HEAT EXCHANGER APPLICATIONS

SEAMLESS STAINLESS STEEL AND HIGH NICKEL ALLOY TUBES
The Tubacex Group has become one of the world’s main seamless stainless steel and nickel alloy tubular solutions providers. Founded in 1963, Tubacex brings the experience of a world leader combined with a strong R&D effort which is needed to fulfill the future needs of the industry. The Tubacex Group, exporting into more than 100 countries worldwide, has a share of around 15% of the world market of seamless stainless steel tubular solutions, with a total workforce of around 2,400 employees. The headquarters are located in Llodio, 25 km (15 miles) from the seaport city of Bilbao, in northern Spain. The Tubacex Group’s integrated production process includes a steel making plant, several extrusion and cold finishing mills, trepanning facilities, fitting and special components producers and wide network of service centers which provide a wide range of added value operations to the group’s portfolio.

Continuous innovation during the last 30 years has allowed the Companies of the Tubacex Group to become world leaders in the supply of seamless tubes made of stainless steel and nickel alloys. Tubacex Group’s heat exchanger tube program is based on manufacturing units at these 4 strategic locations:

<table>
<thead>
<tr>
<th>Location</th>
<th>Company Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Llodio &amp; Amurrio, Spain</td>
<td>TTI</td>
<td>Founded in 1963, TTI has become the world’s main supplier of stainless steel seamless tubes and pipes. Seamless Stainless Steel and Nickel Alloy tubes and pipes. The size manufactured through the extrusion press and the 11 cold rolling machines, goes from ¼” up to 8” NPS, or 19 - 250 mm OD, at manufacturing facilities located in Llodio and Amurrio (Spain). A specific line is fully devoted to OCTG (Oil Country Tubular Goods) manufacturing, in a range that goes to 9 5/8” (currently in trial).</td>
</tr>
<tr>
<td>Ternitz, Austria</td>
<td>Schoeller-Bleckmann</td>
<td>Schoeller-Bleckmann’s roots date back to 1924. Seamless Stainless Steel pipes and tubes. Schoeller Bleckmann Edelstahlrohr, located in Ternitz, Austria, manufactures Seamless Stainless Steel in dimensions between 1/8” and 8” NPS, or 6 - 250 mm OD. A specific plant is devoted to special tube manufacturing, with focus in straight and welded tubes for umbilical application and other high demanding applications (Nuclear, Fertilizer).</td>
</tr>
<tr>
<td>Greenville (PA), USA</td>
<td>Salem Tube</td>
<td>Salem Tube has maintained a reputation as a premier supplier for more than 40 years. Welded re drawn and Seamless Stainless Steel and Nickel Alloy tubes. Located in Greenville, PA (USA) Salem Tube’s manufacturing range goes from 1/8” to 2” OD. The company is highly specialized in precision tubing for the most demanding industries such as military and aerospace, with a heavy concentration of high nickel alloy grades in their product portfolio.</td>
</tr>
<tr>
<td>Umbergaon, India</td>
<td>TUBACEX India</td>
<td>New addition to the Tubacex group, TUBACEX India has its production up and running under new management. Seamless Stainless Steel tubes and pipes. Located in Umbergaon (Gujarat- India), TUBACEX India manufactures cold finished tubes and pipes from 6 mm OD to 273.1 mm OD. The company is able to deliver tubes up to 14 m (length), straight and U-Shape, to a wide range of customers. The company is ISO 9000 and ISO 14000 certified.</td>
</tr>
</tbody>
</table>

Tubacex Group: a global technological partner in heat exchanger applications
Tubacex can manufacture and supply heat exchanger tubing in sizes ranging from 12 mm to 76 mm OD. All standard outside diameter and wall thickness for heat exchanger tubing are covered with maximum lengths of 30 meters. Tubes can be supplied in straight or U Bends. Special sizes can be made on request.

