



SINORA[®]
EXPERT FOR MAXIMUM PROTECTION

Catalogue





Protective cases for safe transportation

SINORA – Expert for maximum protection

In order to accompany you optimally on your way to safe and economical packaging, we go one step further. This means that we offer you custom-made case solutions in close cooperation with our processing partners and packaging experts.

SINORA transport cases are adapted exactly to your industrial equipment with precisely fitted inlays, no matter whether your project requires just one case or a large series. SINORA is by your side as a partner and offers you the best quality for optimum safety and economic efficiency.

**Experience excellent
robustness and profitability**



Passion for plastic technology

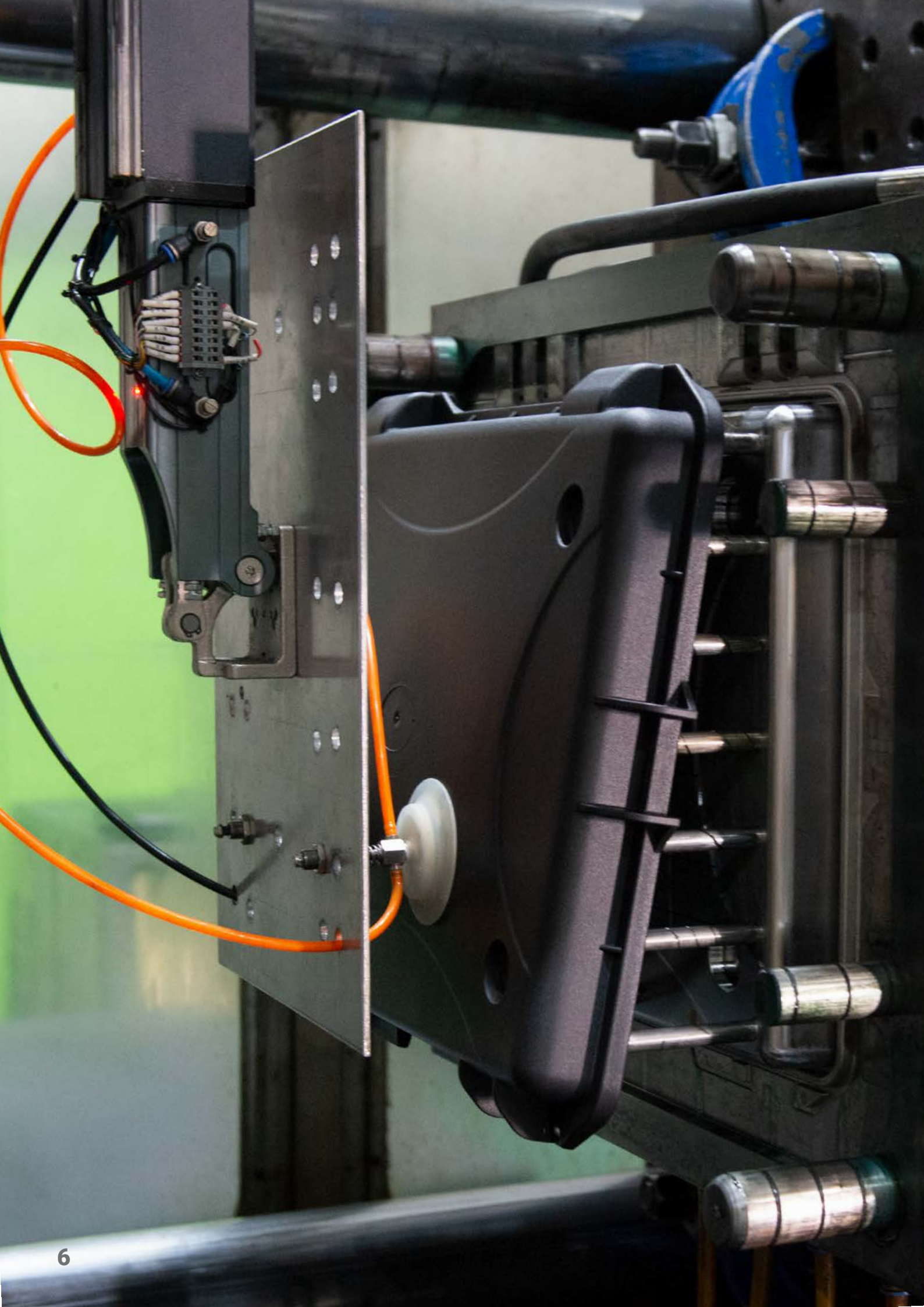
A material with strong properties

The processing of thermoplastics is a fascinating method of manufacturing high-quality plastic products. With many years of experience, a lot of expertise and creativity in plastics technology, we design dimensionally stable protective cases made of robust polypropylene (PP).

