



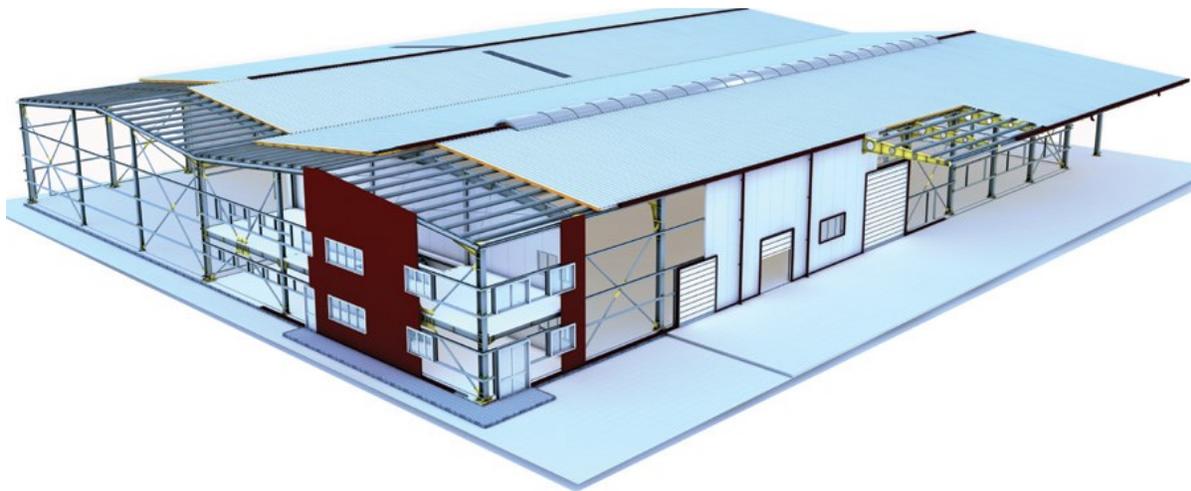
QUANTUM
G R O U P

Your partner from design to achievement

QUANTUM GROUP proved to be your trusted partner even from planning up finalizing any investment in steel structures field and related.

Even if we talk about structural design, executing/producing steel structures, architectural systems as distinct elements and aggregating them as complete packages as steel buildings, building multi-storey or general contractor services on various objectives and all domains/specializations, QUANTUM GROUP offer the best solutions.

QUANTUM GROUP is a representative company in the steel construction, certified and officially recognized by diplomas still made, offering complete solutions for industrial buildings, warehouses refrigeration, construction and agricultural buildings, steel structures for any industry and any construction related to them and also installations performed by the contractor.



Company

Since the beginning the goal was the establishment of an organization that provides complete solutions and all the necessary expertise for steel structures on the regional and national market. The success of this project was possible only with a modern and correct approach.

Price competitiveness, as a result of continuous optimization of business, seriousness towards beneficiaries, quality proven products and solutions offered have imposed the Quantum Group concept on the national market, but also on the international market, in countries such as France, UK, Italy, Switzerland or The Scandinavian countries, where steel structures have been delivered.

