



Engineering
company

2016



**Design solutions
Engineering Company
Ltd. 777**



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Engineering Company «777» Ltd.

Registered office: 142207, Russia, Moscow region,

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ИНН 5043026556, КПП 504301001 Р/счет 40702810902120000224 в ОАО «Уралсиб» г. Москва,

к/с 30101810100000000787, БИК 044525787



About us

Engineering company "777" was established in 2005 and is one of the leading Russian engineering companies. "777" The company realizes the full range of design and commissioning of tank farms and loading islands, as well as work on the modernization of the existing engineering infrastructure of the oil and gas industry, followed by warranty service. The company "777" is engaged in supplying high quality equipment and spare parts for oil depots and other facilities of the oil and gas industry. Our highly qualified specialists will consult, perform equipment selection, as well as all engineering work related to the customer's project.

Main areas of activity

- 1) Feasibility study of the project
- 2) Design works for the construction and modernization of the oil and gas industry
- 3) Construction, reconstruction and design of tank farms
- 4) Development of industrial automation systems
- 5) Supply of oil-loading and ancillary equipment
- 6) Installation and commissioning
- 7) Warranty and post-warranty service

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Certificate TR CU 012/2011 (ATNK)

ТАМОЖЕННЫЙ СОЮЗ		
СЕРТИФИКАТ СООТВЕТСТВИЯ		
№ ТС RU C-RU.ГБ08.B.01358		
Серия RU № 0303550		
ОРГАН ПО СЕРТИФИКАЦИИ ВЗРЫВОЗАЩИЩЕННОГО ОБОРУДОВАНИЯ ЗАО ИСПЫТАТЕЛЬНОГО ЦЕНТРА ТЕХНИЧЕСКИХ ИЗМЕРЕНИЙ, БЕЗОПАСНОСТИ И РАЗРАБОТОК (ОС ВО ЗАО ТИБР), аттестат аккредитации № РОСС RU.0001.11ГБ08, срок действия с 15.06.2011 по 15.06.2016, выдан Федеральным Агентством по техническому регулированию и метрологии. Адрес: 105082, Россия, город Москва, улица Фридриха Энгельса, дом 75, строение 11, офис 204 (юридический адрес); 301760, Россия, Тульская область, город Донской, улица Горноспасательная, дом 1, строение А (фактический адрес). Телефон/факс: (48746) 5-59-53, адрес электронной почты: pmv@tiber.ru , http://www.tiber.ru		
ЗАЯВИТЕЛЬ	Общество с ограниченной ответственностью «777» ОГРН 1055008524196. Адрес: 142207, Московская область, город Серпухов, улица Центральная, дом 146, 37, Российская Федерация. Телефон: +74997559230, факс: +74997559230, адрес электронной почты: info@npo777.ru .	
ИЗГОТОВИТЕЛЬ	Общество с ограниченной ответственностью «777» ОГРН 1055008524196. Адрес: 142207, Московская область, город Серпухов, улица Центральная, дом 146, 37, Российская Федерация. Телефон: +74997559230, факс: +74997559230, адрес электронной почты: info@npo777.ru .	
ПРОДУКЦИЯ	Автоматизированный топливо-наливной комплекс АТНК (ТУ 3643-001-78123092-2015) с маркировкой взрывозащиты II Gb IIA T3 X с комплектующим взрывозащищенным оборудованием согласно приложению. Серийный выпуск.	
КОД ТН ВЭД ТС	8414 19 000 0	
СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза «О безопасности оборудования для работы во взрывоопасных средах» (ТР ТС 012/2011).		
СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ Протокол испытаний № 1393/1334-Ех от 14.09.2015, ИЛ ВО ЗАО ТИБР, регистрационный № РОСС RU.0001.21ГБ08 (срок действия с 15.06.2011 по 15.06.2016). Адрес: 301760, Тульская область, город Донской, улица Горноспасательная, дом 1, строение А, Россия; акт анализа состояния производства изготовителя № 1334/АСП от 22.10.2015.		
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема оценки (подтверждения) соответствия 1с. Сертификат действителен только с приложением (бланки №№ 0241561, 0241562, 0241563, 0241564). Условия и сроки хранения, срок службы согласно сопроводительной технической документации изготовителя.		
СРОК ДЕЙСТВИЯ С	26.10.2015	ПО 25.10.2020 ВКЛЮЧИТЕЛЬНО
М.П.	Руководитель (уполномоченное лицо) органа по сертификации (подпись)	М.В. Пономарев (инициалы, фамилия)
	Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) (подпись)	А.А. Шмелев (инициалы, фамилия)

Бланк изготовлен ЗАО «ТИБР», номер документа № 05-05-001001-001, Р41, тираж 1000, 128 4742, Москва, 2013

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ATNK

The complex fuel-filler ATNK for automated measurement of oil products and other liquids in units of mass and volume when receiving them in tank trucks and rail tank cars, transportation to the tank farms and refineries.

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Picture	ATNK-O-060-K
	-Accounting-node product with volumetric flow meter, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 60 m³ / h -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

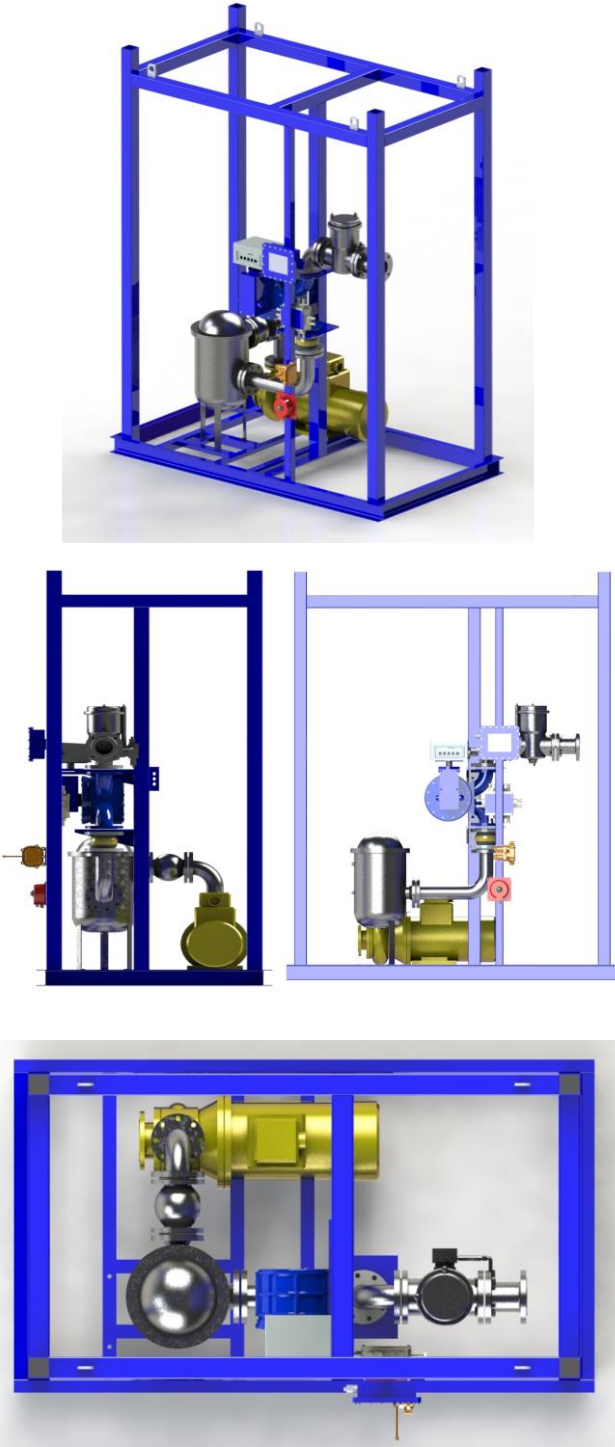
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Picture	ATNK -O-060-P
	-Accounting-node product with volumetric flow meter 9501, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 60 m³ / h -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

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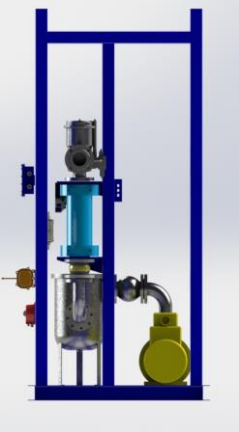
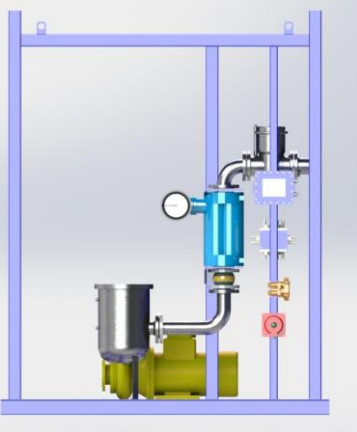
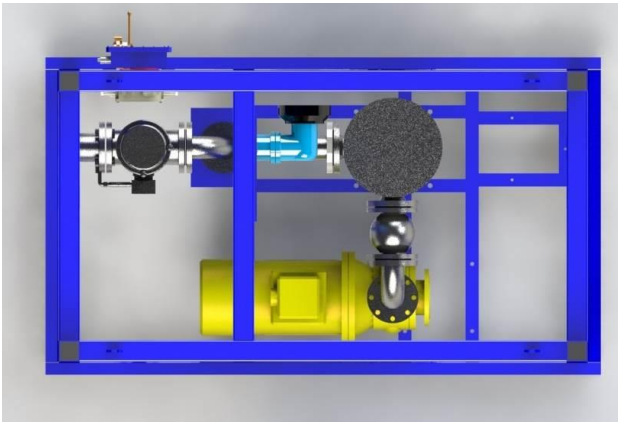
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Picture	ATNK -O-060-V
   	-Accounting-node product with volumetric flow meter PPV, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 60 m³ / h -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

