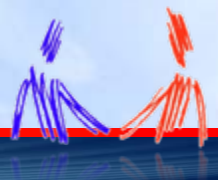
Optotec

A high-tech company providing passive components & accessories for telecommunications networks

OPTOTEC
OPTICAL TECHNOLOGIES

Who we are?

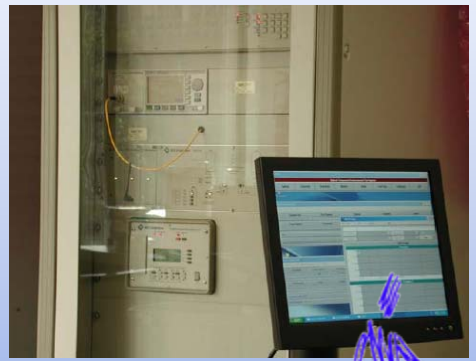
- Founded in 1992
- Part of N.T.E.T Group since ’97
- Employees 2010 – 50
- Export over 30%
- ISO 9001:2000 (since 1995)



Production sites

Garbagnate Mse (Milano) ITALY

Belpasso (Catania) ITALY



Certification

IQNet

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and its partner
CISQ/IMQ-CSQ
hereby certify that the organization

OPTOTEC SPA

VIA BERNARDINO ZENALE 44 - 20024 GARBAGNATE MILANESE (MI)

for the following field of activities

Design, manufacture and sale of passive optical components and accessories for telecommunications

Refer to quality manual for details of applications to ISO 9001:2000 requirements

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2000

Issued on: 2007 - 03 - 15

Registration Number: IT - 529

IQNet — *René Wasmer, President of IQNET*

CISQ — *Gianrenzo Prati, President of CISQ*

IQNet partners*:
AENOR *Spain* AFAQ AFNOR *France* AIB-Vinçotte International *Belgium* ANCE *Mexico* APCER *Portugal* CISQ *Italy* CQC *China* CQM *China* CQS *Czech Republic* Cro Cert *Croatia* DQS *Germany* DS *Denmark* ELOT *Greece* FCAV *Brazil* FONDONORMA *Venezuela* HKQAA *Hong Kong China* ICONTEC *Colombia* IMNC *Mexico* Inspecta Certification *Finland* IRAM *Argentina* JQA *Japan* KFQ *Korea* MSZT *Hungary* Nemko AS *Norway* NSAI *Ireland* PCBC *Poland* QMI *Canada* Quality Austria *Austria* RR *Russia* SAI Global *Australia* SII *Israel* SIQ *Slovenia* SIRIM QAS International *Malaysia* SQS *Switzerland* SRAC *Romania* TEST St Petersburg *Russia* *YUQS Serbia*

IQNet is represented in the USA by: AFAQ AFNOR, AIB-Vinçotte International, CISQ, DQS, NSAI Inc., QMI and SAI Global

*The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

CSQ
www.imq.it

CISQ is a member of IQNet
www.iqnet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.

CERTIFICATO N. / *CERTIFICATE N.* **9110.OPT1**

SI CERTIFICA CHE IL SISTEMA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY SYSTEM OPERATED BY

OPTOTEC SPA

VIA BERNARDINO ZENALE 44 - 20024 GARBAGNATE MILANESE (MI)

UNITA' OPERATIVE
OPERATIVE UNITS

VIA BERNARDINO ZENALE 44 - 20024 GARBAGNATE MILANESE (MI)

E' CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2000

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

Progettazione, produzione e commercializzazione di componenti ottici passivi ed accessori di telecomunicazione
Design, manufacture and sale of passive optical components and accessories for telecommunications

Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2000
Refer to quality manual for details of applications to ISO 9001:2000 requirements

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI QUALITA' E DI GESTIONE DELLE AZIENDE

THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR THE CERTIFICATION OF COMPANY QUALITY AND MANAGEMENT SYSTEM

PRIMA EMISSIONE	EMISSIONE CORRENTE	DATA SCADENZA
FIRST ISSUE	*CURRENT ISSUE*	*EXPIRY DATE*
1995-05-31	2007-03-15	2009-12-14

IMQ S.p.A.- VIA QUINTILIANO, 43 - 20138 MILANO ITALY

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale

CISQ is the Italian Federation of management system Certification Bodies

SINCERT EA: 19

La validità del presente certificato è subordinata a sorveglianza annuale e al riesame completo del Sistema di Qualità con periodicità triennale secondo le procedure dell'IMQ

The validity of the certificate is subjected to annual audit and a reassessment of the entire Quality System within three years according to IMQ rules

