WWW.COATED-PRODUCTS.COM

COATED CORRUGATED BOARD

For Undreamt-Of Advantages

HANS KOLB
COATED PRODUCTS

better packaging...

SINCE 1933

*... with the **KOLB** Group and **KOLB** CoatedProducts.*
It's a claim that is also a promise. A promise that we'll provide an impressive variety of packaging solutions which are new every day.

*It was back in 1933 that Hans Kolb first founded what has now become one of the most successful family-owned companies in the corrugated-board business. Corrugated board forms the basis of the packaging solutions from **KOLB**. Simply explained we are architects for your products „home". Your customized packaging solution will be created by our teams of **KOLB Design** and **KNAUER Design**, the R&D division of **KOLB** and **KNAUER**.*

The convincing criteria for reaching your packaging goals is a modern production environment and, above all, the know-how of more than 1.200 committed employees.

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CORRUST **SKIN**BOARD®

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VISION

"We supply corrugated cardboard packaging solutions that inspire our customers with their quality, innovation, and sustainability."

Alwin J. Kolb, Angela Kolb and Andreas Eyd

Our passion is both developing and producing corrugated board packaging solutions. Our claim „besser verpacken!“ is more than just saying KOLB packaging solutions are better. Instead KOLB offers a wide range of developing and logistical service. As a family-owned company based in one of the most beautiful parts of Southern Germany, the Allgaeu, we have been grown together with our customers over the past eight decades.

The Company

The foundation for our success was laid back in 1933. Since then, the KOLB Group has gradually developed into an internationally active company. We design and produce packaging, packaging materials and specialised products made of corrugated cardboard. We see it as our task to respond quickly and flexibly to the ever-changing challenges of the market.

Packaging must meet a wide variety of requirements. The teams in the **KOLB Design** and **KNAUER Design** development departments always take a tailor-made approach. True to the motto ‘better packaging!’, our designers with many years of experience develop individual solutions.

We offer the latest technologies in packaging printing and thus also unprecedented flexibility for your requirements.

As a manufacturer of environmentally friendly, recyclable products, all members of the KOLB Group are committed to a tradition of sustainability:

The careful use of raw materials and the use of environmentally friendly, partly self-generated energy for modern production processes have always been part of the company‘s procedures.

The certified KOLB energy management system is only one part of KOLB‘s sustainability strategy. Our environmental and quality management systems further reinforce this commitment.

Sustainability Through Tradition

LONG BEFORE THE TOPIC OF SUSTAINABILITY WAS DISCUSSED IN DAILY MATTERS, IT WAS EXACTLY THIS COURSE OF ACTION WHICH WAS ROOTED IN OUR COMPANY DNA.

Among other things, we justify this with FSC-certified products that we manufacture at all KOLB and KNAUER sites. Also HANS KOLB Papier, the paper mill of the KOLB Group, also follows this self-image which has been by independent institutes.

Furthermore, we have always had a closed raw material cycle, especially in our own base paper production. After all, edge trimmings and die-cutting waste are directly recycled back into high-quality recycling liner and fluting, for which we also take the waste paper from regional suppliers.

But that's not all: our corporate culture with flat hierarchies and extremely short decision-making paths is also constantly moving us forward - without, however, disregarding what we have achieved and the experience that goes with it. The above-average length of service of our employees is impressive proof of this.

We are also aware of our social responsibility. As a sponsor of the Kinderbrücke Allgäu e. V., we have supported this regional organisation since its inception over 20 years ago. The board of trustees, which includes shareholders of our company, makes the decisions to help sick children and children in need. This is done unbureaucratically, with the necessary common sense or simply with the heart in the right place.

The majority of our production and administration sites are located in the Allgäu region. But where agriculture used to be the outstanding economic mainstay, today a balanced and at the same time specialised industry structure characterises the business location Allgäu. This also applies to the locations in Haiterbach and Dettingen / Erms.

Today we are proud of many long-standing business business relationships, which justify joint growth with our growth with our customers. We will continue to pursue this development pursue this development. After all, that is precisely what we mean by sustainability.

COR*pro*TRONIC®

When there is a spark...

ESD Packaging-Systems

COR*pro*TRONIC®

IEC and EN Standards

Requirements according to DIN EN and IEC- The working aids and regulations for handling electronically sensitive components (ESC) are specified in the DIN EN / IEC 61340-5-3 guidelines.

The following applies: Only a very low-resistance, conductive protective layer meets the shielding requirements. Our latest product, **COR***pro*TRONIC®, protects against electric fields and ESD during transport and shipping.

Electrostatic Discharge ESD

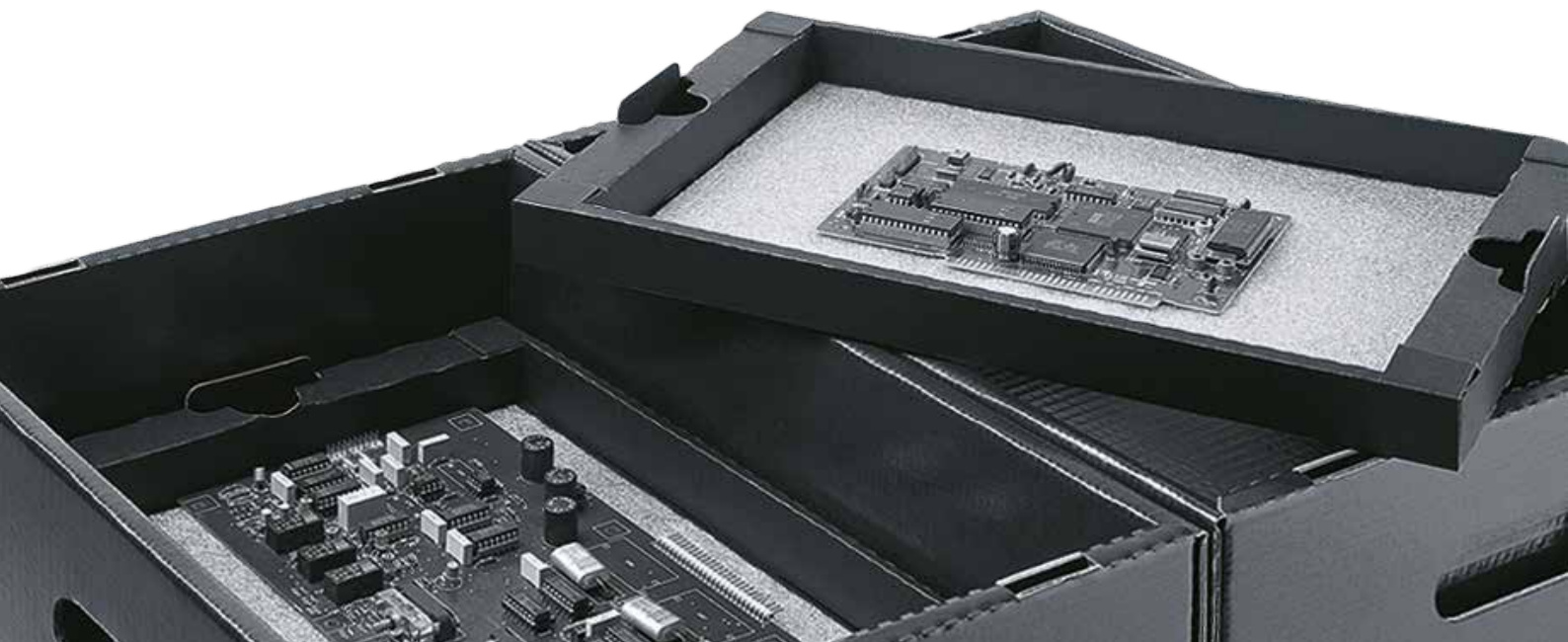
Voltage fields occur everywhere and all the time. The potential differences between these voltage fields pose a risk to your electronic components and assemblies. Protect your high-quality electronics from ESD hazards.