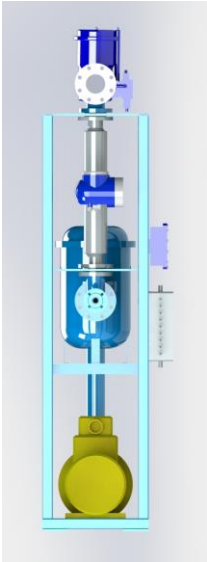
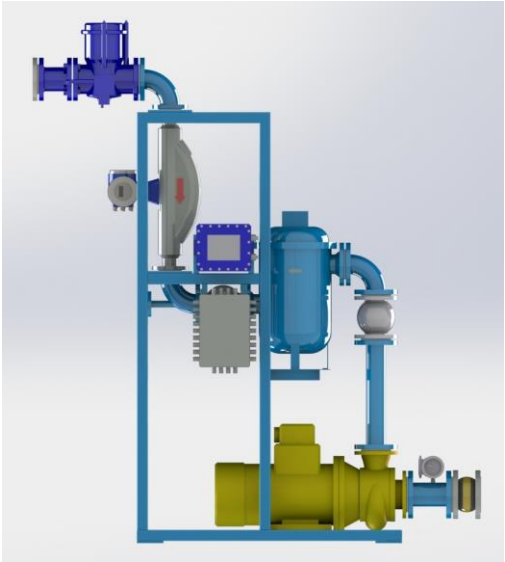
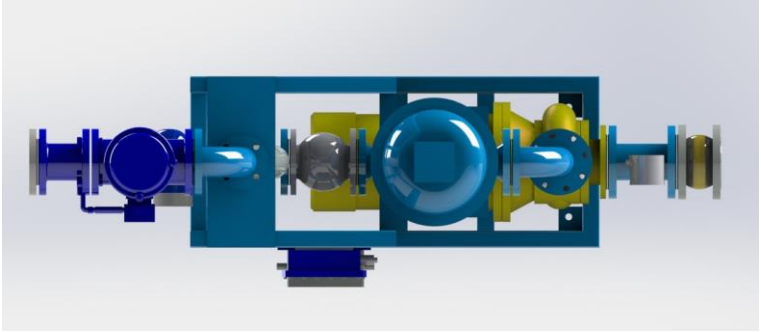
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Picture	ATNK -M-060-E
   	- Product registration unit with mass flow meter E + H Promass 83F, with a pumping unit KMN-100-80-170E: 1) The process temperature is -40°C - $+50^{\circ}\text{C}$ 2) Accuracy by weight and by volume - 0.15% 3) Absolute accuracy density 0.3 kg/m³ 4) Temperature accuracy 0,5°C 5) Max. pressure of 1.6 MPa 6) Consumption 60 m³ / h -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

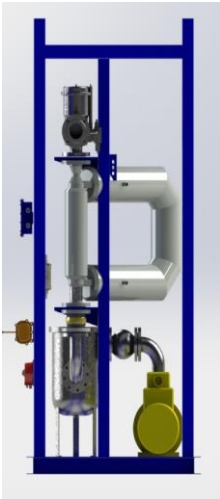
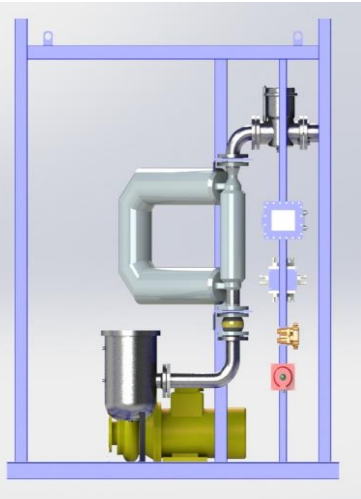
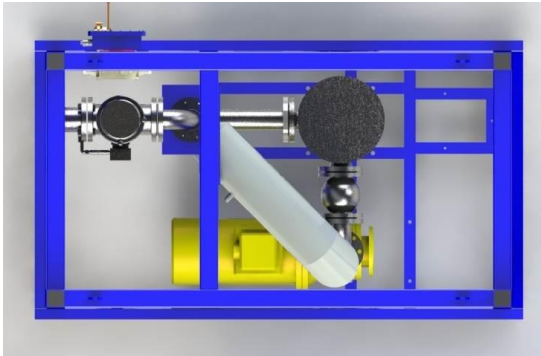
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Picture	ATNK -M-060-M
   	- Product registration unit with mass flow meter Micro Motion Elite с сенсором CMF 300, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $60 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

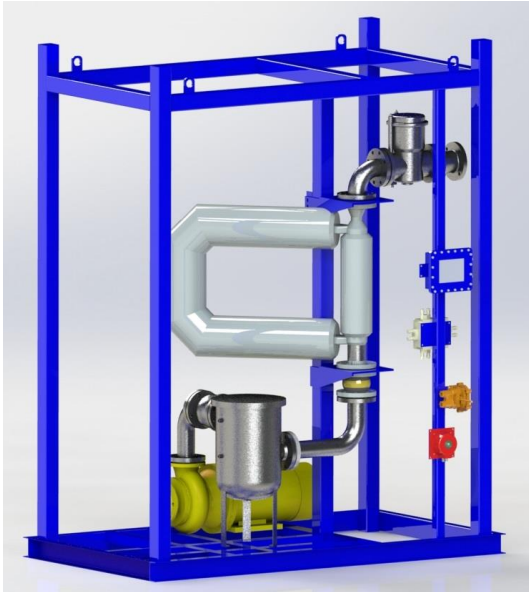
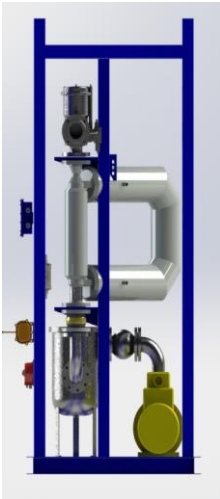
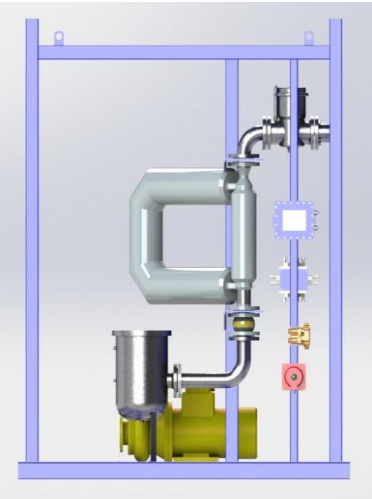
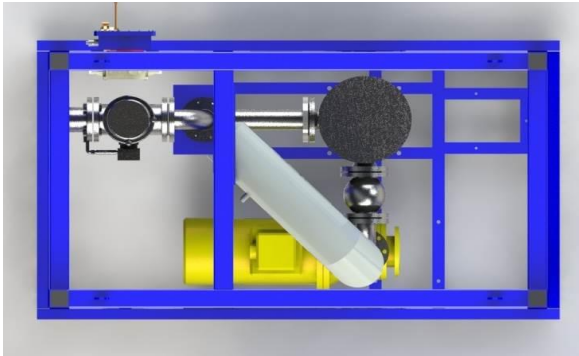
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Picture	ATNK -M-060-B
   	- Product registration unit with mass flow meter MIR, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $60 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

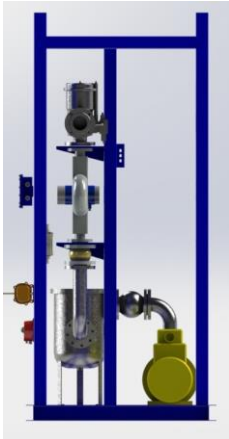
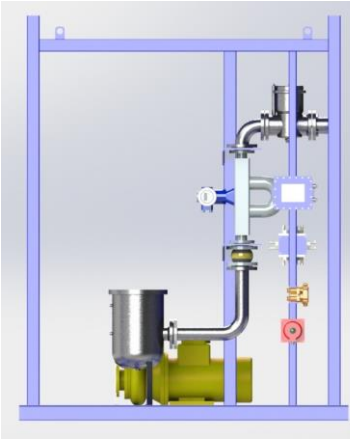
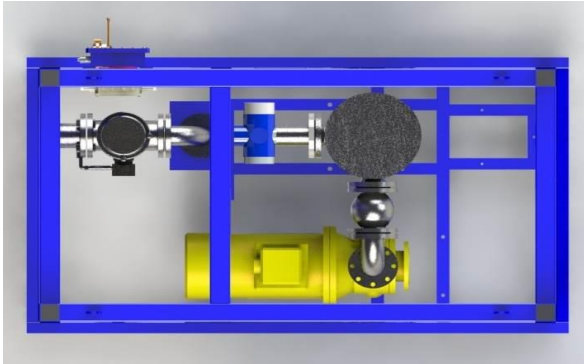
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Picture	ATNK -M-060-R
   	- Product registration unit with mass flow meter Rotamass, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $60 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter-Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

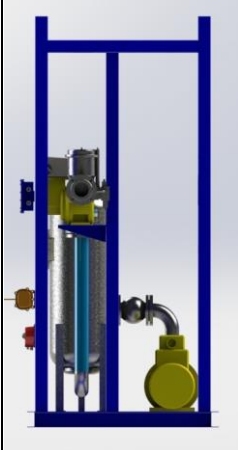
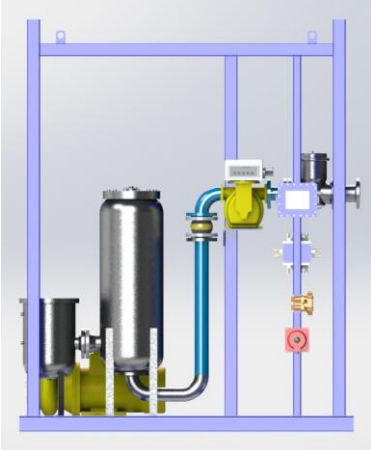
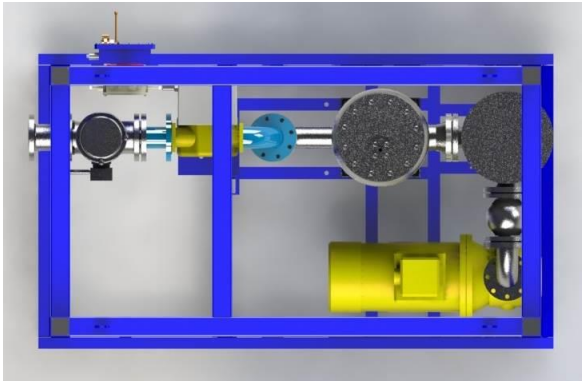
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Picture	ATNK -O-090-K
   	-Accounting-node product with volumetric flow meter, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 90 m³ / h -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

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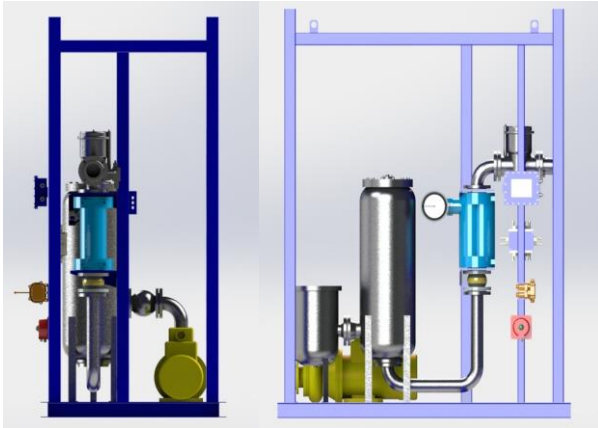
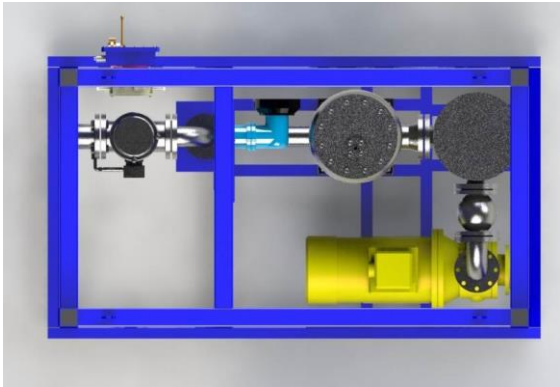
Picture	ATNK -O-090-P
	-Accounting-node product with volumetric flow meter 9501, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 90 m³ / h -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

