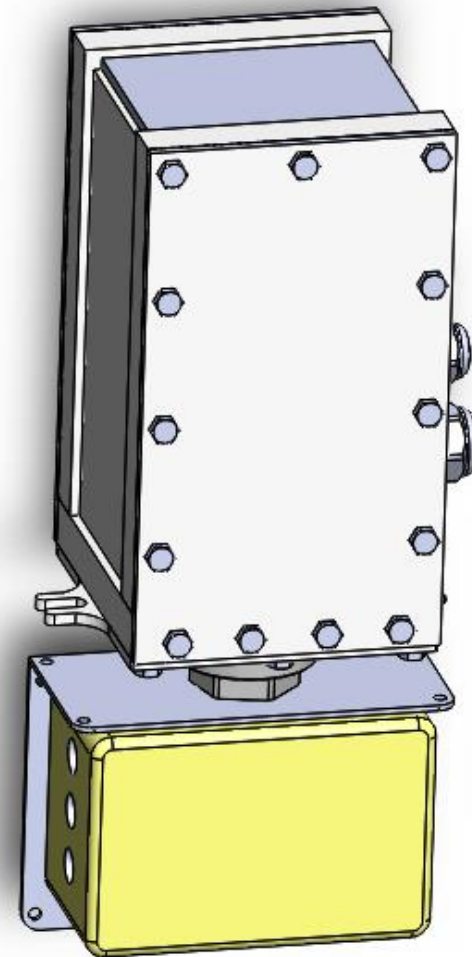
# HYDRAULIC /ELECTRIC SYSTEM

## EXPLOSION PROOF

### SREX150 SERIES FENI

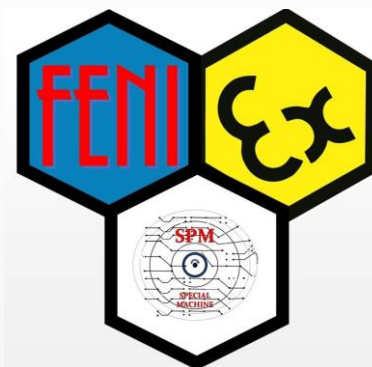


SLIP RING EX db EN60079-1;  
ROTARY JOINT EX h EN 80079-36/37  
JUNCTION BOX EX e EN 60079-7  
ELECTRIC INSTALLATION EN 60079-14





# SLIP RING EXPLOSION PROOF SREX500 SERIES FENI



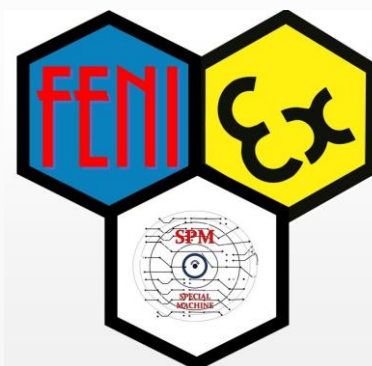
II 2G Exdb IIB T5 Gb Tamb (-40+60C°)

2014/34 ALLEGATO III : TUV CY 18 ATEX 0206117X





# SLIP RING EXPLOSION PROOF SREX150 SERIES FENI



II 2G Exdb IIB T5 Gb Tamb (-40+60C°)

2014/34 ALLEGATO III : TUV CY 19 ATEX 0206212 X

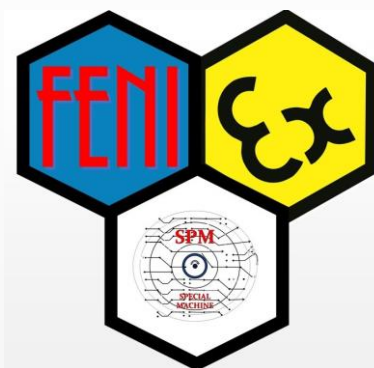






# SEH ELECTRIC HYDRAULIC SYSTEM

## EXPLOSION PROOF SREX506 SERIES FENI

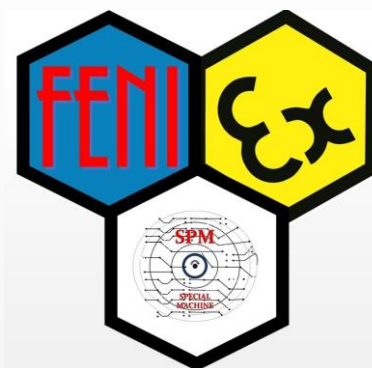


SLIP RING EX db EN60079-1;  
ROTARY JOINT EX h EN 80079-36/37  
JUCTION BOX EX e EN 60079-7  
ELECTRIC INSTALLATION EN 60079-14





# SPRING CABLE REEL EXPLOSION PROOF SCREX SERIES FENI



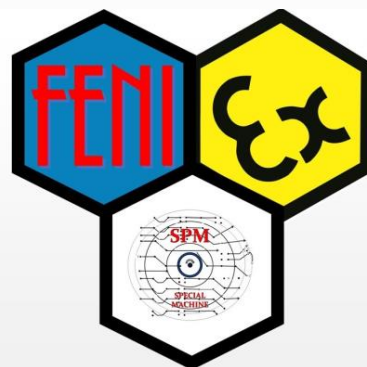
**ATEX** 

II 2G Exh IIB T5 Gb Tamb (-30+60)  
II 2G Exdb IIB T5 Gb Tamb (-40+60C°)





