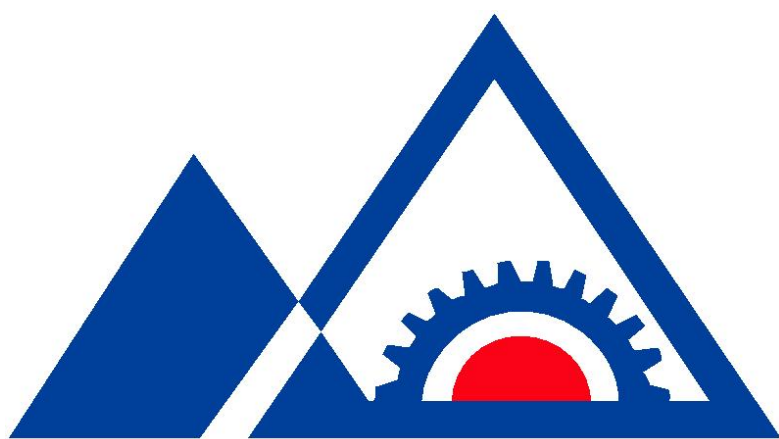


COMPANY PROFILE

Company information, services, production, capacity



CHEMOSVIT
STROJCHEM

CONTENT

1. Company mission
2. Company values
3. Identification of strategic groups
4. Divisions
5. Sales Offer
6. Business Assortment
7. Capacity List
8. Contacts

COMPANY MISSION

- We aim to be a long-term supplier of machining and assemblies orientated on the satisfaction of our customers and thereby ensure continuous development and a good company reputation.
- We aim to be a sought-after company for customers with an emphasis on high quality products, demands for professional solutions and a wide range of services, attractive pricing and a high level of reliability.
- With the provision of efficient and technologically advanced services, we want to contribute to the professional development of our employees in an ethical and cultural environment and to the development of the community in social, civil and environmental areas.

COMPANY VALUES

CUSTOMER CARE

Know the market and be able to predict its movements. Sales activity based on future development of enquiries and on active searching for opportunities. With the goal of satisfying the demands of our customer, make use of every chance to improve quality and value added content.

OPENESS

Be honourable, correct and open and accurately inform about results. Support equal opportunities, convey our views and be prepared to disagree if an alternative solution exists. Accept other opinions and be loyal during changes from joint strategy. Exchange information with all levels of management. In actions and decisions respect the morals, ethics, legal and internal standards and values of the company.

PROFESSIONALITY

Appreciate the necessity of solutions, which satisfy the requirements of customers and gain a competitive edge. Make each decision with a view to our goal. Use knowledge so that we improve and decide between alternatives based on facts.. Actively participate in improving professional qualifications and level of knowledge.

PARTNERSHIP

United efforts contribute to greater openness, tolerance and regard for colleagues, the company and the community. Co-operate at every organisational level to achieve our join goals. Realise the incorporation of joint effort to the framework of the company. Increase the efficiency of the system, remove duplicated effort and concentrate on achieving the company's strategy.

RESPONSIBILITY FOR RESULTS

With the employment and responsibility for open processes and actions, strengthen the achievement of set targets. Contribute to the definition of tasks and evaluation of their fulfilment, respect the priorities defined in the company's interest. Take personal responsibility for timeliness, correctness and the integrity of their completion. Be a good example with your approach and actions to create positive values.

RENEWAL AND DEVELOPMENT

Search for the most effective solutions in production, services and processes. Don't settle for average solutions and boldly use new opportunities in everyday work. Innovative technology, system management and work methods contribute to higher quality, better use of human resources and production capacity, energy, raw materials and remove negative effects on health, safety at work and the environment.

STRATEGIC GROUPS IDENTIFICATION

- Systematic contractor of components and technological parts of equipment
- Quality and reliability of product and service supply
- Ability to secure innovative products and processes
- Production capacity to speed up the product finalization
- Level, range and various technology alternatives
- Range of different products and additional services
- Implementation of standards within the integrated system management

DIVISIONS

STROJCHEM, a.s. is 100% subsidiary of CHEMOSVIT, a.s.

