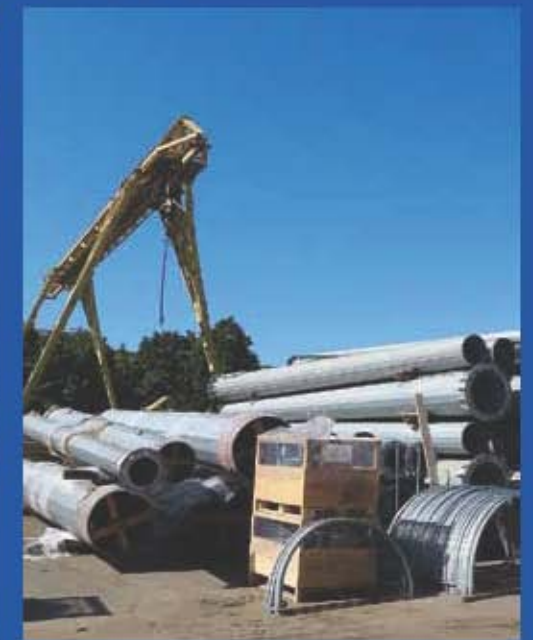




2016

CELLULAR COMMUNICATION

АМІРА 25^{лет}
ГРУППА КОМПАНИЙ





"AMIRA" Group of Companies was founded in 1991 and is one of the leading manufacturers and suppliers of outdoor lighting equipment, lightning rods and different metal ware. AMIRA specializes in designing, production, delivery and installation of outdoor lighting systems.

Manufacturing enterprises of "AMIRA" Group of Companies:

- "Amira-StalKonstrukcia Ltd." – production of lighting steel polygonal poles in height from 3 up to 50 m. Location- Saint-Petersburg. Capacity – up to 30 000 pcs.per year. The steel thickness – up to 8mm.
- "Megapolis Ltd." – production of lighting steel polygonal poles as well as steel round conical poles in height from 3 up to 100 m. Location- Leningrad region, Tosnensky district. Capacity – up to 60 000 pcs.per year. The steel thickness – up to 25mm.
- "Amira-SvetoTechnika Ltd." – production of lighting equipment. Location- Saint-Petersburg. Capacity – up to 100 000 pcs.per year.
- "Amira-Energo Ltd." – production of tubular poles, base plates, brackets and different metal ware. Location- Saint-Petersburg.
- "Petrosvet" – construction works, designing of outdoor lighting systems.

"AMIRA" Group of Companies possesses an international Certificate of quality management system compliance with the regulations of the ISO standard 9001:2008 # 13.0894.026, valid till the 11 of May 2016. "AMIRA" Group of Companies has implemented and maintains a Management system for the following field of activities: design of constructions and buildings, electric lighting and power supply; development of estimate documents; manufacture of masts for outdoor lighting, contact network and connection units; production of floodlights and outdoor lamps; earthworks; assembling of wooden, concrete and ferroconcrete constructions; insulating operations; land improvement; mounting, start-and-adjustment works of electrical devices; arrangement of indoor/outdoor networks and communication networks; organization of wholesale of lighting and power equipment. On the 30 of June 2015 took place the opening of the factory "Megapolis Ltd." in Leningrad region. The factory "Megapolis Ltd." is the high-tech production of the long-length metal ware including the closed tubular profile. The poles are made of steel by bending and protected from corrosion by hot dip galvanizing. Used material made in JSC "Severstal" Cherepovets, JSC "NLMK" Lipetsk, JSC "Magnitogorsk iron and steel works" Magnitogorsk.

The technology is based on high-performance press with capacity from 1000 to 2000 tons, the length of the working zone of 12 to 14 m. These presses allow bending the steel sheet with the thickness up to 25mm. The technology line includes four welding lines for details "circular"- closed cross-section up to 350mm ; they allow to obtain a continuous seam on a length of 14 m by two welding types: CO₂ and submerged-arc welding. Two larger welding lines allow obtaining welding diameter of 0.7 to 2.0 m. Wilding line for the long-length ware includes two burners and uses the submerged-arc welding type with the backing electrode, this system allows to achieve the best quality seam. All technological operations connected with the loading and unloading systems. Cutting blanks from a metal sheet produced plasma cutting equipment.

We are constantly working to expand the range. Implemented a quality management system, modern software for computer-aided design of steel constructions. Specialists, equipment and technology are certified by NAKS.

