



Largo  Ultra high
performance tires

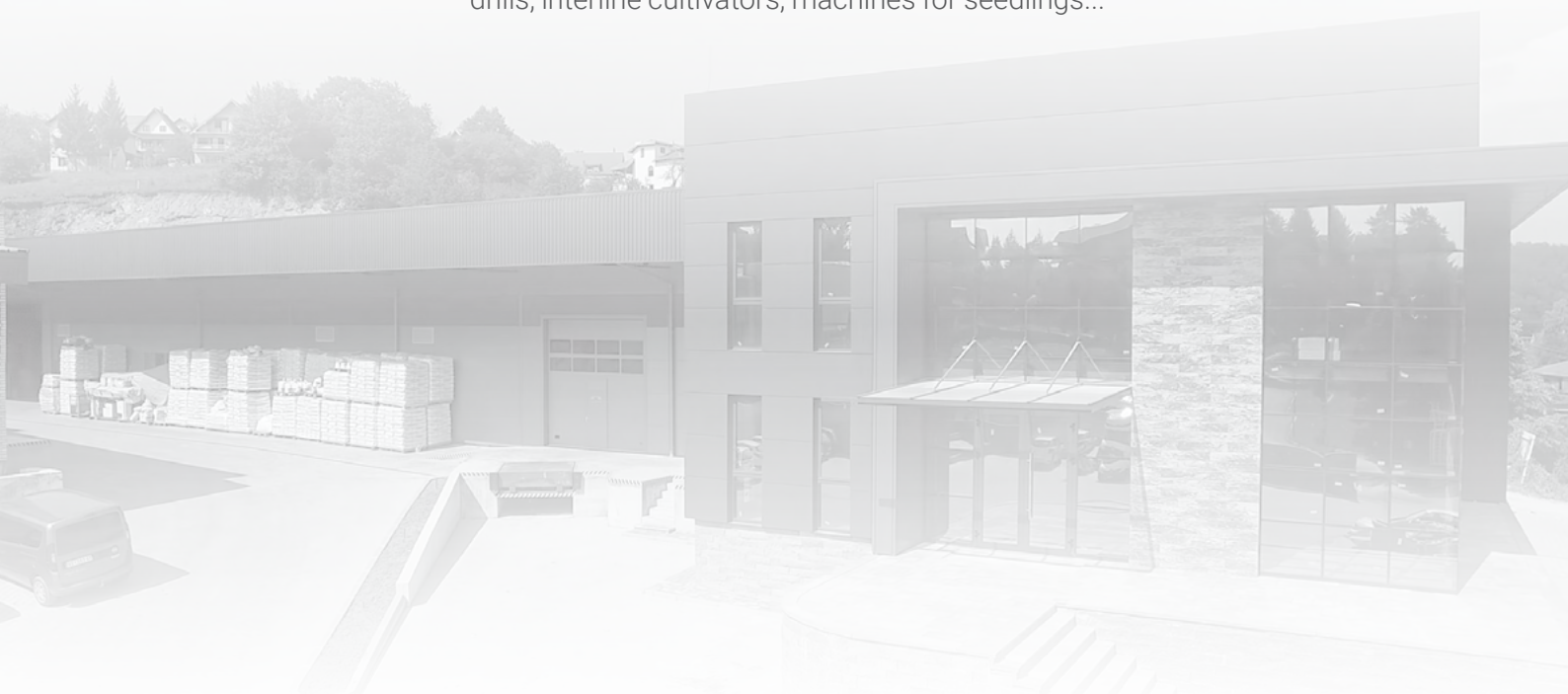


ABOUT US

Company was founded in 2001. as a privately owned and today is worldwide recognized as a rubber specialists.

Solving the most complex requirements for our customers made us who we are today, company which has know-how to offer complete solution from mould design, rubber compounding, up to final product.

Semi-pneumatic wheels that we have been producing for 20 years are used by many renowned agricultural machine manufacturers who have recognized our quality, service and commitment. Our semi-pneumatic wheels are used on seed drills, precision seed drills, precision vegetable seed drills, interline cultivators, machines for seedlings...



LABORATORY

The basis of our quality is the central laboratory for physical and mechanical testings.

Modern equipment and competent experts guarantee the precision and reliability of the performed tests.

WE ARE ABLE TO PERFORM VARIOUS TYPES OF TESTS IN OUR LABORATORY:

SPECIFIC DENSITY – DIN 53 479

ABRASION – ISO 4649, DIN 53 516

VISCOSITY – ISO 289-1, DIN 53 523

AGING – ISO 188

OZONE – ISO 1431, DIN 53 509

RHEOMETAR CURVE – DIN 53 509, DIN 53 529-3

TEAR RESISTANCE – ISO 34, DIN 53 504

TENSILE STRENGTH – ISO 34, DIN 53 504

COMPRESSION SET – ISO 815, DIN 53 517

HARDNESS (IRHD AND SHORE A)
– ISO 868, DIN 53 505, ISO 48, DIN 53 519

ELECTRICAL CONDUCTIVITY – ISO 1853



ROLLERS

After years of development and field testings we have started manufacturing complete rollers.