Company consists of four divisions. Each division conducts specific business activity:

1. Division FOUNDRY: Casting of steel, nodular cast and grey cast within its own commercial premises

2. MACHINING AND ASSEMBLY: Treatment of casts, steel, production on welded structures, assembly of machinery as well as machinery parts for machine engineering industry, energy industry, railway transport, printing industry and many other.

3. Division SERVIS: Servis maintenance within engineering and electro engineering, measurements and adjustments, automated system of control for technological processes, metrological and calibration activities, energy audits, energy efficiency of buildings.

4. Division CHEMPACK: Production and assembly of packaging machines and packaging lines.

Certification ISO 9001: 2008

- Certificate of quality management of welding OIS3834 – 2:2006
- Certified associate SIEMENS division IA&DT
- Confirmation of eligibility for treatment of rail ZSSK Cargo and PKP Cargo S.A.
- Certificate confirming applying and maintenance of contingency situational management system ISO 14001

Foundry

Our foundry offers complete services from construction drawings design, castings technology design, patterns production, castings production from cast steel, grey and nodular iron. The foundry includes also patterns production (wood patterns, polystyrene patterns, resin patterns).

Materials used in production

Grey casting - production of castings up to 2 500 kg/ pc

STN	DIN EN 1563	
42 24 15	EN - GJL-150	EN-JL 1020
42 24 20	EN - GJL-200	EN-JL 1030
42 24 25	EN - GLJ-250	EN-JL 1040
42 24 30	EN - GJL-300	EN-JL 1050

Nodular iron - production of casting up to 1 800 kg/ pc

STN	DIN EN 1563	
42 23 04	EN - GJS-400-15	EN-JS 1030
42 23 05	EN - GJS-500-7	EN-JS 1050
42 23 06	EN - GJS-600-3	EN-JS 1060
42 23 27	EN - GJS-700-2	EN-JS 1070
42 23 07 alloys	EN - GJS-HB265	EN-JS 2070

Steel casting - production of castings up to 1 300 kg/ pc

Standard	Material standards	
STN	422 640	422 712
	422 643	422 719
	422 650	422 726
	422 660	422 735
	422 709	422 750
	DIN 1681	GS-38
DIN 17182	GS-16Mn5	GS-20Mn5
DIN 17205	GS-30Mn5	GS-34CrMo4
	GS25CrMo4	GS-42CrMo4
SEW 520	GS-Mn6	GS-22NiMoCr 5 6
	GS-18NiMoCr 3 6	
UIC-840-2	E 260-450-MSC1	E 300-520-MSC1
	E260-450-MSC1	

Manual forming - basic parameters

- Gravity molding into the sand Alphaset form
- Dimensions of forming frames: 500 x 500 x 210, 2 400 x 2 400 x 500 mm

Grey cast iron

Casting - made of the wooden pattern

Dimensions of castings	max.: 2 000 x 2 000 x 1 000 mm
Weight	30 - 2 500 kg
Products	Lodges, stands, gear boxes, sledges, wheels, pulleys, weights, ...

Nodular cast iron

Casting - made on the wooden pattern

Dimensions of castings	max.: 1 300 x 1 300 x 500 mm
Weight	10 - 1 800 kg
Products	crane wheels, parts of machines and manipulators, dies for pressing tools, medians,...

Steel casting - made of the wooden patterns

Dimensions of castings	max.: 1 000 x 1 000 x 2 000 mm
Weight	up to 1 300 kg
Products	components for railway vehicles, housing, jaw, bars, travel wheels ...

Machine forming - basic parameters

- Gravity molding into bentonit sand form on the semiautomatic molding line "Foromat 10, 20, 30"

Size of the molding frames	330 x 330/ 100 x 100 mm
	450 x 350/ 100 x 150 mm
	760 x 600/ 140 x 250 mm
Dimensions of castings	550 x 400 x 250 mm
Weight	5 - 55 kg
Products	brake blocks, caps, holders ...

