



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Dr. Sergey Gorny, Laser Center, St. Petersburg

Laser Technical and Technology Cluster in St. Petersburg



ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER

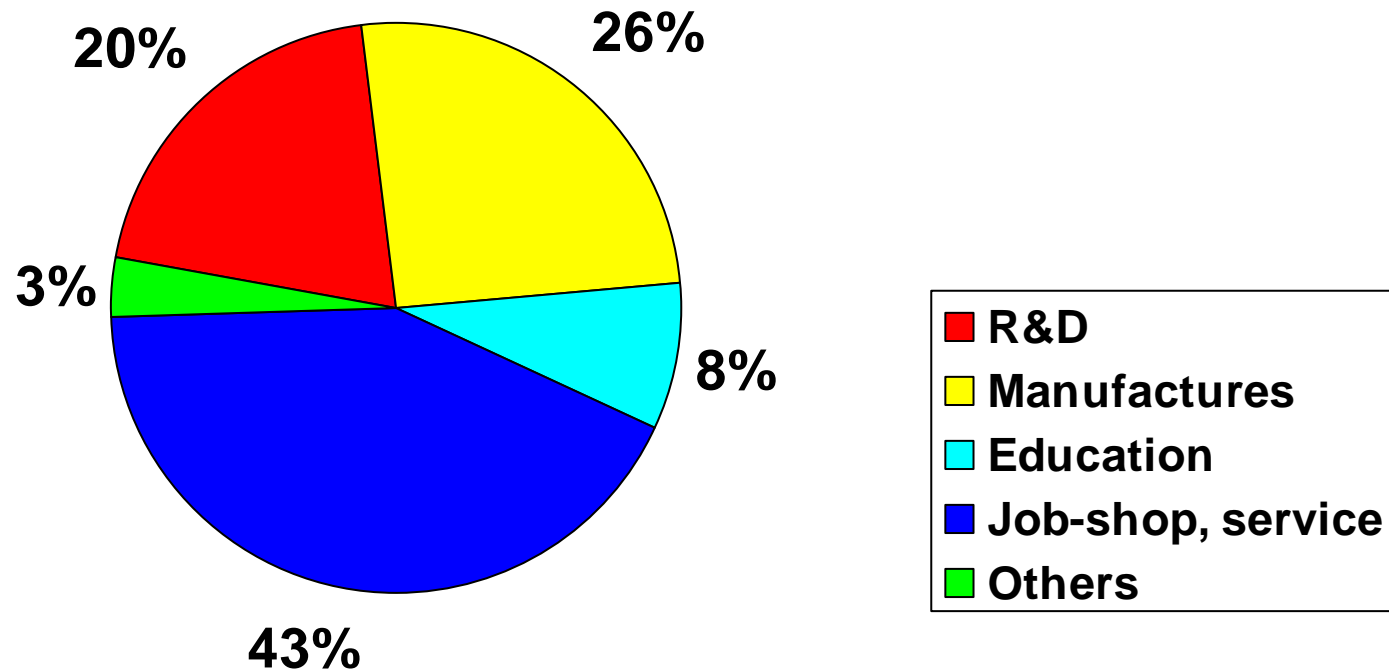
PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU

Innovations St. Petersburg

- Techno Park - 3
- Special Economic area - 2
- Business Incubator - 1
- Innovation Technological Center - 12
- Public Analytical and Measuring Center - 18
- Scientific city «Peterhof» - 1



Structure of St. Petersburg Laser Cluster Activity.





Committee for Economic Development,
Industrial Policy and Trade



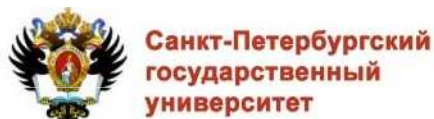
Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Major Laser Cluster Education Organization



National Research University "ITMO"



St. Petersburg State University



St. Petersburg State Polytechnic University



Baltic State Technical University "Voenmeh"



State organization of professional education «Petrovskii college»



PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Major Laser Cluster Research Organization



**Ioffe Physical
Technical Institute**

**Fundamental research in nano
structure, semiconductor and solid
state lasers**



**Institute of Laser
Physics**

**Fundamental and applied research in
different kind high power lasers and
optics**



**Institute of Laser and
Welding Technologies**

**Research high power laser material
processing, technological research in
welding, cutting and etc.**



**Russian Academy
Institute of Analytical
Devises Production**

**Applied research in laser methods and
instruments for control and
measurements different kind materials
and process.**

**JSC Center of
shipbuilding and ship
reconstruction.**

**Applied research in laser technology for
shipbuilding industry**



PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Major St. Petersburg Laser Cluster Manufacturer



Laser Center Ltd

Laser systems for different kind material processing – marking, cutting, welding, melting.