The production process begins with carefully selected granulate, which is melted in our modern injection-moulding machines. The low weight of this material allows for the production of robust, but easily transportable cases. Moreover, its versatility facilitates the creation of individual shapes, different colours and custom-made solutions for almost any application. At the same time, the stability and durability of the cases ensure that their contents are optimally and sustainably protected even under difficult environmental conditions. In addition to the technical advantages, the use of plastic enables us to individually meet our customers' requirements.

The surface of the SINORA cases has an outstanding silky-gloss pearl-effect structure. The cases therefore not only look beautiful, but are also easy to clean.

**Benefit from our expertise
in plastics technology**



Manufactured by injection moulding

Precise plastics technology since 1990

SINORA Cases are made from the durable plastic polypropylene (PP) using the injection-moulding process. The precision of the injection-moulded parts produced makes this process particularly popular and offers clear advantages over rotational moulding or deep-drawing processes.

The injection-moulding production process can be summarized in five steps: Plasticising the plastic granulate using heat, injecting it into the mould under high pressure, holding pressure during the cooling process, cooling the injection mould, demoulding of the finished plastic part – a precise process from liquefaction to mould stability.

**See the quality of the
injection-moulding process**



Integrated toolmaking

Customized precision through in-house toolmaking

Our machinery for injection-moulding machines make SINORA cases uniquely flexible. The integration of our own toolmaking enables us to quickly respond to the requirements of individual customers and to manufacture customized, high-precision injection-moulded cases.

Our machine park comprises 12 injection-moulding machines with a clamping force of 80 to 2100 tons. This optimal equipment enables us to produce small to large injection-moulded cases that meet the requirements of a wide range of industries.

SINORA quickly reacts to your individual specifications thanks to our integrated mould construction. Our performance and economic efficiency is reflected in an impressive production capacity of over 20,000 cases per month.

**Describe your requirements to us -
we will be happy to advise you!**



Certified according to environmental tests

Safety thanks to comprehensive certifications

SINORA cases stand for first-class quality and maximum safety. To ensure compliance with strict industry standards, we subject our products to extensive **testing in accordance with ISO standards**. These tests are carried out in a certified environmental laboratory and include heat and cold shock tests to ensure that our cases can withstand extreme temperature fluctuations. In addition, vibration tests simulate transportation on the road and in the air. Thus we ensure that your equipment is optimally protected even under extreme conditions.

The **MIL-STD-810 tests** include a series of strict environmental assessments. For example, the SINORA protective cases successfully pass drop and vibration tests. In these tests, your equipment in the case can also be tested in order to show that it complies with the standard transportation requirements. The residual acceleration is measured directly on your equipment to ensure a precise and reliable assessment.

The **IP67 certification** includes the tightness test. This documents that SINORA cases are resistant to the ingress of dust and water.

Put your trust in SINORA cases – we do too and therefore grant you a lifetime guarantee



LIGHTTAG® mobile laser marking system based on the SINORA trolley case SIN-08154-31BK-E



Customer projects

Successful partnerships, innovative solutions

Almost every project requires customized solutions. We specialize in the serial production of customized OEM cases that are perfectly tailored to your devices and equipped to your specifications. Our services include:

■ 3D CAD models

Our 3D CAD models provide a detailed idea of your customized solution before production begins. We provide you with 3D graphic files in STEP format for every case size.

■ Engineering

With an experienced team of engineers, we go beyond standard solutions to develop innovative and optimized solutions for your individual projects.