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Picture	ATNK -O-090-V
  	-Accounting-node product with volumetric flow meter PPV, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 90 m³ / h -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

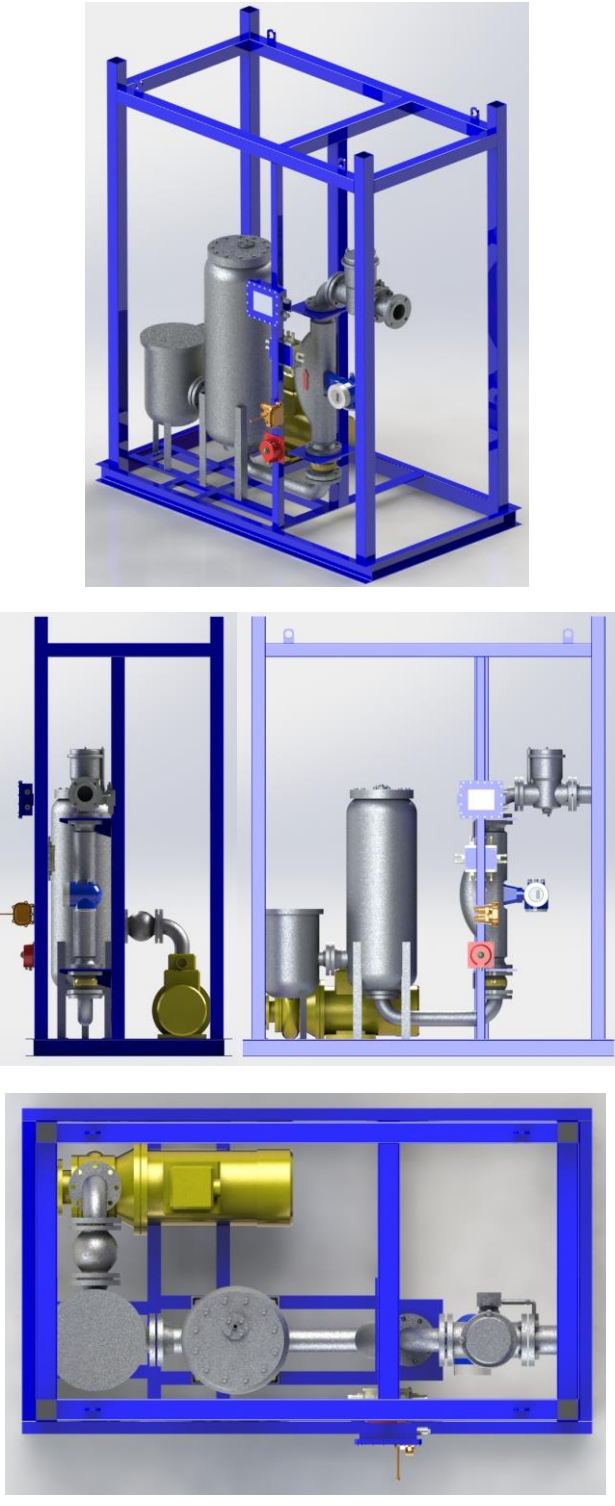
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к/с 30101810100000000787, БИК 044525787



Picture	ATNK -M-090-E
	- Product registration unit with mass flow meter E+H Promass 83F, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $90 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

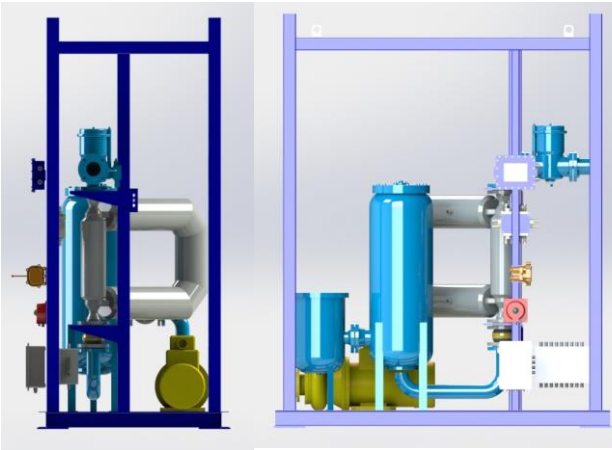
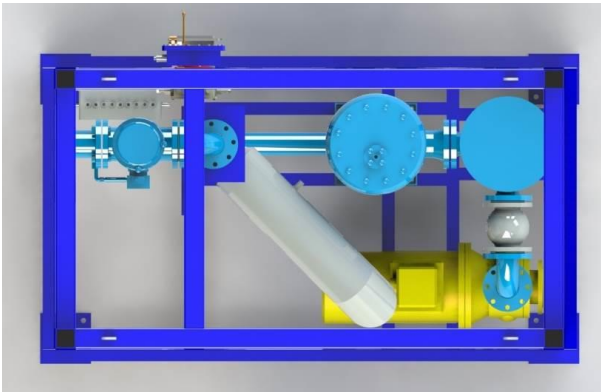
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Picture	ATNK -M-090-M
  	- Product registration unit with mass flow meter Micro Motion Elite с сенсором CMF 300, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $90 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

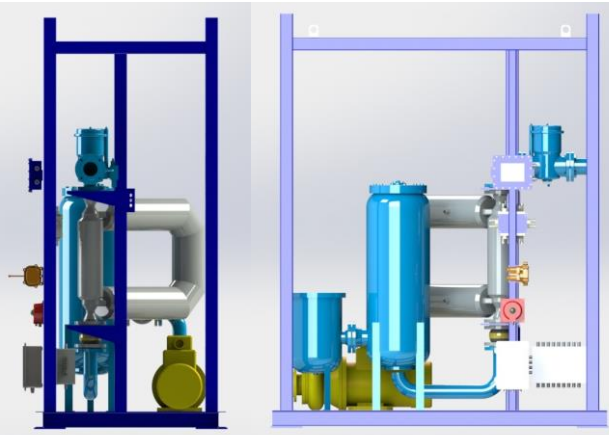
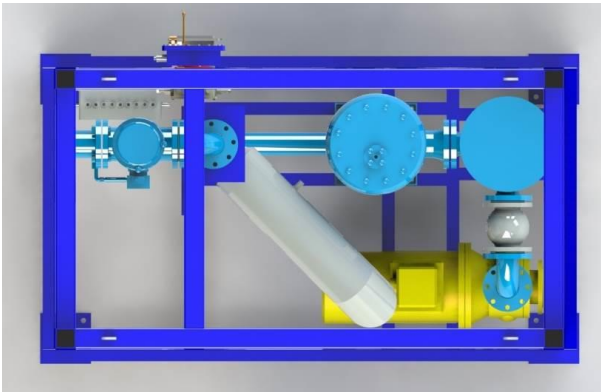
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Picture	ATNK -M-090-B
  	- Product registration unit with mass flow meter MIR, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $90 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

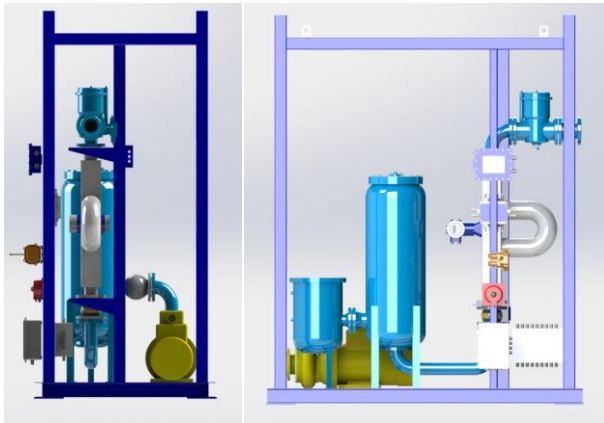
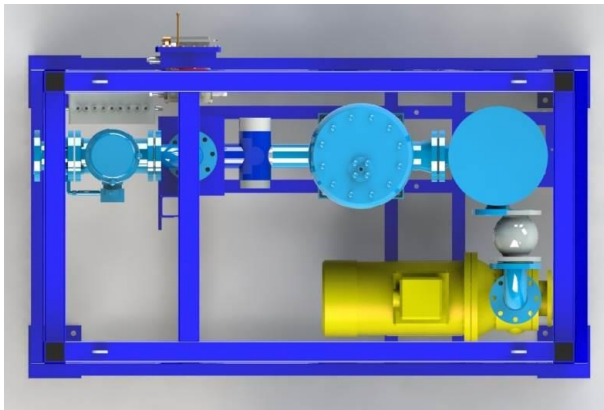
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Picture	ATNK -M-090-R
  	- Product registration unit with mass flow meter Rotamass, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $90 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

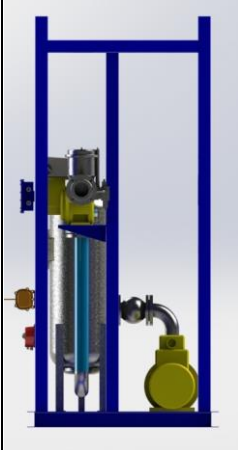
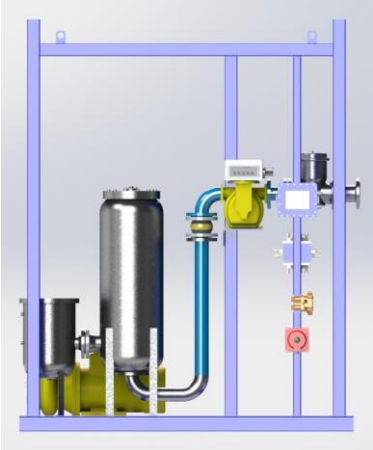
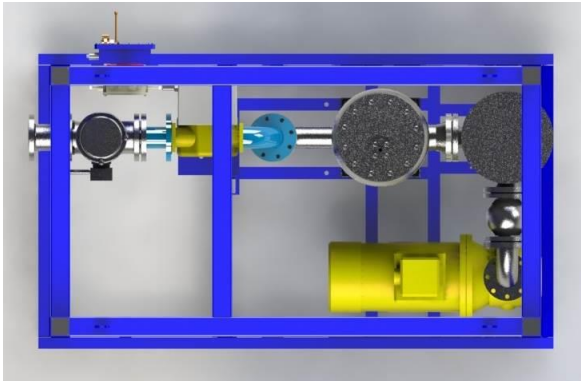
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Picture	ATNK -O-130-K
   	-Accounting-node product with volumetric flow meter, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 130 m³ / h -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