Alcom Medika Ltd

Medical laser systems for surgery, cosmetology, therapy and others



JSC Scientific instruments

Scientific measurement instruments and devices for different applications.



JSC Semiconductor Devices

Systems and devices with semiconductor laser for the wide range applications.



FTI Optronic Ltd

Semiconductor lasers with different parameters.



Elan Ltd, Tydex Ltd

Laser glass, crystal and other components with various parameters



PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Some samples of product from St. Petersburg Laser Cluster

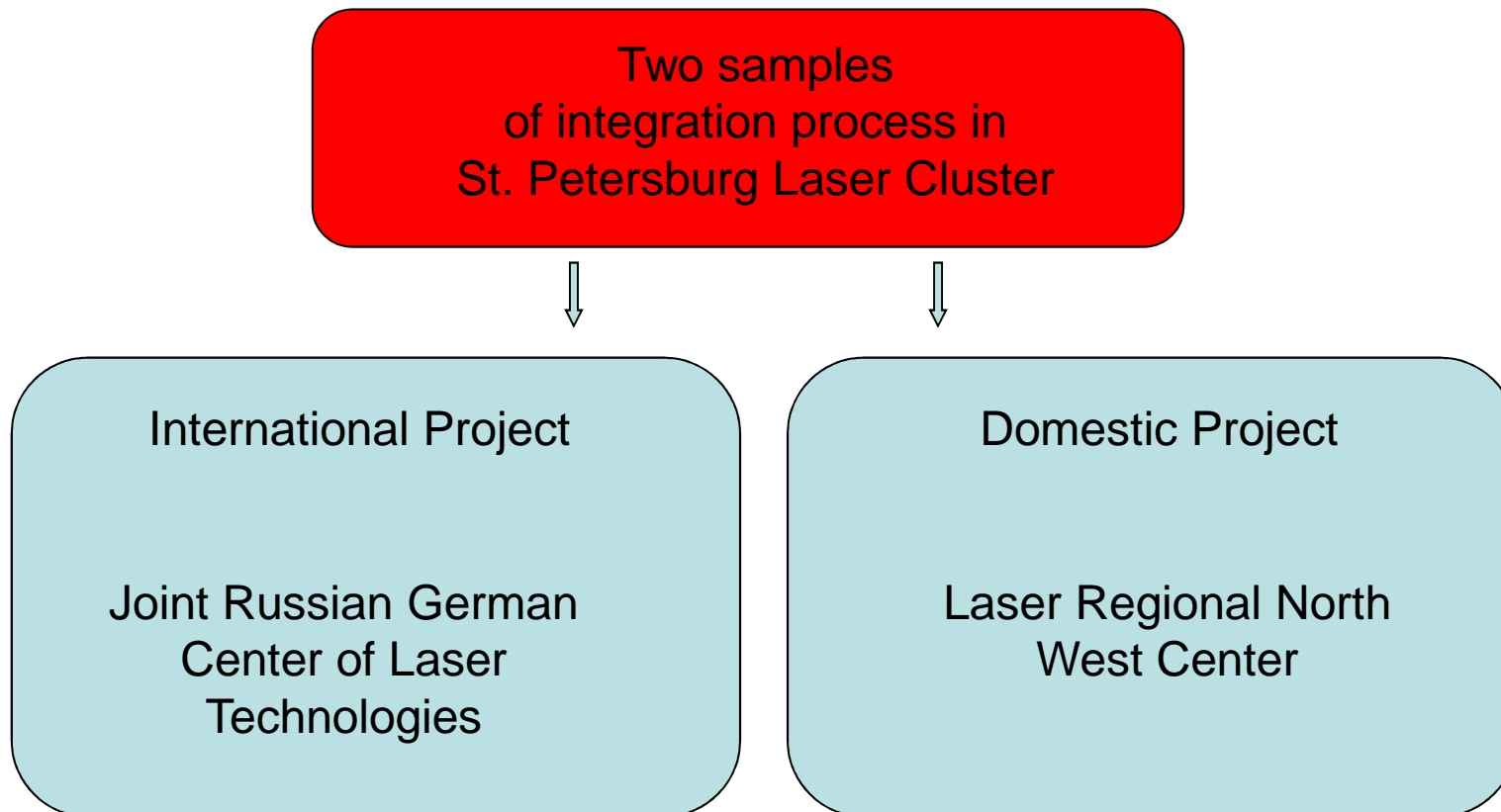


 ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER

PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



St. Petersburg Laser Cluster Integration Process





