

Domitran

***Composite Technologies
Industrial Innovations***

Product catalogue

Brand Heritage



Domitran is a family company with strong industrial design engineering and manufacturing innovation heritage dating all the way back to 80s.

Composite Technologies



Developing and manufacturing of various composite parts according to our customer needs, we are offering high quality products in the fields of water, maritime, energy & renewables and oil & gas industry.

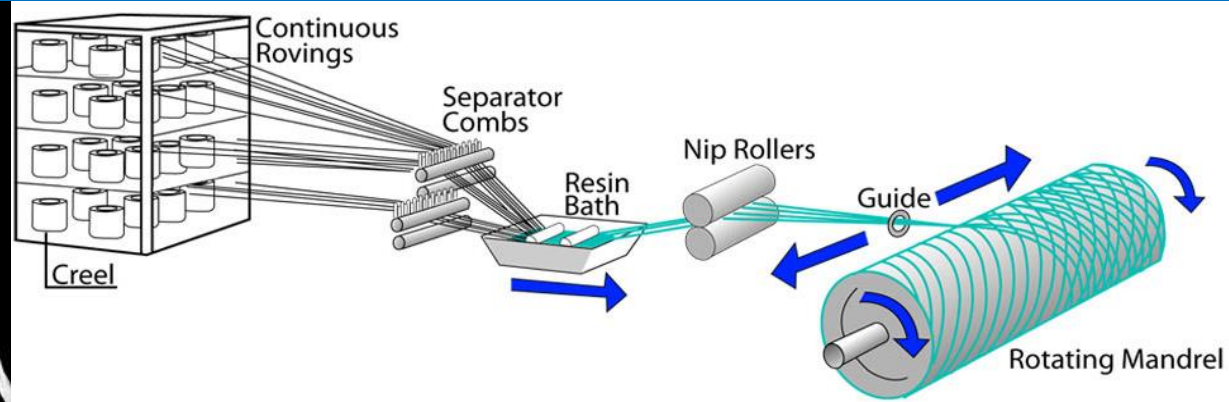
Industrial Innovations



Our team's extensive know-how and experience from numerous projects in many industries provides solutions with high additional value, taking into account various excellence indicators.

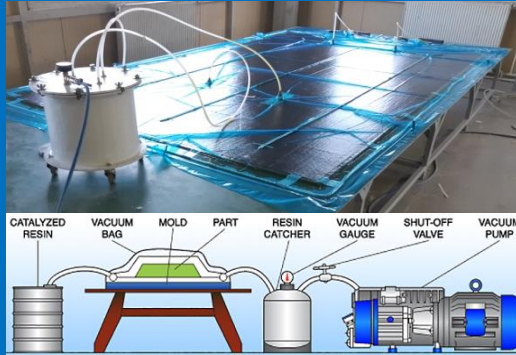


Filament Winding



Domitran is one of the world's industry pioneers dealing with Filament Winding Technologies from 90s. The process uses a continuous length of Direct Single End Roving and results in a shell of materials with high Strength-to-weight ratio due to the high percentage of glass in the composite matrix. This process is primarily used for hollow, generally circular or oval sectioned components, such as pipes and tanks. Fibre tows are passed through a resin bath before being wound onto a mandrel in a variety of orientations, controlled by the fibre feeding mechanism, and rate of rotation of the mandrel.