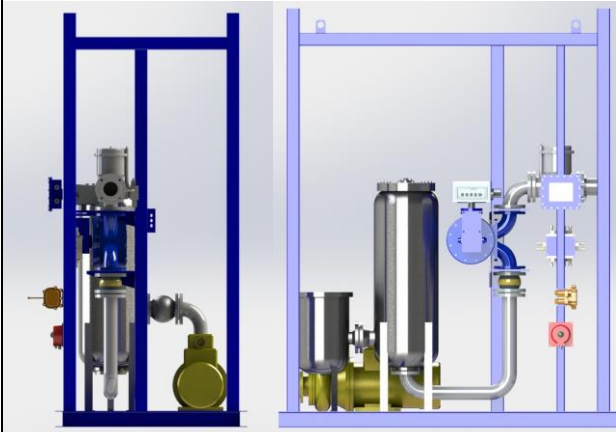
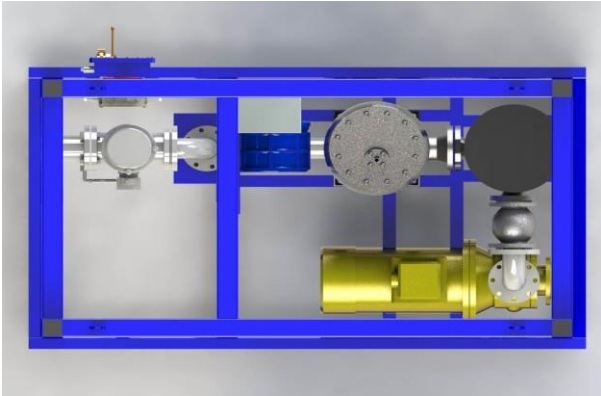
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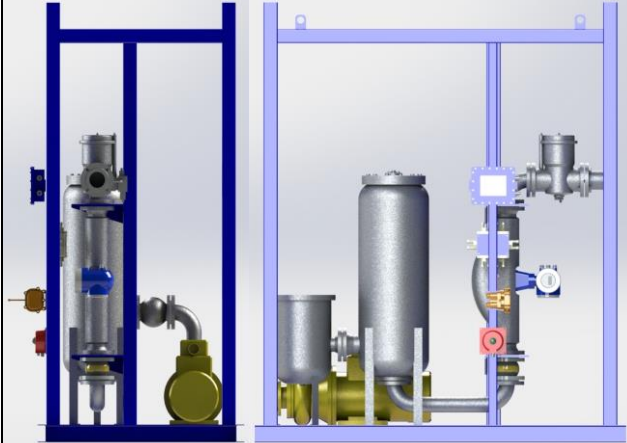
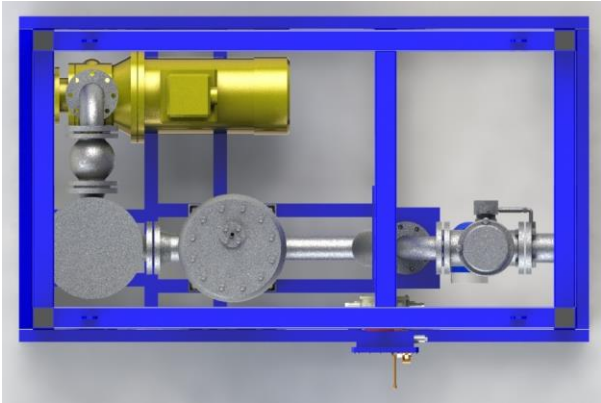
Picture	ATNK -O-130-P
  	-Accounting-node product with volumetric flow meter 9501, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy of 0.25% by volume 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption 130 m³ / h -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days Optional: Densimeter

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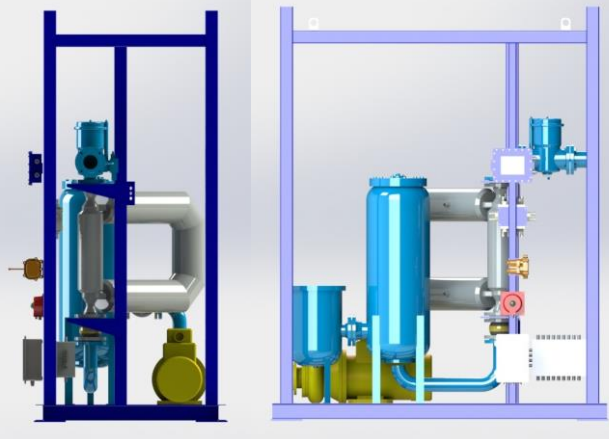
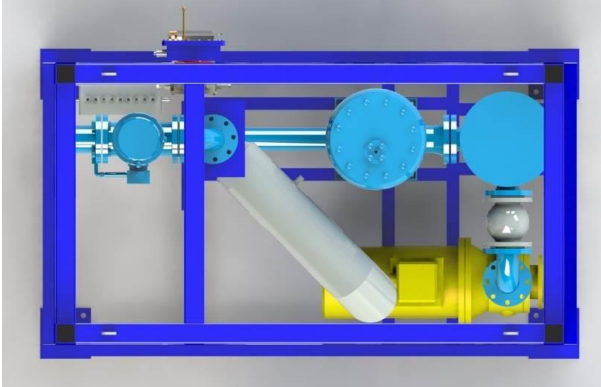
Picture	ATNK -M-130-E
  	- Product registration unit with mass flow meter E+H Promass 83F, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $130 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

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Picture	ATNK -M-130-M
  	- Product registration unit with mass flow meter Micro Motion Elite с сенсором CMF 400, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $130 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

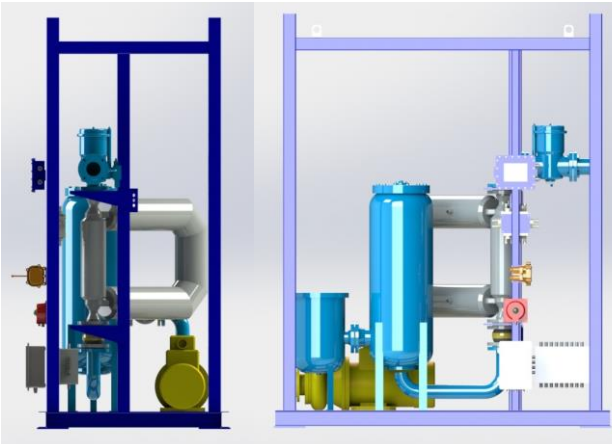
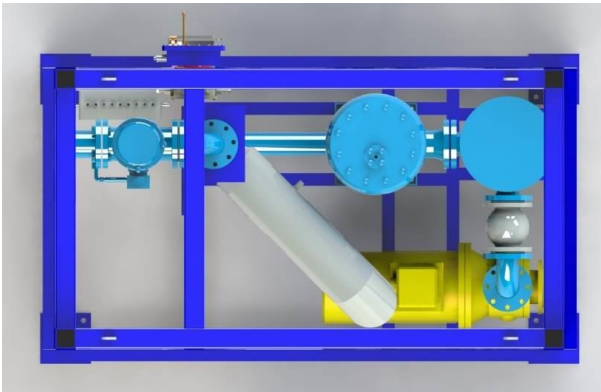
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Picture	ATNK -M-130-B
  	- Product registration unit with mass flow meter MIR, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $130 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

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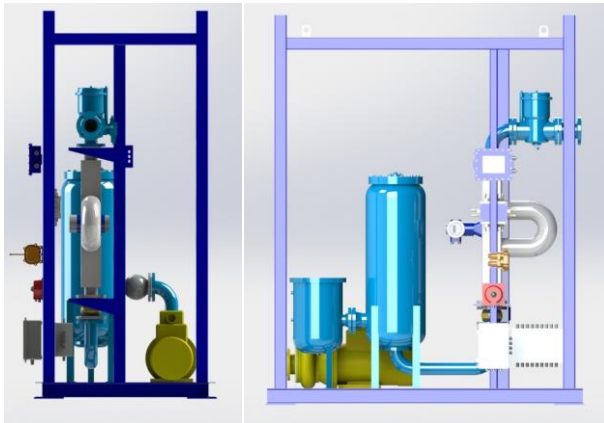
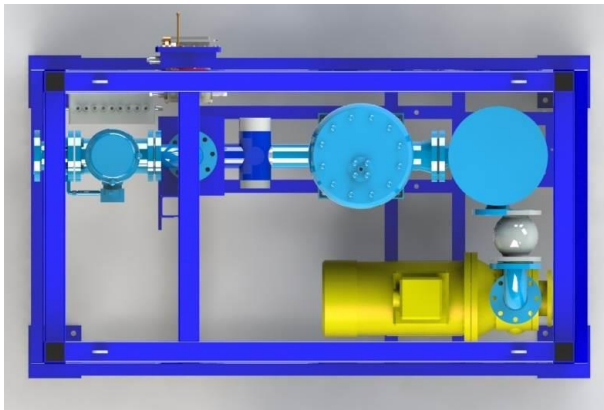
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Picture	ATNK -M-130-R
  	- Product registration unit with mass flow meter Rotamass, with a pumping unit KMN-100-80-170E: 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$ 2) Accuracy by weight and by volume -0.15% 3) Absolute accuracy density 0.3 kg/m^3 4) Temperature accuracy $0,5^{\circ}\text{C}$ 5) Max. pressure of 1.6 MPa 6) Consumption $130 \text{ m}^3 / \text{h}$ -Electromagnetic-valve -Filter -Gas separator -Control stations -Grounding device for tanker -Distribution board -Ball plug valve -Rebound valve Delivery within 120 days

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Engineering
company

Loading racks

Engineering Company «777» Ltd.

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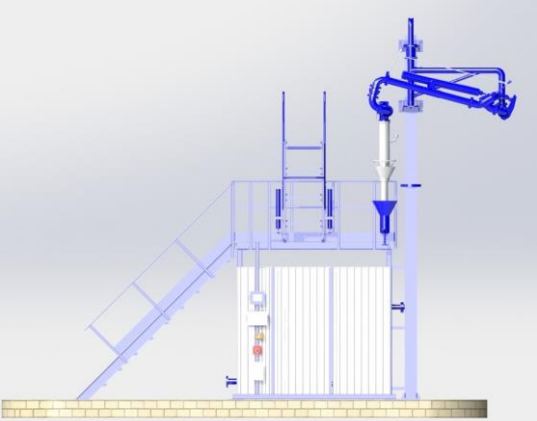
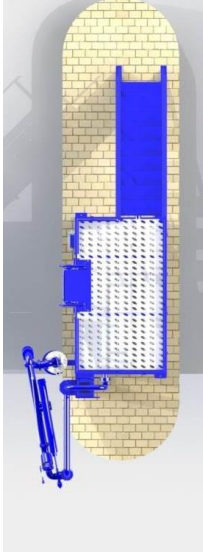
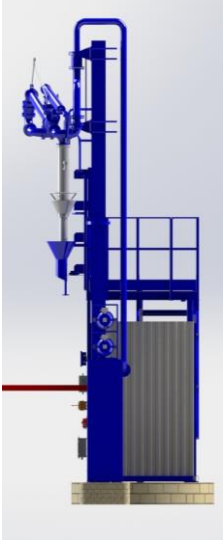
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Picture	Loading racks in the tanks (metering station in the box):
   	- Loading racks: 1) Transition Bridge 4-stage (stage in the horizon) 2) Ladder 45 ° 3) Platform service console 4) The bearing column -Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading -A drops catcher of Console with position sensor -The System of vapor removal -Lighting - Control stations -Account set-node in boxing electrowarmed Delivery within 120 days