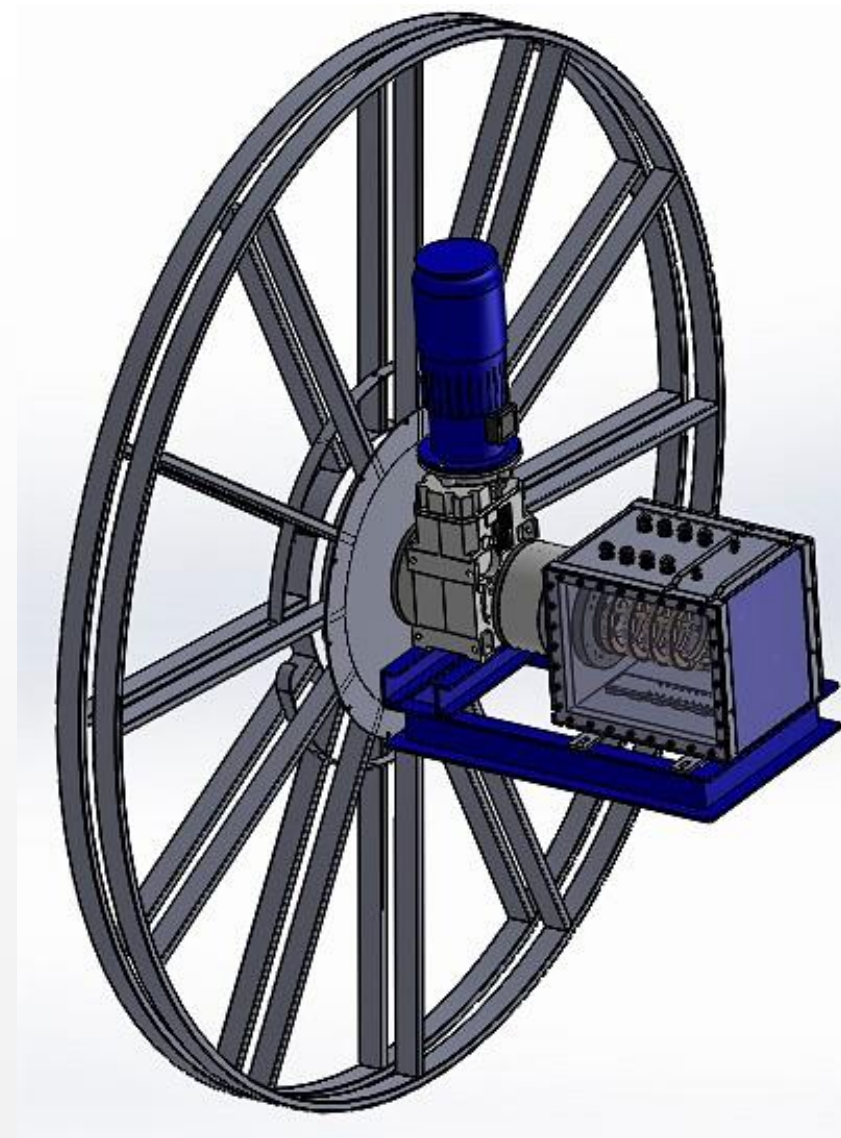
# MOTOR CABLE REEL EXPLOSION PROOF MCREX SERIES FENI



II 2G Exh IIB T5 Gb Tamb (-20+60)

II 2G Exdb IIB T5 Gb Tamb (-40+60C°)

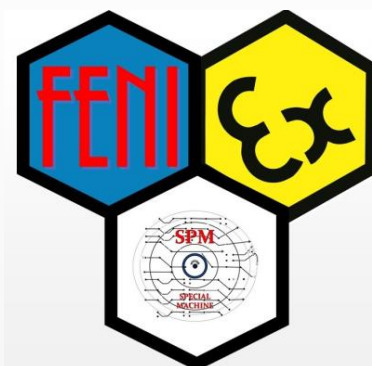
2014/34 ALLEGATO III : TUV CY 18 ATEX 0206117X







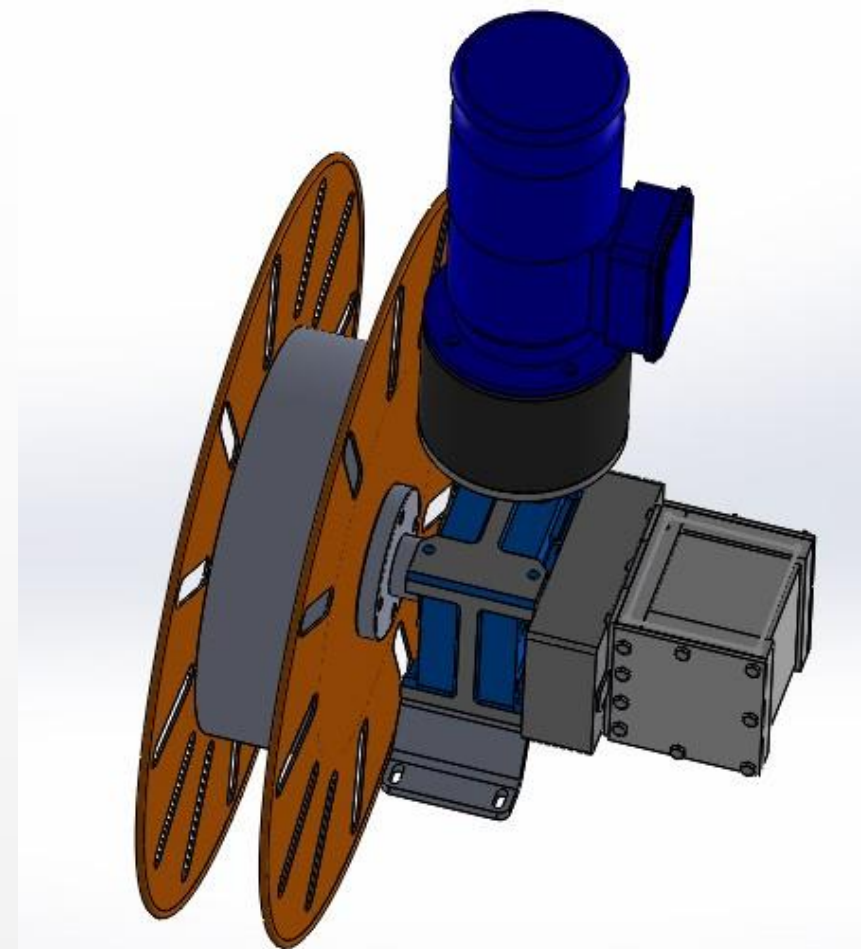
# MOTOR CABLE REEL EXPLOSION PROOF SCREX SERIES FENI



II 2G Exh IIB T5 Gb Tamb (-20+60)

II 2G Exdb IIB T5 Gb Tamb (-40+60C°)