Vacuum Infusion

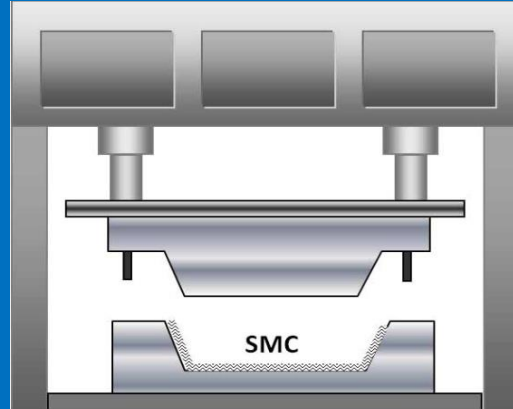


Vacuum Infusion Process

GRP / CRP Plates up to 3x6 m
Water Jet Cutting to Final Shape

Diferent Shapes at Request

SMC / BMC / RTM



Compression Molding Process

Prepreg / Epoxy / Polyester resin

Hand Lay-up



Fiber & Resin Open Molding

Complex Shapes



Pipes / Tubes



GRP/ FRP Composite Pipe

Filament Winding Technology

Dia. DN 50 up to DN2400

Length up to 6 m

Dual Laminate Pipe FRP

PVC, PE-HD, PP -Liners

Lightweight

Non-Corrosive

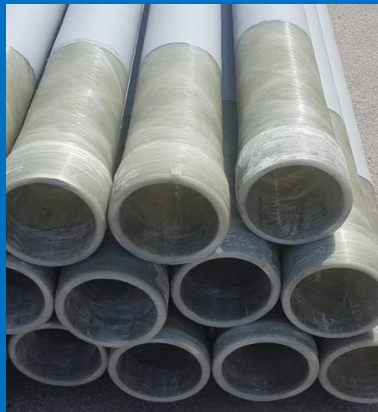
Chemically Resistant

Anti-Bacterial

Maintenance Free

Longest Lifecycle

Light Poles



GRP Poles

Length up to 8 m

Lightweight, easy to install

Durable, Attractive

Weather and UV-resistant

Testing DIN EN 61, EN 40-7

Plates



GRP Plates

Sandwich panels

Surface up to 3x6 m

Optional Thickness

Gelcoat surfaces

Flanges / Fittings



GRP /FRP Flanges / Fittings

EN / ANSI Standard Versions

Dual Laminate

PVC, PE-HD, PP Liner

Custom Versions

Tanks



GRP Composite Material
Horizontal / Vertical
Diameter up to 2,4 m
Length up to 6 m
Lightweight
Non-Corrosive
Chemically Resistant
Anti-Bacterial
Maintenance Free
Longest Lifecycle

Special Tanks



Fire Fighter Truck Tanks
Municipal Truck Tanks
ISO Tanks
Mandatory Testing
Mandatory Certification

Cooling Towers



Water Cooling Systems
Unit Power 200 kW...2 MW
Low Noise
Multiple Systems
Reliability and Long Life
Lightweight Design
Maintenance Savings
Non-Corrosive

Waste Water Plants



Waste Water Plant
Capacity 200 L/h...2000 L/h
Eco Friendly
Inovative Electrocoagulation Treatment
Simple Installation
Suitable for Marinas and Shipyards

Manholes



GRP Material
Underground Cables Connections
Simple Installation, Lightweight design
Tested to 30 Tones Direct Vertical Load
Reliability and Long Life
Certified Types
Suitable for Roadway, Walking Paths,
Green Areas, etc...

Electric Cabinets



Electric Cabinets with Elements
Freestanding Electrical Enclosures
For Industrial and Distribution Centers
Connecting Measuring Cabinets
Self-extinguishing
UV stable
Shock resistant , IP 54
VDE 0660, T 505/07.90, HEP-a N. 070.01

Composite Insulators



Araldite Epoxy Resin
Electrical Insulation up to 24/36 kV
IEC Standards Type Certificates