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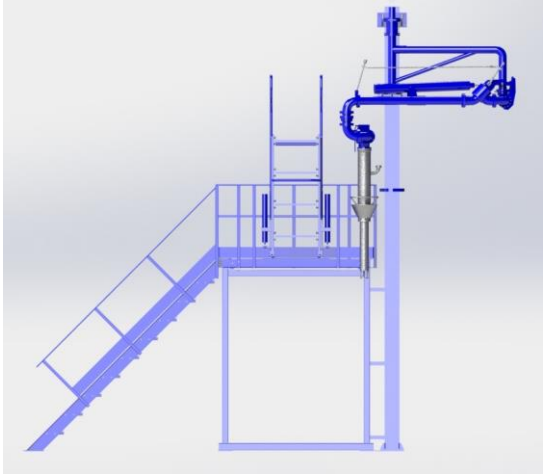
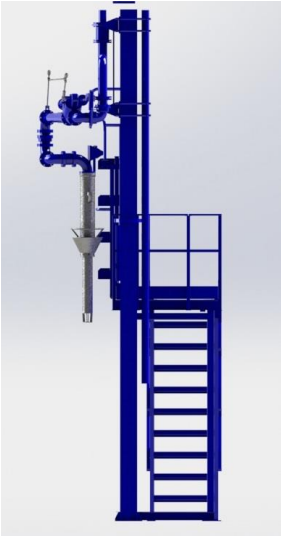
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Picture	Loading racks (electric heating metering unit):
   	- Loading racks: 1) Transition Bridge 4-stage (stage in the horizon) 2) Ladder 45 ° 3) Platform service console 4) The bearing column - Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading -A drops catcher of Console with position sensor -The System of vapor removal -Lighting - Control stations -Accounting-node heated by electrically heated tape Delivery within 120 days

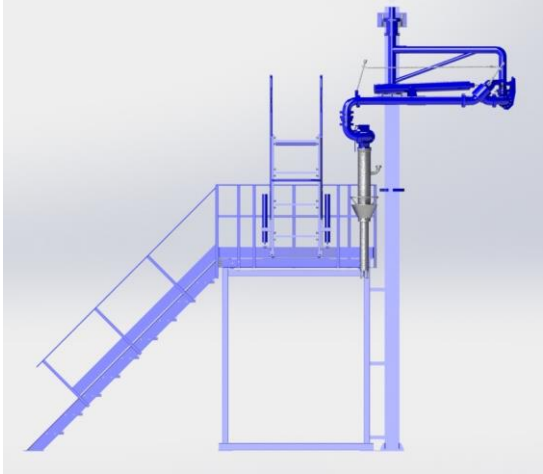
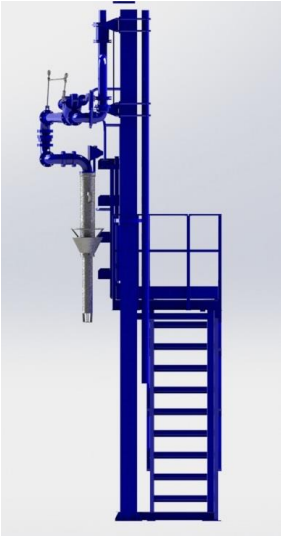
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Picture	Loading racks (unheated metering unit):
   	- Loading racks: 1) Transition Bridge 4-stage (stage in the horizon) 2) Ladder 45 ° 3) Platform service console 4) The bearing column -Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading -A drops catcher of Console with position sensor -The System of vapor removal -Lighting - Control stations Delivery within 120 days

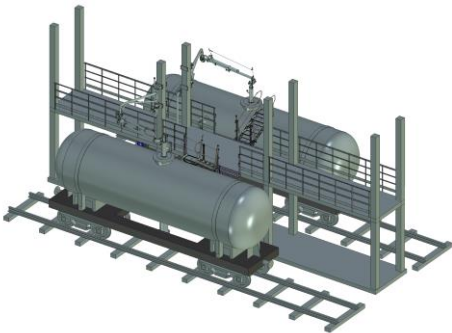
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Picture	Loading rack railway (unheated metering unit):
	- One-sided loading racks: 1) Transitional mobile bridge 5-stage (stage in the horizon) 2) Ladder 45 ° 3) Platform service console -Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading -A drops catcher of Console with position sensor -The System of vapor removal -Lighting - Control stations Delivery within 120 days

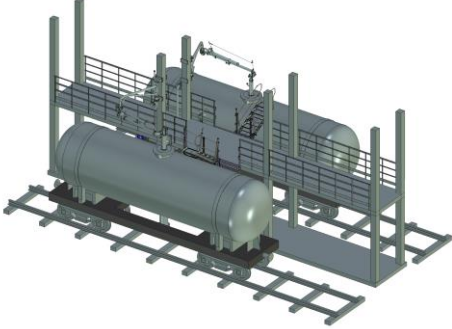
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Picture	Loading rack railway (electric heating metering unit):
	- One-sided loading racks: 1) Transitional mobile bridge 5-stage (stage in the horizon) 2) Ladder 45 ° 3) Platform service console -Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading -A drops catcher of Console with position sensor -The System of vapor removal -Lighting - Control stations -Accounting-node heated by electrically heated tape Delivery within 120 days

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Top hermetic loading in rail tankers

Loading rack for railways is designed to safely carry out work on filled into in railway tanks of light and dark oil products.

Measurement of delivered oil occurs based the volume or the direct method based on weight.

Loading of oil products is carried out through the top hermetic filling console complexes ATNK.

Optionally control loading devices and transition ramps occurs by hydraulic cylinders, with push-button stations installed at the loading rack. Management and control of tank truck loading process provides installed at the rack automation devices. This allows to simplify and accelerate the preparation and completion of load operations.

Loading rack facility allows you to bring into compliance with industrial safety standards, and significantly reduce the risk of injury at realization of filling.

Capacities allow to make steel rail loading racks for tanks of any configurations on the basis of the existing design solutions, or designed to customer specifications.

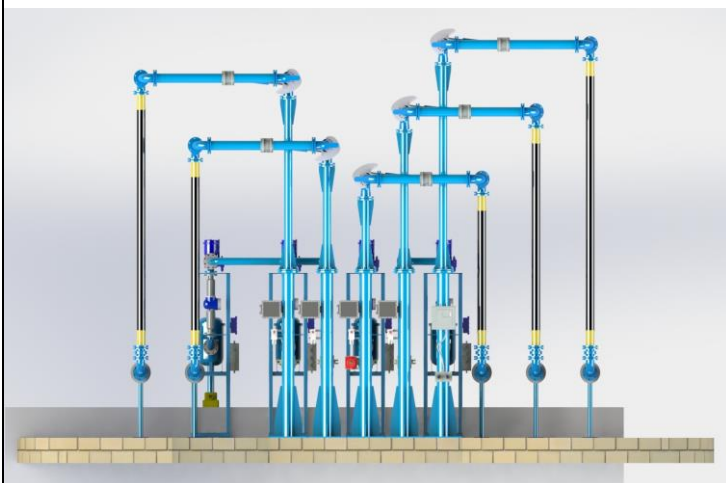
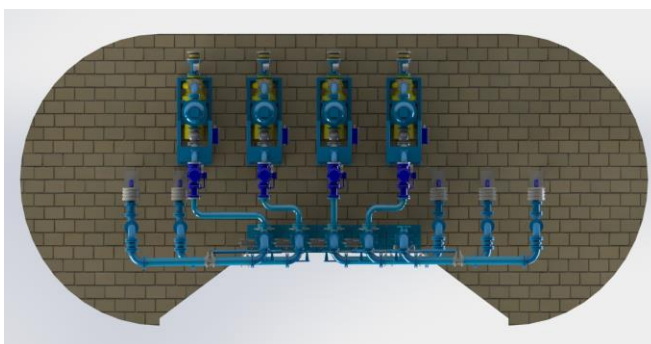
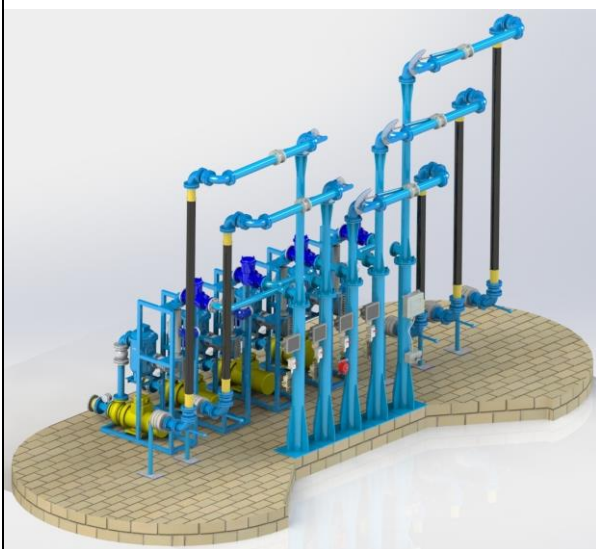
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Islet of bottom loading for 4 ATNK-M-060-E



Bottom loading for 4 Product to monitor and prevent the overflow parking racks

-Loading coupling standard API 1004 OPW 4 "Civacon

-Vapor return clutch OPW Civacon 3 "

- LCD monitor overflow OPW 8800

Petroleum-node registration with the mass flow meter E + H Promass 83F and pump unit

Specifications:

- 1) The process temperature is -40°C - $+50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy 0.5°C
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $60 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $240 \text{ m}^3/\text{h}$

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№ п/п	Name of additional equipment and work	Price USD
1	Field controller	2 150,00
2	Software, the top level of management program	5 500,00
3	Computer (19` monitor, system unit, uninterruptible power supply, the printer of HP production)	3 500,00
4	Painting of the complex in accordance with the customer's corporate standards	calculated based on the customer requirements
5	Design documentation	calculated based on the customer requirements
6	Installation	calculated based on the customer requirements
7	Commissioning works	calculated based on the customer requirements

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Engineering
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ATNK-M-060-R (discharge)