Electrostatic Protected Area

All containers and work equipment in the ESD protection zone (EPA) must be equipped with conductive properties to enable controlled potential equalization or grounding.

The Solution

Only the avoidance of large potential differences and the use of shielding layers prevent ESD hazards. Safe and controlled potential equalization: The use of **COR***pro*TRONIC® with a surface resistance of 10^7 to 10^8 ohms ensures safe potential equalization.

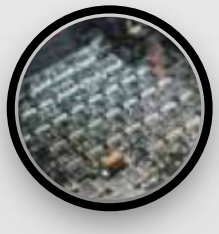


Permanent conductive – no time limit

CORproTRONIC® for safe use inside and outside of the EPA

CORproTRONIC® ≈ 10^{7-9} diverting layer Ohm
< 10^{4} shielding layer Ohm

Shielding



Outside
EPA

Inside
EPA

Static – Dissipative

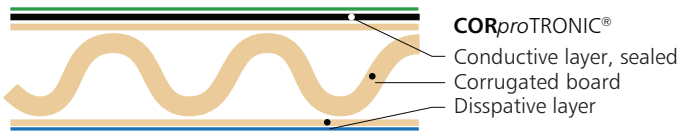
E < 50 nJ

Conductive / Dissipative
controlled potential equalization

Applications

CP–COATED PRODUCTS protect your electronic components. The ESD containers offer special protective coatings that equalize electrostatic voltages and shield fields.

CORproTRONIC® thus offers the entire range of products needed to protect your electronics from ESD hazards, both now and in the future when new standards come into force. For your safety during packaging, transport, storage, and shipping.



CORproTRONIC®

Technical Facts	CORproTRONIC®
Electrical	
Surface resistance (Ohm)*	
- Outside	$<10^4$
- Flute	
- Inside	10^{7-9}
Controlled potential equalization	yes
Tribocharging	keine
Surface colours	Outside: Black Inside: Blue
Energy Bag Test ANSI / ESD STM 11-31 IEC 61340-4-8**	< 10 nJ
Chemical	
Corrosion	none
Galvanic potential	none
Recyclability	Resy 0062 / PAP20
Mechanical	
Resistance to abrasion (varnished surface)	yes
Printability	limited
Moisture	no limitation of the electrical features
Specifications	
Equivalent of	ANSI/ESD S541 DIN EN 61340-5-3
No subject to RoHS-guidelines (2002/95/EG and 2002/96/EG)	
Weight example	
L 600 B 400 H 120 mm	0,58 kg

* Low-resistance SAW is measured with the strip electrode, high-resistance SAW is measured with the ring electrode.

** Reference: Test specimen size 250 x 200 x 13 mm, E-flute

The Environment

Reliable quality with a long service life:
All ESD containers are specially designed for multiple use. The shielding and dissipative function remains fully intact. The environmentally friendly ESD containers are fully recyclable.

CORproTRONIC®

User information for
CORproTRONIC®/ DISSIPATIVE

Logistical requirements

Location and transport
Requirement due to
IEC 61340-5-3

Type of coating

Procurement

Product / Component

Transport Packaging

Inside an EPA & ESD-Area
(EPA = Electrostatic Protected Area,
ESD = Electrostatic Discharge)

» **conductive**
1×10^2 Ohm $\leq R_S < 1 \times 10^4$ Ohm
or
» **dissipative**
1×10^4 Ohm $\leq R_S < 1 \times 10^{11}$ Ohm

CORproTRONIC® (< 10^4 Ohm incl. shielding)
DISSIPATIVE (10^7 – 10^{11} Ohm)

Transport Packaging

Outside an EPA / unmonitored areas
(regular properties)

» **conductive**
1×10^2 Ohm $\leq R_S < 1 \times 10^4$ Ohm
or
» **dissipative**
1×10^4 Ohm $\leq R_S < 1 \times 10^{11}$ Ohm
and
» **protection against discharge**
< 10 nJ

CORproTRONIC® (< 10^4 Ohm incl. shielding)

Ready-to-use packaging and containers out of our stock program (see following pages)
Your advantage: quick delivery, no tool-costs, small quantities possible

Individual Solutions »

Please contact your dealer / sales consultant (see last page)
We are able to produce customized solutions regarding your wishes: size, quantities, print etc.

CORproTRONIC®

Containers For Shipment

Standard color: Blue

PCB Transit Boxes with printed warning

COR*pro*TRONIC® Assembled boxes lined with conductive profiled soft foam and conductive pin-insertion foam

Ref	Item-No.	Inner dimensions, mm		
01-TVS	10109361-0001	40	40	15
02-TVS	10109362-0001	60	60	24

COR*pro*TRONIC® Flat packed boxes, empty

Ref	Item-No.	Inner dimensions, mm		
05-TVS	10105775-0001	100	55	25
06-TVS	10139319-0001	120	80	30
10-TVS	10105776-0001	183	127	38
15-TVS	10105777-0001	178	127	64
20-TVS	10105452-0001	190	135	40
30-TVS	10105778-0001	250	191	38
40-TVS	10105779-0001	250	191	64
45-TVS	10105780-0001	250	191	110
50-TVS	10105781-0001	267	216	64
55-TVS	10105782-0001	300	300	100
57-TVS	10105783-0001	380	280	60
58-TVS	10105784-0001	380	250	120
60-TVS	10105785-0001	420	220	40
65-TVS	10105787-0001	420	220	65
67-TVS	10139309-0001	420	220	100
70-TVS	10105788-0001	480	360	64

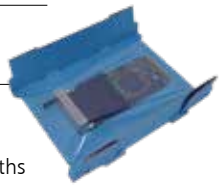
Inserts for PCB Transit Boxes

Profiled Foam Pink
Height 20 mm, dissipative pink,
dissipative function lasts at least 6 months

Ref	Item-No.
05-NS-AS	12000062
06-NS-AS	12003482
10-15-NS-AS	12000064
20-NS-AS	12000066
30-45-NS-AS	12000068
50-NS-AS	12000070
55-NS-AS	12000072
57-NS-AS	12000076
58-NS-AS	12000078
60-65-NS-AS	12000080
70-NS-AS	12000082

Profiled Foam Black
Height 20 mm, (05-NS-EL & 06-NS-EL: 10 mm)
conductive, conductive function: At least 5 years

