



SUSTAINABLE TUBES WITH HIGHEST PRINT SOLUTIONS



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Available sizes and dimensions of tubes

## **2. Tube body**

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## **3. Print & Decoration**

Printing techniques and their effects on tubes

## **4. Cap types**

Cap range and its options

## **5. Sustainability**

Solutions for ecological tube options

# From the first scratch to a perfect product.

## Everything for a tube



- Your unique design.
- Highest full color quality print.
- Sustainable ecological solutions.
- Customized tube and cap colors.
- Single or multilayer tube body.
- Decoration for caps.
- First use cap protection.
- Decoseam technology for laminate tubes.

The one and only field of our specialization are tubes. We develop, explore and focus on these exclusively what enables us to provide a perfect packaging. All our achievements are targeted on clearly defined objectives reflecting the real potential of a tube. We believe that our products create a source of tool enabling customers to express themselves and their company's goal. 30 years of constant development in the field makes us propose the following offer.



# Professionalism. Purpose. Passion.

Together with manufacturers, suppliers, partners, business agents and, above all, customers, our company forms a common system of partnership, trust, loyalty and support. We believe that a common goal can only be achieved with the greatest concern for the common good of each of us.





# I. Dafo's Tube Range

We provide full spectrum of PE tube sizes starting from diameter 16 and 3ml volume to diam. 50, 300ml volume. Choose the perfect size for you. Our specialists will advise you about the appropriate dimension of the product.



**Full Potential of Possibilities  
- One Producer**

One tube  
Limitless designs  
Maximum possibilities



# Tube's diameters and volumes



## Diameter 50

The biggest diameter. Used for shampoos, gels, lotions, masks, scrubs and many others.

min  
90 mm  
max  
205 mm



## Diameter 40

Used for lotions, gels, balms, creams, soaps, scrubs and many others.

min  
90 mm  
max  
205 mm



## Diameter 35



Used for balms, creams, gels, toothpastes and many others with smaller product volume.

min  
60 mm  
max  
205 mm



### Diameter 30

Used for creams, gels, oils, toothpastes, foundations and many others.

 min 56 mm  
 max 205 mm

### Diameter 25

Used for smaller product volumes for example: foundations, creams, fillers, applications, oils and many others.

 min 55 mm  
 max 205 mm



### Diameter 19

Used for smaller product volumes like: samples, labial and ophtalamic products applications, oils and many others.

 min 55 mm  
 max 200 mm

### Diameter 16

Used for smaller product volumes like: samples, labial and ophtalamic products applications, oils and many others.

 min 55 mm  
 max 110 mm





**The choice upon a particular tube dimension depends on your wish.  
Below we present a proposal of tube lengths and its volumes.  
You can still choose everything in between.  
Still hesitating about the perfect tube size for your product?  
Contact us. We are happy to help.**



Ø50

### Recommended sizes:



	
90mm	100 ml
105 mm	125 ml
120 mm	150 ml
132 mm	175 ml
150 mm	200 ml
175 mm	250 ml
184 mm	275 ml
195 mm	300 ml

### Orifice sizes:

screw on	3 mm
	4 mm
	5 mm
	8 mm
	12 mm
push on	10 mm

Ø40

### Recommended sizes:



	
100 mm	75 ml
120 mm	100 ml
145 mm	125 ml
173 mm	150 ml

### Orifice sizes:

screw on	1.5 mm
	2 mm
	3 mm
	4 mm
	5 mm
	6 mm
push on	8 mm
	10 mm

Ø35

### Recommended sizes:



	
63 mm	25 ml
70 mm	30 ml
80 mm	40 ml
90 mm	50 ml
115 mm	75 ml
150 mm	100 ml
180 mm	125 ml

### Orifice sizes:

screw on	1.5 mm
	2 mm
	3 mm
	4 mm
	5 mm
	6 mm
	8 mm
push on	10 mm
cannula	1.5 mm

# Ø30

## Recommended sizes:



	
56 mm	20 ml
66 mm	25 ml
76 mm	30 ml
92 mm	40 ml
110 mm	50 ml
130 mm	60 ml
150 mm	70 ml
170 mm	80 ml
190 mm	90 ml