This brochure presents a brief list of products. The full list you can know from the "Technical catalogue".



POLE RMG

ANTENNA MAST STRUCTURE, DEMOUNTABLE

Mast for cellular communication is the vertically mounted rod which is held in a vertical position by means of steel ropes fixed on the ground or on the roof of the building.

Application:

- For base station of mobile communication
- For antenna radio relay communication
- For television and radio antenna
- For navigation and radar communication system
- For amateur radio
- For network Wi-Fi
- For telemetry and system remote access
- For electricity and lighting

Technical parameters:

- The range of heights from 10 up to 60 meters
- The max weight of the payload – up to 800 kg
- The wind pressure – to IV wind region, according to SNiP 2.01.07-85*

Standard completeness:

- The supporting structure
- Mounting parts for ropes
- The rope with metal core
- Wheel fasteners
- Assembly instruction

Additional completeness:

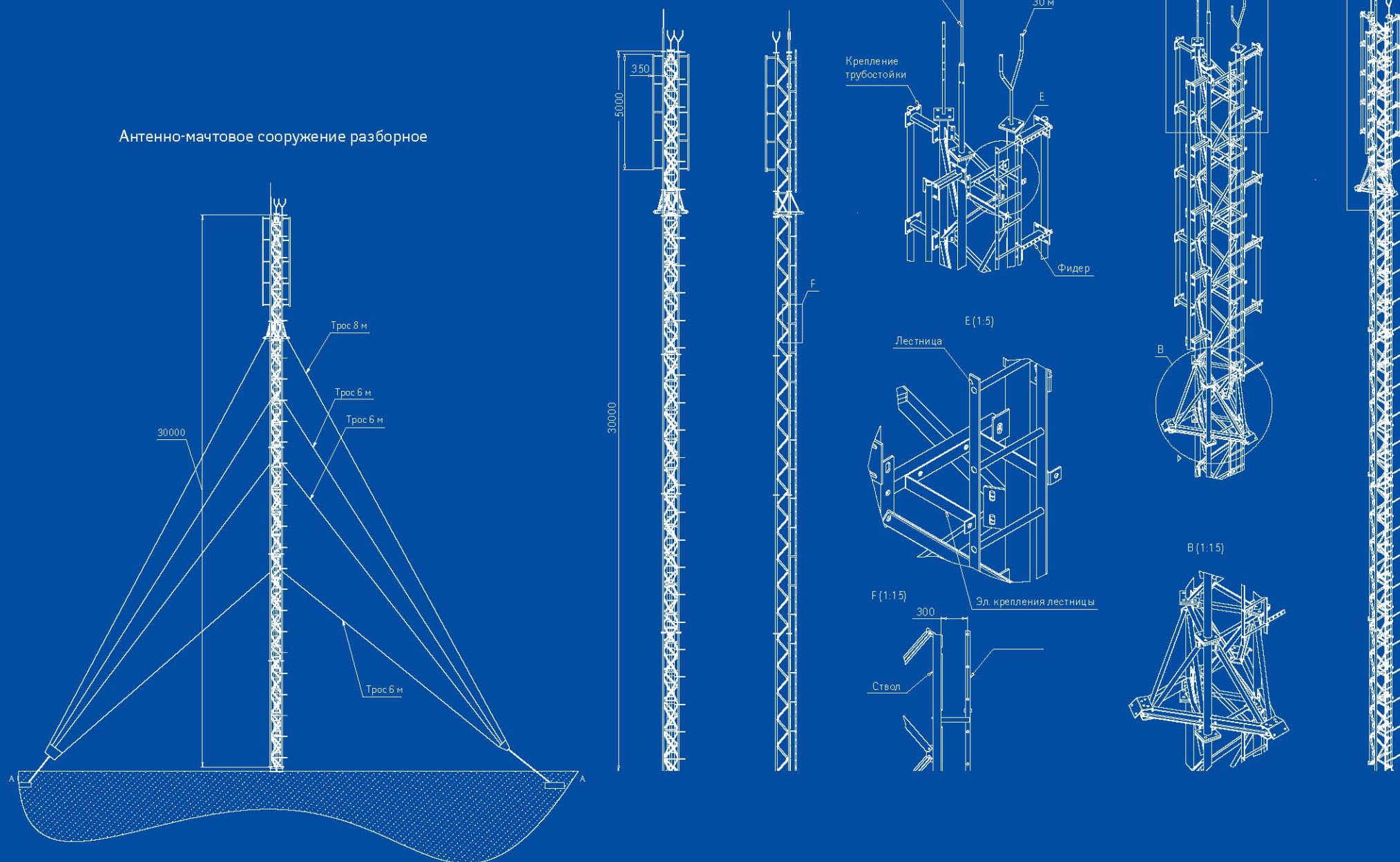
- Brackets for installation of equipment
- Security system on the staircase
- Anchoring details
- Lightning protection system
- Light fence system
- The system of protection against unauthorized access