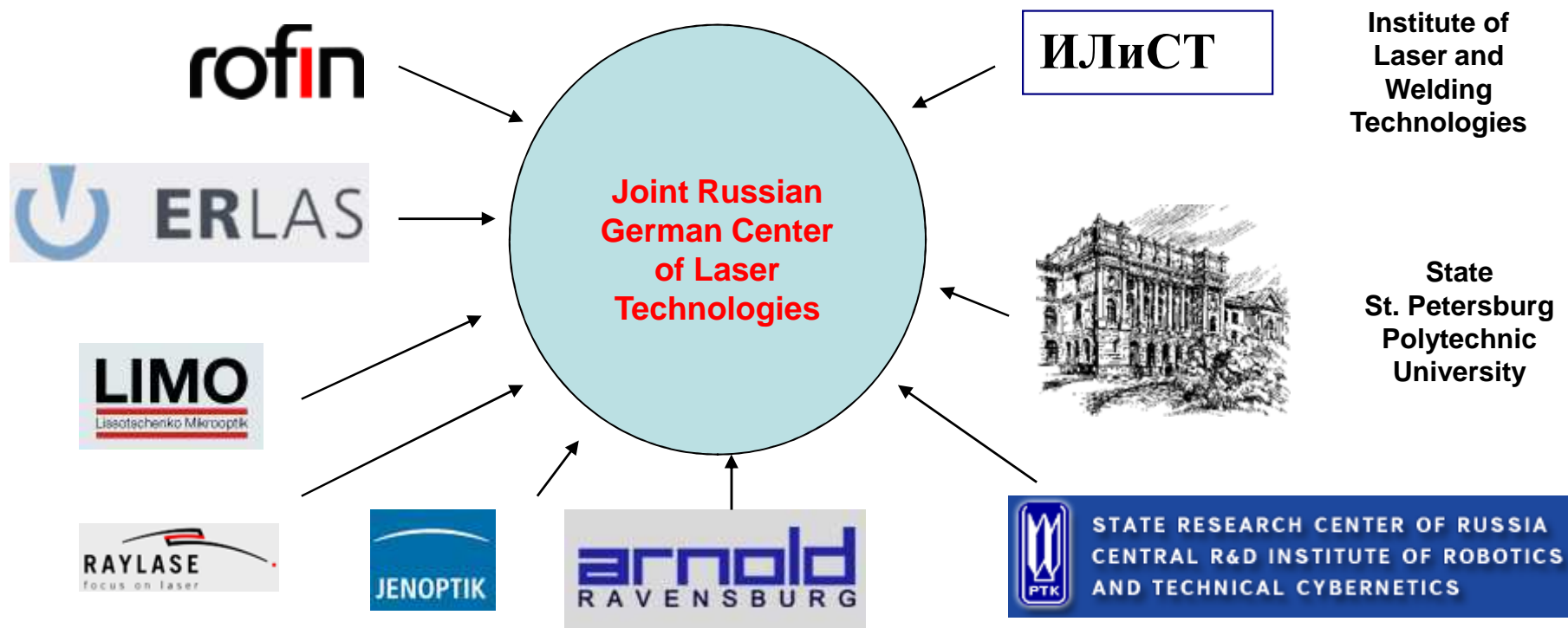
Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Joint Russian German Center of Laser Technologies





Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Technological equipment of Joint Russian German Center of Laser Technologies



 ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER

PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Powerful Activity of Joint Russian German Center of Laser Technologies

- **Research and development in laser and hybrid technology**
- **Technical analysis of different technological solutions**
- **Precise consulting in laser materials processing.**
- **Qualify education and training for specialists.**
- **Exclusive job-shop service.**