Ref	Item-No.
05-NS-EL	12000063
06-NS-EL	12003483
10-15-NS-EL	12000065
20-NS-EL	12000067
30-45-NS-EL	12000069
50-NS-EL	12000071
55-NS-EL	12000073
57-NS-EL	12000077
58-NS-EL	12000079
60-65-NS-EL	12000081
70-NS-EL	12000083



Flatpac
dissipative, incl. fixation film,
dissipative function of foil: At least 6 months

Ref	Item-No.
10-DFP	12000120
15-DFP	12000119
20-DFP	12000121
30-DFP	12000122
40-DFP	12000123
45-DFP	12000124
50-DFP	12000125
55-DFP	12000126
57-DFP	12000129

Flatpac Quick

mit printed warning
COR*pro*TRONIC® Transit box
incl. fixation film*

Ref	Item-No.	Inner dimensions, mm		
20-KC	12000130	125	107	25
30-KC	12000131	160	127	34
40-KC	12000132	235	175	45
50-KC	12000133	282	228	70

* Dissipative function of the film: At least 6 months

Foampac

with printed warning
COR*pro*TRONIC® Transit box with dissipative profiled foam* (AS / 20 mm) or conductive profiled foam* (EL / 20 mm), also available without foam (OS)

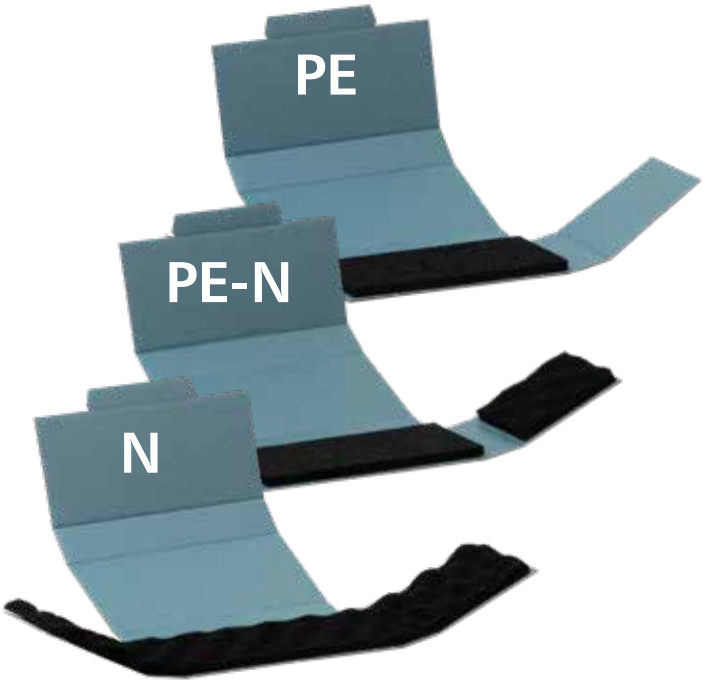
Ref	Item-No.	Inner dimensions, mm		
05-TCP-OS	10107399-0001	150	115	40
05-TCP-AS	10109727-0001			
05-TCP-EL	10109728-0001			
10-TCP-OS	10105453-0001	200	140	50
10-TCP-AS	10109729-0001			
10-TCP-EL	10109730-0001			
20-TCP-OS	10107400-0001	280	140	100
20-TCP-AS	10109731-0001			
20-TCP-EL	10109732-0001			

* Dissipative function of pink profiled foam: At least 6 months

Foampac E-Prom

with printed warning
COR*pro*TRONIC® Transit box
with conductive foam*:
PE - PE-foam (6 mm)
PE-N - PE-foam (6 mm) + profiled foam (10 mm)
N - Profiled foam (10 mm) fully covered
also without foam available (OS)

Ref	Item-No.	Inner dimensions, mm		
05-TEP-OS	10107401-0001	95	30	15
05-TEP-PE	10110680-0001			
05-TEP-PE+N	10110681-0001			
05-TEP-N	10110682-0001			
10-TEP-OS	10107402-0001	100	60	15
10-TEP-PE	10110683-0001			
10-TEP-PE+N	10110684-0001			
10-TEP-N	10110685-0001			
15-TEP-OS	10107403-0001	100	60	30
15-TEP-PE	10110686-0001			
15-TEP-PE+N	10110687-0001			
15-TEP-N	10110688-0001			
20-TEP-OS	10105454-0001	120	100	15
20-TEP-PE	10110689-0001			
20-TEP-PE+N	10110690-0001			
20-TEP-N	10110691-0001			
30-TEP-OS	10107404-0001	155	70	25
30-TEP-PE	10110692-0001			
30-TEP-PE+N	10110693-0001			
30-TEP-N	10110694-0001			



* conductive function: At least 5 years

Dissipative

Container For Production And Storage

Outside of container is treated with water-/scratch-resistant coating

Standard color: Black

Reel Box and CORTEC

Outside of container is treated with water-/scratch-resistant coating

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm			Reels Ø mm
10-CRB	10004713	380	176	100	398	193	104	180, max. 16 Reel
30-CRB	10005113	355	286	220	373	306	224	380, max. 5 Reel

IC Bar Magazine

for IC bars, stackable, 5 slots

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-ICM-B+E	10004336-0001	336	586	35	399	599	39

Storage Box, open and CORTEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-CLBO	10002644-0001	285	150	110	305	159	115
15-CLBO	10002879-0001	292	109	122	313	116	127
20-CLBO	10002657-0001	580	65	65	600	73	66
30-CLBO	10002648-0001	592	109	122	611	117	127
40-CLBO	10002649-0001	592	153	70	611	161	75
45-CLBO	10002659-0001	590	200	180	609	209	185
50-CLBO	10002645-0001	615	100	130	634	108	135

Accessories For Production, Storage And Shipment

Dividing Sheets

for 48 / 50-TSC, CSC, MB and TAB
dissipative, black
with 2 bevelled corners

Ref	Item-No.	Dimensions, mm	
05-DZW	10002650-0001	357	246
10-DZW	10002656-0001	550	350

Adhesive Tape Black

needed for 30, 40, 45, 50-TSC and TAB

Ref	Item-No.	Length, m	Width, mm
10-KB	12000139	66	50

Label Holder

dissipative, adhesive, transparent,
further sizes upon request

Ref	Item-No.	Dimensions, mm	
05-LT	12000134	140	100
10-LT	12000135	215	105

CORproTRONIC®

Container For Production, Storage And Shipment

In-plant handler CORproTRONIC®

with printed warnung, black

The removal of length dividers offers the possibility to vary the compartment size:
Dividers dissipative, for 30, 40, 45 and 50-TSC adhesive tape is needed (sold separately)