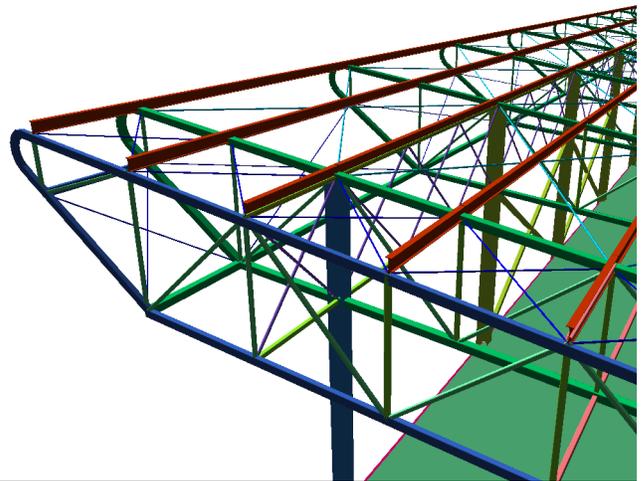
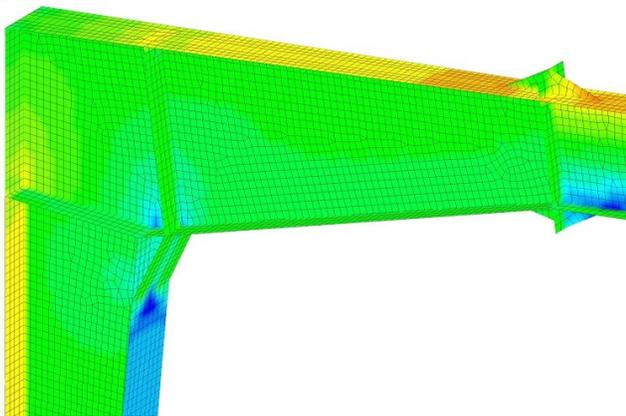
The company has 125 employees and three main business divisions:

- Industrial design;
- Manufacturing of steel structures;
- Construction and assembly.

Industrial design

The design software used (GRAITEC, Tekla) is BIM integrated with the architecture software (Autodesk, Nemetschek) to ensure the safest and most optimal solutions. The use of specialized tools generates optimized metal consumption, that provides the lowest cost, while improving the quality of the construction.