**MANUFACTURING RANGE HEAT EXCHANGER TUBES**

**PRODUCTION FOOTPRINT**

The Tubacex Group offers extensive equipment as extrusion presses, pilger machines, straightening machines, degreasing facilities, solution & bright annealing furnaces, stabilization furnaces and drawing equipment:

<table>
<thead>
<tr>
<th>TUBACEX GROUP COMPANY</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>STANDARDS</th>
<th>TESTING</th>
<th>APPROVALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salem</td>
<td>15 mm OD to 58 mm OD, WT 0.8 mm to 3.4 mm</td>
<td>Max developed length of 22 meters</td>
<td>ASTM/ASME/EN/DIN</td>
<td>In house: NDT (Eddy current testing, Ultra sonic testing, Hydro testing), PMI, Mechanical (Tensile/Hardness/Flattening/Flaring/Bend), Chemical analysis, Corrosion - Inter granular corrosion, ASTM G48, ASTM A923.</td>
<td>AS 9100, ISO 9001, ISO 14001, NCA-3800, PED 97/23/EC, Nadcap - Heat Treating, Nadcap - Material Testing, NORSOK M650 (31803, 32750 &amp; 31254)</td>
</tr>
<tr>
<td>Schoeller Bleckmann Edelstahlrohr</td>
<td>12 mm OD to 88.9 mm OD, WT 0.8 mm to 4.4 mm</td>
<td>Max developed length of 37 meters</td>
<td>ASTM/ASME/EN/DIN/GOST/AFNOR</td>
<td>In house: NDT (Eddy current testing, Ultra sonic testing, Hydro testing), Mechanical (Tensile/Hardness/Flattening/Flaring/Bend), Chemical analysis, Corrosion - Inter granular corrosion, ASTM G48 Mthod A, ASTM A923.</td>
<td>ISO 9001, ISO 14001, OHSAS-18001, PED 97/23/EC, TUV Shop approval, NORSOK M650 (31803, 32205, 32750, 32760, 31254)</td>
</tr>
<tr>
<td>Tubacex India</td>
<td>12 mm OD to 88.9 mm OD, WT 0.6 mm to 6 mm</td>
<td>Max developed length of 14 meters</td>
<td>ASTM/ASME/EN</td>
<td>In house: NDT (Eddy current testing, Hydro testing), Mechanical (Tensile/Hardness/Flattening/Flaring/Bend), Chemical analysis, Corrosion - Inter granular corrosion, PMI.</td>
<td>ISO 9001-2008, ISO 14001-2004, OH-SAS-18001-2007, EIL, IBR, PED 97/EC/23, Norshok, DNV Marine.</td>
</tr>
<tr>
<td>TTI - Tubacex Tubos Inoxidables</td>
<td>19 mm OD to 88.9 mm OD, WT 1.65 mm to 4.4 mm</td>
<td>Max developed length of 17 meters</td>
<td>ASTM/ASME/EN/DIN</td>
<td>In house: NDT (Eddy current testing, Ultra sonic testing, Hydro testing), Mechanical (Tensile/Hardness/Flattening/Flaring/Bend), Chemical analysis, Corrosion - Inter granular corrosion, ASTM G48 Method A, ASTM A923.</td>
<td>ISO 9001, ISO 14001, OHSAS-18001, API 5LC, PED 97/23/EC, TUV Shop approval, NORSOK M650 (31803, 32750 &amp; 31254).</td>
</tr>
</tbody>
</table>

**STANDARDS**

The Manufacturing methods employed at Tubacex Group’s main production units reflect the most advanced technologies. Production of seamless stainless steel tubes and pipes is carried out according to all common international delivery and tolerance standards.

- ASTM B161- Nickel seamless pipes and tubes.
- ASTM B163- specification for seamless nickel and nickel alloy condenser and heat exchanger tubing.
- ASTM B668-standard specification for UNS08028 seamless pipes and tubes.
- EN 10216-5 TC-1 & TC 2, DIN Standards.
The need of higher efficiency in heat transfer processes and the need of improved characteristics against corrosion has increased the demand on the quality of the seamless stainless steel tubes used in these applications.