Ref	Item-No.	Inner dimensions* L	B	H	No. of comp.	Comp size* L	B	H	No. of short div.	No. of long div.	Outer dimensions incl. lid* L	B	H
10-TSC	10166463-0001	270	169	195	12	130	24	195	1	5	297	181	204
10-TSCD	10166464-0001	287	177	50	6	265	24	195		5			
10-DSC-K	10002788-0001	392	169	(short divider)									
10-DSC-L	10002794-0001	392	276	(long divider)									
15-TSC	10166465-0001	372	388	84	60	109	18	84	19	4	400	400	100
15-TSCD	10166466-0001	390	396	35	40	165	18	84	19	3			
15-DSC-K	10002795-0001	84	372	(short divider)									
15-DSC-L	10002797-0001	84	388	(long divider)									
20-TSC	10166467-0001	386	386	176	30	110	30	175	4	9	415	405	190
20-30-TSCD	10166468-0001	401	401	60	20	168	30	175	3	9			
					10	340	30	175	2	9			
20-DSC-K	10002786-0001	358	383	(short divider)									
20-DSC-L	10002800-0001	266	385	(long divider)									
40-TSC	10166469-0001	424	272	281	22	178	18	280	3	10	450	290	290
40-TSCD	10166470-0001	438	286	60	11	365	18	280	2	10			
40-DSC-K	10002802-0001	280	269	(short divider)									
40-DSC-L	10002792-0001	523	421	(long divider)									
45-TSC	10166471-0001	493	390	166	20	178	45	166	9	3	510	410	175
45-TSCD	10166472-0001	505	406	50	10	360	45	166	9	2			
45-DSC-K	10002780-0001	333	390	(short divider)									
45-DSC-L	10002785-0001	333	493	(long divider)									
48-TSC	10166473-0001	562	355	150	44	123	24	150	5	10	595	380	160
48-50-TSCD	10166474-0001	580	375	60	33	165	24	150	4	10			
					22	250	24	150	3	10			
					11	515	24	150	2	10			
48-DSC-K	10002778-0001	150	352	(short divider)									
48-DSC-L	10002799-0001	150	560	(long divider)									
50-TSC	10166475-0001	562	355	329	44	123	24	325	5	10	595	380	335
48-50-TSCD	10166474-0001	580	375	60	33	165	24	325	4	10			
					22	250	24	325	3	10			
					11	515	24	325	2	10			
50-DSC-K	10002793-0001	660	352	(short divider)									
50-DSC-L	10002787-0001	508	560	(long divider)									

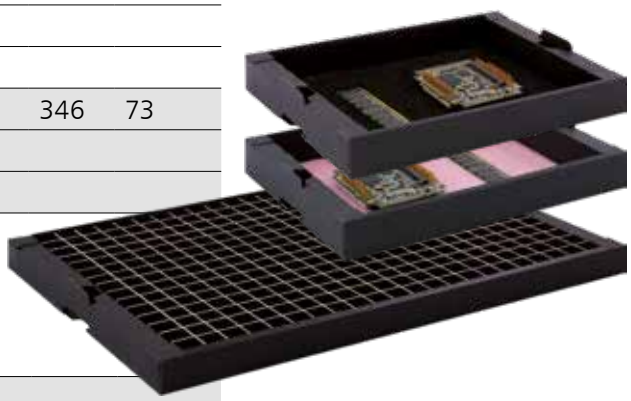
* Dimensions and sizes in mm

Dissipative

Tray

Tray stackable, either with or without foam
OS = **without foam** oder AS = **dissipative** oder EL = **conductive**

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
05-CTR-OS	10003753-0001	297	230	28	351	246	31
05-CTR-AS	10003251-0001						
05-CTR-EL	10003253-0001						
20-CTR-OS	10002779-0001	499	330	28	550	346	31
20-CTR-AS	10003266-0001						
20-CTR-EL	10003267-0001						
25-CTR-OS	10002155-0001	499	330	40	550	346	43
25-CTR-AS	10002184-0001						
25-CTR-EL	10002185-0001						
30-CTR-OS	10002774-0001	499	330	70	550	346	73
30-CTR-AS	10003269-0001						
30-CTR-EL	10003270-0001						



EE-Tray with CORTEC
assembled with stacking plastic reinforcement

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
20-CTR-EE-OS	10003271-0001	496	327	28	550	354	35
20-CTR-EE-AS	10003272-0001						
20-CTR-EE-EL	10003273-0001						
25-CTR-EE-OS	10003516-0001	496	327	40	550	354	45
25-CTR-EE-AS	10003518-0001						
25-CTR-EE-EL	10003523-0001						
30-CTR-EE-OS	10003274-0001	496	327	70	550	354	75
30-CTR-EE-AS	10003276-0001						
30-CTR-EE-EL	10003280-0001						

CTR Partition Inserts (solid board)

Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of dividers max.	Cell dimension min. mm	No. of cells max.
20-CTR-K	12000055	328	28	14	20	21	20 x 20 x 28	330
20-CTR-L	12000056	497	28	21	20	14		
25-CTR-K	12002601	328	40	14	20	21	20 x 20 x 40	330
25-CTR-L	12002602	497	40	21	20	14		

CORTRONIC®

Container For Production, Storage And Shipment

Outside of container is treated with water-/scratch-resistant coating

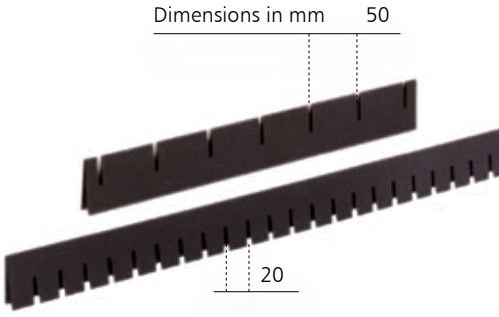
Color: Black

Multibox
CORTRONIC® and **COR**TEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-MB	10003014-0001	565	365	109	591	391	114
20-MB	10002932-0001	565	365	209	591	391	214

Multibox Lid
CORTRONIC® and **COR**TEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-20-MBD	10002868-0001	593	393	50	603	397	53



Multibox Partition Inserts
for 10-20-MB, dissipative

Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of dividers max.	Cell dimensions min. mm	No. of cells max.
10-MB-K	10002783-0001	352	100	7	50	22	50 x 20 x 100	138
10-MB-L	10002782-0001	552	100	22	20	7		
20-MB-K	10002798-0001	352	200	7	50	22	50 x 20 x 200	138
20-MB-L	10002781-0001	552	200	22	20	7		
For individual compartment layout, dividers are sold separately.								