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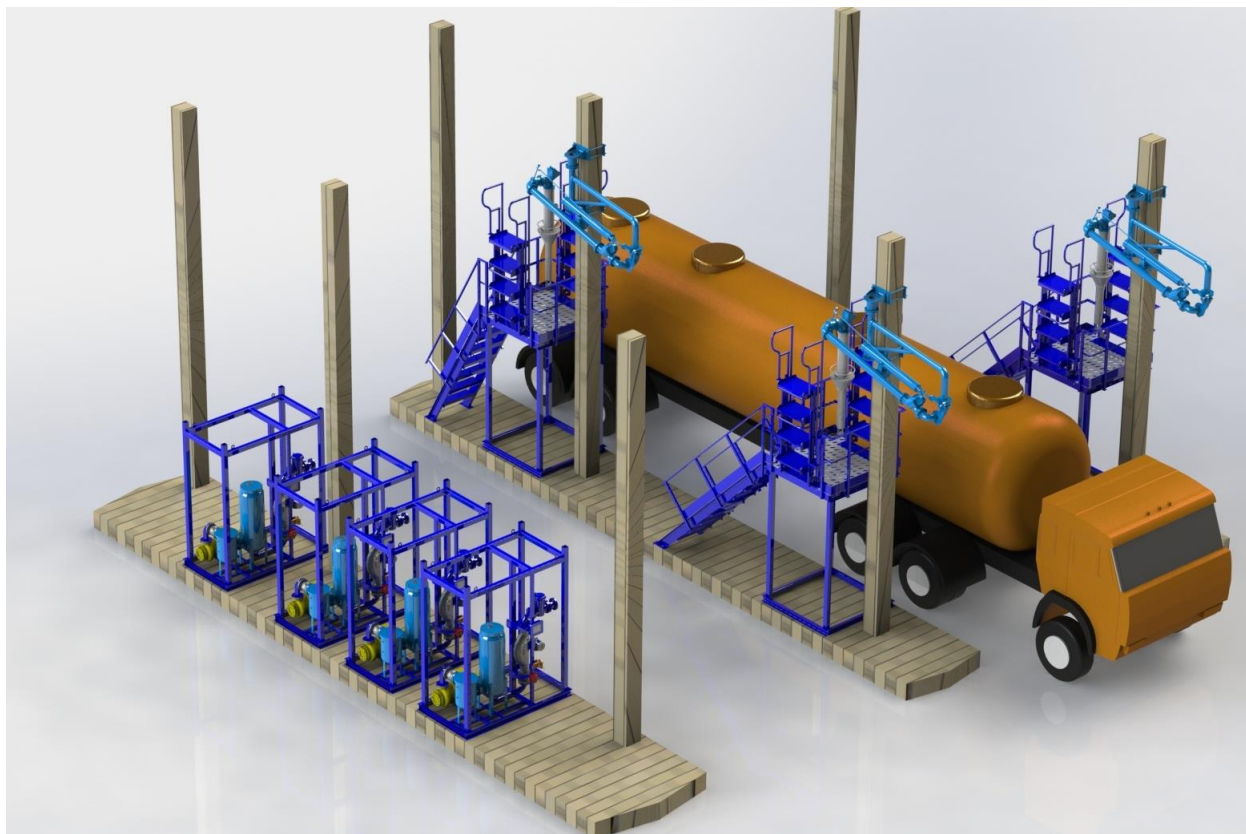
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Engineering
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Islets loading



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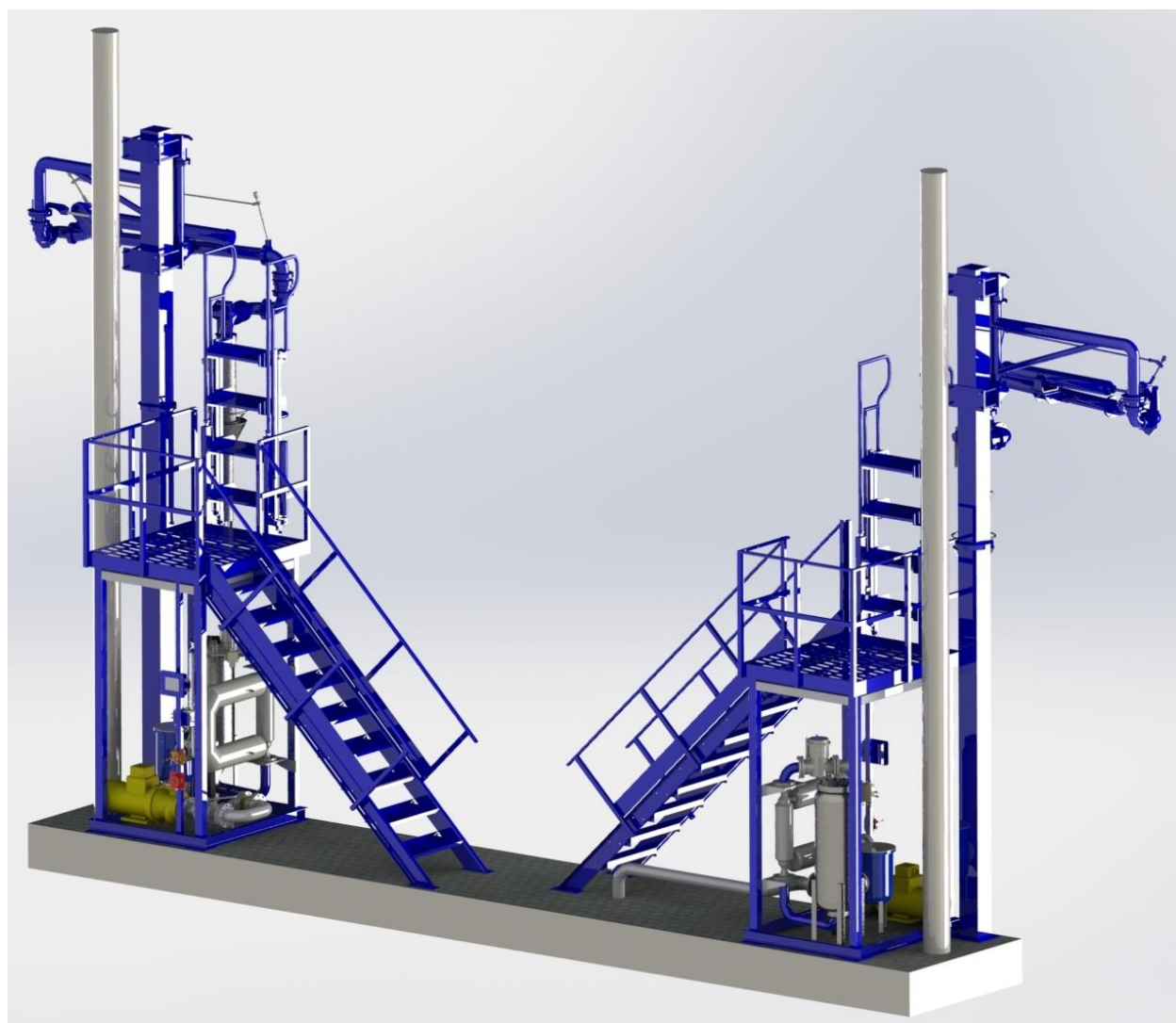
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Engineering
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Loading rack for 2 ATNK-M-090-M



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Engineering
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Double loading facility for two in a double ATNK electrowarmed boxing



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Engineering
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Overpass combined loading with ATNK-M-060-E



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Engineering
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Islet top loading double with two tanks, ATNK-M-090-M



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Engineering
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Loading racks for one ATNK in electrowarmed box with traffic lights and barrier



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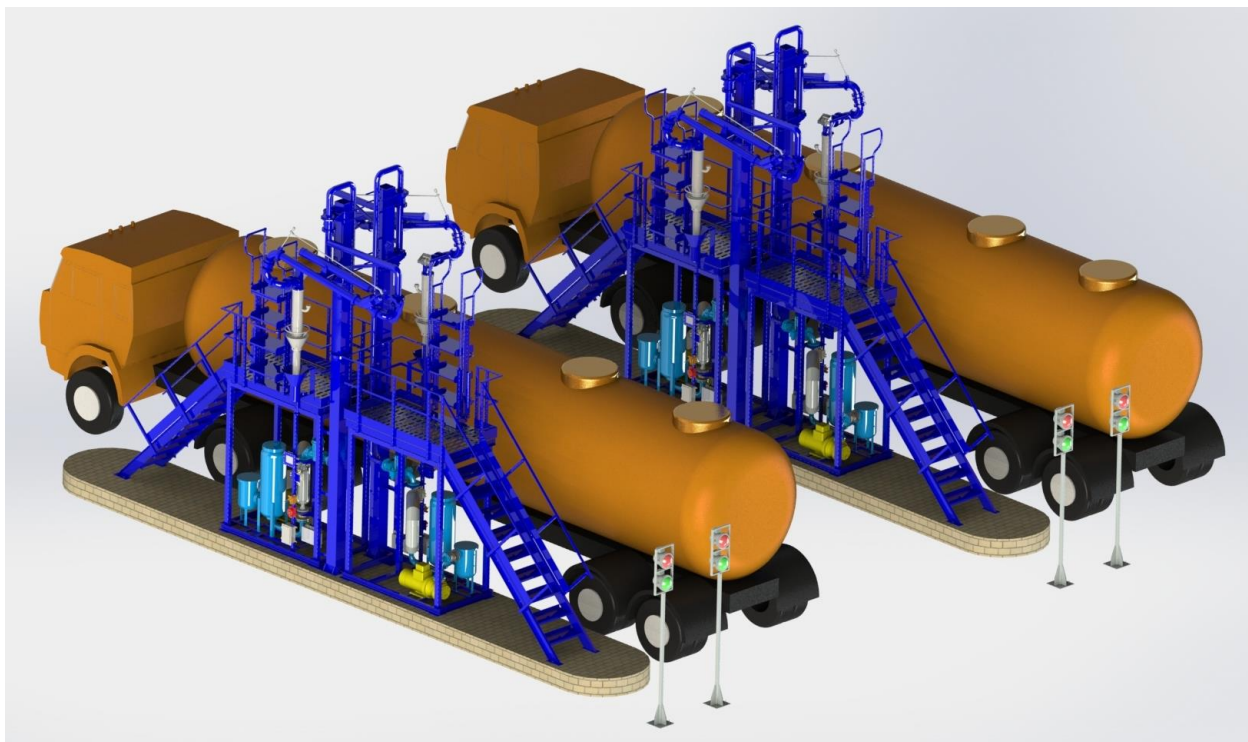
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Engineering
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Two islands top double filling two ATNK M-090-M



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Engineering
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Islet top loading double with two ATNK in the electrowarmed box



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Gallery of top loading

Loading modular rack of gallery is intended for the safe performance of works on loading of road tankers in light and dark oil products.

Gallery-type complexes having a large number of the top loading consoles, which are installed in the same row. Loading racks gallery type provide high consumption (up to 1000 m³ / h). Easy installation and maintenance of the equipment combined with the installation of management flexibility.

Optionally control of loading devices and transition ramps occurs by hydraulic cylinders, with push-button stations installed at the loading rack. Management and control of tank truck loading process provides installed at the rack automation devices. This allows to simplify and accelerate the preparation and completion of load.

Loading rack facility allows you to bring into compliance with industrial safety standards, and significantly reduce the risk of injury at realization of filling.