Depending on the industry and application, different corrosion issues require different materials. For each specific application, Tubacex offers a suitable solution through its stainless steel and high nickel alloy grade portfolio.

<table>
<thead>
<tr>
<th>INDUSTRY</th>
<th>APPLICATION</th>
<th>CORROSION ISSUES</th>
<th>TUBACEX SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas</td>
<td>Platforms</td>
<td>Heat Exchangers in Platforms- Chloride induced pitting and crevice corrosion. Heat exchangers in onshore facilities: Sour service conditions, Chloride induced pitting present in cooling waters.</td>
<td>TXD05 (Duplex) &amp; TXD07 (Super Duplex) for chloride induced corrosion in Offshore platforms and TXK05 (Alloy28), TXK16 (Alloy625), TXK03 (Alloy825) for sour service conditions in onshore facilities.</td>
</tr>
<tr>
<td>Refinery</td>
<td>Hydroprocessing units (REAC/FEAC).</td>
<td>Stress corrosion cracking, under deposit corrosion caused by Ammonia Bi Sulfide and Ammonia chlorides.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXK03 (Alloy825).</td>
</tr>
<tr>
<td></td>
<td>Crude Distillation units / Vaccum distillation units/ FCCU/Delayed cocker units</td>
<td>Corrosion issues in Over Head Condensers: Under deposits due to condensing vapours (acids &amp; salts), Pitting corrosion caused by chlorides present in water cooling media.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXK05 (Alloy28), TXK16 (Alloy625).</td>
</tr>
<tr>
<td></td>
<td>Sour water strippers</td>
<td>Stress corrosion cracking, Pitting corrosion caused by Ammonia, chlorides, sulphides &amp; cyanides.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXK03 (Alloy825).</td>
</tr>
<tr>
<td></td>
<td>Inter stage coolers</td>
<td>Pitting corrosion caused by chlorides present in water (cooling media).</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex) &amp; UNS32304.</td>
</tr>
<tr>
<td></td>
<td>Amine coolers</td>
<td>Stress corrosion cracking, Pitting corrosion caused by Amines.</td>
<td>TUBACEX Solution: TXD05 (Duplex), TXD07 (Super Duplex), TXK03 (Alloy825).</td>
</tr>
<tr>
<td></td>
<td>Napthenic acid</td>
<td>Pitting corrosion caused by napthenic acid.</td>
<td>TXC28 (317L) &amp; TXC20 (316L with Min 2.5% Moly).</td>
</tr>
<tr>
<td>Petrochemicals</td>
<td>Amine coolers</td>
<td>Stress corrosion cracking, Pitting corrosion caused by Amines.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXK03 (Alloy825).</td>
</tr>
<tr>
<td></td>
<td>Napthenic acid</td>
<td>Pitting corrosion caused by napthenic acid.</td>
<td>TXC28 (317L) &amp; TXC20 (316L with Min 2.5% Moly).</td>
</tr>
<tr>
<td></td>
<td>EDC/VCM (Ethylene Dichloride / Vinyl chloro monomer)</td>
<td>Chloride stress corrosion cracking, pitting corrosion.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex).</td>
</tr>
<tr>
<td></td>
<td>EG/EO (Ethylene glycol / ethylene oxides)</td>
<td>Scaling inside tubes, pitting corrosion caused by cooling water.</td>
<td>TXD05 (Duplex).</td>
</tr>
<tr>
<td></td>
<td>PTA (Purified Terephthalic Acid)</td>
<td>Pitting corrosion in over head condensers caused by Bromides, Erosion corrosion in slurry heaters.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXC28 (317L), TXK06 (904L).</td>
</tr>
<tr>
<td></td>
<td>Methanol</td>
<td>Contamination of methanol due to scaling.</td>
<td>TXD05 (Duplex), UNS31500.</td>
</tr>
<tr>
<td>Acids</td>
<td>Organic acids (Acetic acid, fatty acids, formic acid)</td>
<td>Pitting &amp; crevice corrosion caused by impurities in the form of chlorides present in acids.</td>
<td>TXD05 (Duplex), TXD07 (Super Duplex), TXK16 (Alloy625), C-276.</td>
</tr>
<tr>
<td></td>
<td>Inorganic acids (Sulfuric, Phosphoric, Nitric, Hydrochloric)</td>
<td>Sulfuric: Acidic corrosion in coolers (loss of material), Phosphoric: Erosion, Deposits in heaters, Nitric: Condensation of nitric acid in cooler/condenser, Hydrochloric: Acidic corrosion (loss of material).</td>
<td>TXK05/ TXK06 for Sulfuric acid &amp; Phosphoric acid (Alloy 28, 904L), TXT19 (310L NAG)/ UNS32906, UNS32304 for Nitric acid, C-276/TXK16 (Alloy 625) for Hydrochloric acid.</td>
</tr>
<tr>
<td>Others</td>
<td>Caustic evaporators / Alumina digesters</td>
<td>Caustic Stress corrosion cracking, erosion corrosion.</td>
<td>UNS32304 / UNS32906, Nickel 200 / 201</td>
</tr>
</tbody>
</table>
The Tubacex Group can manufacture and supply straight and U bend Heat Exchanger tubing covering standard austenitic stainless steels, duplex stainless steels and high alloy austenitic stainless steels.