Customer-Store-Container
CORTRONIC® and **COR**TEC (can be used with and without lid)

Ref	Item-No.	Inner dimensions, mm without stacking lug			Outer dimensions, mm without stacking lug (without lid)		
03-CSC-BLACK	10003464-0001	362	251	60	389	278	67
05-CSC-BLACK	10003341-0001	362	251	100	389	278	107
10-CSC-BLACK	10003350-0001	362	251	139	389	278	146
15-CSC-BLACK	10003423-0001	362	251	220	389	278	227
17-CSC-BLACK	10003359-0001	551	362	60	578	389	67
19-CSC-BLACK	10003432-0001	551	362	100	578	389	107
20-CSC-BLACK	10003527-0001	551	362	139	578	389	146
30-CSC-BLACK	10003530-0001	551	362	172	578	389	179
35-CSC-BLACK	10003455-0001	551	362	220	578	389	227
36-CSC-BLACK*	10005120	550	365	300	578	389	307
40-CSC-BLACK*	10005187	550	365	400	578	389	410

* for 36-CSC and 40-CSC no dividers available

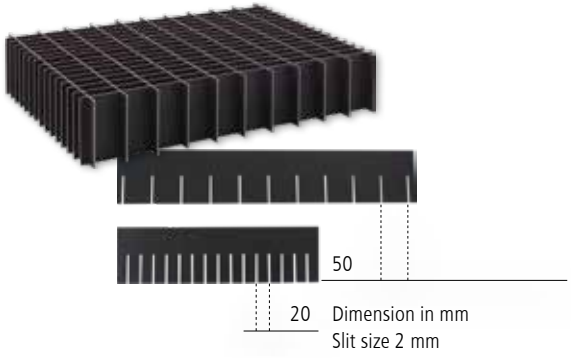
CSC Snap-on Lid
CORTRONIC®

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
03-16-CSCD	10002655-0001	388	281	30	399	299	35
17-40-CSCD	10002653-0001	581	392	40	599	399	45

Dissipative

Partition Inserts for CSC-Container

Standard color: Black



CSC Partition Inserts (solid board)

Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of divdiders max.	Cell dimensions min. mm	No. of cells max.
03-CSC-K	12000030	249	60	10	20	6	50 x 20 x 60	77
03-CSC-L	12000034	360	60	6	50	10		
05-CSC-K	12000031	249	100	10	20	6	50 x 20 x 100	77
05-CSC-L	12000035	360	100	6	50	10		
10-CSC-K	12000032	249	139	10	20	6	50 x 20 x 139	77
10-CSC-L	12000033	360	139	6	50	10		
15-CSC-K	12000036	249	220	10	20	6	50 x 20 x 220	77
15-CSC-L	12000037	360	220	6	50	10		
17-CSC-K	12000039	360	60	15	20	11/24	50 x 20 x 60	160
17-CSC-L50	12000040	549	60	11	50	15		
17-CSC-L20	12000042	549	60	24	20	15	20 x 20 x 60	400
19-CSC-K	12000038	360	100	15	20	11/24	50 x 20 x 100	160
19-CSC-L50	12000041	549	100	11	50	15		
19-CSC-L20	12000043	549	100	24	20	15	20 x 20 x 100	400
20-CSC-K	12000044	360	139	15	20	11/24	50 x 20 x 139	160
20-CSC-L50	12000045	549	139	11	50	15		
20-CSC-L20	12000046	549	139	24	20	15	20 x 20 x 139	400
30-CSC-K	12000047	360	172	15	20	11/24	50 x 20 x 172	160
30-CSC-L50	12000048	549	172	11	50	15		
30-CSC-L20	12000049	549	172	24	20	15	20 x 20 x 172	400
35-CSC-K	12000050	360	220	15	20	11/24	50 x 20 x 220	160
35-CSC-L50	12000052	549	220	11	50	15		
35-CSC-L20	12000051	549	220	24	20	15	20 x 20 x 220	400

Dividers are available individually, thus individual compartment sizes are possible.
Already assembled sets available on request.

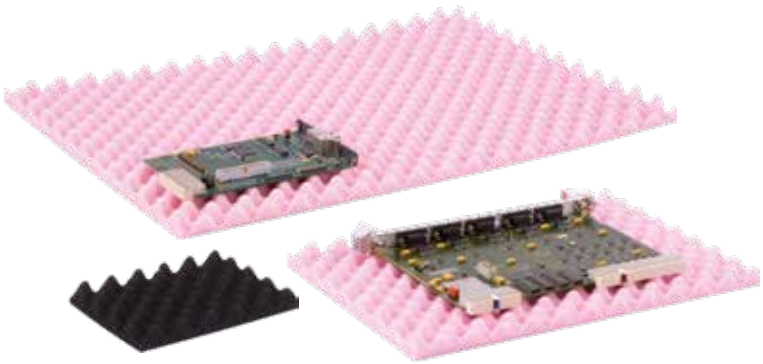
Faltkartons / American Boxes
CORproTRONIC®

Adhesive film 10-KB is needed and sold separately (Page 17)

Ref	Item-No.	Inner Dimensions, mm			Outer Dimensions, mm		
13-TAB	10167095-0001	362	251	172	373	259	188
15-TAB	10167096-0001	362	251	220	373	259	236
30-TAB	10167097-0001	551	362	172	562	370	188

With additional creasing. Adhesive film 10-KB is needed and sold separately (Page 17)

Ref	Item-No.	Inner Dimensions, mm			Outer Dimensions, mm			Additional Creasing at mm
10-TAB	10167094-0001	362	251	140	373	259	156	110 and 120
35-TAB	10167098-0001	551	362	220	562	370	236	172 and 200



Profiled Foam for CSC and TAB

dissipative pink* or conductive**

Ref	Item-No.	Dimensions, mm		
03 to 16-CSC NS AS	12000113	361	250	20
03 to 16-CSC NS EL	12000115	361	250	20
17 to 40-CSC NS AS	12000114	550	361	20
17 to 40-CSC NS EL	12000116	550	361	20

* Dissipative fuction of pink profiled foam: At least 6 months

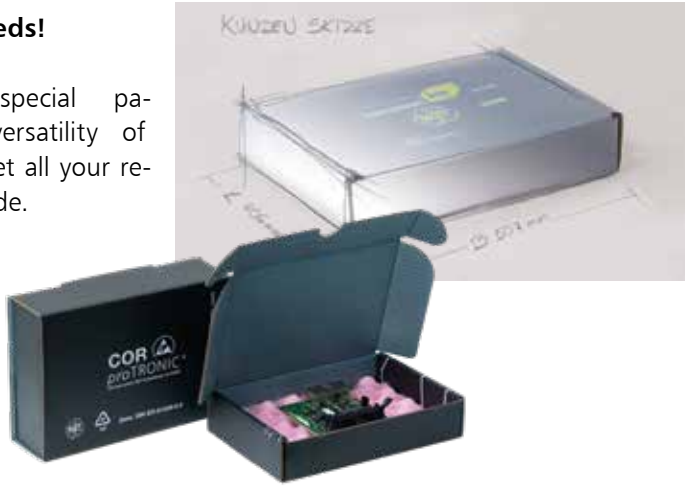
** Conductive function of black profiled foam: At least 5 years

CORproTRONIC®

Standard products made for quick supply

Custom-made items meet your special needs!

Some ESD sensitive products have special packaging or handling requirements. The versatility of **COR***pro*TRONIC® makes it possible for us to meet all your requirements, whether from stock or custom-made.