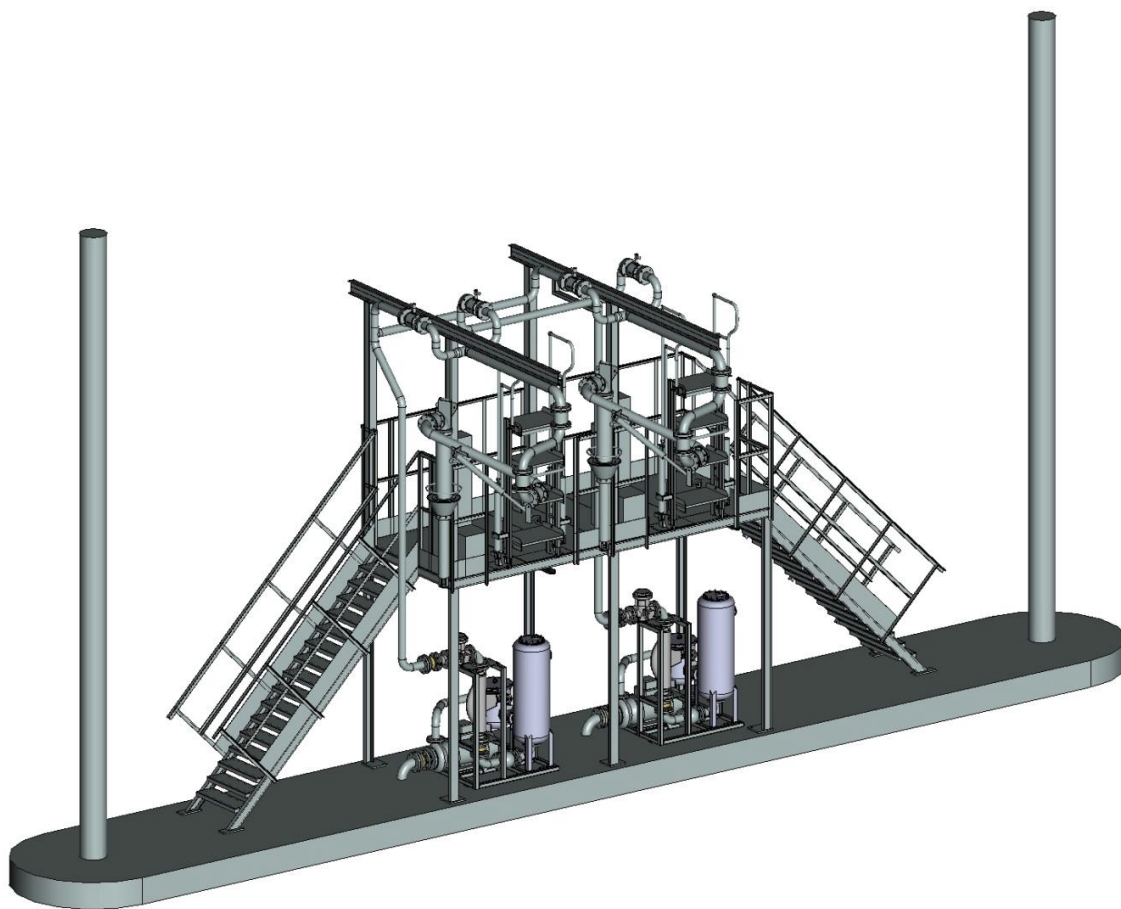
Capacities allow to make metal loading racks for tank trucks and rail tank of any configurations on the basis of the existing design solutions, or designed to customer specifications.

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Top loading two types of petroleum products in accordance with the existing industrial safety norms and can be equipped with two sets ATNK on request.

Specifications:

- 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy 0.5°C
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $90 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $180 \text{ m}^3/\text{h}$

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EQUIPMENT:

- AUTOMATED FUEL TANK SET-LEVELING (option on request) - 2 pcs .;

- Loading racks:

1) Transition Bridge 4-stage (stage in the horizon) - 2 pcs.

2) Ladder 45 ° - 2 pcs.

3) Platform for console service;

-Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading - 2 pcs.

-A drops catcher of Console with position sensor

-The System of vapor removal

-Lighting

- Control stations

-Grounding device for tanker

-Distribution board

- Explosion-starters;

- Field controller

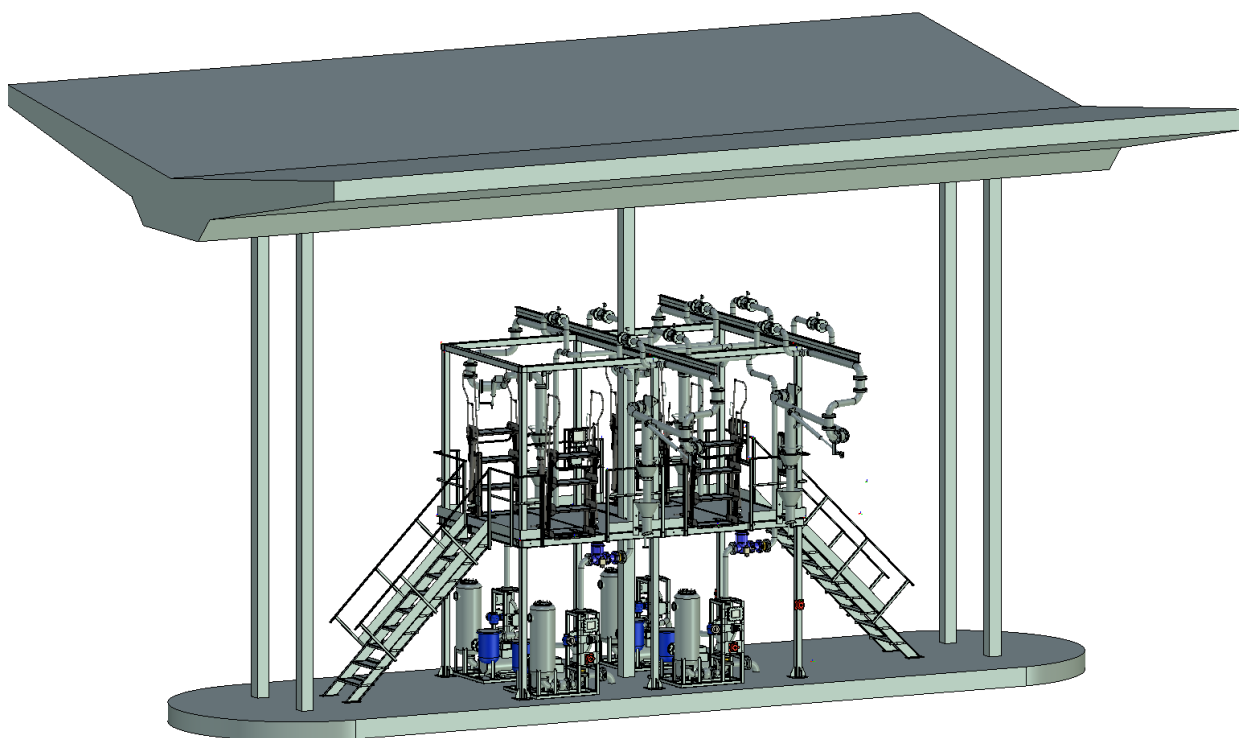
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Overpass allows sided top loading 4 types of petroleum products in accordance with the existing industrial safety norms and can be equipped with two sets ATNK on request.

Specifications:

- 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy $0,5^{\circ}\text{C}$
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $90 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $360 \text{ m}^3/\text{h}$

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EQUIPMENT:

- AUTOMATED FUEL TANK SET-LEVELING (option on request) - 4 pcs .;

- Loading racks:

1) Transition Bridge 4-stage (stage in the horizon) - 4 pcs.

2) Ladder 45 ° - 2 pcs.

3) Platform for console service;

-Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading - 4 pcs.

-A drops catcher of Console with position sensor

-The System of vapor removal

-Lighting

- Control stations

-Grounding device for tanker

-Distribution board

- Explosion-starters;

- Field controller

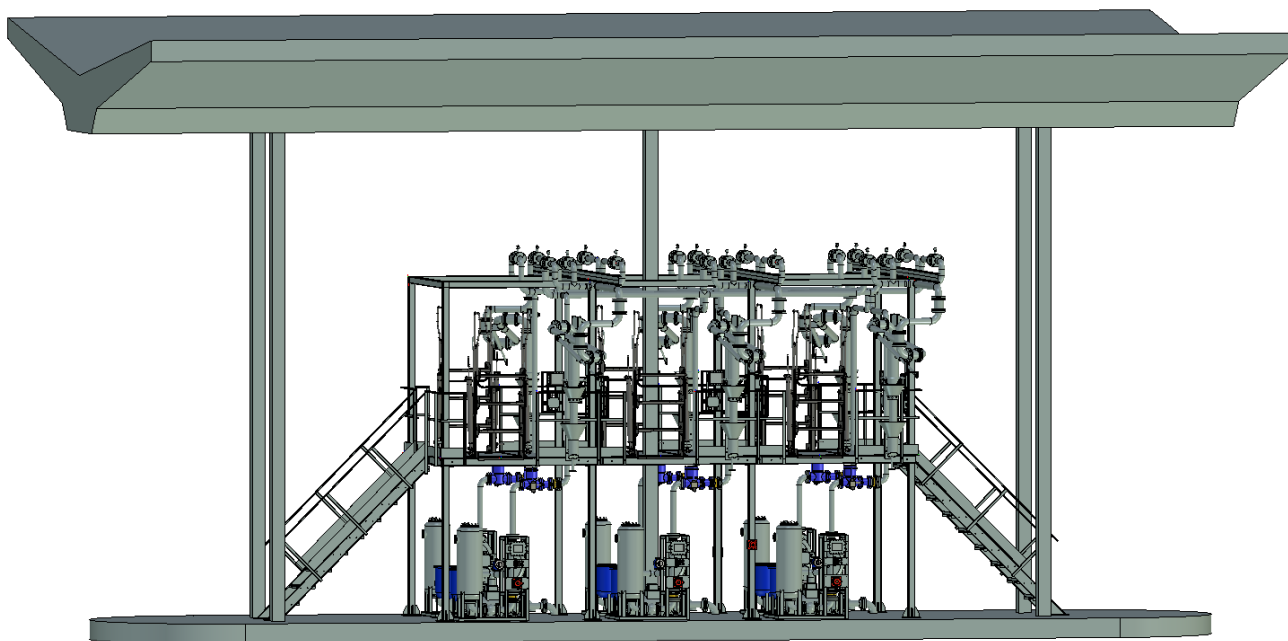
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Overpass allows sided top loading 6 types of petroleum products in accordance with the existing industrial safety norms and can be equipped with two sets ATNK on request.