Testing were done on light soil, clayey soil and crusty soil so our rollers were designed to be used independently of the soil type.

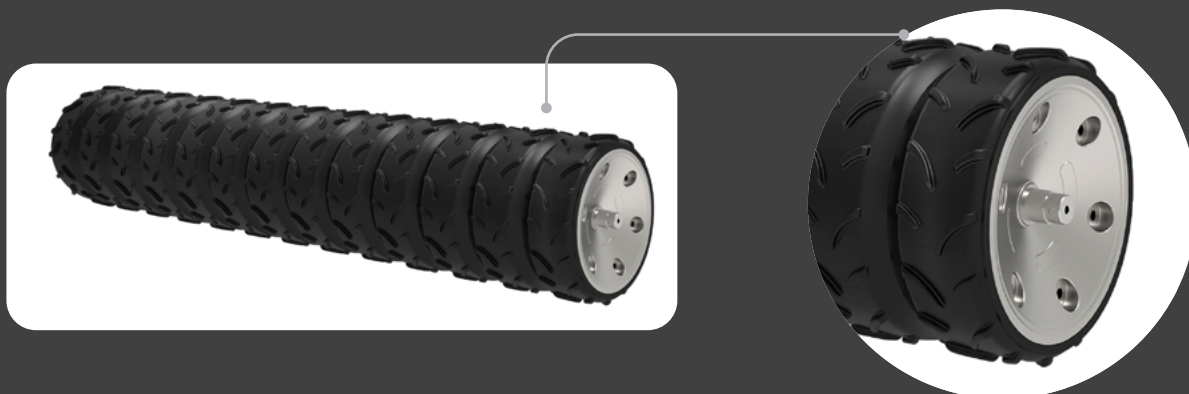
By using special lubricant additives in rubber compound for roller tires, we achieved an excellent result of the self-cleaning effect. The results are visible on all soil types, especially in wet conditions. This was possible due to our own laboratory and rubber compound development and production.



WE ARE ABLE TO OFFER DIFFERENT TYPES OF PROFILES DEPENDING ON OUR CUSTOMER NEEDS

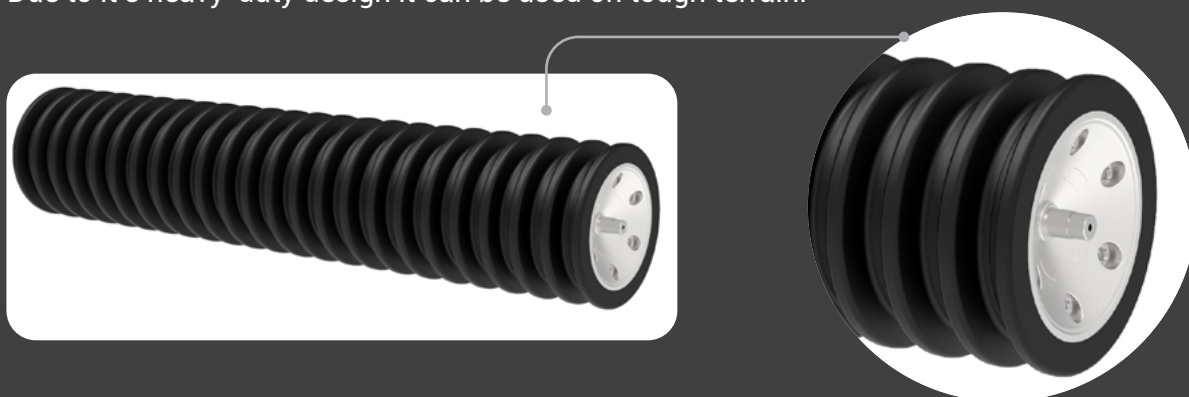
FLAT PROFILE

leaves uniform surface tamping, gives good results on sandy soil due to large surface contact and has good self-cleaning properties.



ROUNDED PROFILE

was the most widely used type of roller in the past because of its high agricultural efficiency. Due to its heavy-duty design it can be used on tough terrain.



PROFILE WITH CLEATS

combines some of the good features of flat and rounded profile tires. Cleats leave a tread pattern on the soil which reduces crusting. This type of profile is increasingly in use.



DO YOU WANT YOUR OWN DESIGN?