Light poles - GRP

TYP: RDS

Lenght 3, 4, 5, 6 m

*Class load:
I, III and IV Wind Zone*

*Wind Speed up to 188 km/h
UV Protective Coating*

Non Electrically Conductive

*Standard Lamp Connecting
Diameter 60 / 74 mm*

Suitable for Solar Lighting

*Direct Burial or Anchor
Bases, Combibute*

Composite Isolators

TYP: VPI, IN, H

*Transmission voltage:
36/24 kV*

*Material:
Araldite Epoxy Resin*

Pin/Line Post Insulators

Suspension Insulators

Shackle Insulator

Supporting Insulator

Standard Cooling Towers

TYP: RTD 100, 140, 180, 180 P5

Direct Evaporative Cooling

Material: GRP Polyester

Water Flow: 5,0 ... 125 m³/h

Motor Fan: 1,1 ... 7,5 kW

*Noise Level:
90 95 dB(A)*

*Heat load (Ti/To = 36/28 °C):
45 ... 1200 kW (tf=23°C)*

Electrical Enclosures

TYP: KPMO; KP; RS; OPS

*Freestanding – Connection –
Measuring Cabinets*

*Connection - Measuring
Cabinets - Wall Mounted*

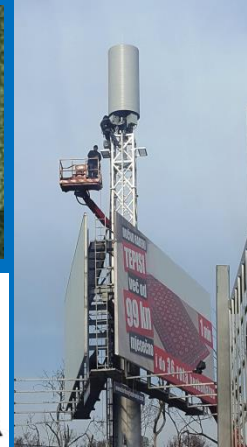
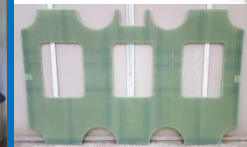
Material: GRP / PVC

*Self-Leveling Fire Protected
UV Protective Coating*

*Suitable for Air and Ground
Connection - IP 54*

Electricity distribution, Telecommunications, Public lighting :

- Connection-measuring cabinets - freestanding
- Connection-measuring cabinets - on or in wall mounted.
- Fiberglass Manholes GRP
- Low and medium voltage insulator
- Light & life fibreglass-reinforced lighting poles
- Camouflage antenna products



General mechanical engineering – Industrial sectors:

- Cooling towers
- Composite pipes, diameters from 40 to 2400 mm; L=5.5 m
- Composite tanks for different purposes
- Marine Sewage treatment systems
- Composite plates and Sandwich panels



Design & Development

Application:

- The Industrial and Distribution centers
- Distribution - electrical grid
- Partitioning TT cable
- Energetic splitter 1000A
- Street signalization
- Public lighting control
- Camp Enclosures

The main characteristics:

- The insulating material
- Pressed polyester with glass fiber
- Self-extinguishing
- UV stable
- Shock resistant
- Three points Locking system .

Cabinets for outdoor
installation, IP 54

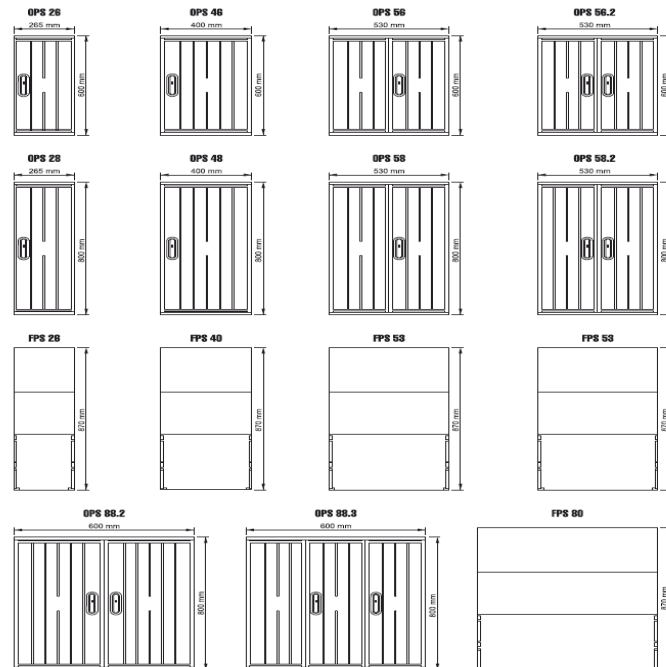


Freestanding Electrical Enclosures-types

OPS / IP 44 RAL 7035 / DUBINA 250 mm



OPS / IP 44 RAL 7035 / DUBINA 250 mm



Application:

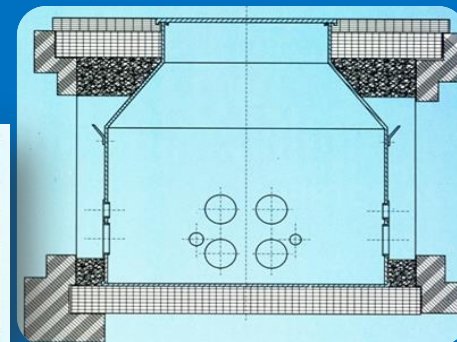
- *Underground cables connecting for telecommunication,*
- *Partitioning TT cable*
- *Energetic splitter 1000A*



The main characteristics:

- *High strength and low the mass*
- *Simple installation and manipulation*
- *Adaptability to customer needs*
- *Installation in the roadway, walking paths,*
- *green areas, roads, etc.*

Tip zdenaca	Dimenzije (mm)	Deblj. stijenke t (mm)	Nosivost (kN)
WD 1/5	ø 600/ 800/1000	4,0	50,0
WD 1/15	ø 600/ 800/1000	7,0	150,0
WD 2/5	ø 600/1000/1000	4,0	50,0
WD 2/15	ø 600/1000/1000	7,0	150,0
WD 1/30	ø 600/ 800/1000	8,0	300,0

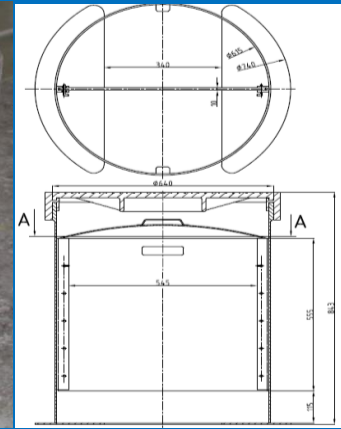


Application:

- Underground cables connecting for telecommunication,
- Partitioning TT cable
- Energetic splitter 1000A

Materijal:

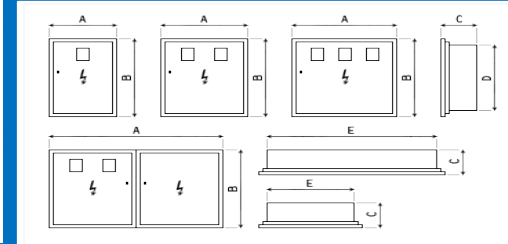
- GRP - The insulating material
- Polyester with glass fiber –filament winding,
- Shock resistant – high strength
- Metal cover, / composite cover



Protection of the parts is performed by a double insulation system.

Suitable air and ground connection.

- *Desing According VDE 0660, T 505/07.90 ; HEP-a N. 070.01.*
- *Cabinets are made of high-quality self-leveling Fire protected plastic mass for provides electrical protection, UV exposed parts made of polyester fiber material with gelcoat for all climatic conditions.*



TIP	A	B	C	D	E	No. Window
KPMO	365	525	160	405	245	1
KPMO-0/D	525	485	190	405	365	2
KPMO-0/K	525	485	190	405	365	2
KPMO-1/K	525	610	190	490	405	2
KPMO-2/G	525	840	190	720	405	2
KPMO-2	660	760	190	640	540	3
KPMO-3	675	840	190	720	560	3

Composite Insulators - rate voltage 36/24 kV

Suitable for outdoor and indoor installation

- *The main characteristics:*
- *Increased conductive path, improved dimensional stability and high dimension tolerance*
- *High resistance on UV radiation, thermal resistance*
- *Low mass according to porcelain, simple assembly*
- *High mechanical strength*
- *Araldite Epoxy Resin*

All insulators have type certificates, according to IEC standards



VPI 36/24-Post Insulators

*IN – supporting
Insulators*



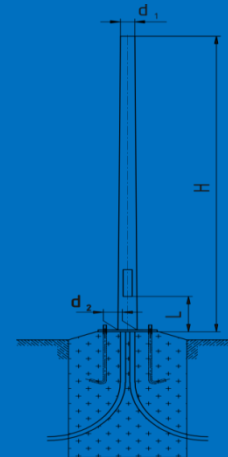
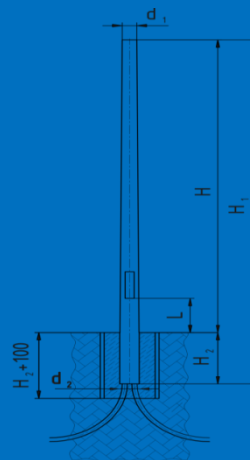
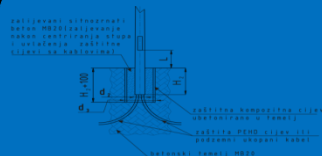
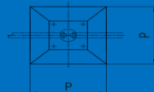
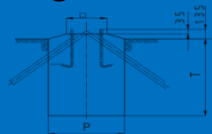
*H-supporting
Insulators*