Aceralava is Tubacex Group’s steel melting shop, which provides the bulk of raw material supply for the rest of the Group’s manufacturing units.

Aceralava’s manufacturing range covers the main stainless steel grades requested by the industry as well as a tailor made list of steels. Our metallurgical engineers are devoted to the development of sophisticated steels capable of operating in the demanding environments of the future. Exceptions beyond the standard steel grades can be met upon request.

Grades out of Aceralava’s manufacturing range (some high nickel alloys) are sourced from reliable suppliers.

### STAINLESS STEEL GRADES

<table>
<thead>
<tr>
<th>C %</th>
<th>Cr %</th>
<th>Ni %</th>
<th>Mo %</th>
<th>N %</th>
<th>OTHERS %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM</td>
<td>Max</td>
<td>Min/Max</td>
<td>Min/Max</td>
<td>Min/Max</td>
<td>Min/Max</td>
</tr>
<tr>
<td>TP304L/304</td>
<td>0.03</td>
<td>18/20</td>
<td>08/12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TP316L/316</td>
<td>0.03</td>
<td>16/18</td>
<td>10/14</td>
<td>2.0/3.0</td>
<td></td>
</tr>
<tr>
<td>TP316/316L</td>
<td>0.03</td>
<td>16/18</td>
<td>10/14</td>
<td>2.5/3.0</td>
<td></td>
</tr>
<tr>
<td>TP321</td>
<td>0.08</td>
<td>17/19</td>
<td>09/12</td>
<td>5(C+N)-0.70</td>
<td></td>
</tr>
<tr>
<td>TP321H</td>
<td>0.1</td>
<td>17/19</td>
<td>09/12</td>
<td>4(C+N)-0.70</td>
<td></td>
</tr>
<tr>
<td>TP316Ti</td>
<td>0.08</td>
<td>16/18</td>
<td>10/14</td>
<td>2.0/3.0</td>
<td>0.1</td>
</tr>
<tr>
<td>TP304H</td>
<td>0.1</td>
<td>18/20</td>
<td>08/11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TP347H</td>
<td>0.1</td>
<td>17/19</td>
<td>09/13</td>
<td>8X-C-1.10</td>
<td></td>
</tr>
<tr>
<td>TP304LN</td>
<td>0.03</td>
<td>18/20</td>
<td>08/11</td>
<td>0.1/0.16</td>
<td></td>
</tr>
<tr>
<td>TP316LN</td>
<td>0.03</td>
<td>16/18</td>
<td>10/13</td>
<td>0.1/0.16</td>
<td></td>
</tr>
<tr>
<td>TP317L</td>
<td>0.03</td>
<td>18/20</td>
<td>11/15</td>
<td>3.0/4.0</td>
<td></td>
</tr>
<tr>
<td>TP310S/310H</td>
<td>0.08</td>
<td>24/26</td>
<td>19/22</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### STANDARDS