2014/34 ALLEGATO III : TUV CY 19 ATEX 0206212 X

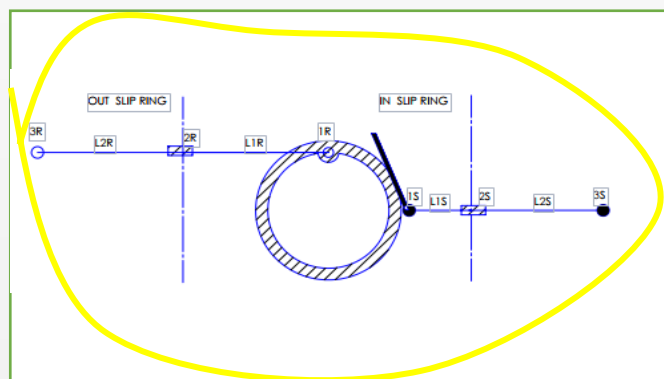




# SLIP RING SERIES SR MARINE SAFETY

HYDRA

IP67



# ULTRA COMPACT POWER SLIP RING SR500

In max = 600 A  
Vacmax = 6KV

MARINE SAFETY  
ISO EN 13849-1





# POWER SLIP RING SR400

In max = 600 A  
Vacmax = 4 KV



MARINE SAFETY

DNV GL –RU-SHIP PT.4  
CH.8 Ed 2019 07



# ULTRA COMPACT POWER SLIP RING SR400

In max = 600 A  
Vacmax = 4 KV



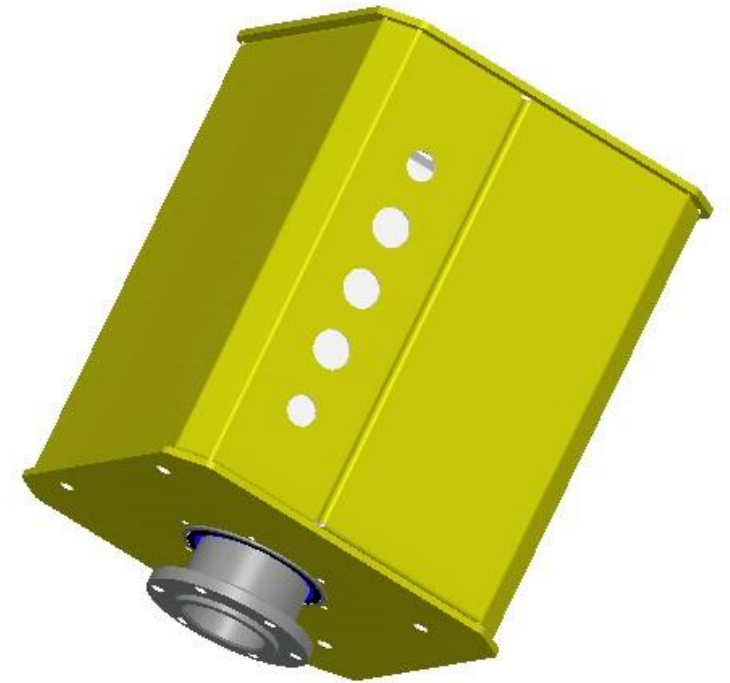
MARINE SAFETY



# ULTRA COMPACT POWER SLIP RING SR320

In max = 350 A  
Vacmax = 4 KV

MARINE SAFETY





# SR250 ULTRA COMPACT POWER SLIP RING SR250

In max = 250 A  
Vacmax = 3KV