Specifications:

- 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy $0,5^{\circ}\text{C}$
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $90 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $540 \text{ m}^3/\text{h}$

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EQUIPMENT:

- AUTOMATED FUEL TANK SET-LEVELING (option on request) - 6 pcs .;
- Loading racks:
 - 1) Transition Bridge 4-stage (stage in the horizon) - 6 pcs.
 - 2) Ladder 45 ° - 2 pcs.
 - 3) Platform for console service;
- Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading - 6 pcs.
- A drops catcher of Console with position sensor
- The System of vapor removal
- Lighting
- Control stations
- Grounding device for tanker
- Distribution board
- Explosion-starters;
- Field controller

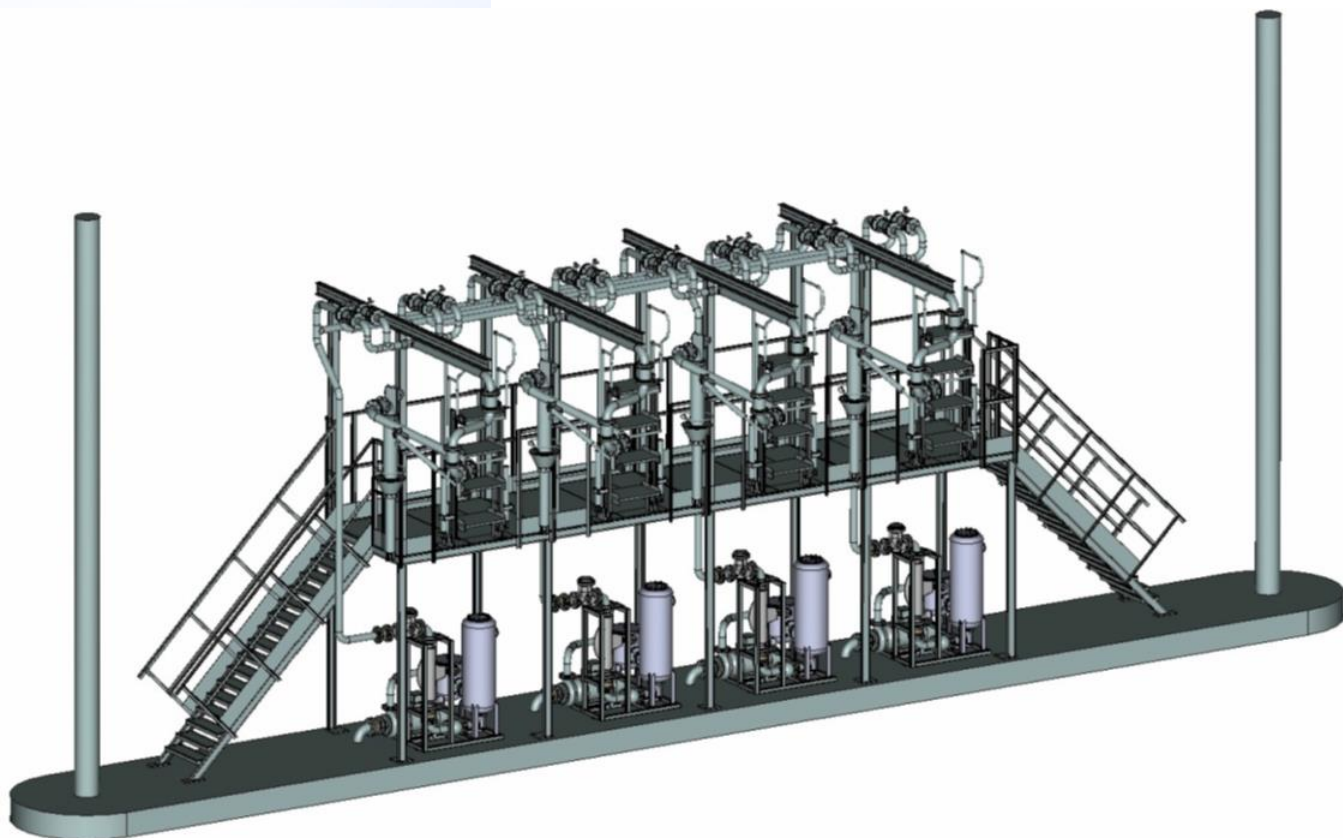
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Overpass allows sided top loading 4 types of petroleum products in accordance with the existing industrial safety norms and can be equipped with four units ATNK on request.

Specifications:

- 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy $0,5^{\circ}\text{C}$
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $90 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $360 \text{ m}^3/\text{h}$

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EQUIPMENT:

- AUTOMATED FUEL TANK SET-LEVELING (option on request) - 4 pcs .;
- Loading racks:
 - 1) Transition Bridge 4-stage (stage in the horizon) - 4 pcs.
 - 2) Ladder 45 ° - 2 pcs.
 - 3) Platform for console service;
- Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading - 4 pcs.
- A drops catcher of Console with position sensor
- The System of vapor removal
- Lighting
- Control stations
- Grounding device for tanker
- Distribution board
- Explosion-starters;
- Field controller

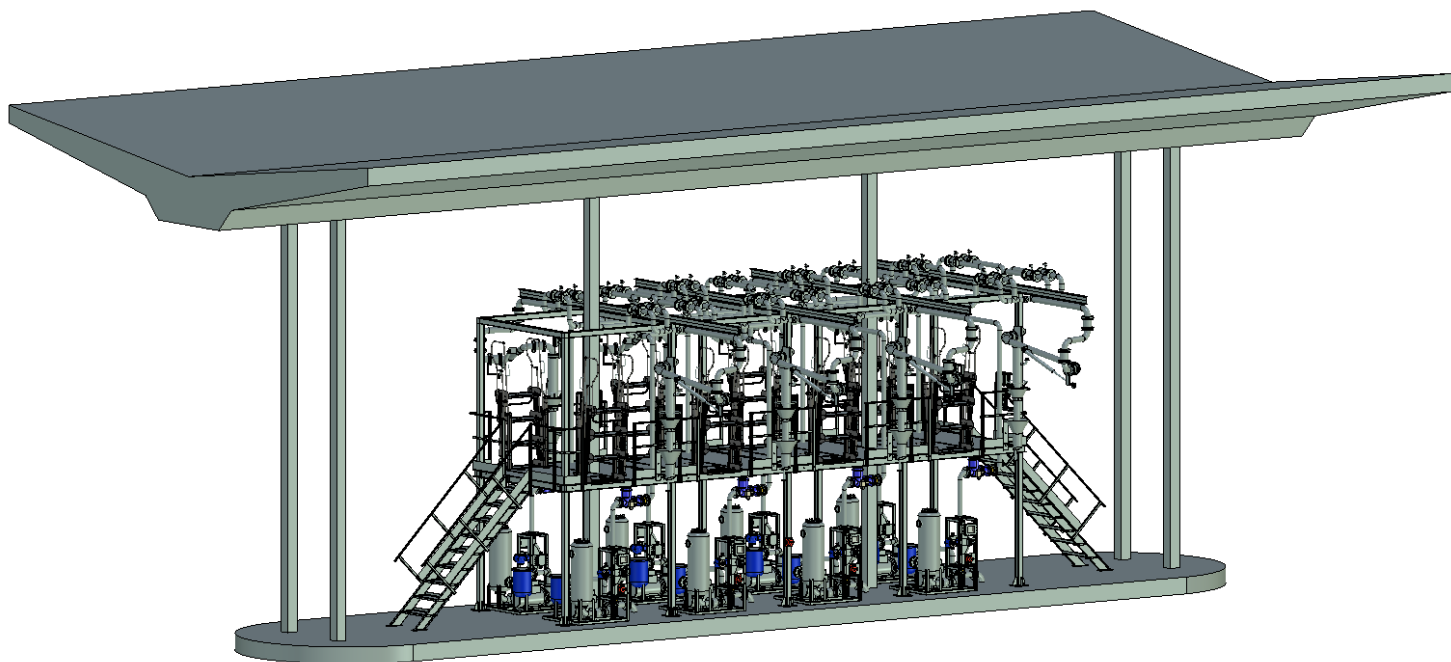
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Overpass allows sided top loading 8 types of petroleum products in accordance with the existing industrial safety norms and can be equipped with four units ATNK on request.

Specifications:

- 1) The process temperature is $-40^{\circ}\text{C} - + 50^{\circ}\text{C}$
- 2) Accuracy by weight and by volume -0.15%
- 3) Absolute accuracy density 0.3 kg/m^3
- 4) Temperature accuracy $0,5^{\circ}\text{C}$
- 5) Max. pressure of 1.6 MPa
- 6) Consumption $90 \text{ m}^3 / \text{h}$ by one ATNK
- 7) Total consumption $720 \text{ m}^3/\text{h}$

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EQUIPMENT:

- AUTOMATED FUEL TANK SET-LEVELING (option on request) - 8 pcs .;
- Loading racks:
 - 1) Transition Bridge 4-stage (stage in the horizon) - 8 pcs.
 - 2) Ladder 45 ° - 2 pcs.
 - 3) Platform for console service;
- Loading console hermetically sealed with filling level sensors vibration type Endress + Hauser, with a telescopic tip for lowering the subsurface loading - 8 pcs.
- A drops catcher of Console with position sensor
- The System of vapor removal
- Lighting
- Control stations
- Grounding device for tanker
- Distribution board
- Explosion-starters;
- Field controller

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Description the site of loading for tank truck based on complex ATNK with field controller

Optimization of instrumentation equipment management processes using field controllers began a new stage in the company's development of "777" as a result of which managed to create a modular platform of tank truck and significantly reduce electrical installation cost, steel structures, equipment and, as a consequence, to reduce the total cost of construction loading platform.

The essence lies in the innovative design of the control cabinet arrangement and field controllers directly on ATNK that provides the following advantages over previously existing schemes:

1. Allows you to replace all the cables instrumentation control, signaling and dispatching one interface RS-485 cable, laid on the field controller to the PC at the operator's location.
2. Allows replace all the power cables (previously) from the operator to one with the calculated cross section for power.
3. Allows you to abandon the traditional construction of expensive cable rack and due to the small number of cables (cable 2-3) to lay them in the ground.
4. Installation of modular ATNK performed according to standard designs, which can significantly reduce the cost of the design of bulk devices, as well as reduce the time for installation and commissioning of the equipment.
5. Ample opportunities to replace old equipment with new, modular loading platform will simplify and reduce the cost of the process of reconstruction of the enterprises of an oil complex.
6. Standardize management and control of liquid device allows the operating organization to simplify the process of maintenance and repair, as well as in the shortest time to prepare technicians to work.

DISADVANTAGES OF THE OLD SYSTEM.

1. requires significant capital expenditures for the construction of the cable racks and installation of the mains switchboard operator to the island loading.
2. The availability of space required in switchboard operator
3. Requires the cost of designing the whole complex of the inlet as refueling equipment is modular and standardized.
4. The control circuit is not standardized, which does not comply with its typical design.
5. The complexity and low reliability of the control circuit (in case of failure of the controller the entire range of the filling stops working).
6. Maintenance and repair of service personnel is difficult, it is necessary to call a repair team of specialists.

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Implementation of new technologies in the development of equipment and reduce the cost of the process of loading petroleum products - indicator of the dynamic development of our company and also evidence of the increasing demand for its products.

Numerous diplomas and letters of gratitude to the company "777" OOO confirm the high quality of its products. "777" Ltd. The company has laboratory facilities equipped with the most modern metrology devices control that allows for a constant and careful monitoring of production and quality technology products.

Inspections production representatives of certification authorities and certificates issued by them confirm the high level of technological discipline and organization of our production.

Design and engineering department of our company is an effective unit, successfully implementing innovative ideas in production and determine the vector of development of production technology of liquid devices in the near future.

Industrial and intellectual potential, combined with the experience and flexibility of technical and economic policy allows you to confidently face the future.

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