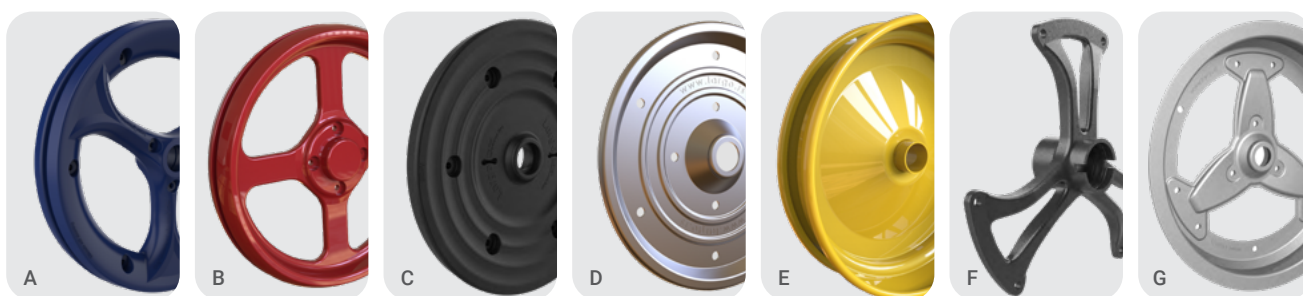
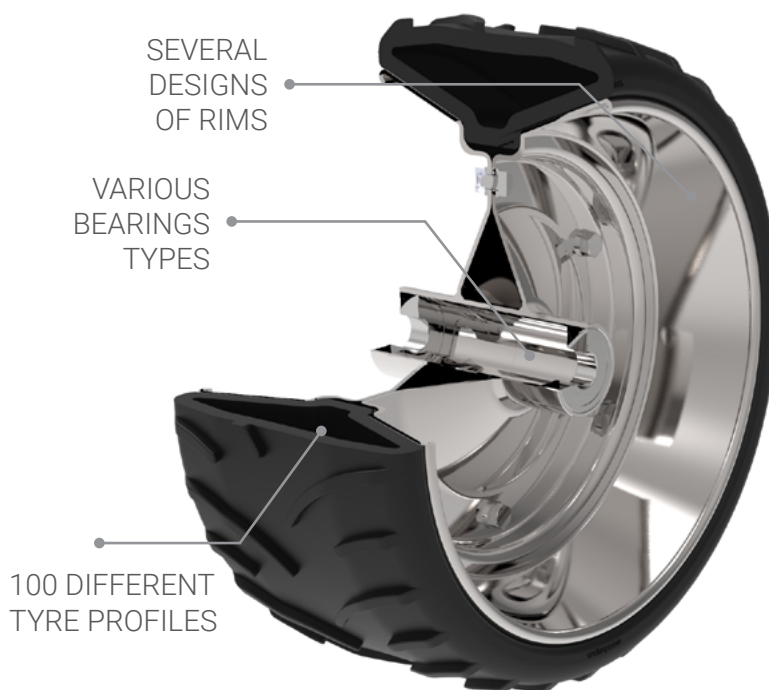
In our range we have over 100 different tire profiles.

New profiles are developed in our own the tool room in a very short time frame.

In our range there is several patented designs of rims which are made or plastic and steel.

Do you want your own design? Our designers will help you developing or develop a model for you.

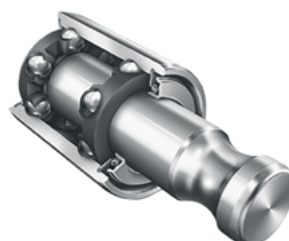
We can offer various types of bearings of trusted manufacturers.



A1



B1



C1

WHEELS

We are aware of the fact that wheels are vital parts of machinery and due to the short time constraints of the sowing season, no errors can occur. Therefore, we don't compromise where quality is concerned.

We constantly work in order to improve the quality of all built in components like screws, bearings, plastic, metal rims and the most important component – rubber.

The rubber compounds were developed in cooperation with the leading German Institutes for caoutchouc specifically designed for agricultural use. We producing the compounds in our own mixing line and we check each batch produced in the central laboratory for physical and mechanical testings. Our rubber compounds for agriculture have been developed to endure even the most extreme conditions of exploitation. The high level of natural caoutchouc contributes to excellent mechanical characteristic (tear, tear

resistance, tensile strength, compression set...) and special additives provide resistance to UV and ozone influence. The combination of the expertise of our staff and the technical capabilities available to produce and test the final product can only contribute to impeccable quality.

Besides our ability to follow our customers in accordance with their everyday needs, we can also offer our customers the possibility of developing new products within a very short period and at realistic prices. We have our own tool shop equipped with modern machines and very experienced and professional staff. Our mechanical engineers who run a tool shop are ready to help you develop new products, provide design guidance, technical solutions, etc.

Our ultra high performance tires are designed to endure even the most demanding conditions of exploitation.