# MARINE SAFETY



## ULTRA COMPACT POWER SLIP RING SR250

In max = 250 A

Vacmax = 3KV

# MARINE SAFETY



## SR150 ULTRA COMPACT POWER SLIP RING SR150



Series by  
Bini Officine



In max = 150 A  
Vacmax = 1,5KV

# MARINE SAFETY





## SLIP RING HYDRA IP67 SERIES SR130

In max = 50 A  
Vacmax = 1,5KV

# MARINE SAFETY



# HYDRA IP67



## SPRING CABLE REEL HYDRA IP67 SERIES

HYDRA **IP67**



MARINE SAFETY

## SPRING CABLE REEL HYDRA IP67 SERIES

# HYDRA AISI 316L

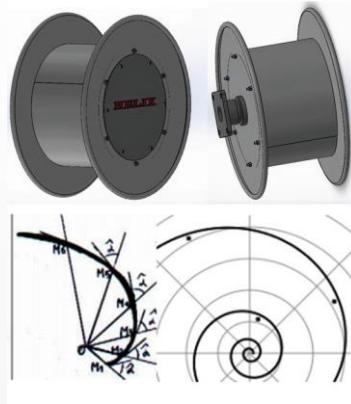


## MARINE SAFETY





# CABLE REEL Motor and Spring



# SCR ULTRA COMPACT SPRING CABLE REEL

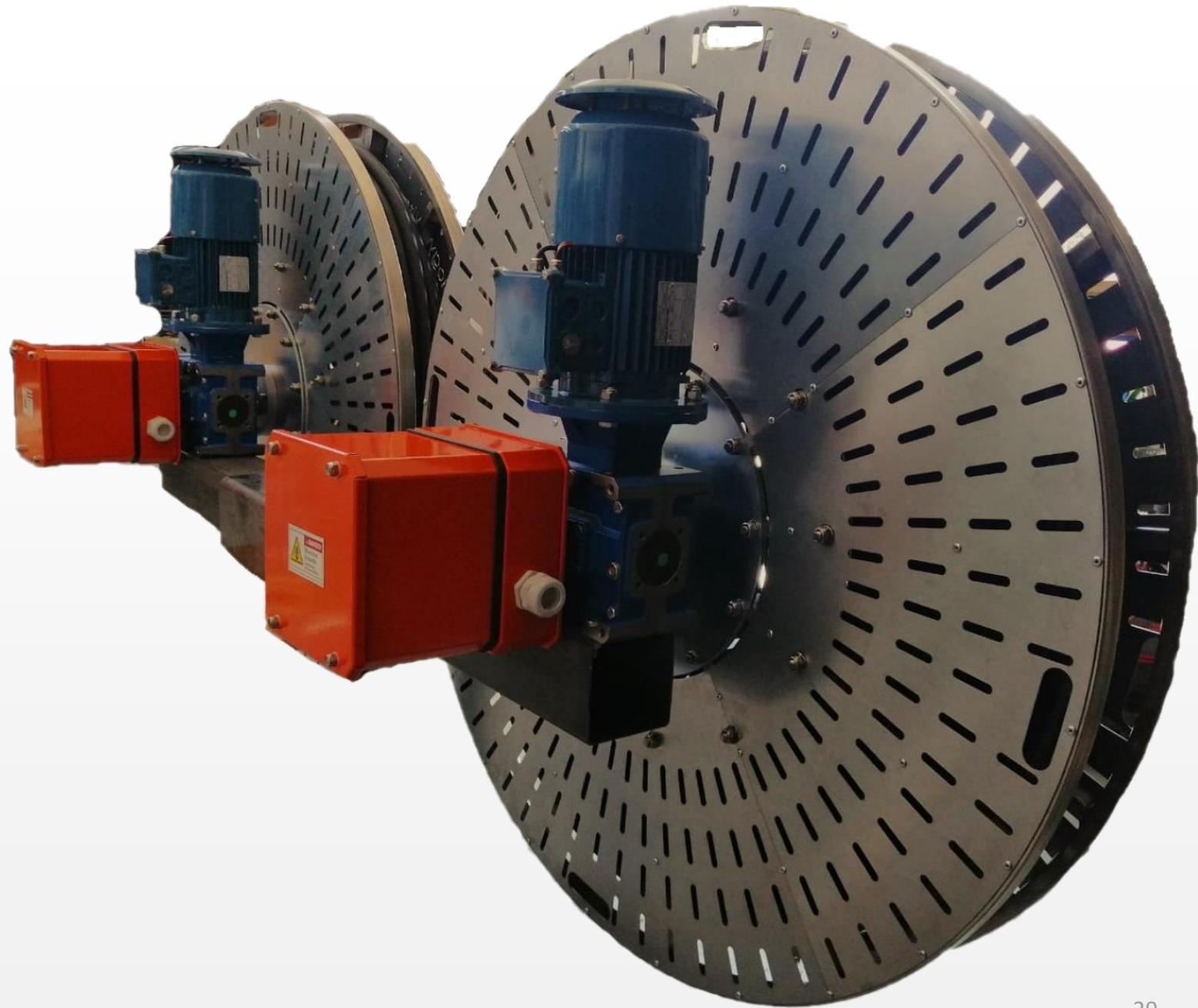