■ Certification

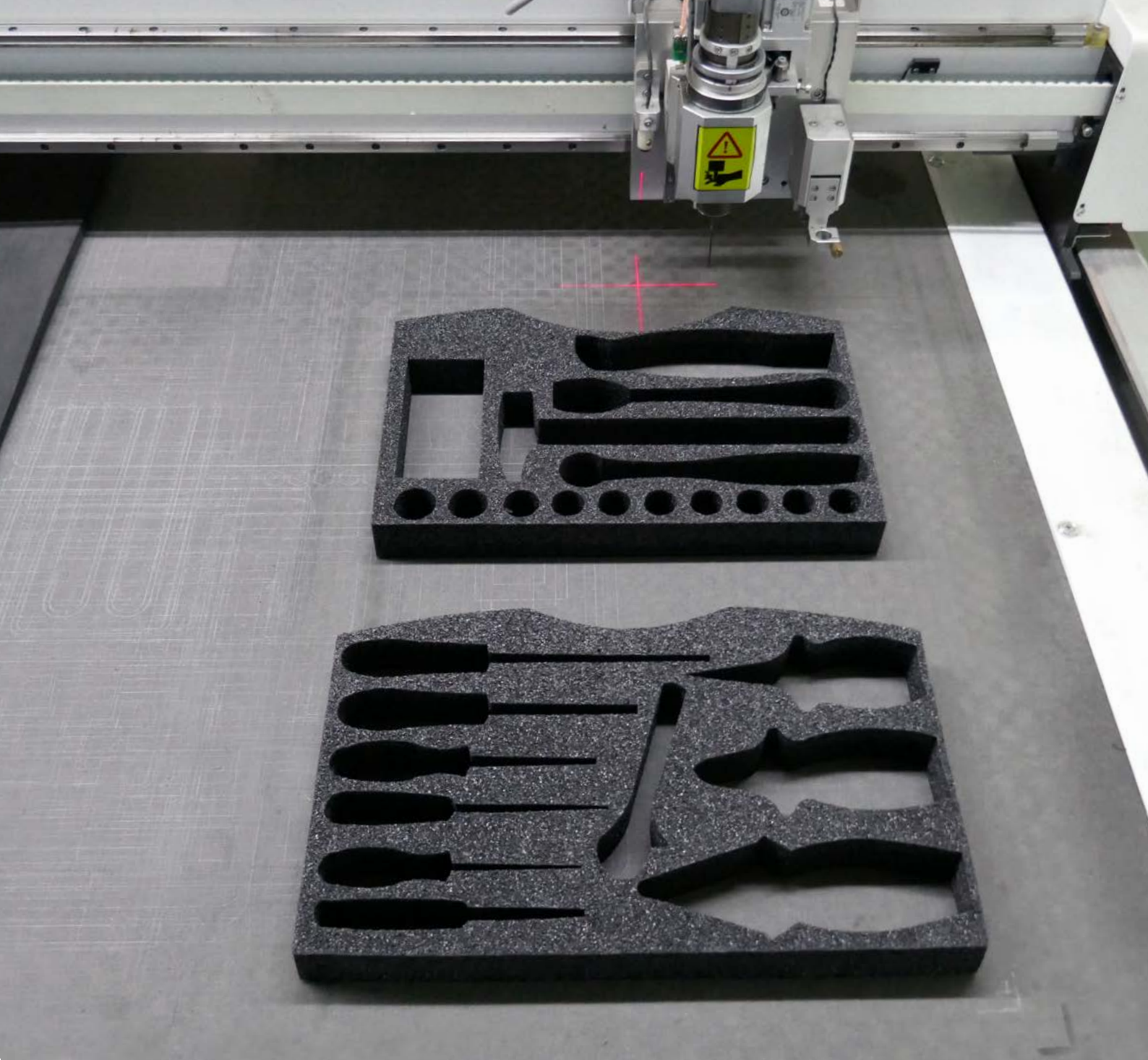
Our products can be tested according to individual certification standards. For example, according to UL (Underwriters Laboratories) for electrical enclosures.

■ Quality management

We focus on quality assurance in the manufacturing process and guarantee products of high reliability and durability.



The cases can be buckled together with a connecting buckle and transported as a set.



Flexible interior

Best possible protection for your equipment

To ensure that our cases fit your equipment perfectly, we offer different options for customizing them to your requirements. This gives you the opportunity to adapt our cases to your creative ideas.

CNC foam inserts

CNC foam inserts are customized for you by our sales partners. They are customized precisely to your devices and tools so that your equipment is optimally protected in the case and the case itself offers optimum handling during operation.

Depending on the quantity and requirements, the inserts are manufactured using different processes in order to achieve the best and most economical solution. Contact us for your individual case customization.

Velcro divider system

Inserts with Velcro dividers are variable and are known as the classic subdivision for photographic equipment. They offer the option of dividing the interior according to your requirements and you can adapt the compartment sizes to any changes in your equipment. The core of the divider pads is made of a rigid foam core which is covered with fleece and has Velcro on the front. The Velcro hooks onto the fleece and gives the dividers a secure fit.

The cases with the divider set have a „D“ at the end of the article number.