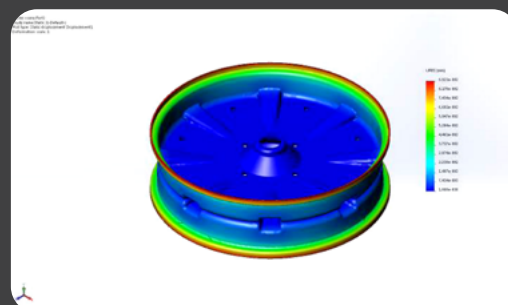
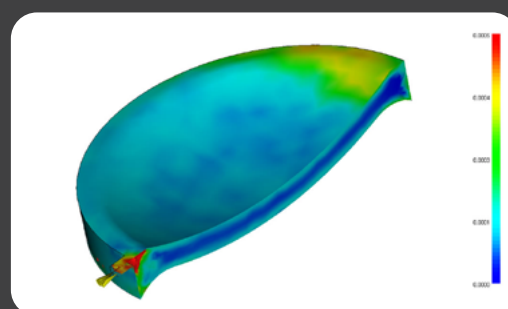
COMPUTER ANALYSIS AND TESTING OF WHEELS

During the development of new wheels we pay special attention to the analysis.

We perform computer static tests of wheels with various loads to simulate as close to the real situation in the field and thus prevent potential vulnerabilities.

Also, we analyze the flow of materials after we do the construction tools.

Analyses provide uninterrupted production and guaranteed quality of the final product.





profile sketch



Tire code
00100

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
160	40	40 - 70	A	B1	0100AB1
160	40	40 - 70	B	B1	0100BB1
160	40	40 - 70	C	B1	0100CB1
160	40	40 - 70	D	B1	0100DB1



profile sketch



Tire code
00101

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
160	70	40 - 70	A	B1	0101AB1
160	70	40 - 70	B	B1	0101BB1
160	70	40 - 70	C	B1	0101CB1
160	70	40 - 70	D	B1	0101DB1



profile sketch



Tire code
00102

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
170	15	60 - 70	C	A1	0102CA1
170	15	60 - 70	C	B1	0102CB1
170	15	60 - 70	D	A1	0102DA1
170	15	60 - 70	D	B1	0102DB1



profile sketch



Tire code
00103

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
185	30	50 - 70	C	A1	0103CA1
185	30	50 - 70	C	B1	0103CB1
185	30	50 - 70	D	A1	0103DA1
185	30	50 - 70	D	B1	0103DB1



profile sketch



Tire code
00104

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
200	15	60 - 70	C	A1	0104CA1
200	15	60 - 70	C	B1	0104CB1
200	15	60 - 70	D	A1	0104DA1
200	15	60 - 70	D	B1	0104DB1



profile sketch



Tire code
00105

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
200	65	60 - 70	C	B1	0105CB1
200	65	60 - 70	D	B1	0105DB1



profile sketch



Tire code
00135

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
200	67	60-70	C	A1	00135CA1



profile sketch



Tire code
00106

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
210	15	60 - 70	C	A1	0106CA1
210	15	60 - 70	C	B1	0106CB1
210	15	60 - 70	D	A1	0106DA1
210	15	60 - 70	D	B1	0106DB1



profile sketch



Tire code
00107

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
230	80	60 - 70	C	B1	0107CB1
230	80	60 - 70	D	B1	0107DB1



profile sketch



Tire code
00108

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
250	25	60 - 70	C	A1	0108CA1
250	25	60 - 70	C	B1	0108CB1
250	25	60 - 70	D	A1	0108DA1
250	25	60 - 70	D	B1	0108DB1



profile sketch



Tire code
00109

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
250	42	40 - 60	C	A1	0109CA1



profile sketch



Tire code
00160

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
250	42	60-70	C	B1	00160CB1



profile sketch



Tire code
00110

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
265	100	60 - 70	D	B1	0110DB1



profile sketch



Tire code
00111

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	60	60 - 70	C	B1	00111CB1
280	60	60 - 70	D	B1	00111DB1



profile sketch



Tire code
00112

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	65	60 - 70	C	B1	0112CB1
280	65	60 - 70	D	B1	0112DB1



profile sketch



Tire code
00113

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	65	60 - 70	C	B1	0113CB1
280	65	60 - 70	D	B1	0113DB1



profile sketch



Tire code
00114

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	65	60 - 70	C	B1	0114CB1
280	65	60 - 70	D	B1	0114DB1



profile sketch



Tire code
00115

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	65	60 - 70	C	B1	0115CB1
280	65	60 - 70	D	B1	0115DB1



profile sketch



Tire code
00116

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
280	100	60 - 70	D	B1	0116DB1



profile sketch



Tire code
00117

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
290	50	60 - 70	B	B1	0117BB1



profile sketch



Tire code
00118

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
295	100	60 - 70	D	A1	0118DA1



profile sketch



Tire code
00119

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
300	100	60 - 70	D	A1	0119DA1



profile sketch



Tire code
00120

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
310	25	60 - 70	C	B1	0120CB1
310	25	60 - 70	D	B1	0120DB1