# Helix



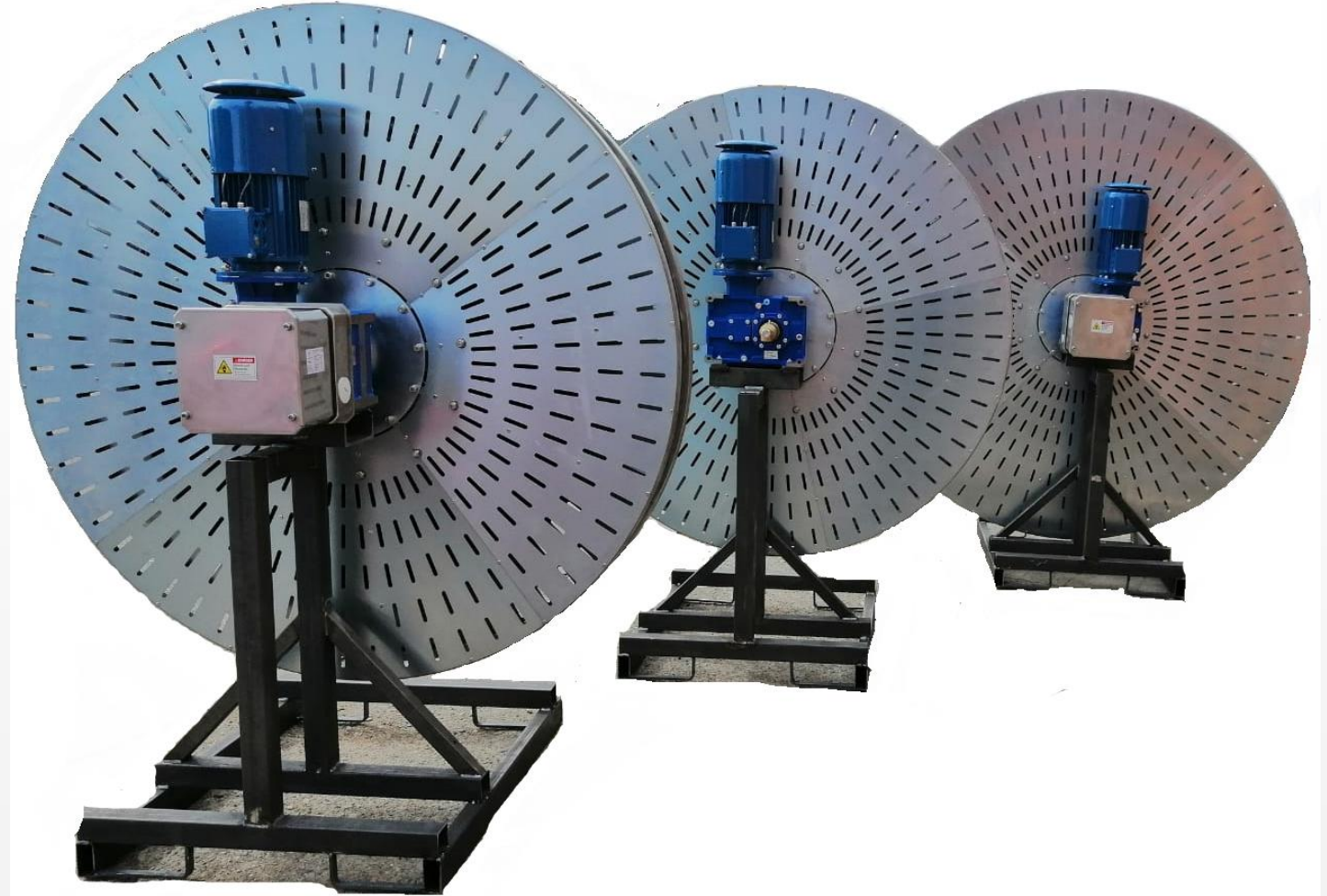


# MCR MOTOR CABLE REEL

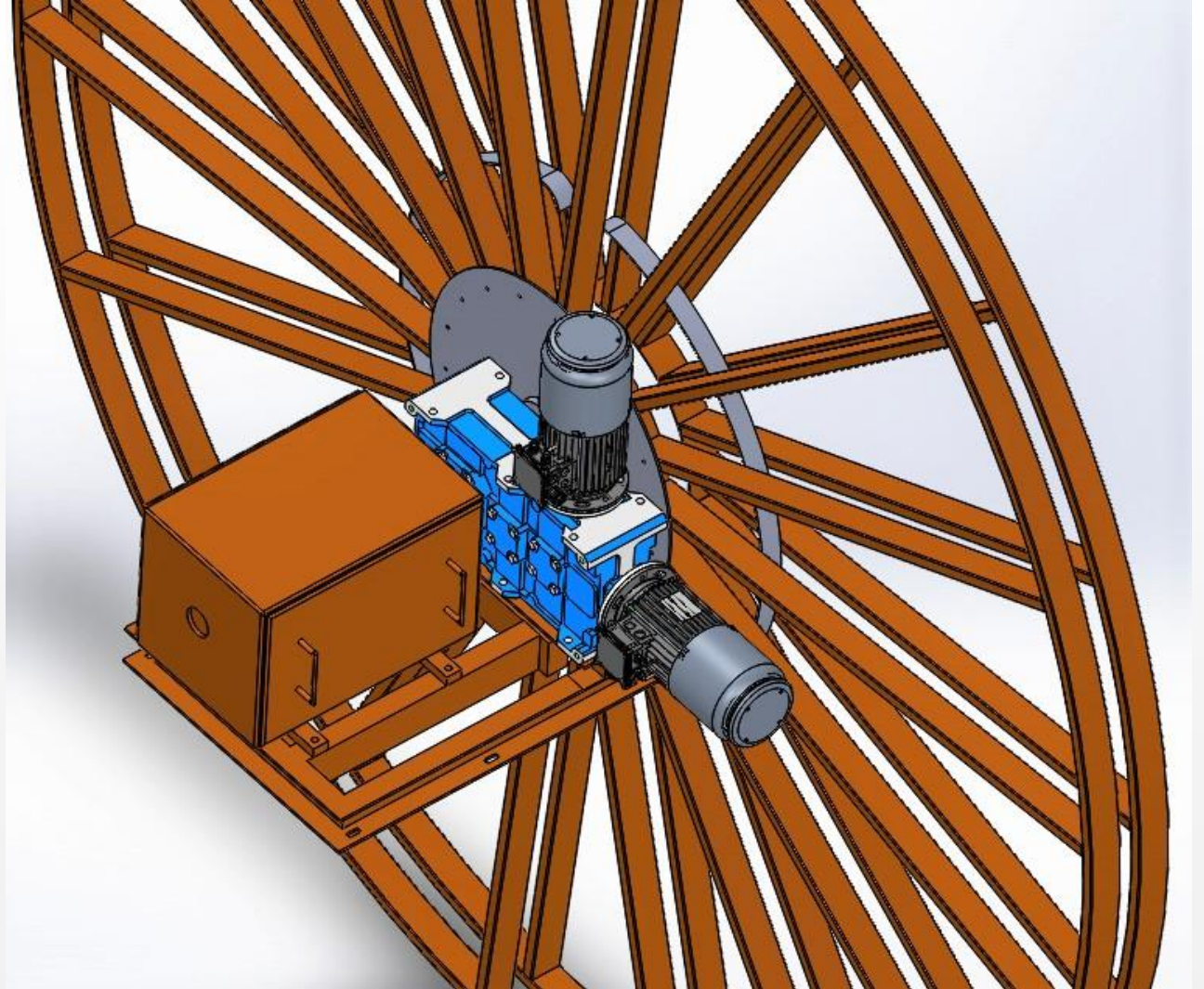




# MCR MOTOR CABLE REEL



# MCR POWER MOTOR CABLE REEL





# MCR VERTICAL MOTOR CABLE REEL





## POWER CABLE REEL MEDIUM VOLTAGE

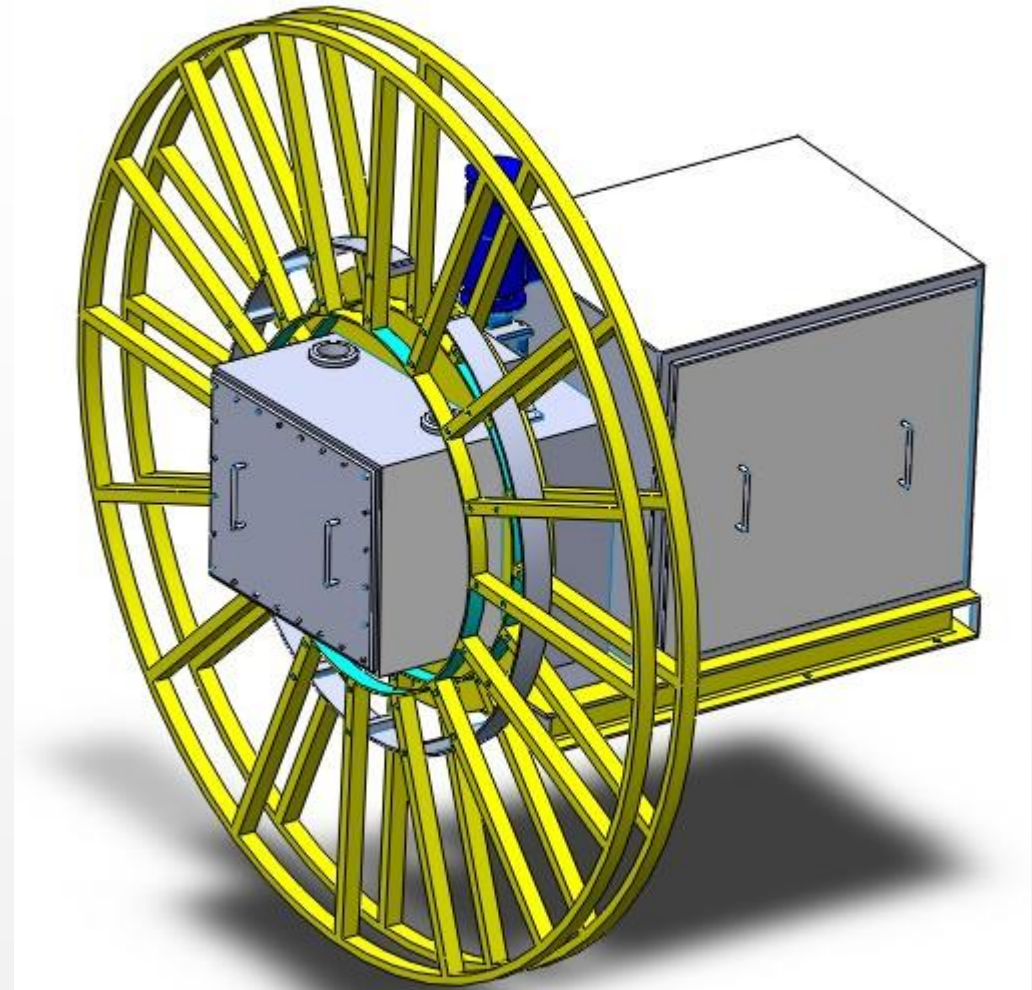
### OPS (On shore power supply)

#### -System description OPS

The OPS (On shore power supply) allows you to electrically connect ships stopped for repairs to shore, and to power them using the shore power network.

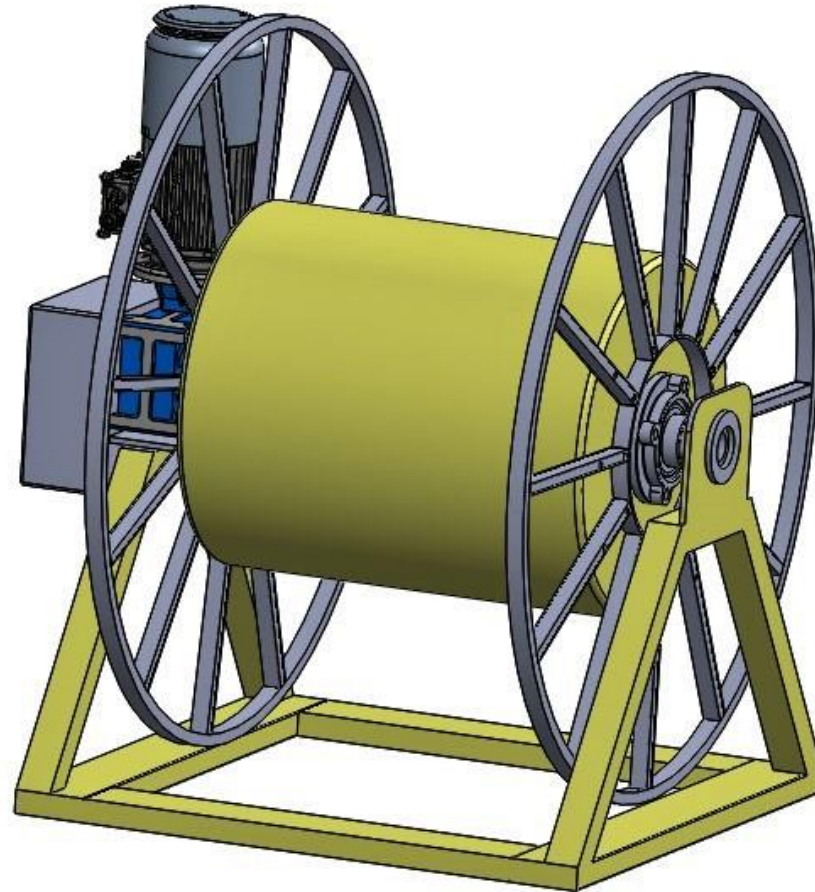
In this way ships can switch off their auxiliary generators reducing polluting emissions and noise.

