

MANUFACTURING ENGINEERING COMPANY «GRADIENT»



We respect your business

DESIGNING AND CONSTRUCTION OF THE
FOUNDATIONS AND BUILDINGS FROM
METAL STRUCTURES WITH “GRADIENT”
TECHNOLOGY



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GRADIENT MANUFACTURING ENGINEERING COMPANY

means:

5 years of successful work in the construction of pre-fabricated buildings made of metal structures for various applications: warehouses, industrial complexes, commercial and sports facilities, etc.

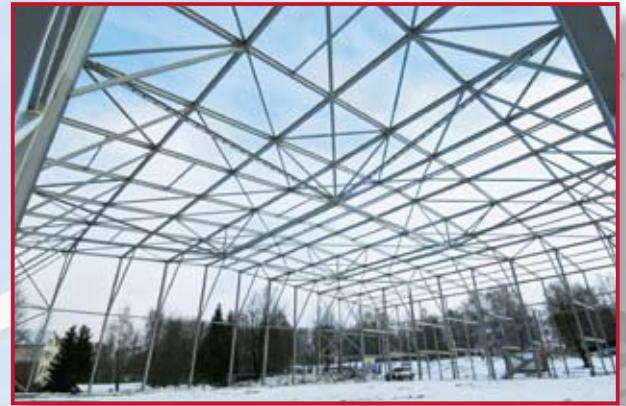
Patent-protected **unique technologies** provide quality building and construction works, at which our customers may save up to 20% of finance and get ready-made facilities on a tight schedule at any time of the year.

The **project department has over 30 design-engineers** applying the best calculation complexes. Permanent experimental work with the state unitary enterprises – the State Central Research and Experimental Design Institute for Building Constructions, Gersevanov Research Institute on Foundations and Underground Structures, Research Institute of Concrete and Reinforced Concrete on testing of elements, blocks and structures in the whole,

the **own park of specialized and unique machinery and equipment numbering 100 units**, the pass-through liability of single enterprise for engineering, construction,

installation and appraisal of more than 80 implemented projects with full compliance with agreed cost of works and construction periods,

quality **control system** – ISO 2001 certification.



FOUNDATIONS ON PILES WITH ENLARGED FOOTING

Grouped in-situ piles with enlarged footing use explosive energy for local compaction of foundation soil, which essentially increases its bearing capacity due to arising of the arch effect. They are applied for a wide range of soils, including marsh-ridden ones. Use of light and mobile drilling equipment allows quick and qualitative installation of proper foundations (up to 300 piles a day), without mud and disturbance of landscaping and improvements.



FOUNDATIONS FOR COTTAGE CONSTRUCTION

The technology of installation of foundations on piles with enlarged footing for non-basement buildings up to 4 floors has proved its efficiency many times. The working rhythm for one site is four zero cycles of cottages a week. As all bearing elements of mix-in-situ concrete are located in warm environment (foam constructional form and soil are below the depth of soil freezing), the technology perfectly suits for winter working conditions.





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BEAM STRUCTURE

By now, several types of column grids of the carrying frame – 6x18m, 9x18m, 12x18m, 15x18m, 18x18m, 6x24m, 9x24m, 12x24m and blocks 24x24m, 36x36m have been applied, which provides flexible installation of support columns in accordance with the requirements for the technology of area leveling and building height.

The specialists of V.A. Kucherenko State Central Research and Experimental Design Institute for Building Constructions have carried out an expertise of the beam structure design solutions. In their opinion, application of modern mathematical tools for spacial calculations of the carrying capacity of structures and unique technologies of construction led to reduction of materials consumption, optimization of labor input and length of construction.

On the tightest schedule, costs of construction of a facility for a customer are

20% less than those of conventional buildings, and project revision is possible in the course of construction. The specialists of the Gradient company learned to make the thinnest floor decks "inserting" reinforced concrete into sections of metal bearing beams. In this way, the building is used to the maximum on its free interior volume.



Dmitrov. Tennis court $S=2160$ sq. m, length – 36 m, height – 12 m.

INDUSTRIAL BUILDINGS



Dorokhovo, Moscow region, Wood Processing plant



S=4600 sq.m



Volokolamsk, Moscow region. Paste manufacturing plant



S=4554 sq.m



Samara. Greenhouse



S=2500 sq.m



Dedovsk, Moscow region. Textile production



S=2400 sq.m

CAR TRADING CENTERS



RENAULT Zele-
nograd, Moscow
region, 17 km from
Moscow,
S=5000 sq.m.



CITROEN Moscow,
Pomorskaya str,
S=2540 sq.m.



Car trading center in
Noginsk Moscow region



S=8500 sq.m.

WAREHOUSE AND ADMINISTRATIVE BUILDINGS



Moscow S=1800 sq.m



Bakovka, Moscow region. S=4000 sq.m

TRADING CENTERS



Trade and Entertainment Center "Novakhovo"
Nikolo-Uryupino, Moscow region



S=12000 sq.m.