- **ASTM**
- **UN**

### AUSTENITIC

#### STANDARD

- **UNS S31803**: 0.03 | 21/23 | 4.5/6.5 | 2.5/3.5 | 0.08/0.20 |
- **UNS S32205**: 0.03 | 22/23 | 4.5/6.5 | 3.0/3.5 | 0.14/0.20 |
- **UNS S32304**: 0.03 | 21.5/24.5 | 3.0/5.5 | 0.05/0.60 | 0.05/0.20 | Cu-0.05/0.60 |
- **UNS S32750**: 0.03 | 24/26 | 6.0/8.0 | 3.0/5.0 | 0.24/0.32 | Cu-0.50 max |
- **UNS S32760**: 0.03 | 24/26 | 6.0/8.0 | 3.0/4.0 | 0.2/0.3 | Cu-0.5/1.0, W-0.5/1.0 |
- **UNS S31254**: 0.02 | 19.5/20.5 | 17.5/18.5 | 6.0/6.50 | Cu-0.75 | N-0.2 |
- **UNS N08904**: 0.02 | 19/23 | 23/28 | 4.0/5.0 | Cu-1.4 | N-0.06 |
- **UNS N088028**: 0.03 | 26/28 | 30/32 | 3.0/4.0 | Cu-1.0 |
- **UNS N088020**: 0.07 | 19/21 | 32/38 | 2.0/3.0 | Cu-3.5 | Nb+Ta > BC |
- **UNS N06600**: 0.04 | 14/17 | 72.0-min | Cu-0.5 max, Si-0.5 Max, Fe-8.0 |
- **UNS N06601**: 0.1 | 21/25 | 58.0/63.0 | Cu-1.0 max, Si-0.5 |
- **UNS N06625**: 0.03 | 22/23 | 58.0-min | 8.0/10.0 | Cu-0.5, Si-0.5 |
- **UNS N06690**: 0.04 | 27.0/31.0 | 58.0-min | Cu-0.5, Si-0.5 |
- **UNS N08800**: 0.1 | 19.0/23.0 | 30.0/35.0 | Cu-0.75 max, Al-0.15/0.60, Ti-0.15/0.60 |
- **UNS N08810**: 0.05/0.1 | 19.0/23.0 | 30.0/35.0 | Cu-0.75 max, Al-0.15/0.60, Ti-0.15/0.60 |
- **UNS N08811**: 0.06/0.1 | 19.0/23.0 | 30.0/35.0 | Cu-0.75 max, Al-0.15/0.60, Ti-0.15/0.60 |
- **UNS N08825**: 0.05 | 19.5/23.5 | 38.0/46.0 | Al-0.2 max, Ti-0.6/1.2 |
- **UNS N02200**: 0.15/0.02 | 99.0 Min | Cu-0.25, Si-0.35, c-0.15 Max in 2200, 0.02 max in 2201 |
- **UNS N04400**: 0.3 | 63.0-min | Cu-28.0/34.0, Si-0.5 |
- **UNS N10276**: 0.01 | 14.5/16.5 | 57.0-min | 15.0/17.0 | W-4.5 Max |
- **UNS N06022**: 0.01 | 20.0/22.5 | 54.0-min | 12.5/14.5 | W-3.5 Max |

### ALLOYED STEELS

- **UNS S41000**: 0.15 | 11.5-13.5 | 0.50 | Mn+1.0 Max, Si+1.0 Max |
Customers in several key industries

Heat exchangers are important components in the oil & gas, refinery, chemical, petrochemical and power generation industries.