The mobile structure is placed, using telescopic cranes; on the dock near the ship's power supply door.



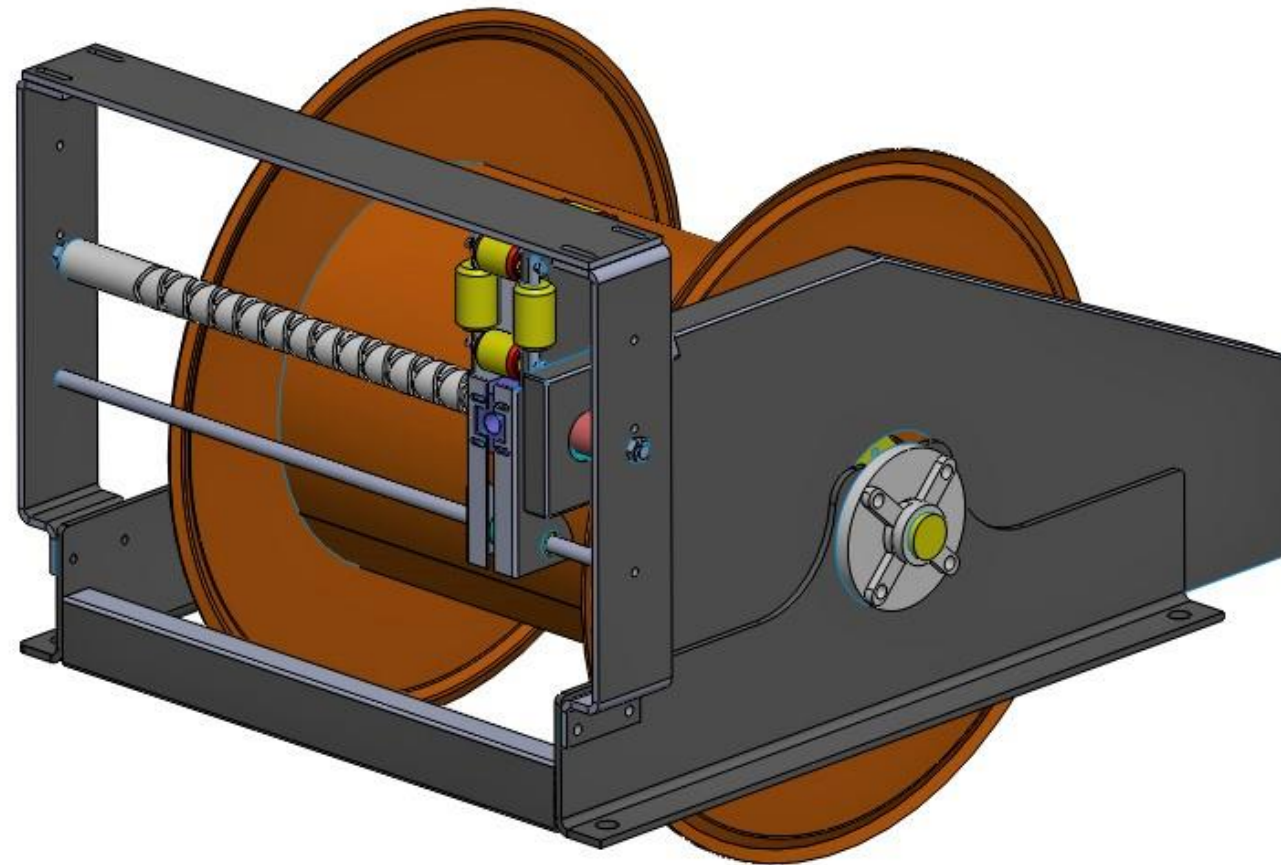
## MACR MINE & EHART MOVING MOTOR CABLE REEL

- LOW VOLTAGE 06/1kV
- FOR MEDIUM VOLTAGE 3kV -36KV



# MCDR MINE & EHART MOVING MOTOR HYDRAULIC CABLE DISTRIBUTION REEL

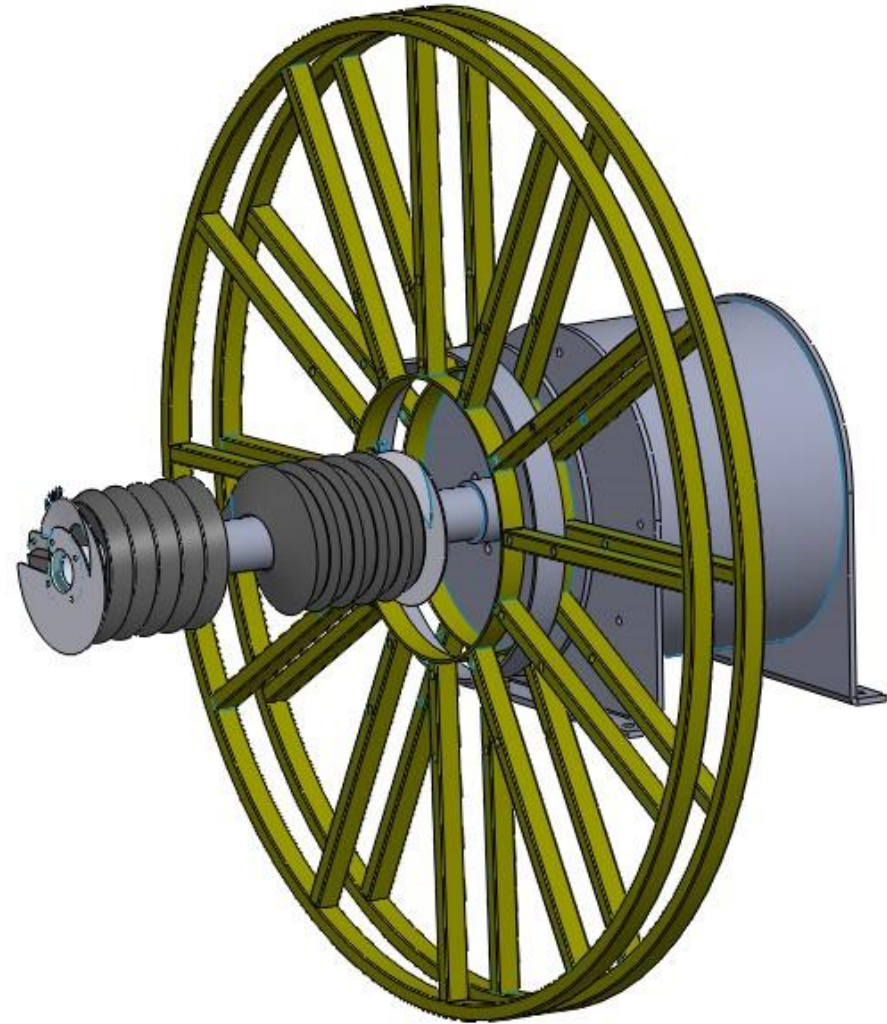
- LOW VOLTAGE 06/3kV





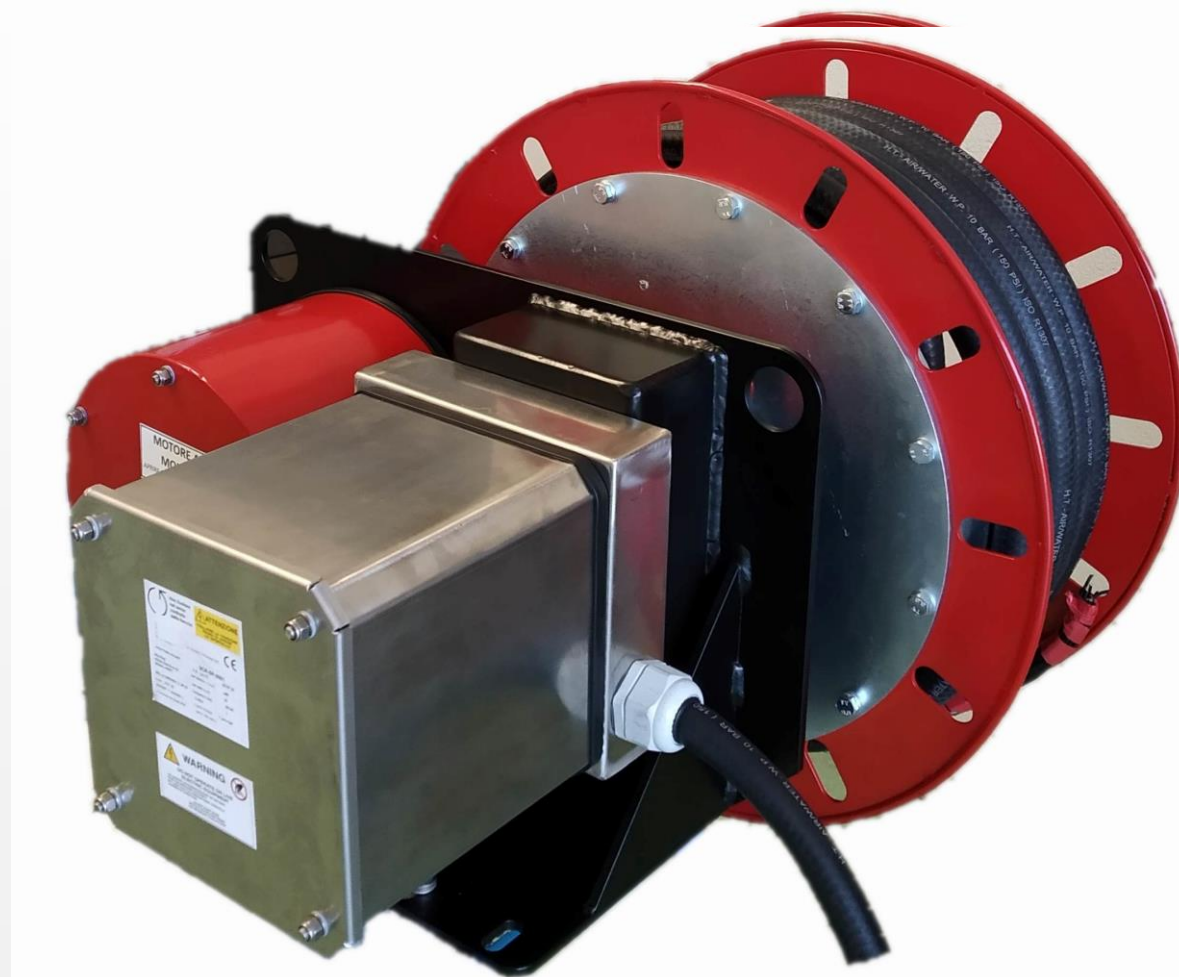
# SCRWS SPRING CABLE REEL WITHOUT SLIP RING

- **APPLICATION :**
- **MULTI CABLE POWER /AUXILIAR**
- **CABLE OPTICAL FIBER**

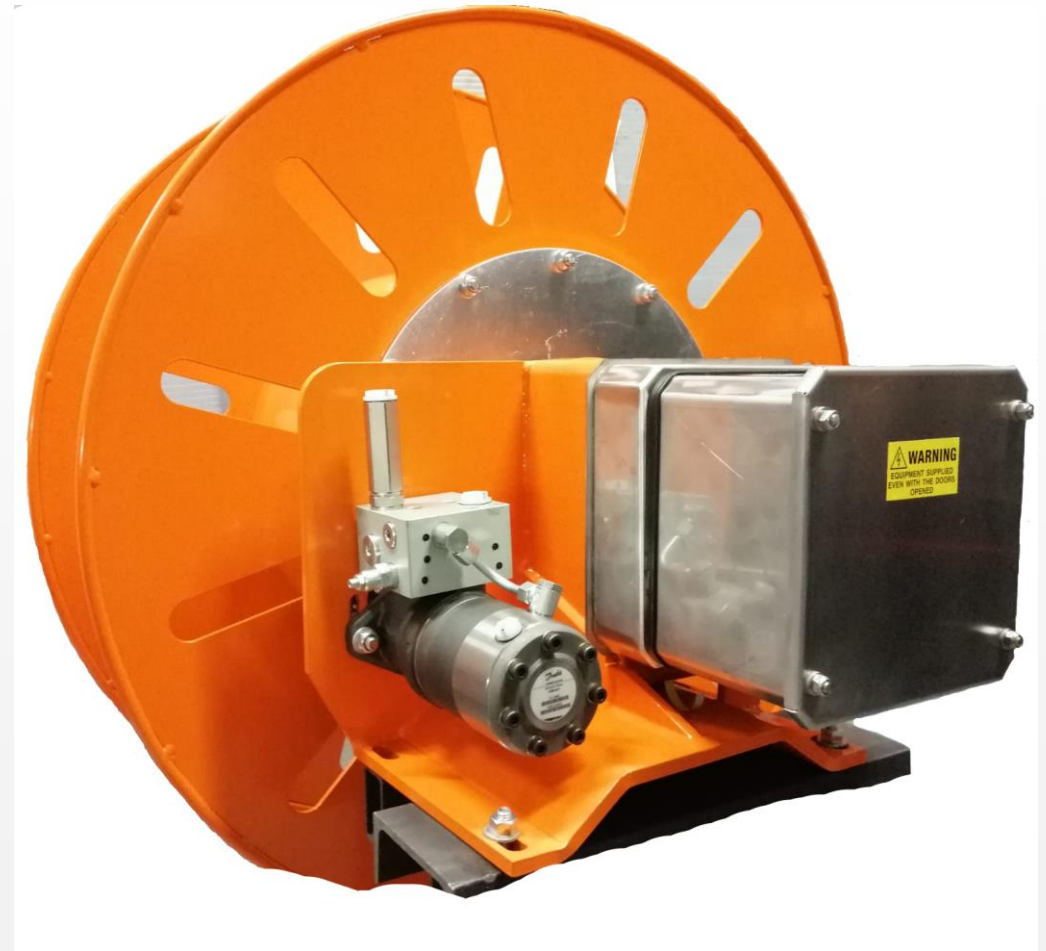


**SCR-SK**  
**AUTOMATIC MOTOR SPRING CABLE REEL**  
**SHANDERBEG SERIES**

**SKANDERBEG**



# MHCR MOBILE DRILLING STATION AUTOMATIC MOTOR HYDRAULIC CABLE REEL VERTICAL APPLICATION





# ACCESSORIES

## CABLE GUIDE



**EXTREME KABEL**

## High Performance Cables





# CESI NOTIFICATION

## PRODUCTION QUALITY ASSURANCE NOTIFICATION

- (1) Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 2014/34/EU
- (2) Notification number: CESI 20 ATEX 004 Q
- (3) Equipment or component type: Power slip ring
- (4) Protection concept: Flameproof enclosures "d"
- (5) Applicant: SPM SPECIAL MACHINE Srl  
via Padana Superiore n°38  
10065 Izzago - MI
- (6) Manufacturer: SPM SPECIAL MACHINE Srl  
via Padana Superiore n°38  
10065 Izzago - MI
- (7) CESI notified body n. 0722 in accordance with Articles 17 and 21 of the Directive of the European Parliament and of the Council of 26 February 2014, notifies to the applicant that the initial manufacturer has a production quality system which complies with the requirement of the Directive.
- (8) This notification is based on the audit report n. EX-C0001887 issued the 4/02/2020.
- (9) This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex IV.
- (10) This notification is valid until 4/02/2023 and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.
- (11) According to Article 16 (3) of the Directive 2014/34/EU the CEI marking shall be followed by the identification n. 0722 identifying the notified body involved in the production control stage.

This notification may only be reproduced in its entirety and without any change.