Cubed-foam inserts

Cubed-foam inserts have pre-cut cubes in a grid. So you can easily cut the shape of your devices into the insert with a cutter knife. The cubed-foam insert consists of several layers depending on the height of the transport case. The bottom layer has no pre-cuts. To protect the top of your equipment, there is an eggbox foam insert in the lid. The cubed-foam sets for the transport cases are made of a soft foam.

You identify the cubed-foam models by a „C“ at the end of the article number.



SMART FRAMES
ADVANCED DIAGNOSTICS

ADVANCED™
DIAGNOSTICS

SMART Pro

Personalized cases

Screen printing

Screen printing is a proven method for the clear and permanent marking of our products. This technique enables precise printing of logos, texts or multicolour designs on the surfaces of our cases.



Laser marking

Laser marking on SINORA cases offers permanent and resistant marking. This technology not only enables clear identification, but also personalized adaptations such as serial numbers.



Case and handle colours

The individual design of case and handle colours gives you the freedom to design your protective cases according to your personal preferences. This gives companies the opportunity to present their corporate identity down to the smallest detail. For larger quantities you may choose between special case colours in addition to the classic black. With regard to the handles, the following colours are available in addition to the classic grey: red, orange, yellow, green, blue and black.



Accessories

Supplement your SINORA plastic cases with our extensive range of accessories to further optimize usability, safety and user-friendliness. Useful accessory ideas include, for example, lockable latches that guarantee additional security for your equipment during transportation or against unauthorized access. Customizable interior padding, individual inscription labels, document compartments or mounting frames are available on request.



Standard models

A varied range for every application

The SINORA range offers a wide variety of cases, from small cases for individual items of equipment to very large transport cases. All SINORA plastic cases have a surface with a fine pearl-effect structure. Their ergonomically shaped handles are additionally coated with soft rubber. This so-called soft grip ensures safe and comfortable carrying at all times. The closure can be opened easily and intuitively with one hand.



Slim Models

The Slim series is the minimalist version of the Classic series. Smaller handles and fasteners as well as the absence of the pressure equalization valve make these cases light and easy to handle.

Classic Models

The Classic series is characterized by a robust design with an attractive surface. The cases have stacking recesses and a pressure equalization valve. All larger plastic cases are usually equipped with a trolley. This means that they have two integrated castors and an extendable trolley handle to pull the cases along.





Cross-Rib Models

The Cross-Rib models have an advanced cross-rib design to stiffen the surfaces on the lid and bottom. As a result, they are lightweight and stable. Moreover, the grid design ensures that large cases of the same size can be stacked on top of each other without slipping.

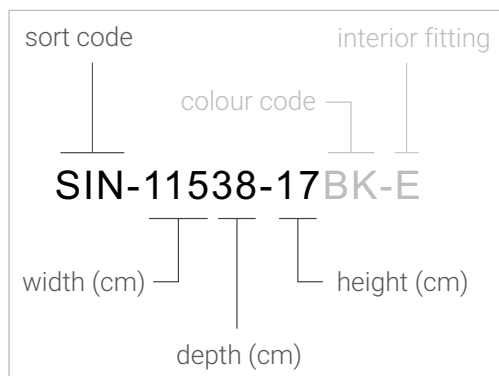
Cross-Rib Xtra Models

Extra strong design for very large injection-moulded cases. Reinforcing ribs with a large radius at the corners provide excellent rigidity. The ribs are moulded inwardly in order to protect the locks and handles.



Item overview

SINORA Item Number



Interior

E = Empty
C = Cubed foam insert
D = Divider Set

Colour code

BK = black
OR = orange
OV = olive

Models and sizes

Item No.	Dimensions exterior (mm) wxhxd	Dimensions interior (mm) wxhxd	Inside height (mm) Bottom/Lid	Weight (kg)	Design	Trolley	Empty E	Cubed foam C	Divider set D
SIN-02920-10	295x103x205	275x85x164	58/27	0,63	classic		X		
SIN-03423-11	342x115x233	330x98x197	60/38	0,83	slim		X	X	
SIN-03627-19	360x193x270	330x175x210	130/45	1,5	classic		X		
SIN-03630-16	360x160x300	330x140x240	95/45	1,5	classic		X		
SIN-03630-19	360x193x300	330x175x240	130/45	1,6	classic		X		
SIN-04213-08	420x86x130	408x69x94	42/27	0,60	slim		X	X	
SIN-04233-15	420x155x330	388x136x268	90/46	1,9	classic		X	X	X
SIN-04233-17	420x175x330	388x156x268	110/46	2,0	classic		X	X	
SIN-04233-22	420x225x330	388x206x268	160/46	2,2	classic		X	X	
SIN-04233-27	420x275x330	388x256x268	210/46	2,4	classic		X	X	
SIN-04434-20	440x200x340	410x190x280	53+55/50	3,3	drawer		X		
SIN-04640-16	465x160x400	430x150x340	100/50	2,3	classic		X	X	
SIN-04640-19	465x190x400	430x180x340	130/50	2,6	classic		X	X	
SIN-04640-24	465x240x400	430x230x340	180/50	2,8	classic		X	X	
SIN-04640-29	465x290x400	430x280x340	230/50	2,9	classic		X	X	
SIN-04836-20	475x200x355	442x180x292	135/45	2,3	classic		X		
SIN-05542-16	550x170x420	490x150x360	110/40	2,9	classic		X		
SIN-05542-20	550x210x420	490x190x360	150/40	3,5	classic		X	X	X