profile sketch



Tire code
00137

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
310	25	60-70	D	B1	00137DB1



profile sketch



Tire code
00121

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
310	100	60 - 70	D	A1	0121DA1



profile sketch



Tire code
00138

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
318	50	60-70	D	C1	00138DC1



profile sketch



Tire code
00139

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
325	50	60-70	D	B1	00139DB1



profile sketch



Tire code
00164

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
325	108	60-70	D	A1	00164DB1



profile sketch



Tire code
00122

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
330	50	40 - 60	A	B1	0122AB1
330	50	40 - 60	A	C1	0122AC1
330	50	40 - 60	B	B1	0122BB1
330	50	40 - 60	B	C1	0122BC1
330	50	40 - 60	C	B1	0122CB1
330	50	40 - 60	C	C1	0122CC1
330	50	40 - 60	D	B1	0122DB1
330	50	40 - 60	D	C1	0122DC1



profile sketch



Tire code
00123

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
330	50	50 - 60	A	B1	0122AB1
330	50	50 - 60	A	C1	0122AC1
330	50	50 - 60	B	B1	0122BB1
330	50	50 - 60	B	C1	0122BC1
330	50	50 - 60	C	B1	0122CB1
330	50	50 - 60	C	C1	0122CC1
330	50	50 - 60	D	B1	0122DB1
330	50	50 - 60	D	C1	0122DC1



profile sketch



Tire code
00124

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
330	50	50 - 60	A	B1	0122AB1
330	50	50 - 60	A	C1	0122AC1
330	50	50 - 60	B	B1	0122BB1
330	50	50 - 60	B	C1	0122BC1
330	50	50 - 60	C	B1	0122CB1
330	50	50 - 60	C	C1	0122CC1
330	50	50 - 60	D	B1	0122DB1
330	50	50 - 60	D	C1	0122DC1



profile sketch



Tire code
00125

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
330	65	50 - 60	C	B1	0125CB1



profile sketch



Tire code
00126

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
330	75	50 - 60	C	B1	0126CB1
330	75	50 - 60	D	B1	0126DB1



profile sketch



Tire code
00159

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
335	105	60 - 70	D	A1	00159DA1



profile sketch



Tire code
00140

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
340	50	60-70	C	C1	00140CC1



profile sketch



Tire code
00141

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
340	50	60-70	B	A1	00141BA1



profile sketch



Tire code
00142

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
340	75	60-70	C	C1	00142CC1



profile sketch



Tire code
00143

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
350	33	60-70	C	B1	00143CB1



profile sketch



Tire code
00144

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
350	50	60-70	C	B1	00144CB1



profile sketch



Tire code
00145

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
350	100	60-70	E	A1	00145EA1



profile sketch



Tire code
00158

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
350	105	60 - 70	D	A1	00158DA1



profile sketch



Tire code
00146

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
355	77	60-70	C	B1	00146CB1



profile sketch



Tire code
00147

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
360	33	60-70	E	A1	00147EA1



profile sketch



Tire code
00127

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
360	50	50 - 60	D	A1	0127DA1



profile sketch



Tire code
00129

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
370	165	60 - 70	D	A1	0129DA1



profile sketch



Tire code
00130

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
380	50	60	C	B1	0130CB1



profile sketch



Tire code
00157

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
380	50	60 - 70	C	B1	00157CB1



profile sketch



Tire code
00131

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
380	65	60	C	B1	0131CB1



profile sketch



Tire code
00132

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
380	75	60	C	B1	0132CB1
380	75	60	D	B1	0132DB1



profile sketch



Tire code
00148

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
383	57	60-70	C	B1	00148CB1



profile sketch



Tire code
00163

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
390	80	60 - 70	D	B1	00163DB1



profile sketch



Tire code
00156

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
390	90	60 - 70	D	B1	00156DB1



profile sketch



Tire code
00133

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
400	65	60-70	C	B1	0133CB1
400	65	60-70	D	B1	0133DB1



profile sketch



Tire code
00155

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
400	80	60 - 70	D	B1	00155DB1



profile sketch



Tire code
00134

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
400	115	60-70	C	B1	0134CB1
400	115	60-70	D	B1	0134DB1



profile sketch



Tire code
00149

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
400	120	60-70	C	B1	00149CB1



profile sketch



Tire code
00154

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
413	100	60 - 70	D	B1	00154DB1
413	100	60 - 70	F	B1	00154FB1
413	100	60 - 70	G	B1	00154GB1



profile sketch



Tire code
00153

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
420	100	60 - 70	D	B1	00153DB1
420	100	60 - 70	F	B1	00153FB1
420	100	60 - 70	G	B1	00153GB1



profile sketch



Tire code
00161

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
460	130	60 - 70	F	B1	00161FB1



profile sketch



Tire code
00162

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
460	160	60 - 70	F	B1	00162FB1



profile sketch



Tire code
00150

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
500	115	60-70	E	A1	00150EA1



profile sketch



Tire code
00151

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
500	175	60-70	E	A1	00151EA1