For shipping ESD sensitive parts

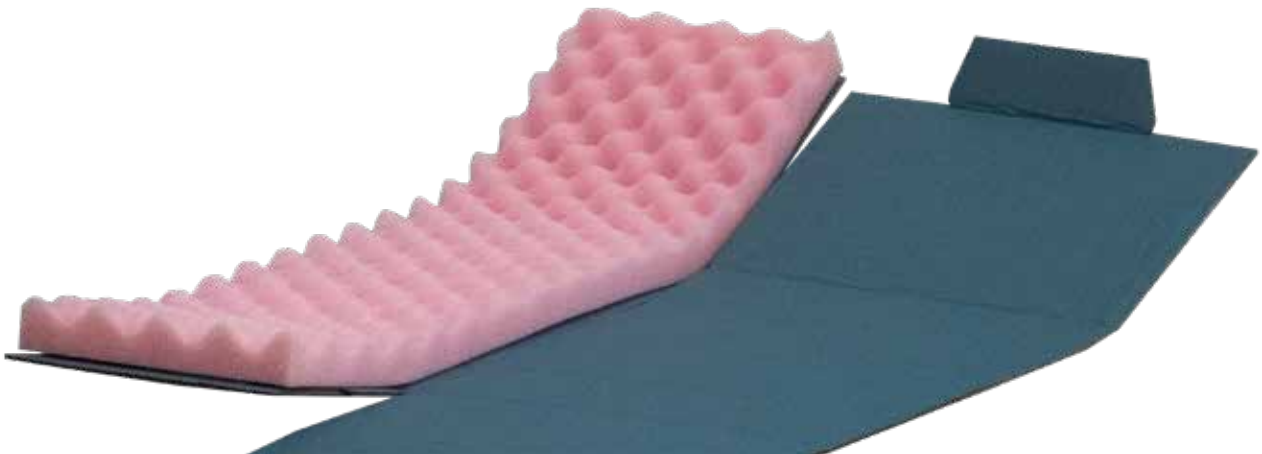
» EPROM packaging
» Dispatch boxes with profiled foam or film
» Constructive dispatch boxes
» **COR**PACK with profiled foam

For production, in-plant handling and storage:

» Stackable boxes
» Trays
» Reels, reel holders
» Storage boxes
» Partitioned boxes
» Multibox
» Fifo-Box

Worldwide availability!

COR*pro*TRONIC® are used over decades in all parts of the world. Just call us or visit us on the web to find your next dealer.



CORRUST®

Corrosion Protection With A Vision

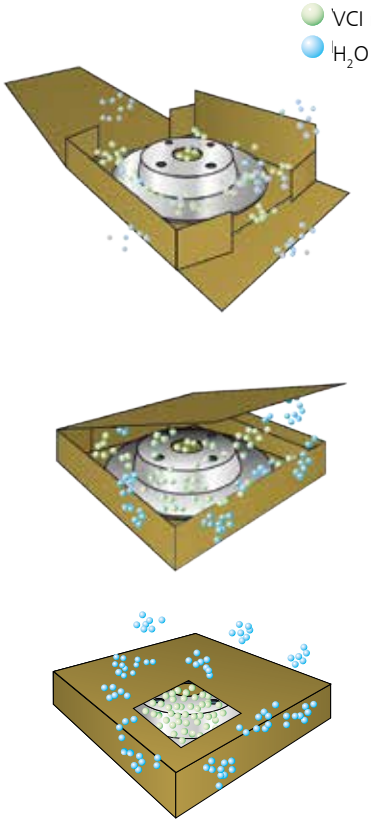
Packaging systems with
integrated corrosion inhibitors

CORRUST®

VCI Corrosion Protection Included

Protection against rust

Rust destroys metal. Rust is generated when sulphur dioxide and chloride are oxidised – such as by exposure to humid air. Therefore corrosion protection particularily is important when transporting and storing ferrous and non-ferrous metals for longer periods of time.



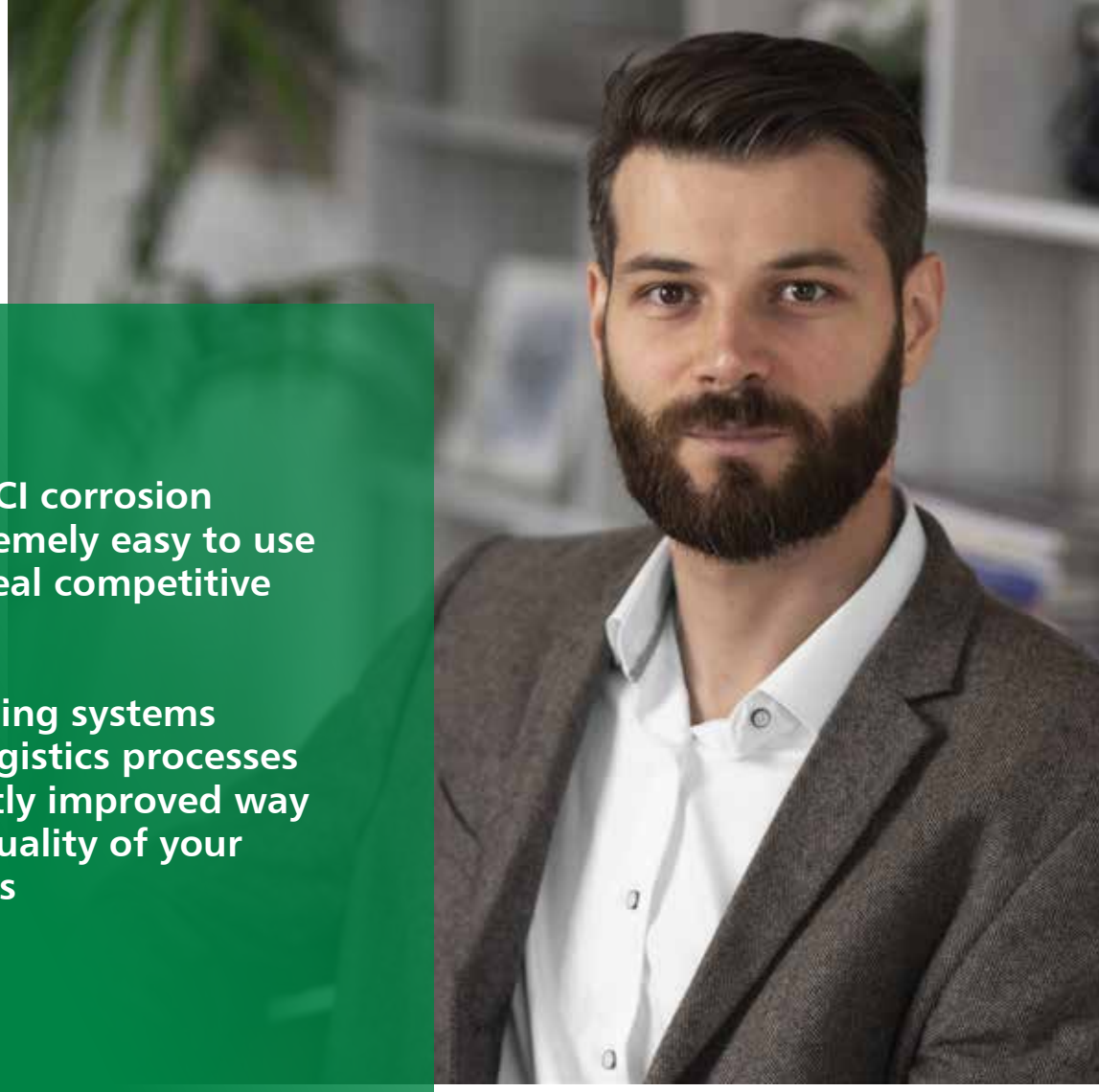
CORRUST® – A forward thinking principle

CORRUST® is a packaging system made from VCI-coated corrugated cardboard. This generously applied coating releases VCI molecules into the atmosphere inside the packaging – which subsequently comprises the actual corrosion protection.