Trade Center "Perekrestok"
Lipetsk



S=11600 sq.m



Trade Center "Cherkizovo"
Moscow



S=14000 sq.m

WAREHOUSES



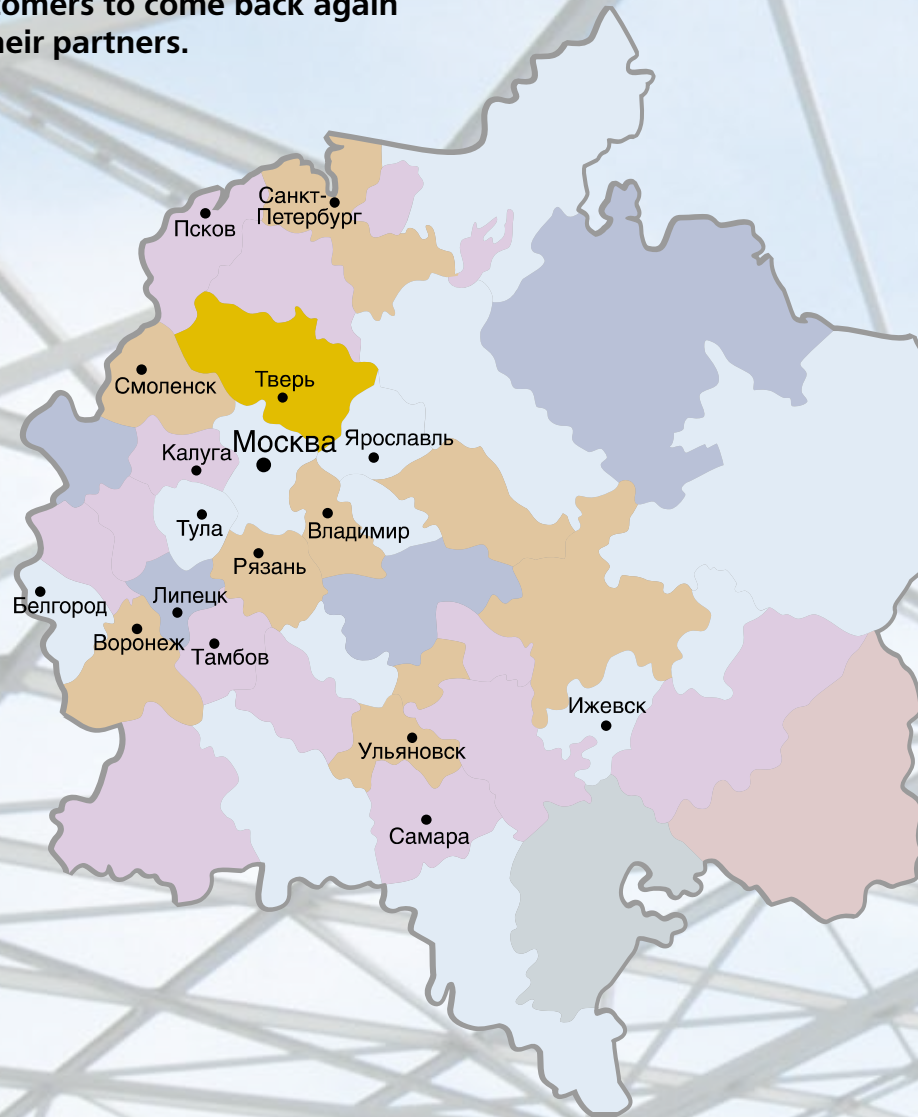
Administrative and warehouse complex S=8000 sq.m. Klimovsk, Moscow region.



Warehouse S=2000 sq.m. Snegeri, Moscow region.

GEOGRAPHY OF OUR PROJECTS

At present, buildings made of metal structures by GRADIENT manufacturing engineering company can be seen not only in Moscow and Moscow region, but also in Leningrad, Pskov, Belgorod, Kaluga, Tver, Smolensk, Ryazan regions as well as in Samara, Voronezh, Lipetsk, Stary Oskol. Full quality conformance and compliance with terms of contracts stimulate customers to come back again and recommend us to their partners.



We have partnership relations with more than 40 Russian and foreign plants producing metal, protective and roofing materials. Among our customers are state and commercial enterprises: State Unitary Enterprise of Experimental Constructions, holding Stroitekh Group, plant Kampomos, CJSC Municipal Unitary Enterprise Khrapunovo, LLC Grand and Co., Dmitrovsky Stroitelny Kompleks (Dmitrov Building Complex), LLC Vertikal, Research and Production Company Adonis, LLC Industrial Complex Khimpak, LLC Avira-Stroikom, CJSC Ekonomist, LLC SLK-Stroi, LLC Avtoforum, LLC Power Alliance, CJSC SIVMA, LLC Royal Agro, LLC Strata Stroi, LLC Gorizont, LLC TekhPromGroup, CJSC MBF-Stroi, LLC Lipetsky Zavod Stroitelnykh Materialov (Lipetsk Plant of Construction Materials), LLC AI Trade, LLC Aktiv Servis, CJSC ARST, LLC Zodiak, CJSC Invest-Stroi, LLC Profil-Stroi, CJSC Mega-Stroi, LLC Construction and Manufacturing Company Nadezhda, LLC Stroi-Art, LLC Artiko, LLC Avtoforum, LLC TOS, LLC Construction and Manufacturing Company Central Research Institute of Patent Information and Technical and Economic Research MONOLIT, CJSC Upakovochnye Sistemy (Packaging Systems), LLC Construction Company Alliance +, LLC Kommerchesky Operator Russky Energetichesky Kompleks, LLC Vysshaya Liga Stroitelstva, LLC Evro-Proect, LLC SZHK, LLC Spako-Agrostroinvest, LLC Mytishchi Road Construction Directorate, LLC Construction Company Montazhnik, CJSC Resurs-F and many others.

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