Models and sizes

Item No.	Dimensions exterior (mm) wxhxd	Dimensions interior (mm) wxhxd	Inside height (mm) Bottom/Lid	Weight (kg)	Design	Trolley	Empty E	Cubed foam C	Divider set D
SIN-05542-24	550x250x420	490x215x360	175/40	5,3	classic	Trolley	X	X	X
<i>new</i> SIN-05542-32	550x320x420	490x290x360	250/40	4,0	classic		X		
SIN-05834-19	580x190x345	520x180x288	135/45	2,9	classic		X	X	
SIN-05834-23	580x230x345	520x200x288	155/45	4,8	classic	Trolley	X	X	X
SIN-06033-19	605x190x330	585x170x275	105/65	2,5	classic		X	X	
SIN-06252-36	615x350x520	550x300x450	250/50	8,8	cross-rib	Trolley	X	X	
SIN-06465-38	635x375x650	565x316x585	268/48	10,9	xtra	Trolley	X		
SIN-07146-28	710x280x460	650x230x400	195/35	7,2	classic	Trolley	X	X	X
SIN-07146-33	710x335x460	650x285x400	250/35	7,9	classic	Trolley	X	X	X
SIN-07258-35	720x350x585	650x320x520	270/50	8,5	xtra		X		
SIN-07258-53	720x535x585	650x510x520	460/50	9,2	xtra		X		
SIN-07475-48	740x480x745	660x420x681	340/90	13,0	xtra	Trolley	X		
SIN-08154-31	810x310x540	745x265x475	230/35	8,8	classic	Trolley	X	X	X
SIN-08154-40	810x400x540	745x355x475	320/35	10,3	classic	Trolley	X		
SIN-09483-33	940x335x830	850x300x760	240/60	13,5	xtra	Trolley	X		
SIN-11538-17	1150x170x380	1080x150x320	95/50	7,6	cross-rib	Trolley	X	X	
SIN-11538-22	1150x230x380	1080x200x320	150/50	8,8	cross-rib	Trolley	X	X	
SIN-11751-20	1170x205x515	1110x180x450	130/50	8,9	cross-rib	Trolley	X	X	
SIN-14251-20	1425x205x515	1350x180x440	130/50	12,1	xtra	Trolley	X		
<i>new</i> SIN-16151-22	1610x225x515	1540x195x450	135/60	13,5	xtra	Trolley	X		

Accessories

Item No.	Description	Scope of delivery
SIN-LK8160L-KA	Cylinder locks, keyed alike	2x lock / 3x key
SIN-LK8160L-KD	Cylinder locks, keyed differently	2x lock / 3x key
SIN-05542-STL	Connecting fastener	2 pcs (1 pair)
SIN-SP-FRA-01	Mounting frame for SIN-05542-XX	1 pcs



19-inch racks

Injection-moulded 19-inch racks made of impact-resistant plastic

SINORA Racks are particularly robust and lightweight thanks to their innovative X design. The surface has a pearl effect structure. The first injection-moulded rack of its kind offers you transportation safety and good handling for your 19-inch equipment. All racks are supplied with M6 cage nuts.

- Robust Latches
- Robust carrying handle
- High-precision fit
- All-round sealing profile in the lid
- Impact-resistant PP plastic
- Steel rack rail at the front and rear



Short racks for short devices

Discover the latest development in our rack range – the 19-inch short racks from SINORA. In contrast to our conventional 19-inch plastic racks with a rack depth of 458 mm, we present a short rack with a rack depth of 276 mm (front rack rail to rear rack rail).