Due to their polar character, these molecules attach to the surface of the metal products inside the packaging and thus prevent (passivate) the metal surface from reacting with oxygen.

The VCI coating applied to the corrugated cardboard is adjusted specifically to the packaging's relevant purpose and therefore ensures that the packaging's interior is always adequately saturated with VCI, and consequently provides long time protection for your product.

VCI: Volatile Corrosion Inhibitor



PROTECTION INCLUDED

Packaging with VCI corrosion protection is extremely easy to use and gives you a real competitive advantage.

CORRUST® packaging systems ensure smooth logistics processes with a significantly improved way to maintain the quality of your corrosive products

Protecting the environment

Corrosion damage not only affects trade, but also has an impact on the environment. **COR**RUST® is 100% recyclable and therefore ideal for humans and the environment, but also a safe choice when it comes to logistic costs.

We are able to simulate your shipment process in all relevant climate conditions to assure the best possible protection of your products.

Wrap - unwrap - and not a spot of rust inside

Traditionally, anti-corrosion packaging for transporting and shipping metal products entails coating a product in grease or a similar corrosion-inhibiting substance, then wrapping it, and then removing the coating again – all of which takes up quite a lot of time, which, ultimately, can drastically impact on the entire logistics chain. However, **COR**RUST® anti-corrosion packaging now makes this labour-intensive process a thing of the past, does not require any investments in corresponding washing systems or solvents and has been reduced to just that: Wrap, unwrap – and not a spot of rust inside!

CORRUST®

Safety

Corrugated cardboard packages are hygroscopic, i.e. they attract and absorb moisture from the air. This is an extremely useful feature since the cardboard can thus be used to hold large quantities of VCI. The **COR**RUST® VCI coating then forms a perfect barrier between the corrugated cardboard and the product inside. CORRUST® packaging systems can also, on request, be supplied with a moisture-repellent coating on the outside, which makes the system even more efficient for transporting products under difficult climatic conditions.

Protection categories

E For protecting ferrous metals, chromium, nickel, silicon aluminium alloys, partially galvanized steel, GGL and GGG

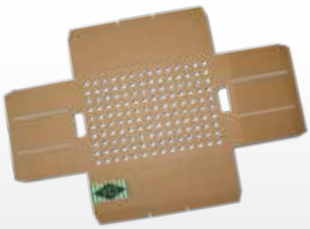
NE (C) For protecting copper, brass, bronze, nickel silver, copper and manganese aluminium alloys

NE (S) For protecting magnesium and magnesium alloys, silver and manganese

MM For protecting combinations of ferrous and non-ferrous metals, zinc and manganese aluminium alloys, galvanized steel, zinc and copper materials

Example products

Pre-cuts / sheets



Die-Cuttings

Partitions / Inserts

RSC / American Boxes

SKINBOARD®
CORRUST **SKIN**BOARD®

Skin Tight Protection

Corrugated board for skin packaging

SKINBOARD®
CORRUST **SKIN**BOARD®

Product Safety And Outstanding Presentation.

With **SKIN**BOARD® tight skin foil wrapping, excellent fixture of the goods on the board is combined with attractive product presentation. The foil and the corrugated cardboard are sealed together by what is known as fibre cut.
This bonding method determines the characteristic properties of the packaging: When unpacking the product, a layer of paper remains attached to the foil, making the **SKIN**BOARD® packaging very easy to handle.

Thanks to the use of high-strength adhesive, even heavy parts can be safety fixed to the cardboard for attractive presentation and increased sales.

Versatile skin packaging
Strong, variable and functional: Introducing the professional packaging solution for your fragile products.

***SKIN**BOARD® is a coated corrugated board with enhanced adhesion properties for skin film packaging*

Options included as standard!

Release function:
For small fragile parts of low weight, the strength of the bond between the film and the cardboard must be reduced to a defined value. Special coats ensure that even the most delicate products can be properly positioned on the board and can be easily removed.

***SKIN**BOARD® is suitable for packaging with skin foils made in PE and Surlyn®.*

GUARANTEED QUALITY

As a product engineer for technically advanced components that are susceptible to corrosion, I trust CORRUST® SKINBOARD packaging from KOLB.

CORRUST **SKIN**BOARD®

CORRUST **SKIN**BOARD® products offer optimised protection against corrosion for sensitive products. The corrosion protection properties can be individually chosen, depending on the material properties of the packed goods.

We offer the following options:

» Steel/iron, chromium
» Brass, copper, bronze
» Magnesium and magnesium alloys, silver
» Multi-metal protection for products made from various metals

SKINBOARD®
CORRUST SKINBOARD®

The perfect solution

The coated corrugated cardboard of the **KOLB** CoatedProducts® range is the ideal material for protective and sturdy packaging for products that are easily damaged by impact. It offers a range of advantages and thus meets the requirements of customers in a wide range of industries.

With **SKIN**BOARD® we offer you an innovative product made in functional corrugated' board that can be printed with your individual designs..

SKINBOARD® and **COR**RUST **SKIN**BOARD® are suitable for combination with all current skin foils. For **COR**RUST **SKIN**BOARD® we recommend using VCI skin foils.

To develop your customised packaging solution, we need the following information:

- Properties of goods to be packed (material properties, size and weight)?
- Required skin format?
- Corrosion protection required?
- Quantity?
- Printing required?

If desired, we produce a sample packaging for your products free of charge. Why not visit our premises to discuss your ideas with us and to see how **SKIN**BOARD® is processed on our skin packaging machine?

Thanks to a skin tight film cover the product will be both packed and presented in an outstanding manner.

VCI – Volatile Corrosion Inhibitor

VCI stands for vapour and volatile corrosion inhibitor and describes a process by which molecules from the skin/VCI coating evaporate and saturate the air inside the packaging. Due to their bi-polar character, these particles attach themselves to the surface of the metal products and fill recesses, thus preventing chemical reactions with oxygen on these surfaces (passivation).

Particles lost through evaporation are replaced by evaporation of more VCI molecules from the coating, so that saturation of the air inside the packaging is ensured at all times.

Result: Dry preservation of the product, doing away with time-consuming and costly conventional preservation and cleaning measures.

SKINBOARD®
CORRUST **SKIN**BOARD®

Skin packaging – on corrugated cardboard carrier material

» **Advantages:**
» Highly dynamic protection for products that are sensitive to shock
» Excellent stability thanks to fluted profile
» No disintegration of the corrugated cardboard layers by the foil restoring forces (special gluing of the individual paper layers)
» Integrated corrosion protection (with **COR**RUST **SKIN**BOARD®)
» Recyclable (paper cycle)
»
» **The skin surface:**
» Optimum bonding between corrugated cardboard and foil
» Outstanding vacuum properties
» Suitable for multicolor print on both sides

Your Choice!