FEDERAZIONE CISQ
www.cisq.com

Technical Capabilities

- **Network architecturing (Point-to-point, PON)**
- **Product development (3D Cad)**
- **Rapid prototyping techniques (3D printing, stereo litography)**
- **Testing (meccanical, optical and environmental)**

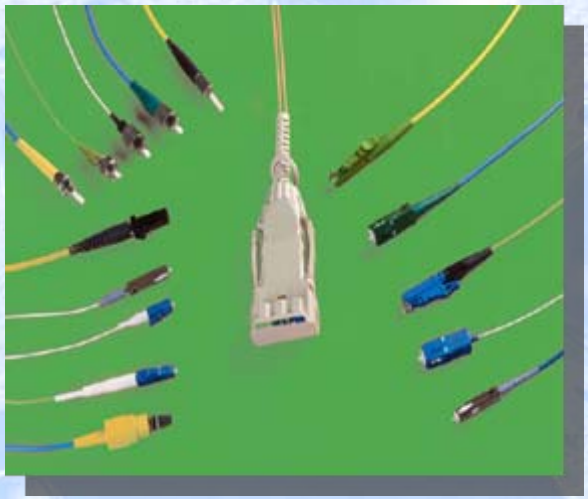
OPTOTEC
OPTICAL TECHNOLOGIES

Components

Accessories

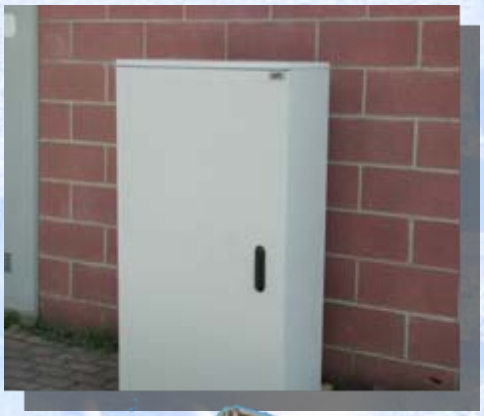
COMPONENTS

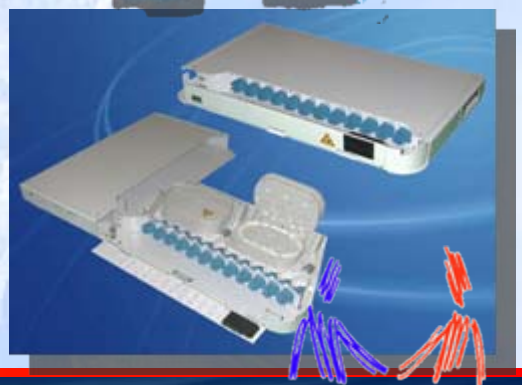
- Jumpers and pigtails
- Break-out, mini-boc
- Polarization assemblies
- Harsh environmental assemblies (MIL standard)
- BOA, ILA
- Splitters, WDM
- Custom optical modules



ACCESSORIES

- Racks (indoor, outdoor)
- Shelves (1U, 2U, 3U)
- Closures (single-ended, in-line)
- Termination units
- Integration of optical components in fibre management systems





All OPTOTEC passive components are available as building blocks which can be easily integrated in any unit of the FOCUS product range.