Date of issue 4th February 2020 - Transmission issued on 4th February 2020

Prepared  
Sergio G. Giugno

Verified  
Mirko Balot

CESI S.p.A.  
Testing & Certification Division  
Business Case Certification  
8 Hogenwalle  
(Roberto Piacini)

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Prot. C0001802 P. 1 Issue: 0

Ministero dello Sviluppo Economico

Ricevuta di presentazione

per

Brevetto per invenzione industriale

Domanda numero: 102019000025114

Data di presentazione: 20/12/2019

TUV NORD



### (1) EU-Type-Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- (3) Certificate Number: TÜV CY 19 ATEX 0206266 X
- (4) for the equipment: Power Slip Ring  
Type: SREX150 series
- (5) of the manufacturer: SPM Special Machine Srl
- (6) Address: Via Padana Superiore 38 Izzago (MI) - 20065 - ITALY
- (7) Date of issue: 2019-12-23

The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to. TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 19 0206266.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012/A11:2013 EN 60079-1:2014

The sign "X" is placed after the certificate number. It indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate. The EU-Type-Examination Certificate relates only to the design, examination and tests of the certified equipment in accordance to the Directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

Marking of the equipment or protective system must include the following:

EX 20 Ex db IIB T5 Gb

SPM Special Machine Srl (TUV NORD Group),  
notified body,  
Izzago (MI) - Italy

TÜV CYPRUS (TUV NORD) Ltd.  
2 Papaflessa Str., 2235 Larnaca, Cyprus - P.O. Box: 20732, 1682 Nicosia, Cyprus  
Tel: +357 22 44 20 40 Fax: +357 22 44 20 50 email: [info@tuv-cyprus.com.cy](mailto:info@tuv-cyprus.com.cy)  
[www.tuv-cyprus.com.cy](http://www.tuv-cyprus.com.cy)

This certificate may only be reproduced without any change, schedule included.  
Exemptions or changes shall be allowed by the TÜV CYPRUS Ltd.

X4010-114C\_N001\_24.05.2019

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TUV NORD