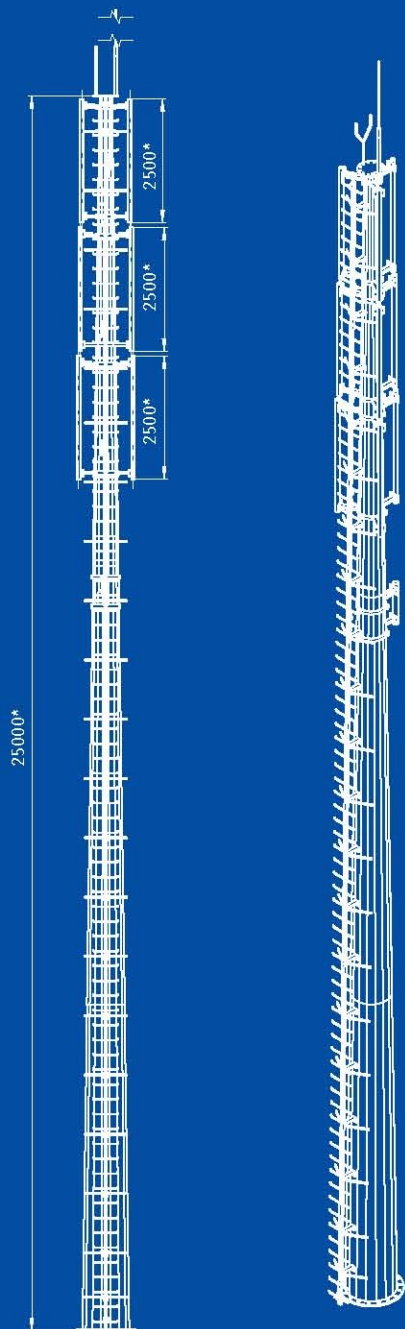
Poles are protected from corrosion by hot dip galvanizing (SNiP 2.03.11-85)

Equipment for installation:

- 1) Parabolic antenna radio relay station with the radio module unit
- 2) Panel antenna GSM
- 3) Panel antenna WCDMA
- 4) Radio module unit FHEA Flexi RRH
- 5) Radio module unit FRGP Flexi RF Module

Антенно-мачтовое сооружение разборное





POLE RMG

ANTENNA MAST STRUCTURE

Mast for cellular communication is designed for installation of radio repeaters to ensure stable coverage. Usage environment: I-V wind regions. The range of height is up to 50 meters. Mast includes several conical segments, as addition (by request) ladder cage and maintenance platform. The masts are made of steel by bending; the material depends of climatic area.

Equipment for installation:

- 1) Radio relay station (Antenna PPC)
- 2) The outdoor radio unit PPC
- 3) Base station Nokia Flexi Multiradio 900/1800
- 4) The outdoor radio module unit FHDA Flexi RRH 900/1800
- 5) Base station Nokia Flexi WCDMA 900/2100
- 6) Panel antenna WCDMA 900
- 7) The outdoor radio module unit FRGP Flexi RF Module 900/2100
- 8) The mount unit FM FA
- 9) Ladder