Committee for Economic Development,
Industrial Policy and Trade

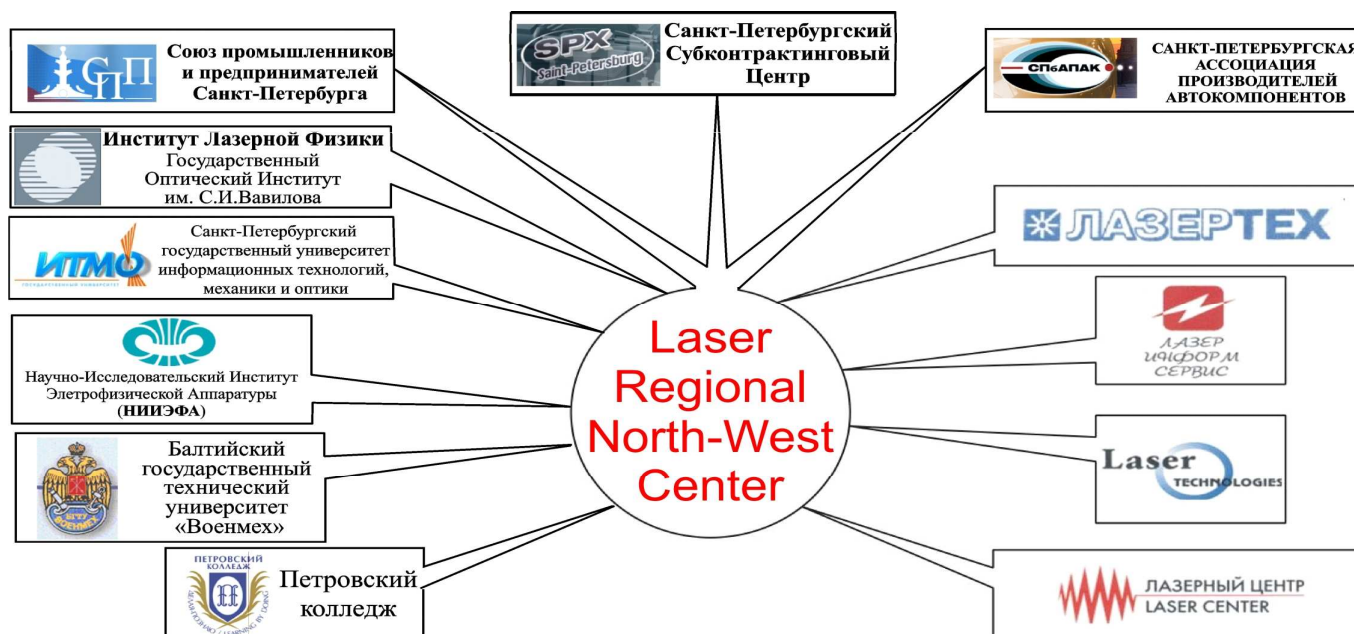


Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Laser Regional North West Center in St. Petersburg Cluster

LRNWC – Union Enterprise Under the Aegis of Laser Association.
Establish 2005.



PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Structure of Laser Regional North West Center



- Offices
- Job Shop
- Manufacture Area
- Scientific Department



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Field of activities of Laser Regional North West Center

Manufacturing and sales	Laser marking and engraving systems; Laser welding systems; New and second hand laser cutting systems
Job Shop	Sheet material cutting Precision metal cutting Marking and engraving Cleaning and deactivation
Service and Repair	All kind laser systems for materials processing
R&D	New design, technology and materials processing
Education and training	Practice for technicians and engineer



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Samples of New Technology and Equipment of Innovation Project of Laser Regional North West Center .

Innovation cycle– idea, research, development and construction,
manufacture, sales and support of innovations product.

Laser precision cutting machine RX-20

Producer – Efremov Institute
(NII-EFA) ,
Laser Center Ltd.



Laser deactivation moving complex

Producer – Laser technology Ltd





Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Manufacturing and sales line of technological equipment of Laser Regional North West Center

Spot welding systems



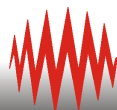
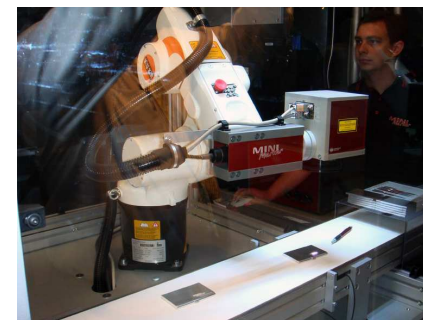
New and second hand sheet metal cutting machine.



Laser engraving and marking machine



Robotic equipment



ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER

PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Some Results of Equipment Sales and Technological Solutions

Year	Installations, pc.	Income volume, Russian roubles	Export volume, US dollars
2005	57	57.300.000,-	67.200,-
2006	88	105.600.000,-	120.530,-
2007	138	179.400.000,-	312.400,-
2008	172	260.500.000,-	560.200,-
2009	122	132.200.000,-	220.500,-

Major Customers – Large Russian enterprises of

RosATOM – NIEFA, ELEMACH, NZCK и др.

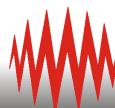
Auto component industry – «VIS», VPZ.