In the CO

In the OSP

OPTOTEC OPTICAL TECHNOLOGIES

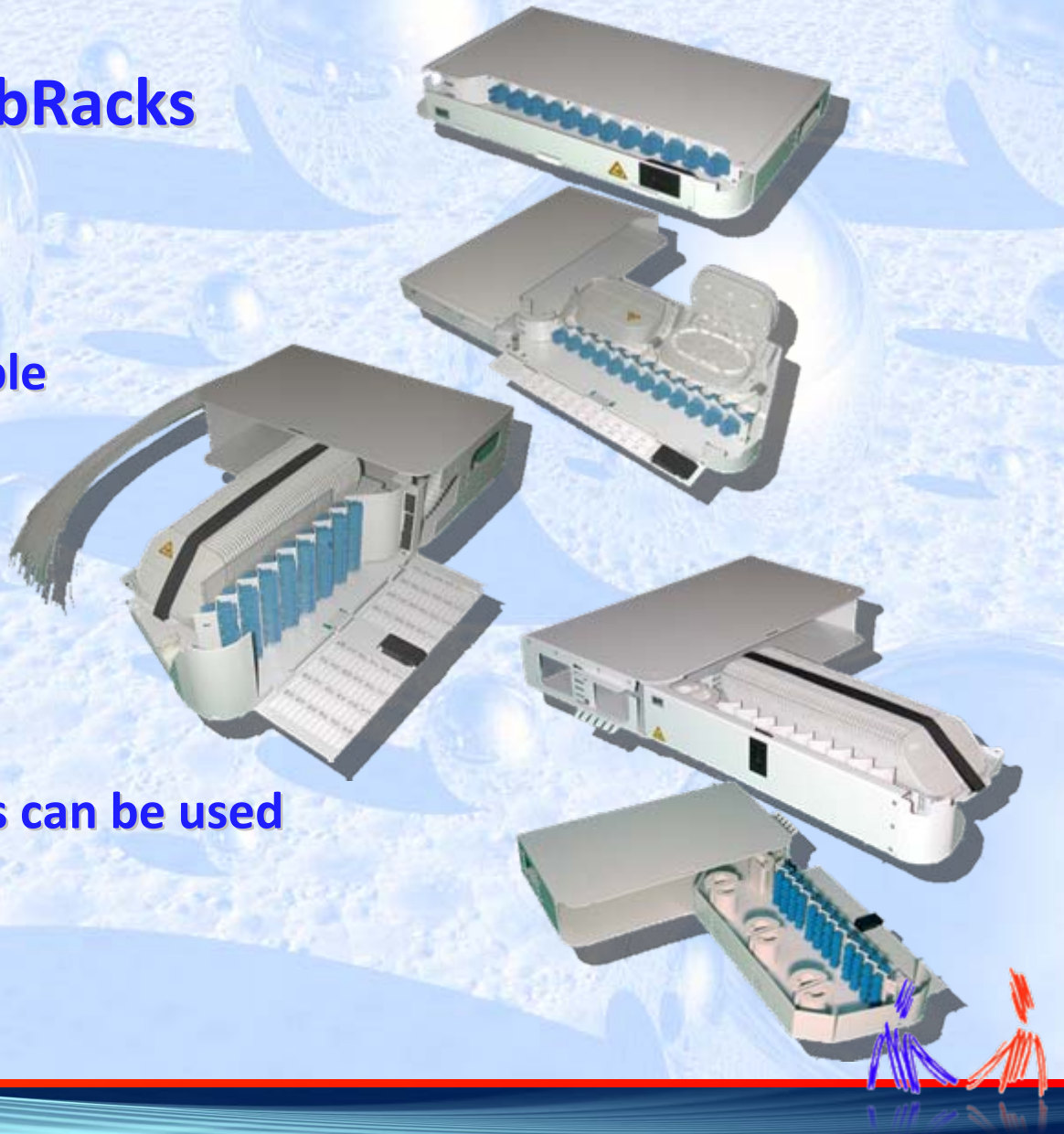
ODF – Optical Distribution Frame

- Racks for CO - ETSI mounting profiles
- Many configuration are possible
  2200 x 300 x 600, 900 or 1200 mm
- Side ducts for fibre management & fibre storage
  (150 or 300 mm)
- Can accommodate any patching, splicing shelf
- Stand alone, back-to-back or side-by-side options

OPTOTEC OPTICAL TECHNOLOGIES

Patching and Splicing SubRacks

- 1U, 2U & 3U subracks
  - different heights capacities
- Many configuration are possible
  - mixed subracks
  - splicing subrack
  - patching subrack
  - subrack for storage
- Left or right pivoting
- Most connectors and adapters can be used