The need of higher efficiency in heat transfer processes and the need of improved characteristics against corrosion have increased the demand on the quality of the seamless stainless steel tubes used in these applications.

The Tubacex Group has a high competence on the development and manufacturing of such tubes. Our experience journey started in 1934 and has continued with a newly established Innovation center in Spain as well as a production footprint in Asia.

The Tubacex Group manufacturing range in tubes for heat exchanger applications cover the main applications where this equipment is needed:

**OIL & GAS**
- Onshore processing unit
- Offshore platforms

**POWER GENERATION**
- Condenser
- Heaters

**REFINERY**
- Overhead condensers
- Sour water strippers
- React effluent air coolers
- Feed effluent air coolers
- Amine coolers
- Inter stage coolers

**PETROCHEMICALS**
- Ethylene oxide/Ethylene Glycol
- LDPE/HDPE
- EDC/VCM

**ACIDS**
- Organic acids: Fatty acids
- Formic/acetic acids
- Inorganic acids
- Sulfuric acid
- Phosphoric acid
- Nitric acid

**OTHER INDUSTRIES**
- Pharmaceutical
- Paper
- Mining & Metals
- Salts
Enhanced Quality & Service

RESEARCH & DEVELOPMENT

• The Tubacex Group has made a significant effort in innovation in recent years, which is constantly being reflected in results and in the sales figures. The Group has a corporate innovation unit called Tubacex Innovation, with human and technical resources devoted exclusively to innovation activities, consisting of R&D projects and development projects for the different industrial plants of the Group, in which technological development is required.

• TUBACEX R&D Center at Zamudio, Spain, is working continuously on bringing out upgradations in metallurgy and properties of steel.

TUBACEX PRODUCTION SYSTEM

TxPS, the acronym of Tubacex Production System, is the standard Management System for the entire Tubacex Group focused on:

• Implementing a continuous improvement system in all areas
• Involving all personnel from all areas
• Ensuring that the improvements are sustained over time

TxPS is based on action on three levels: yearly management plan, daily management and specific action for radical improvement.

TUBACEX SERVICE SOLUTIONS

• Tubacex Service Solutions is the Tubacex service center through which we try to provide complete packages of tubes and pipes in various sizes, grades and quantities. It is also possible to provide small quantities with fast delivery catering to maintenance shut down requirements.

• The Group’s network of service centers in Europe, America and Asia offers availability and proximity to our customers. TSS-TUBACEX-strives to provide a complete solution to customer needs and not just tubes. This includes value added operations for small niches such as:
  • Final treatments • Special packages • Others

WIDEST PORTFOLIO

• Tubacex’s manufacturing range starts at 3 mm O.D. in Salem Tube.

• IBF, one of the group companies located in Italy, can produce thin walled and thick walled higher outside diameter Tubes & Fittings from 8” to 72” in all grades (Carbon steel, Alloy steel, Titanium, Stainless steel). As a result of those manufacturing capabilities, Tubacex has the widest portfolio in the Stainless Steel industry.

OTHER PRODUCT APPLICATIONS

Tubacex offers a wide range of products in the stainless steel tubular solutions industry.

Tubacex also supplies tubes and pipes for Fertilizer / Urea application, Umbilicals, Risers and flowlines for subsea applications, OCTG pipes, tubes for Boilers, Hydraulic & Instrumentation tubing, Precision tubing, Furnace tubes, Bars (above 165 mm OD) & Hollow bars.
MAIN SALES OFFICES AROUND THE WORLD

NETHERLANDS:
TUBACEX NORTH EUROPE
Phone: +31 (0) 162 690 430
Fax: +31 (0) 162 690 435
e-mail: salesnetherlands@tubacex.com

GERMANY:
TUBACEX GERMANY
Phone: + (49) 2150 70 567-0
Fax: + (49) 2150 70 567-20
e-mail: salesgermany@tubacex.com