GRAITEC
100 (1.0261 Q1-1.512 N)
1.000 - 3D Element plan: tek_000
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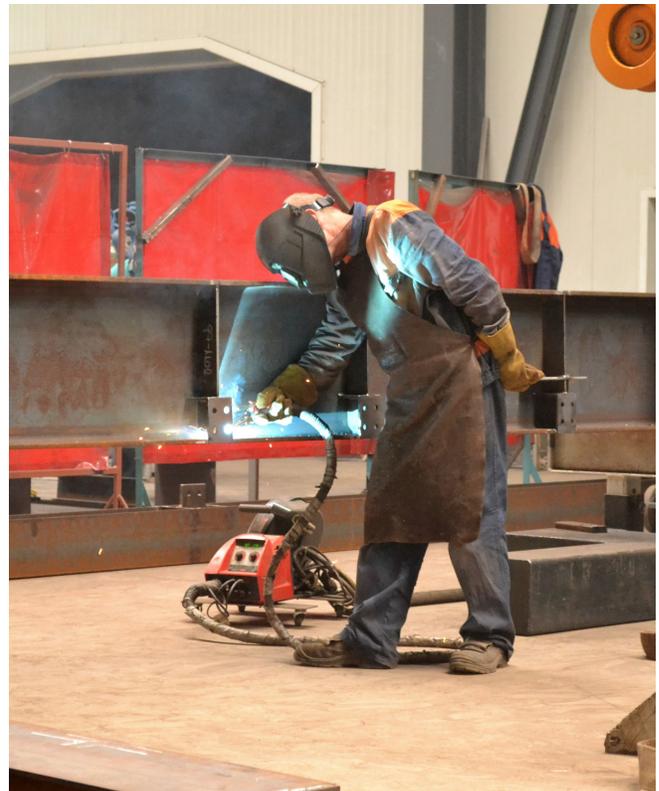
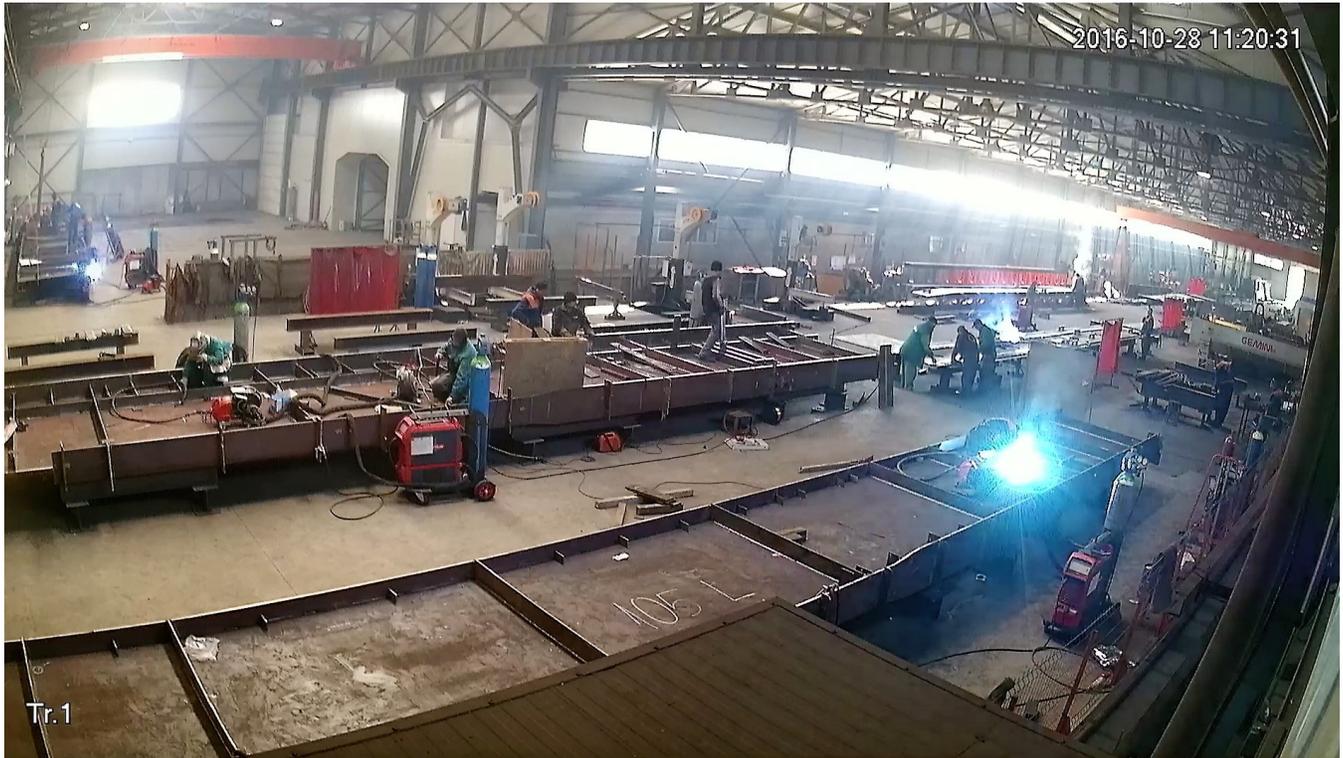




Manufacturing of steel structures

It is one of the main areas of activity of Quantum Group, area where we have modern manufacturing equipment and a production capacity of 5.000 tones/year.







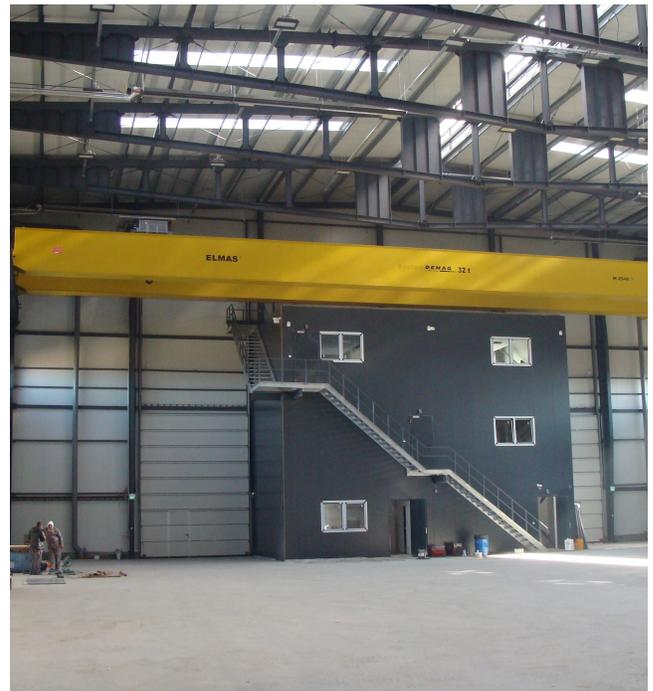
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Construction and assembly