Light & life fibreglass-reinforced lighting poles - RSD

The main characteristics:

- The insulating material -UV stable
- Low mass
- Simple installation and manipulation
- No need for grounding wire
- High strength
- Standard connecting for lamp, diameter 60 mm to 74 mm
- Height lighting poles 2,3,4, 5 i 6 m
- All columns are tested for I, III and IV zone ; wind speed up to 45 m/s ,
- according to DIN EN 61, HRN EN 40-7



*High quality fiberglass corrosion resistant,
mobile and standalone Advertising columns .*

Excellent solution for point advertising and WI-FI public spot in one.

The main characteristics of Advertising columns:

- *UV resistance – gelcoat protection surface*
- *Easy assembly and possibility for changing spot*
- *Shock resistant – high strength*
- *Different colours possibility*
- *The insulating material*
- *Total height: 3.1 m*
- *Total width: 1.4 m*
- *Weight: 90 kg*
- *Total weight with concrete elements: 480 kg.*
- *Material: Glass fibre & polyester*

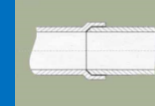
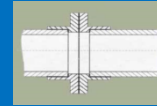


Nominal diameters: 160, 250, 300, 350, 400, 500, 600, 800, 1000, 1200, 1400, mm,
length up to 5.5 m,

- UV protection, self-smoothing additives, gelcoat, Lined GRP, PP-H, PVC-C
- Different solutions and designs, according customer needs.
- Materials used: Glass, Carbon or Kevlar fibers, Resins (epoxy, polyester, etc.)

The main characteristics:

- High mechanical strength
- Variable modulus of elasticity according to customer demand (E-module) and combination of material, rolling angles and number of layers.
- Low mass and thermal conductivity.
- Good corrosion and chemical resistance.
- Extraordinary Electrical Insulator.
- Good abrasion resistance.
- Good hydraulic properties
- (smooth inner wall, high working pressure)



Wall plate & Sandwich panels

Available dimension a max size in one part plate 3 m x 6 m, from 2.5– 15 mm thick – gelcoat protection layer.

Max dimension of plate 4m x 2m by water jet cutting plates.

Or request we manufactured part shape & cut by water jet up to thickness of 40 mm.

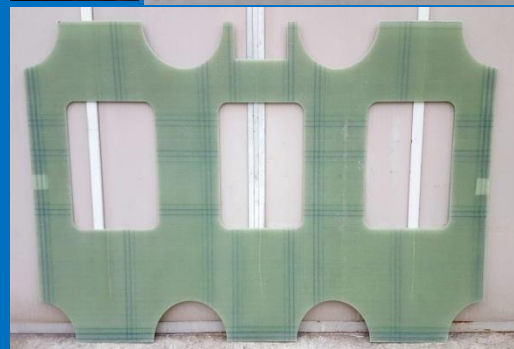
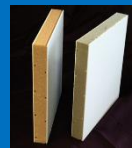
All plate are manufactured in Vacuum infusion process with excellent mechanical properties.

White / Grey colour of protection layers as standard other RAL on request.

Plate Anti-Slip Flooring

Ultra-tough GRP base for added grip in heavy duty areas. Resistant to rotting, warping, swelling, sunlight and temperatures, Anti Slip GRP (Glass Reinforced Plastic) Treads deliver a coarse, anti-slip surface even when wet.

Available dimension from 2.5– 10mm thick and to a max size of 4m x 2m – cut with water jet



VITA MAR 2011

Sewerwater Solution for waste water in Marinas area to cleaning ships.

- Satisfying wastewater quality output according to NN 107/95, NN 150/05, NN 94/08
- EC - Electro Coagulation
- Possibility of reuse technical water
- Simple and easy installation
- Separation of heavy metals (Copper, Zinc, Lead) etc.
- Separation of organic impurities (algae)
- Capacity 400 l/h (9600 l/day)
- Total installed power 6500 W
- Weight of empty unit 2000 kg

New Marine Wastewater Treatment Technology



Device position in cleaning process



Application:

- Chemical industry
- Petroleum-Petrochemical Industry
- Food industry
- Water supply, Fite
- Transport tank, -Fire fitting turcks tanks

The main characteristics:

- High chemical resistance
- Insulator, corrosion resistance
- Shock resistant – high strength
- Long life
- Low mass
- High operational safety
- Good thermal stability, up to + 100 ° C



Possibility of production different shapes and dimensions:

Production according to composite tanks standards (DIN, ASTM, BS , HRN).