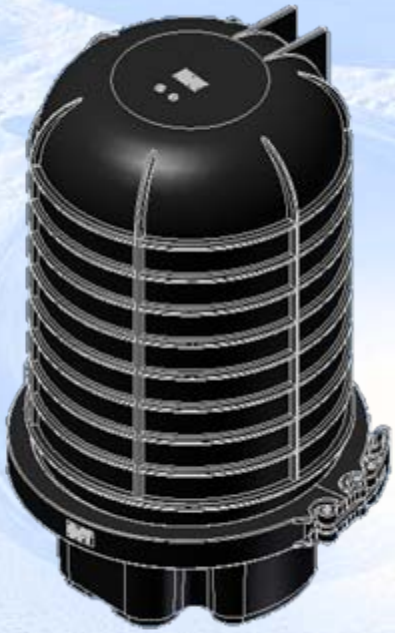
OPTOTEC OPTICAL TECHNOLOGIES

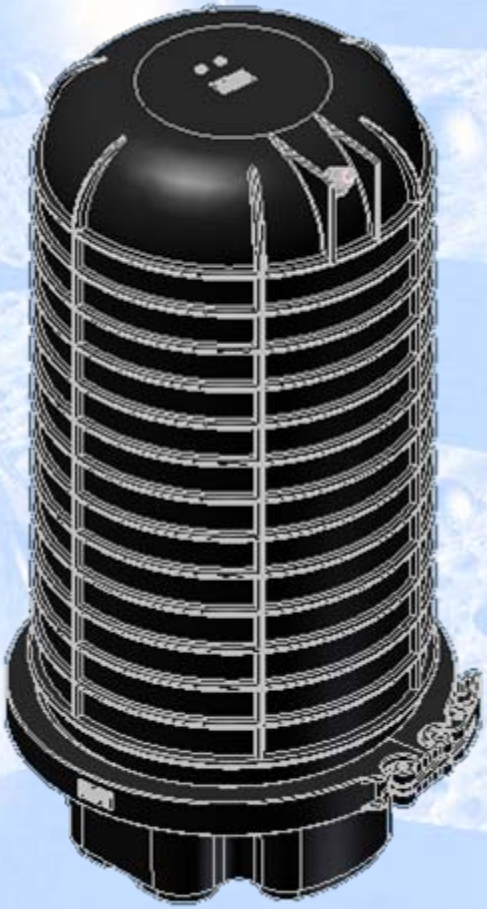
ODC – Optical Distribution Closures

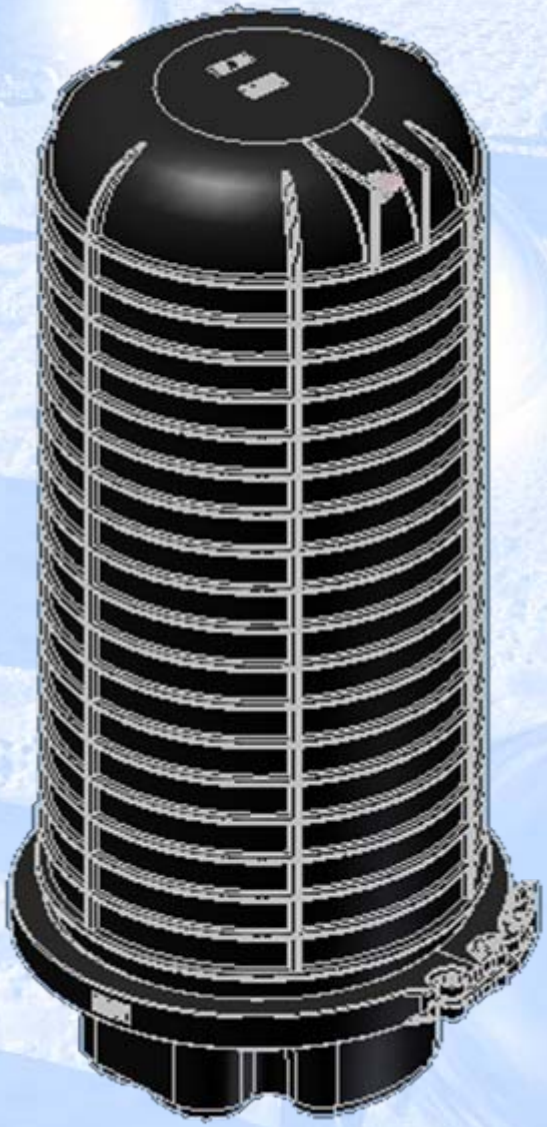
- Base and dome design
  - three heights (L=390, 525, 770 mm)
- 1 oval port and 6 or 18 round ports & 2 oval port base
- Can accommodate SC or SE splicing modules – different capacities
- Storage zone available between mounting frame.
- Available both Heatshrink or cold applied sealing kits.
- Test methods according to international standards (IEC, Cenelec, ISO).

OPTOTEC
OPTICAL TECHNOLOGIES

ODC – xx







OPTOTEC
OPTICAL TECHNOLOGIES

CODC – Compact ODC

OPTOTEC
OPTICAL TECHNOLOGIES

Boxes

- Different sizes and capacities
- Plastic, metal & stainless steel versions
- Can accommodate SC or SE splicing modules
- 48 fibres patch/splice applications
- Up to 96 fibres for splice applications
- Most connectors and adapters can be used

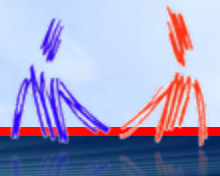
Products Range Cold Applied Sealing Kits

Our strategy

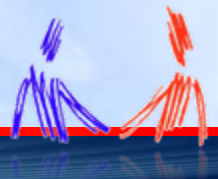
- **Be the complete infrastructure solution provider of all types of fiber optic networks**
- **Propose a wide range of innovative and cost effective products**
- **Maintain our strong leadership in the Italian market**
- **Expand our presence within the International market**

Our Strength

- Immediate response to specific customer requests
- Flexibility
- Be one step ahead to the market needs



Question Time



Optotec

Your optical solutions partner

…and

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