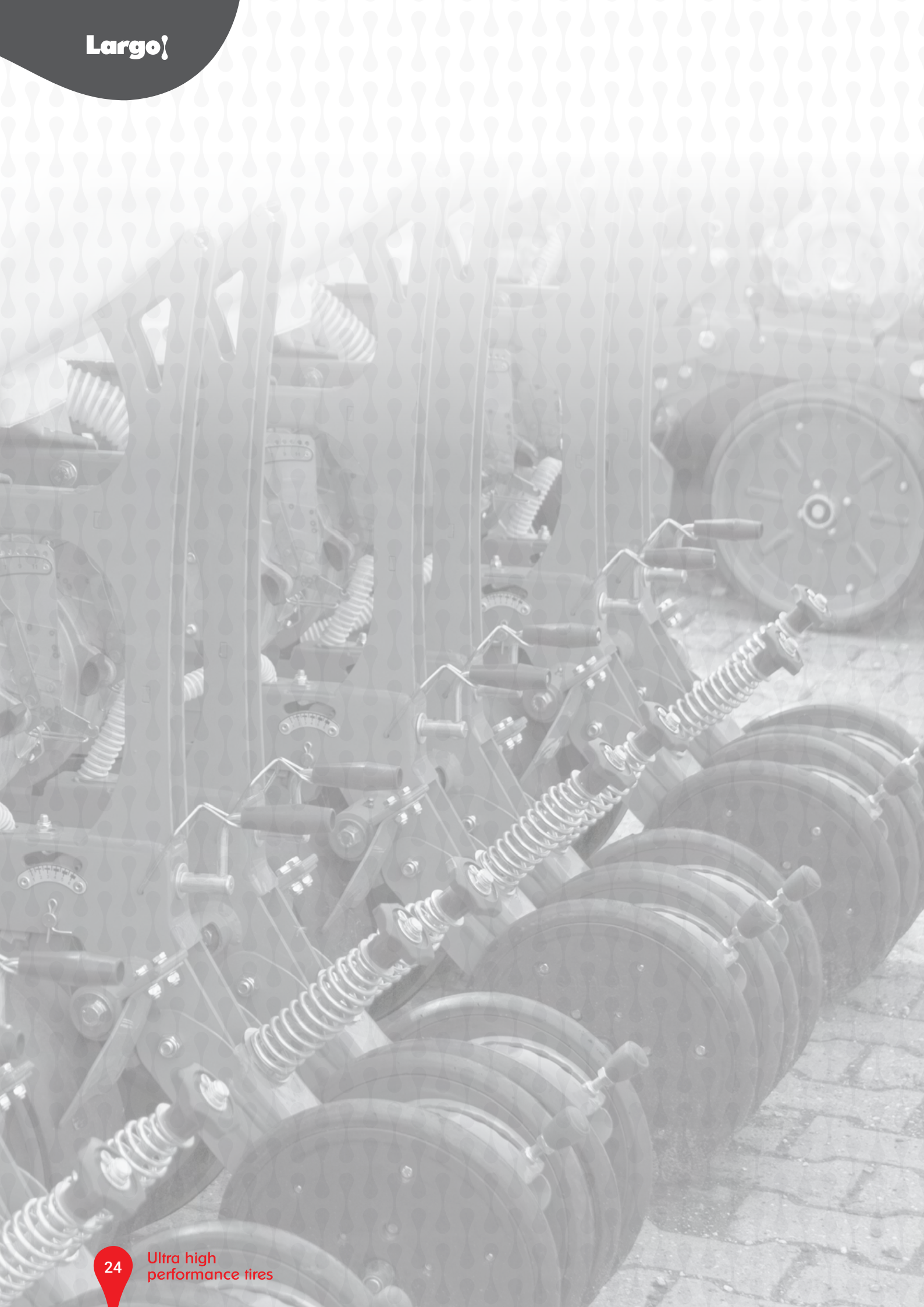


profile sketch



Tire code
00152

Outside diameter	Width	Rubber Hardness	Rim type	Bearing type	Wheel code
515	77	60 - 70	/	B1	/