Technical capabilities

Melting shop equipment

Type	Number of basins	Capacity	Brand
Medium-frequency induction furnace	1 + 1	1 ton	Istol
Medium-frequency induction furnace	1 + 1	2 tons	Junker

Core shop equipment

Process	Manufacturing
CO2 proces	syringe GL
Alphaset	manual

Molding shop equipment

Type	Number	Sand mixture	Brand	Dimensions (mm)
Forming station	2	bentonit	Foromat 30	760 x 600 x 200
Forming station	4	bentonit	Foromat 20	450 x 350 x 100
Forming station	1	bentonit	Foromat 10	330 x 330 x 100
Manual form production	2	Alphaset	Gifos	500 x 500 - 2 400 x 2 400

Heat Treatment

Normanisilg

Homogenisation annealing

Quenching and tempering

Stress relieving

Soft annealing

Stress relieving after welding

Machining and assembly

The most activities of current production program consist of casting machining, metallurgical iron machining /cooperation, component assembling; production of machine parts for heavy industries, energy, railway transportation, plastics production, printing and others. We aim to be a long term supplier of machining and assemblies orientated on the satisfaction of our customers and thereby ensure continuous development and a good company reputation.

Sales offer according machining:

- ❖ Cubical machining (burnts, welds, castings, forgings):
 - Max. 4000 x 2500 x 1250 mm
 - Max. 2000 x 1800 mm
- ❖ Rotating parts (steel, welds, castings, forgings)
- ❖ Cylinders (steel, welds, castings, forgings)
 - Max. diameter 1000 mm
 - Max. diameter 700, lengths 2000 mm
 - Max. diameter 535, lengths 6000 mm – max. weight: 6 tonnes
 - Surface finishing by chromium, rubber, nickel and zinc plating
- ❖ Assembly groups (max. weight: 8 tonnes including electric, pneumatic, hydraulic assembly and functional tests)
- ❖ Welding in accordance with MIG, MAG, TIG/WIG, MMA
- ❖ Sharpening and reparation of tools for metal machining, woodwork and carpentry
- ❖ Correction of chromium-surface by “Alfachrom”

Sales offer according materials:

- ❖ Machined ferrous and non-ferrous metals
- ❖ Materials supplied by customer (GG, GGG, GS, ferrous and non-ferrous metals)

Chempack

Business line of CHEMPACK includes manufacturing and assembly of packaging machines, peripheral devices and automated packaging lines.

Sales offer:

- ❖ Continually working horizontal packaging machines of the “flow-pack” type - packing of various types of solid food and non-food products
- ❖ Packaging machines BH-07 BaR, BH-08 BaR - flexibility of parameters adjusting given by a programmable computer controlling
- ❖ Packaging machine BH-11 BaR - segment solution of longitudinal and crosswise seals and better setting and cleaning options

The horizontal packaging machines BH-07 BaR, BH-08 BaR, BH-10 BaR

- ❖ Continually working, computer-controlled machines which are suitable for the customers with the wide range of packed products or with an often change of packed product, where their flexibility is demonstrated
- ❖ Parameter setting is solved through the "touch screen" contact display.
- ❖ Program equipment of machine enables to choose the communication language- German, English, Polish, Russian and Hungarian language.
- ❖ it is possible to program up to 99 products.
- ❖ Designed for semi-automatic or automatic packaging lines where it is possible to communicate with various technological devices.
- ❖ Suitable for packing of products with regular shapes and convenient solidity:
- ❖ Food products (e.g. waffles, chocolate, gingerbreads)
 - industrial products (e.g. soap, bandages)
- ❖ It is possible to pack the products on underlayment and also in boxes

Peripheral devices:

- ❖ An inert gas applicator for the extension of the products' durability (cheese, strudels etc.)
- ❖ Establishing into weld (a device for placing of film which overlaps the outline of product's width; it is significant for high, regular products where it improves the product's look and its specification inside the package.
- ❖ Date-determinators (tape, dry touch rotation matrix, ink-jet)

Packaging materials:

- ❖ Thermically weld able films (on the PP base)
- ❖ Combined films (on the PP base with the combination of PE, PET, PP, Al etc.)
- ❖ Cold weld closable films
- ❖ Films can be transparent, metalized, with or without printing

Industrial Services

Division involves in their product range repairs and services of machinery, electrical maintenance, measurement and regulation of automated systems of controlling technological processes, metrological, calibration and revision operations.