The experience of the 7 teams that serve the Construction and assembly division, along with performant technologies and equipment, confer the guarantee of quality of our products and services.









The material base of production

With a production base that is carried out on 80,000 sqm, of which 15,000 square meters allocated only to steel structures production (8.000 sqm halls and 7.000 sqm concrete platforms), we can say that we are a reference manufacturer locally and an important one nationally.

The resulting metal products are of any type, size, area of applicability, both europrofiles and welded plates of any thickness, including operations of cutting, reaming, threading, drilling, rolling, guillotine, bending, pressing, blasting, painting, and so on.



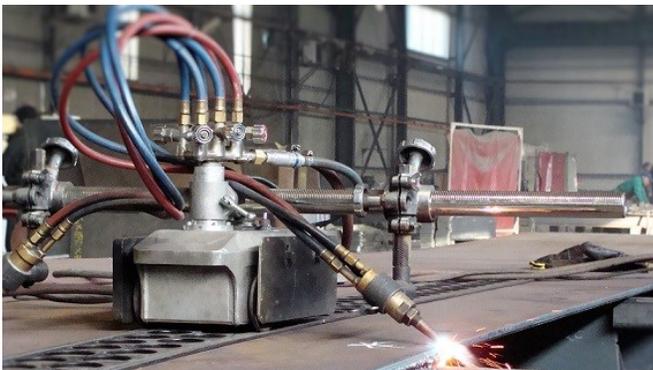
Profile processing:

- CNC Ficep Saw - profile cutting at different angles up to 1000 mm, in batch including;
- CNC Ficep Saw - profile cutting at different angles up to 600 mm, in batch including;
- NC Meba Saw - profile cutting at different angles up to 700 mm;
- CNC Ficep drilling unit - 3-axis drilling in profiles of up to 1200mm, marking/scribing, threading;
- CNC cutting Ficep Robot - oxy-fuel and Hyperther 260 XD plasma cutting, all profiles up to 1200 mm, including square and round pipes;
- Peddinghaus multifunctional scissors (cutting, drilling, stamping, etc) angles, UPN, europrofiles.



Thick plates processing:

- Gemini (Ficep) 2500x12000 plate processing unit - plasma table /oxy/drill - plates cutting with 3 oxy heads and 1 Hypertherm 260 XD plasma head. Drill up to 32 mm or 240 by milling, milling head, threading, marking/scribing, reaming - processing plates of thickness up to 100 mm, including Hardox;
- Peddinghaus multifunctional scissors (cutting, drilling, stamping, etc) thick plates;
- Chamfering by milling unit;
- Koike cutting unit (2 units).



Assembling, welding:

- Fronius automatic welding installation, passing width up to 1900 mm;
- 10 synergistic Fronius500A sources, Esab, Jakle;
- 12 Kempfi inverters.



Lifting equipment:

- 8 t overhead crane (2013);
- 2 x 3.2 t overhead cranes (2014);
- 2 x 10 t overhead cranes;
- 3 sforklifts - Bauman, Kalmar, TCM;
- 18 t crane;
- Rotative Manitou 5 t / 21 m;
- 3 nacelles;
- 2 Rotating sets.