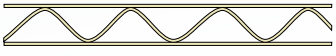
The size: All skin sizes

The board type: (Scale 1:1)

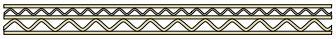
E-Flute

B-Flute

C-Flute

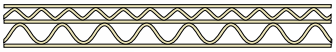


FE-Flute

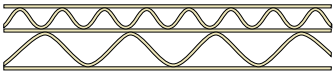


EE-Flute

EB-Flute



BC-Flute



The skin layer: **SKIN**BOARD® or **COR**RUST **SKIN**BOARD®
The finish: Color / print pattern

Types, Sizes, Dimensions

CORRUST®
CORRUST® corrugated cardboard packaging systems can be supplied in all shapes and sizes with features and properties most suited to meet your specific requirements. There is only one thing they all have in common: A high level of corrosion protection!

CORRUST **SKIN**BOARD®
CORRUST **SKIN**BOARD® features fully integrated corrosion protection and therefore offers maximum protection for vacuum-packed products.

CORRUST® Flex
This flexible VCI corrugated cardboard has been specifically designed to allow products with irregular shapes to be easily packaged and offers them maximum corrosion protection.

All **COR**RUST® packaging systems are available in all of the most common DIN corrugated cardboard types and/or – depending on their intended use – can be made specifically and totally to your specifications.

Product information

The above information is correct to the best of our knowledge and reflects the latest **COR**RUST® developments. Depending on the product to be packaged, the basic features of the different **COR**RUST® packaging types may vary. We are therefore unable to provide a universal warranty for our products. However, we are always happy to conduct tests with our customers to ascertain the level of corrosion protection needed for specific packaging solutions.

Storage in cool and dry conditions mandatory. Please observe handling instructions.

Grease & moisture: We have something against it!

Grease-resistant coating
Oily and greasy products such as ball bearings should be safely and securely packed throughout dispatch and storage. Thanks to the grease-resistant coating system from **KOLB CoatedProducts®** protection from grease is guaranteed throughout the entire duration of logistics and dispatch.

CORTEC Moisture-resistant coating
Moisture is the natural enemy of corrugated board packaging. But not where the moisture-resistant special coating on **KOLB Coated Products®** is concerned. Special hardened varnish creates a highly efficient barrier against any kind of moisture.

CORTEC Barrier
Recyclable protection against abrasion and moisture Thanks to the innovative barrier properties of CORTEC Barrier, we offer a customized, PAP20-compliant recyclable solution for packaging that protects against moisture and abrasion, especially for highly sensitive surfaces.

Wax coating
Whether as an insert or a complete export package, products can be sent on their way securely packed thanks to a special wax coating – even in hard climatic conditions.

Clever Coatings Due To Your Demand

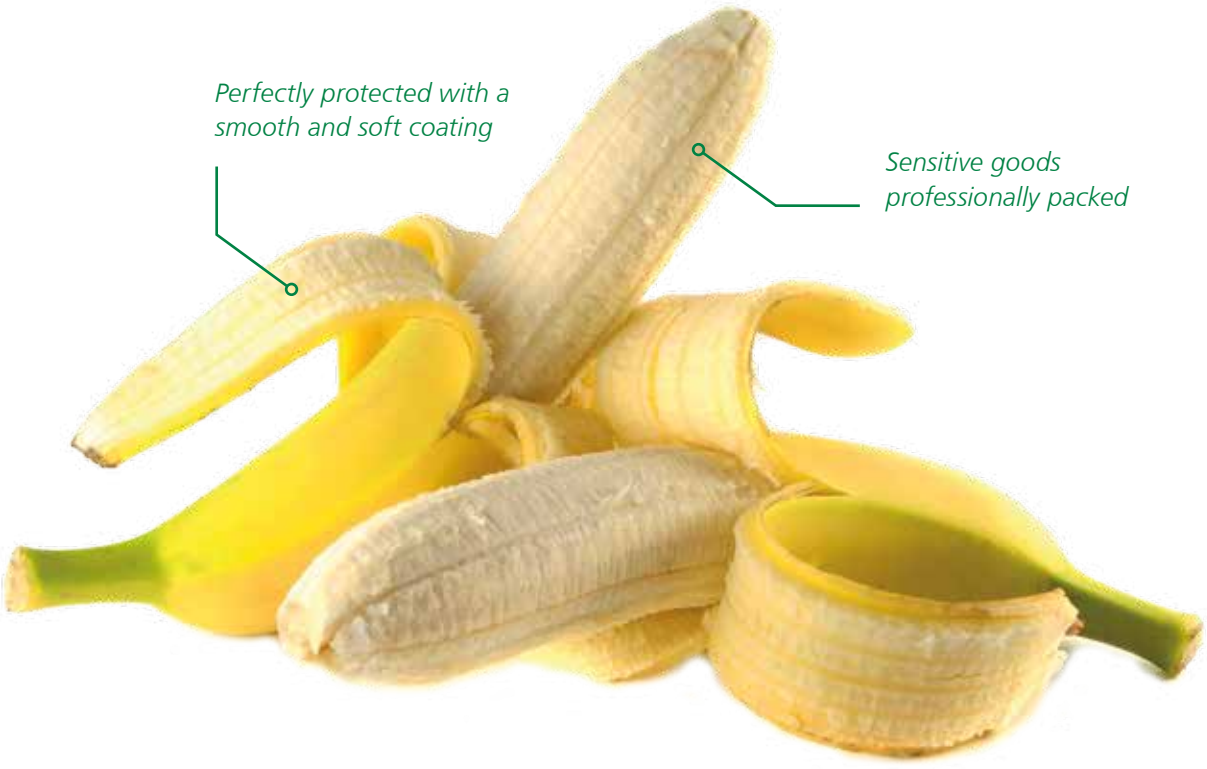
Stop & Go: non-slip and sliding coatings

Packages or intermediate layers that have adhesive or gliding properties are used either to fix goods during transport or for the horizontal automatic loading of boxes and trays. Two different coatings provide different results, but they have one thing in common: process optimization and the simplification of your packaging process. Rub-resistant coatings also help you to send even rough items safely.

KOLB CoatedProducts®

Hard & Soft: Surface protection and secure transport for your product

Soft coatings serve to protect surface-sensitive goods. The slip-resistant function also has a positive effect on transport safety. Varnished and sensitive parts will be securely packed in a perfect manner.



KOLB Logistics & Service

Service for advanced

The reputation of the **KOLB** Group is not only based on its high-quality products. But the quality approach also covers all aspects of delivery and just-in-time availability of our goods.

The **KOLB Logistics** department has at its disposal a vehicle fleet with more than 60 trucks, and can thus guarantee just-in-time delivery and efficient order handling.

We are furthermore glad to assist you in every demand regarding packaging automation, co-packing and many more topics of state-of-the-art packaging processes.

HANS KOLB
COATED PRODUCTS

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