Trolley rack

The SINORA trolley racks open up a new dimension of safety and convenience when transporting your valuable equipment. The extendable trolley handle allows you to easily convert the stackable racks into a handy trolley with ease. In addition, our trolley racks have an all-round rubber seal to ensure that your valuable equipment is protected from water and dust.





Accessories for 19-inch racks

Supplement your SINORA racks with accessories:

■ Mesh pockets

Secure the mesh-pocket insert in the lid for additional storage options.



■ Wireless microphone insert

Space-saving and secure storage option for up to four hand-held transmitters in the lid. The wireless microphones are secured with Velcro straps.



■ Roller board with blue wheels

Effortless mobility – The roller board is equipped with four Blue Wheels, including thread guards. The wheels have a diameter of 100 mm, two of them have brakes. The four stacking recesses provide a secure hold for the X-Design racks. The load capacity is 450 kg.



Overview of 19-inch rack sizes

Item No.	Height units (U)	Dimensions exterior (mm) wxhxd	Distance between the rack rails (mm)	Distance rack rail to lid (mm)	Weight (kg)	Design
<i>new</i> SIN-RIM-S02U28	2	580x170x435	276	60 + 60	6,5	Short
<i>new</i> SIN-RIM-S03U28	3	580x215x435	276	60 + 60	6,9	Short
<i>new</i> SIN-RIM-S04U28	4	580x260x435	276	60 + 60	7,6	Short
<i>new</i> SIN-RIM-S06U28	6	580x350x435	276	60 + 60	9,5	Short
SIN-RIM-02U46	2	580x170x615	458	60 + 60	7,6	X-Design
SIN-RIM-03U46	3	580x215x615	458	60 + 60	7,8	X-Design
SIN-RIM-04U46	4	580x260x615	458	60 + 60	8,2	X-Design
SIN-RIM-06U46	6	580x350x615	458	60 + 60	11,8	X-Design
SIN-RIM-08U46	8	580x435x615	458	60 + 60	13,3	X-Design
SIN-RIM-10U46	10	580x530x615	458	60 + 60	14,8	X-Design
SIN-RIM-12U46	12	580x620x615	458	60 + 60	16,8	X-Design
SIN-RIM-W04U46	4	585x260x615	458	60 + 60	10,7	Trolley
SIN-RIM-W06U46	6	585x350x615	458	60 + 60	12,8	Trolley
SIN-RIM-W08U46	8	585x435x615	458	60 + 60	14,9	Trolley

Accessories for 19-inch racks

Item No.	Description	for rack design	Dimensions (mm)	Weight (kg)
SIN-RIM-RB460	Roller board with 100mm rollers	X-Design	570x180x550	9,0
<i>new</i> SIN-RIM-MES-02U	Mesh pocket for 2U	all racks	490x55x90	0,12
<i>new</i> SIN-RIM-MES-03U	Mesh pocket for 3U	all racks	490x55x145	0,17
<i>new</i> SIN-RIM-MES-04U	Mesh pocket for 4U	all racks	490x55x190	0,20
<i>new</i> SIM-RIM-MIC-02U	Wireless microphone insert for 2U	all racks	490x55x90	0,12
<i>new</i> SIM-RIM-MIC-03U	Wireless microphone insert for 3U	all racks	490x55x145	0,16
<i>new</i> SIM-RIM-MIC-04U	Wireless microphone insert for 4U	all racks	490x55x190	0,28



Your benefits at a glance

Availability



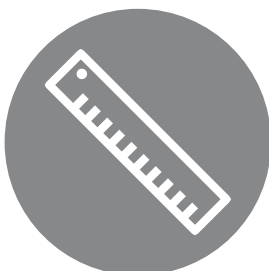
- European central warehouse
- Access to stocks
- Direct drop shipping

Quality



- IP67 and MIL-STD-810 certification
- Lifetime warranty
- Pearl-effect surface
- Quality assurance

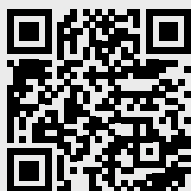
Flexibility



- In-house toolmaking
- Exclusive partnerships
for consulting and production of case inlays
- Production with a capacity
of more than 20,000 cases per month

SCAN & STAY UPDATED

Discover the latest
version of the catalogue



SINORA EUROPE

Solidplex GmbH
Laurentiusstr. 39
63897 Miltenberg
Germany

Tel. +49 9371 66 929 41
Fax +49 9371 66 929 46
E-Mail mail.eu@sinora-cases.com

sinora-cases.com

DISTRIBUTOR