3D market trend creating new opportunities in YXLON customer segments

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3D: A global trend evolving rapidly

- Home 3D printers
- TV
- Videos/Apps
- Printing of metallic parts
- Stacking of chips
- Design/Prototyping
Consumer world: 3D is evolving

(Home) 3D Printers

Sales in 2013: 412 m USD
pcs sold in 2013: 56,000
pcs sold in Q1+2 2014: 55,000

3D TV & Cinema

almost every newly released TV model with capability for 3D

3D Camera/ Video/ Apps

Applications and opportunities in the 3D technology market have gradually increased
Consumer market will be outpaced by business applications in the next 3-5 years

3D Printing of metal parts
- fastest growing segment of 3D printing industry

3D Stacking of electronic chips
- >15% expected CAGR of p.a. over next 3 years

3D Design
- First sample testing increasingly in 3D
- ca. 10-12 mio workplaces with CAD SW to design in 3D
In two to five years, there will be greater adoption of enterprise 3D printing.

Source: Gartner (July 2014)
If you want to see inside and 3D, computed tomography (CT) is the only solution.

The demand for professional 3D printing will step up the demand for CT scanners
3D printed metal: Cooling head for welding robot

- Easy production of 3D printed part.
- Single part out of Titan Aluminum / No assembly. No difficult casting.
- Printed within 3h fully automated.
- 100% test desired to assure internal structure and channels.
- Only 3D/CT can give the answer →
Complexity hidden inside: Cooling channels
3D is a technology driver for all six YXLON customer segments

3D printing
3D stacked chips
3D design

Electronics
Tire
Wheel
Foundries
Aerospace
Laboratories & R&D
3D trend driving significant upside potential for YXLON in the coming years 2016 and beyond

Creating more complex objects

Difficult for traditional testing methods

X-ray CT scanning can handle any complexity

3D increasingly adds to YXLON CT Sales
- **Electronics**: 3D Chips & testing in Electronics are here today and growing
- **Aerospace**: 3D printing in Aerospace is a powerful trend and will add strong growth.
- **Foundries** and others: Next adaptors, prototype ➔ small series ➔ …

3D printing
3D stacked chips
3D design
…
YXLON is competitively positioned for 3D/CT

1. Deep understanding of the customer’s processes, decades of experience

2. Unique software platform made to serve average people and not only PHDs.

3. Only company to offer the whole range of CT system sizes and energies, which allows a wider range of parts to be analyzed.

Release of first two system types by end of 2014
Believing in 3D means believing in YXLON

... and as they say:
Seeing is believing
So please join us to have a look at our newest system: the YXLON FF20CT