Offer of services:

Electrical assembly:

Repairs, production and assembly of electrical appliances, distributors, repairs of electric asynchronous DC motors, lighting assembly, lightning rods, operational heavy and weak current distributions, optical distribution, electronic fire signalisation and fire barriers using PYROSTOP system. Said operations can also be performed in explosive areas

Measurement, regulation and metrology:

Supplies, assembly and repairs of machinery units, measurement and regulation also in explosive areas. Calibration, speed recording tachometers of SIEMENS VDO and KIENZLE, assembly and service of INFOCAR monitoring systems, repairs and checking of electronic scales, calibration and repairs of pressure gauges and thermometers, length meters, meters of time and force

Machinery operations:

Repairs, refurbishment and assembly of machinery-technological units, pumps, compressors, printing machines, repair of high and low-lift power trucks, supplies and assembly of technological devices, pipe installations (thermal oil, chilling water, pressurised air, central heating distributions, solvents), including required testing

Technical operations:

Design drawings of chemical and food plants, building and technological steel structures, pipe distributions and air supply lines. Technical inspections and testing of electric, pressure, gas and lifting devices, measurement of rotating machines vibrations

Automated operations:

Design, supply and service of industrial automated systems based on SIEMENS technology, supplies of SIEMENS components – programmable control systems, periphery industrial computers, networks, visualisation systems and frequency converters of Sinamics

SALES OFFER

Products by segment:

- Parts, sub-assemblies and complete machines for:
- Construction machines
- Printing industry
- Food processing machines
- Textile industry
- Railway wagons
- Transmission parts
- Services
- Design and manufacture of production fixtures
- Design and technology consultation

Sales offer:

According materials:

- ❖ Machined castings from own foundry:
 - GG 20/25/30 up to 2500 kg
 - GS 45/52/60/30Mn5/20Mn5 up to 1100 kg
 - Acc. DIN EN 1563: EN-GJS-350, EN-GJS-400 (GGG40), EN-GJS-500 (GGG50), EN-GJS-600 (GGG60), EN-GJS-700 (GGG70) up to 2500 kg
- ❖ Materials supplied by customer (GG, GGG, GS, non-ferrous metals)
- ❖ Machined ferrous and non-ferrous metals

According machining:

- ❖ Machining and fabrication (machining in cube 4 000/2 500/1 250 mm 20-200 parts per batch, 2 200/1 800, 5-10 parts in batch, steel "side-plates, fabrications, castings)
- ❖ Cylinders production, rotational parts
 - up to diameter 1 000 "tubes" 20-200 parts in batch material steel, forgings, castings
 - up to diameter 700 and length 3 000 mm, 5-50 parts in batch material steel, forgings, castings
 - up to diameter 535 and length 6 000 mm
- ❖ Flame-cut or pressed parts with machining

- ❖ Assemblies (up to 8 tonnes, small series 5-10 parts, including electrical, pneumatic, hydraulic assembly and functionality testing)
- ❖ Repair or spare parts (tooling, fixtures, parts, groups) surface and heat treatment (see appendix)
- ❖ Other (fabrication, technological constitution, 3D measurement)
- ❖ Sharpening and reparation of tools for metal machining, woodwork and carpentry

CAPACITY LIST

CNC machining centres - horizontal

TOS WHQ 13 CNC

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Table dimensions	2 200 x 1 800 mm
Axis	x = 3 500mm y = 2 000mm z = 1 250mm
Number of machines	1

TOS WHQ 13 CNC

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Table dimensions	2 200 x 1 800 mm
Axis	x = 4 000mm y = 2 000mm z = 1 250mm
Number of machines	1

TAJMAC - ZPS H 63

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Pallet size	800 x 630 mm
Axis	x = 1 010 mm y = 800 mm z = 1 010 mm
Loading mechanism	Pallet changer(2 pallets)
Number of machines	1

BURKHARD & WEBER MC60H

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Pallet size	630 x 630 mm
Axis	x = 800 mm y = 600 mm z = 600 mm
Loading mechanism	Pallet changer (8 and 10 pallets)
Number of machines	4