Corrosion protection:

- Tunnel for blasting / painting / drying - double way, 120 m length
 - 2 blasting cabins 14000x4000x5000 - working simultaneously (parts up to 28000 mm);
 - 2 painting/drying cabins 14000x4000x5000 - working simultaneously (parts upto la 28000 mm);
- 4 airless pumps.





Separate hall for final drying process, packing, labeling and delivery.



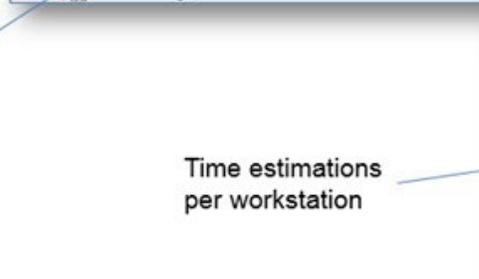
Workflow representation and automatic routing



Fabrication job components

Order	Phase	Accessories	Component	Profile	Shape	Quantity	Length	WSP
100	PLT50			PLT50	1	10	10.00	10.00
101	PLT50			PLT50	2	10	10.00	10.00
102	PLT50			PLT50	3	10	10.00	10.00
103	PLT50			PLT50	4	10	10.00	10.00
104	PLT50			PLT50	5	10	10.00	10.00
105	PLT50			PLT50	6	10	10.00	10.00
106	PLT50			PLT50	7	10	10.00	10.00
107	PLT50			PLT50	8	10	10.00	10.00
108	PLT50			PLT50	9	10	10.00	10.00
109	PLT50			PLT50	10	10	10.00	10.00
110	PLT50			PLT50	11	10	10.00	10.00
111	PLT50			PLT50	12	10	10.00	10.00
112	PLT50			PLT50	13	10	10.00	10.00
113	PLT50			PLT50	14	10	10.00	10.00
114	PLT50			PLT50	15	10	10.00	10.00
115	PLT50			PLT50	16	10	10.00	10.00
116	PLT50			PLT50	17	10	10.00	10.00
117	PLT50			PLT50	18	10	10.00	10.00
118	PLT50			PLT50	19	10	10.00	10.00
119	PLT50			PLT50	20	10	10.00	10.00
120	PLT50			PLT50	21	10	10.00	10.00
121	PLT50			PLT50	22	10	10.00	10.00
122	PLT50			PLT50	23	10	10.00	10.00
123	PLT50			PLT50	24	10	10.00	10.00
124	PLT50			PLT50	25	10	10.00	10.00
125	PLT50			PLT50	26	10	10.00	10.00
126	PLT50			PLT50	27	10	10.00	10.00
127	PLT50			PLT50	28	10	10.00	10.00
128	PLT50			PLT50	29	10	10.00	10.00
129	PLT50			PLT50	30	10	10.00	10.00
130	PLT50			PLT50	31	10	10.00	10.00
131	PLT50			PLT50	32	10	10.00	10.00
132	PLT50			PLT50	33	10	10.00	10.00
133	PLT50			PLT50	34	10	10.00	10.00
134	PLT50			PLT50	35	10	10.00	10.00
135	PLT50			PLT50	36	10	10.00	10.00
136	PLT50			PLT50	37	10	10.00	10.00
137	PLT50			PLT50	38	10	10.00	10.00
138	PLT50			PLT50	39	10	10.00	10.00
139	PLT50			PLT50	40	10	10.00	10.00
140	PLT50			PLT50	41	10	10.00	10.00
141	PLT50			PLT50	42	10	10.00	10.00
142	PLT50			PLT50	43	10	10.00	10.00
143	PLT50			PLT50	44	10	10.00	10.00
144	PLT50			PLT50	45	10	10.00	10.00
145	PLT50			PLT50	46	10	10.00	10.00
146	PLT50			PLT50	47	10	10.00	10.00
147	PLT50			PLT50	48	10	10.00	10.00
148	PLT50			PLT50	49	10	10.00	10.00
149	PLT50			PLT50	50	10	10.00	10.00