Avia Component industry – «Hydroagregat», «Saturn».

Energy equipment manufacturers – ELTEZA.

GOZNAK enterprises – PGPF, KBF.

In St. Petersburg – «Electrosila», «Tranzas», «Otis-Lift» and others.





Job-shop Program of Laser Regional North West Center

Equipments

Laser cutting machines for sheet metal	– 12
Laser cutting machine for non-metal materials sheet	– 3
Precision cutting systems	– 8
Laser marking and engraving machines	– 15
Special equipment including robotics	– 4





Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Job-shop Program of Laser Regional North West Center

Solutions

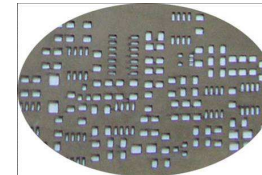
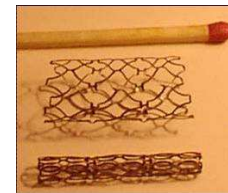
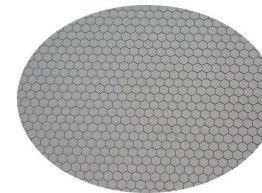
Cutting of sheet metal and tubes



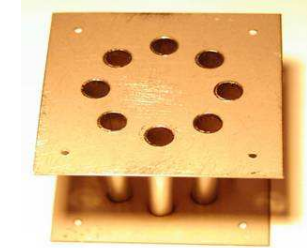
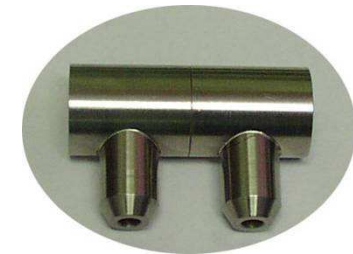
Holes drilling



Precision cutting



Welding and melting



 ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER

PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Job-shop Program of Laser Regional North West Center

Solutions

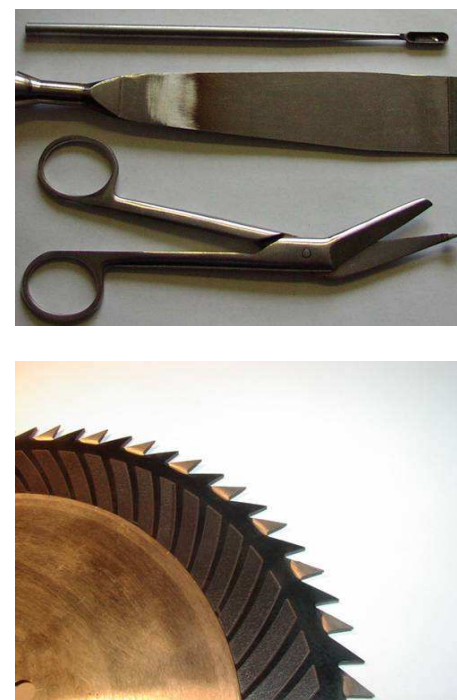
Marking and engraving



Laser cleaning



Heat treatment





Job-Shop Activity Results of Laser Regional North West Center

Year	Customer quantity	Income money, Russian roubles.
2005	57	21.300.000,-
2006	88	35.550.000,-
2007	212	99.435.000,-
2008	376	179.500.000,-
2009	197	102.300.000,-

Major customer – different company of St. Petersburg and North West Region.

In St. Petersburg – Kirovski Zavod, Ighorski Zavod, Lenpoligrafmach & others.



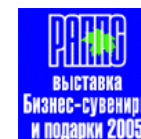
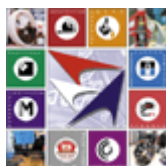
Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Peterburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Exhibition activity.



PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU



Committee for Economic Development,
Industrial Policy and Trade



Government of Saint-Petersburg

VOZNESENSKIY PR., 16, 190000, SAINT-PETERBURG, TEL.:+7 (812) 315-51-52, FAX:+7 (812) 570-35-54, E-MAIL:INFO@CEDIPT.SPB.RU, WWW.GOV.SPB.RU

Thank you for your attention

Don't forget Baltic city St. Petersburg

Welcome to the St. Petersburg Laser Cluster



**ЛАЗЕРНЫЙ ЦЕНТР
LASER CENTER**

PISKAREVSKI PR., 25, OFFICE 304, 195176, SAINT-PETERSBURG, RUSSIA,
TEL.: +7(812) 326-78-92, FAX:+7(812) 380-43-61, E-MAIL: FIN@NEWLASER.RU, WWW.NEWLASER.RU