Introduction of Dalian
Youopto Technologies Co., Ltd.

DATE: 2021.02
Events

- 2017 Anshan Factory Established
- 2017 Mass Product 2.5G DWDM, 10G EML
- 2018 Dalian R&D Center Established
- 2018 Mass Product 25G T&R, 100G T&R
- 2019 Total Purification Room 3000m²
- 2020 Mass product 50GT&R
- 2020 Total 200 Employees and More than 20 kinds of Lasers
CONTENTS

01 Company Profile
02 Application & Partners
03 Product Line
04 Advantages
05 Road Map
Application

- Telecom
- Datacom
- Optical Sensing
- CATV&Aerospace
Partners
Product Line

MASS PRODUCTION

50G EML&DML TOSA
100G EML TOSA
25G APD ROSA
50G PIN&APD ROSA
25G DML L&MWDM TOSA
100G LR4 DML TOSA
9PIN Mini BOX Laser
14PIN Butterfly Laser
100G LR4 PIN ROSA
10G Oband DWDM TOSA
25G EML TOSA
10G APD ROSA
10G EML TOSA
1.25G&2.5G DML DWDM TOSA

2017 2018 2019 2020
## Capacity

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Capacity/Month</th>
<th>Shift</th>
<th>Product Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>100G LR4&amp;ER4Lite TOSA</td>
<td>10K</td>
<td>1</td>
<td>4*25 BOX OSA Line</td>
</tr>
<tr>
<td>100G LR4&amp;ER4Lite ROSA</td>
<td>5K</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>25G DML BOX TOSA</td>
<td></td>
<td></td>
<td>Cooled BOX OSA Line</td>
</tr>
<tr>
<td>25G EML BOX TOSA</td>
<td>50K</td>
<td>1</td>
<td>Cooled Coaxial OSA Line</td>
</tr>
<tr>
<td>10G EML BOX TOSA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25G DML cooled Coaxial TOSA</td>
<td></td>
<td></td>
<td>Cooled Coaxial OSA Line</td>
</tr>
<tr>
<td>10G DML Cooled Coaxial TOSA</td>
<td>100K</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2.5G DML cooled Coaxial TOSA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10G EML Coaxial TOSA</td>
<td></td>
<td></td>
<td>Uncooled OSA Line</td>
</tr>
<tr>
<td>2.5G CWDM TO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10G CWDM TO</td>
<td>300K</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>25G CWDM TO</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Advantages

- Have an extensive experience in **cooled OSA** assembly including XMD BOX, Butterfly, Coaxial
- Stable production team and rich experience in production
- Professional R&D team (total 40 people), 50% of them have more than 5 years experience in optical communication field
- Strictly quality control and accurate delivery ability
- Broad product portfolio
Equipments

Die Bonding
Semi-automatic

Die Bonding
Automatic

Wire Bonding
Wedge-bond

Wire Bonding
Ball-bond

3um

10um
Equipments

<table>
<thead>
<tr>
<th>Laser Welding</th>
<th>FPC Soldering</th>
<th>Seam welding</th>
<th>Leak Test</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Laser Welding Image" /></td>
<td><img src="image2.png" alt="FPC Soldering Image" /></td>
<td><img src="image3.png" alt="Seam welding Image" /></td>
<td><img src="image4.png" alt="Leak Test Image" /></td>
</tr>
</tbody>
</table>
Equipments

<table>
<thead>
<tr>
<th>OSA Test</th>
<th>COC Burn-in</th>
<th>Push&amp;Pull Test</th>
<th>2.5D Measurement</th>
</tr>
</thead>
</table>
## Quality Assurance

<table>
<thead>
<tr>
<th>Process</th>
<th>Control Point</th>
<th>Standard</th>
<th>Test Freq</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die Bonding</td>
<td>Epoxy glue push force</td>
<td>$\geq 450\text{gf}$</td>
<td>Per shift</td>
</tr>
<tr>
<td>Wire Bonding</td>
<td>Wire pull force</td>
<td>$\geq 5\text{gf}$</td>
<td>Per shift</td>
</tr>
<tr>
<td>Receptacle Coupling &amp; Welding</td>
<td>Receptacle shear force</td>
<td>$\geq 25\text{kg}$</td>
<td>Per shift</td>
</tr>
<tr>
<td>Seal seam</td>
<td>Leak rate</td>
<td>$&lt;1 \times 10^{-9} \text{ Pa} \cdot \text{m}^3/\text{s}$</td>
<td>All product</td>
</tr>
</tbody>
</table>

![Quality system](image1.png) ![SGS](image2.png) ![Reach](image3.png) ![Patent](image4.png)
10G Tunable EML TOSA: Mass Production 2021.05
25G Tunable EML TOSA: Mass Production 2021.06

100G APD ROSA: Mass Production 2021.04

100G EML TOSA (single channel): On Development 2021.05
400G FR4 TOSA: On Development 2021.07

100G PIN+SOA ROSA: On Development 2021.03
100G APD ROSA (single channel): On Development 2021.07

100G PIN ROSA (single channel): On Development 2021.06
400G FR4 TOSA: Mass Production TBD
100G APD ROSA (single channel): Mass Production TBD
100G PIN ROSA (single channel): Mass Production TBD
Youopto

CONNECT THE WORLD

THANKS!