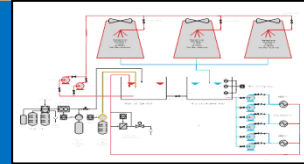
FORMS : Square, Cylinder, lying down, standing, etc. Fittings according to customer requirements (control holes, pins, connection joints, etc.)



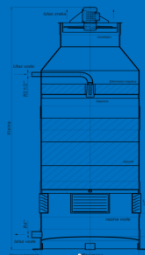
Wet Cooling Tower is one of the main components of the process cooling system. Quality of the cooling water reduces the cost of the entire production process. The evaporative cooling unit RTD works on the principle of direct water contact with the atmospheric air where the heat transfer are carried in the environment. Composite basin and body secure long life and reliable cooling unit with minimum maintenance.

Application of cooling towers RTD

- *Chemical industry: petrochemicals, refineries, pharmaceuticals, processing of gases, plastics, chemicals, etc.*
- *Food industry: breweries, sugar, oilseeds, dairies, meat industry, cauliflowers, salt plants, fruit plants, vegetable processing, grain, refrigerators, etc.*
- *Metal processing and other industries: blacksmiths plants, casting metal plants, rolling mills plants, cement plants, metalworking and nonmetal metals plants.*
- *Cooling units with water cooled condensers.*
- *Air conditioning plants.*
- *Other thermal and process plants° C.*



- Cooling capacity to 1.2 MW per unit
- Application of composite materials - long life of the cooling system without affecting the quality of refrigerant media
- Low mass, Simple and easy installation
- Minimum maintenance, Spare parts
- Flow control, Reliability and long life product
- Possibility of making special and non-standard cooling tower designs.



	Protok vode Q [m³/h]	Broj sapnica (tip) kom	Dimenzije D x Š x V	Promjer ventilatora Ø mm	Snaga el. Motora P [kW]	Protok zraka m³/sek	Temperaturni režim Tu/Ti	Rashladna snaga kW
RTD 100/3	od 5 do 20	1 kom EW 8	Ø 1000 x 2450	Ø 560	1,1	2,8	36/28 °C	45 - 182
RTD 100/6	od 8 do 23	1 kom EW 8	Ø 1000 x 2750	Ø 560	1,1	2,32	36/28 °C	73 - 209
RTD 100/9	od 9 do 29	1 kom EW 8	Ø 1000 x 3050	Ø 560	1,1	2	36/28 °C	81 - 264
RTD 140/3	od 7 do 33	1 kom EW 10	Ø 1400 x 2450	Ø 600	1,5	4,4	36/28 °C	64 - 300
RTD140/6	od 9 do 37	1 kom EW 10	Ø 1400 x 2750	Ø 600	1,5	3,6	36/28 °C	82 - 336
RTD140/9	od 11 do 39	1 kom EW 10	Ø 1400 x 3050	Ø 800	3	2,8	36/28 °C	100 - 354
RTD 180/3	od 20 do 45	4 kom EW 10	Ø 1800 x 3150	Ø 1000	4	4,5	36/28 °C	182 - 409
RTD 180/6	od 28 do 48	4 kom EW 10	Ø 1800 x 3250	Ø 1000	4	3,8	36/28 °C	254 - 436
RTD 180/9	od 32 do 58	4 kom EW 10	Ø 1800 x 3450	Ø 1000	4	3,1	36/28 °C	290 - 527
RTD 180/ P5 3	od 45 do 86	6 kom EW 10	3200x1800x3200	Ø 1300	7,2	23	36/28 °C	409 - 782
RTD 180/ P5 6	od 50 do 92	6 kom EW 12	3200x1800x3400	Ø 1300	7,2	20	36/28 °C	464 - 836
RTD 180/ P5 9	od 60 do 110	6 kom EW 12	3200x1800x3700	Ø 1300	7,2	18	36/28 °C	545 - 1000