### (1) EU-Type-Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- (3) Certificate Number: TÜV CY 19 ATEX 0206266 X
- (4) for the equipment: Power Slip Ring  
Type: SREX150 series
- (5) of the manufacturer: SPM Special Machine Srl
- (6) Address: Via Padana Superiore 38 Izzago (MI) - 20065 - ITALY
- (7) Date of issue: 2019-12-23

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Marking of the equipment or protective system must include the following:

EX 20 Ex db IIB T5..T4 Gb

SPM Special Machine Srl (TUV NORD Group),  
notified body,  
Izzago (MI) - Italy

TÜV CYPRUS (TUV NORD) Ltd.  
2 Papaflessa Str., 2235 Larnaca, Cyprus - P.O. Box: 20732, 1682 Nicosia, Cyprus  
Tel: +357 22 44 20 40 Fax: +357 22 44 20 50 email: [info@tuv-cyprus.com.cy](mailto:info@tuv-cyprus.com.cy)  
[www.tuv-cyprus.com.cy](http://www.tuv-cyprus.com.cy)

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TUV NORD



### CERTIFICATE FOR POWER SLIP RING

Valid for products not subject to DNV GL classification requirements.

This is to certify

at the product:

se designation:

ication/context:

erial/TUV no:

been found to comply with relevant requirements in L-RU-SHIP DNV GL rule for classification: Ships (2019-07)

uct is intended for

se No.:

ation:

Power slip ring  
FT-SR408-01  
Crane  
SR480-0001

Ships (2019-07)

HOLLANDSE KUST (ZUID) ALPHA PLATFORM

SPM SPECIAL MACHINE S.R.L.  
SR480-0001  
Hella Cranes S.p.A.  
2000853



CMC on 2020-07-09

for DNV GL  
This document has been digitally signed and will therefore not have handwritten signatures  
Palano Simone  
Surveyor

The applicable contract with the holder of this document, or between the notified body and the applicant, is available on the DNV GL website. The holder of this document is responsible for ensuring that the information is up to date and correct. The holder of this document is responsible for ensuring that the information is up to date and correct. The holder of this document is responsible for ensuring that the information is up to date and correct.

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**SPM SPECIAL MACHINE s.r.l**

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