HYUNDAI - KIA HX630

Positioning accuracy	0,008 mm
Accuracy of machining	IT6 and higher
Table dimensions	630 x 630 mm
Axis	x = 1 085mm y = 850mm z = 850mm
Number of machines	1

DAEWOO HP500

Positioning accuracy	0,008 mm
Accuracy of machining	IT6 and higher
Table dimensions	500 x 500 mm
Axis	x = 800mm y = 700mm z = 750mm
Number of machines	1

CNC machining centres - vertical

DECKEL - MAHO C100V

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Table dimensions	1 250 x 800 mm
Pallet size	760 x 460 mm
Axis	x = 1 000 mm y = 800 mm z = 600 mm
Loading mechanism	Pallet changer (2 pallets)
Number of machines	1

MATEC 30L

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Table dimensions	2 500 x 1 050 mm
Pallet size	760 x 460 mm
Axis	x = 2 000 mm y = 1 000 mm z = 600 mm
Loading mechanism	Table can be divided into two
Number of machines	1

MCV 1000 - POWER

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Table dimensions	1 300 x 670 mm
Pallet size	760 x 460 mm
Axis	x = 1 016 mm y = 610 mm z = 720 mm
Number of machines	1

FEELEER

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Table dimensions	2 100 x 1 400 mm
Axis	x = 2 150 mm y = 1 400 mm z = 750 mm
Number of machines	1

FGS 40CNC

Positioning accuracy	0,01 mm
Accuracy of machining	IT8 and higher
Axis	x = 800 mm y = 400 mm z = 500 mm
Number of machines	1

CNC milling machines

WHN9B

Positioning accuracy	0,05 mm
Accuracy of machining	IT8 and higher
Table dimensions	1 120 x 990 mm
Axis	x = 1 200 mm y = 900 mm z = 650 mm
Number of machines	1

WHN10 NC

Positioning accuracy	0,03 mm
Accuracy of machining	IT8 and higher
Table dimensions	1 100 x 1 100 mm
Axis	x = 1 200 mm y = 900 mm z = 650 mm
Number of machines	2

WD130

Positioning accuracy	0,03 mm
Accuracy of machining	IT8 and higher
Rotating table size	2 000 x 2 000 mm
Axis	x = 3 200mm y = 1 250mm z = 1 000mm
Loading mechanism	Rotating table
Number of machines	1

NC and CNC drills

VR 5 CNC

Positioning accuracy	0,02 mm
Accuracy of machining	IT7 and higher
Axis	x = 1 250 mm y = 1 000 mm z = 800 mm
Number of machines	1

VXR 50 NS316

Positioning accuracy	0,02 mm
Accuracy of machining	IT7 and higher
Axis	x = 600 mm y = 400 mm z = 400 mm
Number of machines	1

NC and CNC lathes

SPR 63 NC

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Max part size	Dmax= 320 mm, Lmax= 350 mm
Other functions	Automatic bar feed (up to Dmax = 63 mm)
Number of machines	2

MASTURN 70 CNC

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Max part size	Dmax= 720 mm, Lmax= 3 000 mm
Number of machines	1

SKT 28LM

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Max part size	Dmax= 415 mm, Lmax= 1 070 mm
Other functions	Driver tools "C" axis
Number of machines	1

SKT 400

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Max part size	Dmax= 535 mm, Lmax= 1 200 mm
Number of machines	1

WEILER

Positioning accuracy	0,01 mm
Accuracy of machining	IT6 and higher
Max. part size	Dmax= 730 mm, Lmax= 2 500mm
Number of machines	1

UD 802 CNC - SCHAERER

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Max. part size	Dmax= 520 mm, Lmax= 4000 mm
Number of machines	1

SKJ 10CNC-KARUSEL

Positioning accuracy	0,01 mm
Accuracy of machining	IT7 and higher
Max. part size	Dmax= 1 000 mm, Lmax=1 000 mm
Number of machines	1

Conventional machines (without NC control)

LATHES - HORIZONTAL

Max. part size	Dmax= 530 mm, Lmax= 6 000 mm
Accuracy of machining	IT9 and higher
Machine models	RM25, SUI40, SUI50,SN50, SUI63, SUI 80RP, SUS 80, UD 801 DE
Number of machines	9