We had support and technical solution in the field

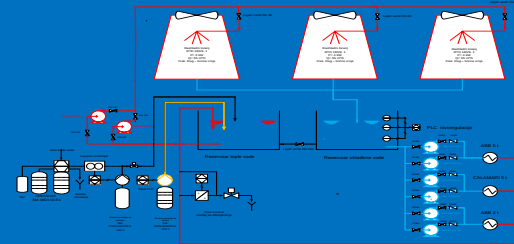
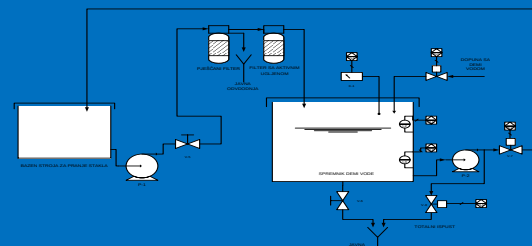
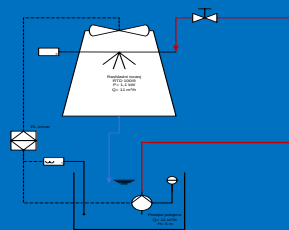
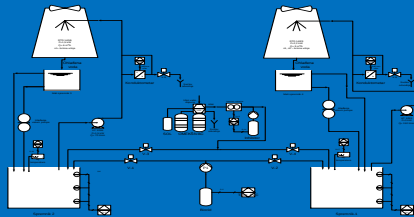
Cooling plants - turnkey

Composite constructions , parts design, producing, assembly, etc.

Electro-installation distribution cabinets and composite insulators.

Product development and producing according your standard and needs.

Spare parts for Cooling Towers production according customer needs



Design & Development

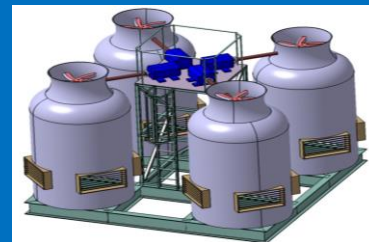
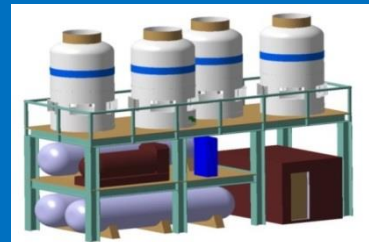
Domitran Novita's offers a complete, design, engineering, production, research and testing solution under one roof. Our designers and engineers have deep experience developing sophisticated components for clients in many industries.

Wired to our industry's brain bank

We maintain active relationships with top R&D facilities. These enable us to embark on thorough research and testing on composite materials and their applications.

Early supplier involvement on part and tooling design ensures long term quality that delivers cost effectiveness for our customers

- *Product design engineering assistance*
- *Complete Product, Part Design Resources*
- *Design for Manufacturing*



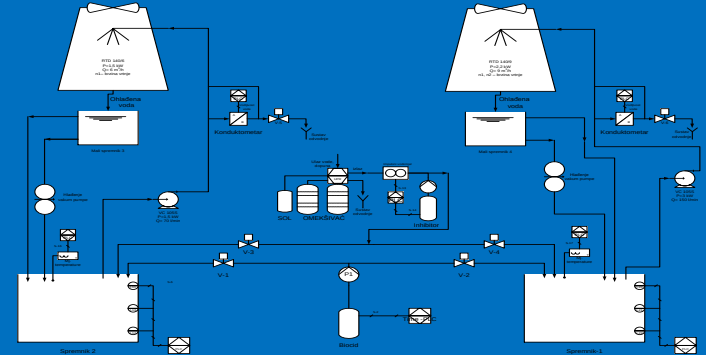
Hartmann 1 – Koprivnica (Croatia)



RS metali –Bjelovar (Croatia)



Hartmann 2 – Koprivnica (Croatia)



INA– Oil Refinery– Sisak – Assembly (Croatia)



PODRAVKA – Fruit processing– Koprivnica (Croatia)





Domitran

Composite Technologies
Industrial Innovations

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