2.000 DEVELOPED RUBBER COMPOUNDS

DIMENSIONAL CONTROL TO 0.01 mm

LABARATORY FOR PHYSICAL AND MECHANICAL TESTING

IN HOUSE TOOLROOM

98% EXPORT

DYNAMIC TESTS

SOFTWARE ANALYSIS

FIELD TESTS





RUBBER COMPOUNDING

Chemical Name	Natural Rubber	Styrene Butadiene Rubber	Nitrile Butadiene Rubber	Hydrogenated Nitrile Butadiene Rubber
DIN ISO 1629	NR	SBR	NBR	HNBR
ASTM D 1480	NR	SBR	NBR	HNBR
Tradename	SMR, Latex, Crepe	Buna®, Plioflex®, Cariflex®, Intex®, Europrene® S-SBR	Perbunan®, Krynac®, Hycar®, Europrene® N	Therban®, Zetpol®
Description	Natural rubber's extraordinary qualities are high tensile strength and elasticity. When subjected to low temperatures, natural rubber remains extremely flexible under dynamic load. This polymer is not intended to be used with oil, fuel, solvent, grease, or under the influence of ozone. Natural rubber is frequently used in the production of tires, shock-absorbers, and components and profiles subjected to high dynamic load.	SBR is a synthetic rubber derived from butadiene and styrol, and is similar to natural rubber (NBR). SBR is highly resistant to wear and tear and various fluids – acids, emulsions, water and glycol-based brake fluid. It has numerous applications in all branches of industry, such as production of hoses, profiles, gaskets, shock-absorbers, belts, heels and conveyor belts, to name but a few.	NBR is a synthetic rubber copolymer of acrylonitrile (ACN) and butadiene. Depending on the acrylonitrile concentration (18-50%), NBR's properties can be custom-made to conform to requirements. Essentially, NBR is medium resistant to ozone and flexible at low temperatures. NBR is used in the production of gaskets, o-rings, valves, membranes, cushions, bellows, and oil and fuel tubes.	HNBR is derived through hydration of NBR. The hydration process increases stability of NBR when it is exposed to heat, ozone and oxidation. Some of HNBR's features are high mechanical hardness and improved resistance to wear-and-tear. In comparison to NBR, chemical properties of HNBR under high temperatures have been significantly improved. Resistance to atmospheric conditions is on the same level as EPDM. This polymer has a wide application in modern technology, for instance in the production of biodiesel. HNBR is also used in the car industry for the production of water pump gaskets and seals, engines, transmissions, bellows, membranes, etc.
Hardness on the Shore durometer scale (SH-A)	30 - 90	35 - 90	20 - 95	50 - 90
Temperature resistance (°C)	-60/+80	-50/+100	-25/+120	-30/+150
Tensile strength (N/mm ²)	12 - 25	6 - 20	6 - 17	6 - 18
Elasticity (%)	450 - 700	300 - 700	200 - 600	200 - 450
Rolling friction	2	2	1-2	1-2
Dynamic mechanical elasticity (at 23°C)	1	2	2	2
Resistance to wear and tear	1	1-2	2	2
Gas permeability	3-x	2-3	1-2	1-2
Resistance to ozone	3-x	3-X	3	2
Compatibility with metal	1	1	2	2
Compatibility with textiles	1	1	2	2
Resistance to flames	X	X	X	X
Electrical resistivity	1	1-2	2	3-X
Resistance to 25% natron solution at 50°C	2	1-2	X	1
Resistance to 25% sulphuric acid at 50°C	2	1-2	2	1-2
Resistance to fuel	X	X	1-2	1-2
Resistance to organic carbon-hydrogen	X	X	1	1
Resistance to aromatic carbon-hydrogen	X	X	2-X	2-X
Resistance to chlorinated carbon-hydrogen	X	X	X	3-X
Resistance to oil and grease	X	3-X	1	1
Resistance to water	1	1-2	1	1

Our Materials

Natural - Rubber, SBR (Buna®), NBR (Perbunan®), HNBR, CR (Neoprene®), EPDM, ACM, AEM, Silikon, Fluorsilikon

We have over 2.000 already developed rubber formulas based on the following polymers:
NR, SBR, NBR, HNBR, CR, EPDM, IR, BR in our product lines.

One part of the compounds have been developed for our own production in order to fulfill our clients' requests.