LATHES - VERTICAL

Max. part size	Dmax=1 250 mm, Lmax= 710 mm
Accuracy of machining	IT9 and higher
Machine models	SKJ 12A
Number of machines	1

MILLS – VERTICAL AND HORIZONTAL

Max. part size	x = 1 600mm, y= 400mm
Accuracy of machining	IT9 and higher
Machine models	FGU32, FGS25/32, FA4AU, FGSH40
Number of machines	4

VERTICAL DRILLS

Max. part size	x = 1 600mm, y = 600mm z = 1 400mm
Accuracy of machining	IT11 and higher
Machine models	VR4A,VR6A,VO50
Number of machines	3

SURFACE GRINDERS

Max. part size	x = 1 000 mm, y= 300mm z= 250mm
Accuracy of machining	IT5 and higher
Machine models	BPH 320 A, BPV 300, BRH 20.05
Number of machines	3

CYLINDRICAL GRINDERS

Internal

Dimensions of parts	Dmin=10mm, Dmax=250mm, Lmax=150mm
Accuracy of machining	IT5 and higher
Machine models	BDU 250A
Number of machines	1

Exterior

Max. part size	Dmax = 630 mm Dmax = 4 000 mm
Accuracy of machining	IT5 and higher
Machine models	BHU 32A, BUC63B, BHV50A, BU28
Number of machines	4

HOBBIING, SLOTTING AND GEAR CUTTING

Gears: Cylindrical, bevel and worm

Teeth: Straight, angled, shaped (band wheel for pulley)

Exterior teeth

Size $D_{\max} = 1\,200\text{ mm}$, $m_{\max} = 10\text{ mm}$
Accuracy of machining From St. 7

Interior teeth

Size $D_{\max} = 400\text{ mm}$, $m_{\max} = 6\text{ mm}$
Accuracy of machining From St. 7

Machine models: FO-6, FO-10, OHO20, OH6, MAAG,
PFAUTER, ZSTWK.

Number of machines 7

PLANER, SLOTTERS AND BROACHING

Size $x = 3\,500$, $y = 1\,000$, $z = 300\text{ mm}$
Accuracy of machining IT12 and higher
Machine models HD12, 5-16-20A
Number of machines 1

Slotting

Size $D_{\max} = 650\text{ mm}$ $z = 450$
Accuracy of machining IT9 and higher
Machine models HOV 25, STANKOIMPORT 7D430
Number of machines 2

Broaching

Size $D_{\max} = 500\text{ mm}$, $L_{\max} = 300\text{ mm}$
Accuracy of machining IT8 and higher
Machine models STANKOIMPORT
Number of machines 1

Dynamic balancing

Size $D_{\max} = 700\text{ mm}$, $L_{\max} = 3400\text{ mm}$,
 $m_{\max} = 350\text{ kg}$
Machine models TIRARAVENSTEIN
Number of machines 1

Heat treatment

- ❖ Stress relieving
- ❖ Annealing
- ❖ Normalising
- ❖ Re-crystallisation
- ❖ Hardening :
 - In water
 - In oil
 - In air ('self-hardening' materials)

HEAT TREATMENT OVENS

Box furnace

Max. part size: 1 100 x 600 x 500 mm
Sampling of temperature and time: digital with log
Quantity 1

Pit furnace

Max. part size: d800 x 1 400 mm
Quantity 1

Pit furnace

Max. part size: d850 x 1 000 mm
Quantity 1

OTHER SERVICES

- Anti-rust surface treatment
- Construction and repair of production fixtures
- Repair and grinding of tools
- 3D measurement and measurement reports
- Repair of parts using welding and microwelding with spray deposit

CONTACTS

Address:

STROJCHEM, a. s.

Štúrova 101

05921 Svit

Slovak republic

Slovakia and Czech Republic

Tel.: +421 52 715 2572

Tel.: +421 52 715 2256

Foreign Countries

Tel.: +421 52 715 2478

Tel.: +421 52 715 2125

Fax.: +421 52 715 2736

Email: strojchem@strojchem.sk