POLE RMT. TUBULAR RADIO MAST

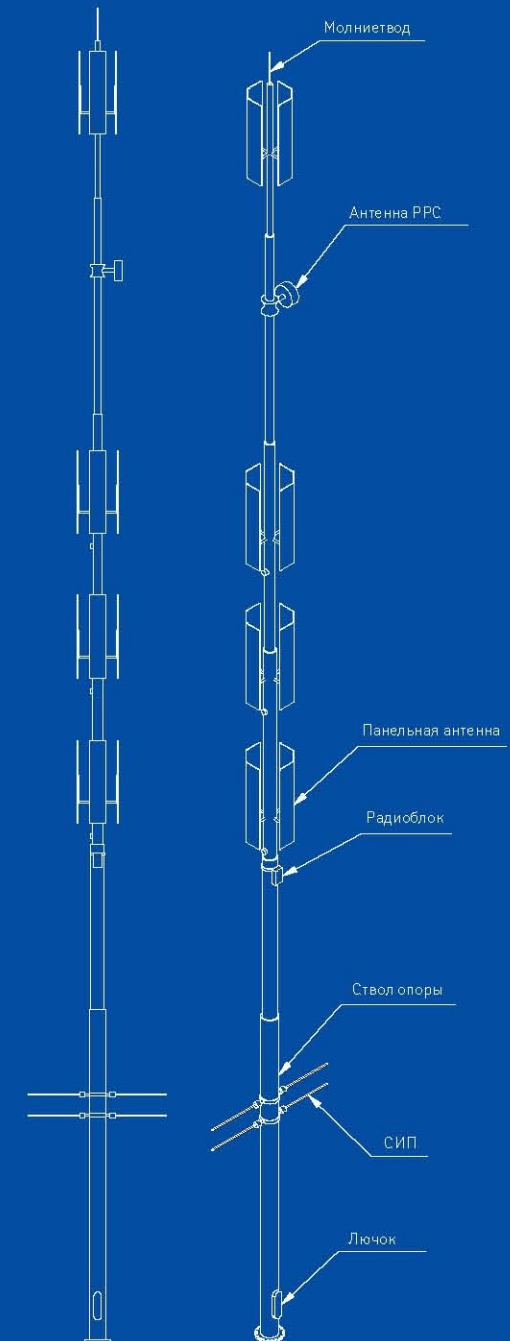
PROMOTIONAL ANTENNA MAST STRUCTURE

Mast is designed for installation of radio and lighting equipment. Mast includes several steel tubular segments and the lightning rod on the top. Poles are protected from corrosion by hot dip galvanizing.

On request, the mast can be painted in any color.

Equipment for installation:

- 1) Radio relay station (Antenna PPC)
- 2) The outdoor radio unit PPC
- 3) Base station Nokia Flexi Multiradio 900/1800
- 4) The outdoor radio module unit FHDA Flexi RRH 900/1800
- 5) Base station Nokia Flexi WCDMA 900/2100
- 6) Panel antenna WCDMA 900
- 7) The outdoor radio module unit FRGP Flexi RF Module 900/2100
- 8) The mount unit FM FA



CERTIFICATES



CERTIFICATES

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CERTIFICATES



НАЦИОНАЛЬНОЕ АГЕНТСТВО КОНТРОЛЯ СВАРКИ

СВИДЕТЕЛЬСТВО

НАКС-08-01734
об аттестации сварочного оборудования
в соответствии с требованиями ЕД 05-614-01

**Организация: Общество с ограниченной
ответственностью "Амра-СтальКонструкция"**
(ООО "Амра-СтальКонструкция", ул. Волковская д. 30, кв. 121)
(зарегистрировано в СРО)

Вид работ: **Паркет**

№№ п/п СД	№№ п/п Технических заданий	Аттестация (заказчик/исполнитель)	Вид (марка) сварки	Трудовые единицы работы
АД-02	Техническое задание 2700	00000004	АВГ *	СР

Подписано:

Специалист (подписывает решение и сертификат)

Примечание: Протокол заседания № АД 01-08-01734 от 05.05.2014 г.
Наименование и организационный адрес АД 01-08-000 "Национальный Сварочный Информационный Автоматизированный Центр", 191009, г. Санкт-Петербург,
Шувалов проспект, дом 3.

Дата выдачи 15.05.2014 г.
Срок действия свидетельства до 15.05.2017 г.



Присвоен НАКС _____ И.П. Антонов

[illegible]

“AKVAFON – GSM”, mast for cellular communication RMG, Abkhazia



“AKVAFON – GSM”, mast for cellular communication RMG, Abkhazia



“MEGAFON” , mast for cellular communication RMG, Valaam island



“MEGAFON” , mast for cellular communication RMG, Valaam island



“TELE 2 RUSSIA”, mast for cellular communication RMG, Smolensk



“MEGAFON”, mast for cellular communication RMG, Surgut



“MEGAFON” , mast for cellular communication RMG, Murmansk





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