ITALY:
TUBACEX ITALIA
Phone: + (39) 02 673 845 92
Fax: + (39) 02 673 845 92
e-mail: salesitaly@tubacex.com

AUSTRIA:
TUBACEX CENTRAL & EAST EUROPE
Phone: + (43) 2630 3160
Fax: + (43) 2630 369 47
e-mail: salesaustria@tubacex.com

CZECH REPUBLIC:
TUBACEX CZECHIA
Phone: + (42) 06 03 817 985
e-mail: salesczechia@tubacex.com

POLAND:
TUBACEX POLAND
Phone: + (48) 32 253 99 67
Fax: + (48) 32 206 82 48
e-mail: salespoland@tubacex.com

RUSSIA:
TUBACEX CIS
Phone: + (7) 916 644 22 51
Fax: + (7) 495 959 21 80
e-mail: sales-cis@tubacex.com

FRANCE:
TUBACEX FRANCE
Phone: + (33) 1 48 79 30 50
Fax: + (33) 1 48 79 18 06
e-mail: salesfrance@tubacex.com

SPAIN:
TUBACEX SERVICE SOLUTIONS, S.A.
Phone: +34 945 39 36 00
Fax: +34 945 39 34 22
e-mail: tss@tubacex.com

UNITED STATES OF AMERICA & CANADA:
TUBACEX AMERICA
Phone: + (1) 713 856 2700/13
Fax: + (1) 713 856 2799
e-mail: sales@tubacex-usa.com

UAE - DUBAI:
TUBACEX MIDDLE EAST
Phone: + (971) 4 701 72 12
Fax: + (971) 4 701 72 13
e-mail: salesmiddle-east@tubacex.com

INDIA:
TUBACEX INDIA
Phone: + (91) 22 40015324
Fax: + (91) 22 40015350
e-mail: sales@tubacexindia.com

CHINA:
TUBACEX NORTH EAST ASIA
Phone: + (86) 21 5298 0242
Fax: + (86) 21 5298 0241
e-mail: tubacexasia@tubacex.com.cn

SINGAPORE:
TUBACEX SOUTH EAST ASIA
Phone: + (65) 6100 6126
Fax: + (65) 6100 6126
e-mail: sales@tubacex.com

POLAND:
TUBACEX POLAND
Phone: + (48) 32 253 99 67
Fax: + (48) 32 206 82 48
e-mail: salespoland@tubacex.com

KOREA:
TUBACEX KOREA
Phone: + (82) 10 4800 5080
Fax: + (82) 2 6021 4180
e-mail: saleskorea@tubacex.com

NETHERLANDS:
TUBACEX NORTH EUROPE
Phone: +31 (0) 162 690 430
Fax: +31 (0) 162 690 435
e-mail: salesnetherlands@tubacex.com

GERMANY:
TUBACEX GERMANY
Phone: + (49) 2150 70 567-0
Fax: + (49) 2150 70 567-20
e-mail: salesgermany@tubacex.com

ITALY:
TUBACEX ITALIA
Phone: + (39) 02 673 845 92
Fax: + (39) 02 673 845 92
e-mail: salesitaly@tubacex.com

AUSTRIA:
TUBACEX CENTRAL & EAST EUROPE
Phone: + (43) 2630 3160
Fax: + (43) 2630 369 47
e-mail: salesaustria@tubacex.com

CZECH REPUBLIC:
TUBACEX CZECHIA
Phone: + (42) 06 03 817 985
e-mail: salesczechia@tubacex.com

POLAND:
TUBACEX POLAND
Phone: + (48) 32 253 99 67
Fax: + (48) 32 206 82 48
e-mail: salespoland@tubacex.com

UAE - DUBAI:
TUBACEX MIDDLE EAST
Phone: + (971) 4 701 72 12
Fax: + (971) 4 701 72 13
e-mail: salesmiddle-east@tubacex.com

www.tubacex.com