Part preview



Time estimations per workstation

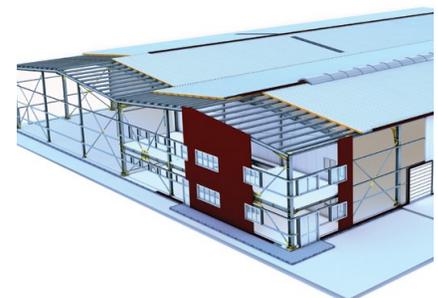
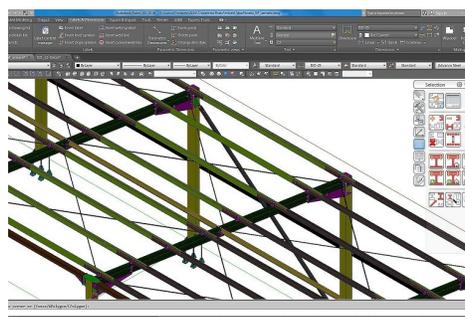
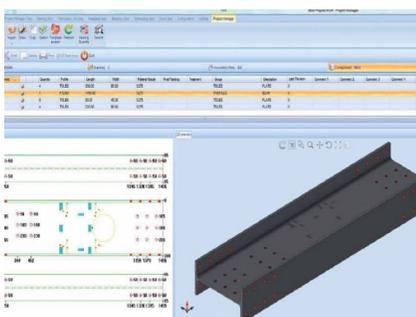
Name	Quantity	Quantity	Weight	Time	Time	Shop Drawing
DEMO						
LAYOUT1	0	0.00 %	0.00	< 1min	0.00 %	
LAYOUT2	19	2.63 %	0.00	02:59	4.57 %	
RB1500G_2	19	2.63 %	34841.58	< 1min	0.00 %	
120300B_2	18	2.49 %	33110.13	00:41	1.05 %	
120400RC_2	1	0.14 %	1731.42	00:32	0.83 %	
EXITZ	19	2.63 %	34841.58	< 1min	0.00 %	
LAYOUT3	0	0.00 %	0.00	< 1min	0.00 %	
LAYOUT M	703	97.37 %	0.00	340:12	518.60 %	
SHIPPING	0	0.00 %	0.00	< 1min	0.00 %	
M-PLATES	582	80.61 %	0.00	37:09	56.63 %	
M-BEAMS	121	16.76 %	0.00	51:03	77.83 %	
A164T	4	0.55 %	2254.91	00:04	0.10 %	
SAW	0	0.00 %	0.00	< 1min	0.00 %	
SHOTBLAST	121	16.76 %	399566.04	04:10	6.35 %	
DRILL	0	0.00 %	0.00	< 1min	0.00 %	
ROBOT	7	0.97 %	12122.39	00:40	1.04 %	
DRILL-SAW	110	15.24 %	385188.74	03:50	5.85 %	
HGG	0	0.00 %	0.00	< 1min	0.00 %	
M-ASSEMBLY	42	5.82 %	0.00	252:00	384.14 %	

Software

- Steel Project PLM - integrated with the system of CNC machines;
- Design software (Graitec, Tekla, Nemetschek) integrated with the factory management system (own design department with cu 4 design engineers);
- ERP Charisma, Primavera, Software BI (Tableau Software).

Possibility of total automation of the technical project:

- import XML, DSTV, DXF, DWG, etc in Steel Project PLM (Soft workshop and CNC commands for machines, automatic nesting, automatic marking, command, traceability)
- Planing (Project Management Primavera)





EN ISO 3834-2
EN 1090-1:2009+A1:2011
EN 1090-2:2008+A1:2011



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Small & Medium Enterprises

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