Chloroprene Rubber	Ethylene Propylene Diene Monomer	Akyl Acrylate Copolymer	Silicon Rubber	Fluorovinylmethyl Silicone Rubber	Fuorinated Propylene Monomer
CR	EPDM	ACM/AEM	VMQ	FMVQ	FPM
CR	EPDM	ACM/AEM	VMQ HTV/LSR	FMVQ	FKM
Baypren®, Neoprene®, Butaclor®	Buna® AP, Dutral®, Nordel®, Keltan®, Vistalon	Vamac®, Nipol AR®	Elastosil®, Silastic®, Silopren	Elastosil®, Silastic®	Viton®, Tecnoflon®, Fluorel®, DAI-EL®
CR was one of the first oil resistant synthetic rubbers. However, it has only moderate resistance to petroleum based oils and fuels. It can be considered as a good general purpose rubber with an excellent balance of physical and chemical properties. It has better chemical, oil, ozone and heat resistance than natural rubber but a rather lower level of physical properties. Chloroprene tends to slowly absorb water and its electrical properties are poor. Its gas permeability is fairly low and flame resistance is excellent, chloroprene being one of the few rubbers that are self extinguishing. Neoprene gives excellent rubber - metal bonds and good resilience. Certain grades of Neoprene may crystallise and harden during storage although they will thaw on heating. Chloroprene is widely used because of its wide range of useful properties and reasonable price. Typical applications include belting, coated fabrics, cable jackets, seals and gaiters.	EPDM is a type of synthetic rubber consisting of ethylene, propylene and, in small part, diene. It shows excellent properties when in contact with acid, emulsion, polarized mediums and ketones. What distinguishes this material from others is its resistance to atmospheric conditions, ozone and aging, making it ideal for external applications, such as gaskets and profiles. Exposure to grease, oil and fuel is not recommended.	ACM is an acrylic rubber; and AEM is an ethylene acrylic rubber specially designed to withstand high temperatures and additive-enriched oils. AEM is usually applied in conditions when using NBR is no longer adequate, but using fluorine or fluorosilicone would be considered too rash. AEM is most frequently used in the production of seals and gaskets for the car industry, such as axle seals, as well as for production of o-rings, tubes, plugs, etc.	Silicone is an organosiloxane high polymer. It can withstand very high temperatures, while remaining flexible at low temperatures. Silicone also has a high dielectric strength and resistance to oxygen and ozone. It is an incredibly versatile material that can be easily adjusted to various needs, and is available in a wide range of colours. Silicone is most frequently used in food and medical industry, as well as for the production of mechanical sealants in household appliances, tubes for car industry, insulation, and production of spring supports for the electronics industry, contact plates for keyboards in electronic equipment, and various other products.	FMVQ is produced by substituting methyl-silicone with fluorine groups. The fluorine groups make fluorosilicone very resistant to various synthetic oils and fuels, as well as swelling, and the silicone makes it quite flexible. However, the tensile strength of fluorosilicone is lower than the tensile strength of FPM (fluorinated propylene monomer) and VMQ. FMVQ is usually used for production of special seals and gaskets, o-rings, and membranes in chemical and car industry.	FPM (fluorinated propylene monomer) rubbers are based on highly fluorinated carbon-hydrogen polymer. It is designed to withstand high temperatures as well as strongly resist chemical oxidation. FPM retains its characteristics and does not swell when exposed to mineral oil, fuel and aromatic carbohydrates. FPM also has low gas permeability and is highly resistant to ozone and atmospheric conditions.
30 - 90	25 - 90	50 - 90	25 - 85	35 - 80	45 - 85
-40/+100	-50/+150	-40/+150	-60/+280	-50/+200	-30/+230
5 - 16	6 - 14	6 - 15	5 - 10	5 - 10	5 - 10
200 - 500	200 - 650	200 - 400	300 - 600	150 - 400	150 - 300
1-2	1-2	2	3	3-X	2
2	2	3	1	2-3	3
2-3	3	2	2	2	3
1-2	2	1-2	X	X	1-2
1-2	1	1-2	1	1	1
2	3	3	3	3	3
2	3	3	3	3	1
1-2	3-X	X	2-X	1-2	1-2
2	1	3	1	1	2
2	1-2	3	Xw	X	3-X
1-2	1	2	X	2-3	1
2	3-X	1	X	1-2	1
2	3-X	1	X	2	1
X	X	3	X	2-3	1
X	X	X	X	1-2	2
2-3	X	1	2-X	1	1
2	1	1-2	1	1	1

Rating Key

1 = Excellent resistance / 2 = Good resistance

3 = Medium resistance / x = not resistant / There is no experience



TOOL-ROOM

Beside the proper design and mould manufacturing, our extensive experience is of crucial importance for final result – mould.

All of the moulds we are using in the production of rubber, silicone (LSR and HTV) and plastic products are manufactured in our own state of the art tool-room. This practice guarantees high quality of our final products, and creates optimal conditions for the production of new products.

We are constantly implementing and discovering new work methods and technologies with the objective of productive and economic production. Each mould leaving our tool-room incorporates a combination of know-how, experience and creativity.

Our tool-room has CNC milling machines, a CNC erosion machine, a CNC wire erosion machine, a CNC lathe machine as well as a large number of specialized machines. The moulds are designed and produced according to 2D and 3D drawings, or samples, and with the help of modern CAD/CAM programs for CNC machines.

We have the capacity to produce, with great precision, moulds of various shapes, forms, and sizes of up to 1.000 mm x 600 mm. For the production of our own moulds, we use only top of the line components from reliable and reputable suppliers such as HASCO, BÖHLER, FIBRO, MEUSBURGER etc.

By performing digital simulations we are able to keep under control the behavior of fluids during the filling of cavities in phase of moulding. With a software we can foresee the shrink percentage of the piece, radius of curvature, define the undercuts and the best face thickness, as well as anticipate any problems that may occur during production.

The maintenance of the moulds is carried out directly in our plants, to repair the normal wear that occurs during the moulding phase. This allows us to never have any production stops, which are not manageable on site.







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