## Orifice sizes:

screw on	1.5 mm
	2 mm
	3 mm
	4 mm
	5 mm
	6 mm
	8 mm
push on	10 mm
cannula	1.5 mm

# Ø25

## Recommended sizes:



	
15 ml	65 mm
20 ml	72 mm
25 ml	85 mm
30 ml	96 mm
35 ml	105 mm

## Orifice sizes:

screw on	1.5 mm
	2 mm
	3 mm
	4 mm
push on	10 mm
cannula	M-9: 1.5 mm
	M-11: 1.45 mm
	2.45 mm

# Ø19

## Recommended sizes:



	
8 ml	57 mm
10 ml	65 mm
12 ml	72 mm
15 ml	85 mm
20 ml	100 mm

## Orifice sizes:

screw on	1 mm
	1.5 mm
	2 mm
	3 mm
	4 mm
push on	10 mm
cannula	0 mm
	1.5 mm
lipgloss	2 mm

# Ø16

## Recommended sizes:

	
5 ml	55 mm
8 ml	58 mm
10 ml	67 mm
12 ml	75 mm

## Orifice sizes:

screw on	1 mm
	2 mm
	3 mm
	4 mm
push on	10 mm
cannula	1 mm
	1.5 mm
	2 mm

## 2. Tube Body

**Simple packaging offers numerous options determining its desirable characteristics.**

Only perfect ingredients can result in a perfect product. That is why when working on new projects and in the production we only use the best materials that are certified and approved for use in the cosmetic and pharmaceutical industries.

All of our PE and PP materials can be mixed with colour pigments. The tube's body as well as the cap may acquire individual colourful look. Choose your desired colour by:

- targeting the pantone colour
- sending us the physical sample
- indicating the masterbatch and its dosage

You will receive a free of charge colour sample to be used for your packaging.



### LDPE

Low-density polyethylene - it is a variety of polyethylene, more flexible and softer, which retains elasticity at low temperatures, and is completely physiologically neutral.

### HDPE

High-density polyethylene  
It is harder than PE-LD, has a higher mechanical strength, higher melting point and higher barrier properties than gases and higher chemical resistance; it is less transparent.







# Medical

Low or High density resin used mainly for pharmaceutical products. It is characterized by a perfect balance of resilience and flexibility.

# PP

Polypropylene. This polymer from the polyolefin group is one of the two –most commonly used plastics, besides PE. It is more rigid and more resistant.

# LLDPE

Linear low-density polyethylene. It is more transparent, has greater fracture and puncture resistance, and a higher tensile strength.



# PCR

Post-Consumer Recycled resin  
– a material made from a plastic product that has been already used by the final consumer. DAFO PLASTICS presents 100% PCR plastic tube. After countless number of tests we are thrilled to offer a possibility to choose 100% PCR tube with no virgin materials added. Decide responsibly about your product. Choose our Post Consumer Recycled material and help us save the planet.

# PIR

Post-Industrial Recycled resin  
– a material which was acquired from the production of PE tubes. Its perfect characteristics enable it to be re-used in another production without the loss of the initial product quality. The more PIR material is put into the tube, the less plastic is being produced.

# 7-in-1 multilayer tube body option



## PIR/PCR in COEX

A great advantage of adding PCR into multilayered tube is the possibility to acquire a bulk protection or provide one of the best quality of tube surface print. The tube's body may combine of certain amount of PCR and/or PIR layer. The percentage of recycled material in a product depends on the customer wish as well as the technical availabilities. We are able to offer from 22% of PCR to 100% PCR tube content which is one of the biggest on the market.

## EVOH in COEX

A single tube may consist of one or more layers. These are called Co-Extrusion tubes. Currently we have a possibility to offer even 7 tube layers in a tube. A great benefit is that each layer may be personalized according to the customer's needs. In a COEX tube we have a possibility to add EVOH barrier, double EVOH, PCR, PIR and other variations.

EVOH barrier protects the product from external influences and limits the migration of certain constituents of the product on the outside of the package. Packed in a tube, the product may be stored longer than in a single layer packaging.



## 3. Tube Decoration & Print

We provide all printing techniques options for PE tubes. We guarantee that all artworks can be transmitted on packaging in the highest quality possible. Check out our offer below.



1. One of our main goals is to provide all printing options technologically possible for your packaging.
2. The advanced printing methods and quality are guaranteed by world leading machine manufacturers.
3. The printing technology is boosted thanks to our well-experienced and knowledgeable specialists.
4. Your packaging can be eye catching, exclusive, modest and price balanced at the same time.



# Decoration & Print

## Digital

The world latest novelty in printing technology of tubes. As opposed to the traditional methods, digital print is a direct, top to bottom print on a tube. It enables to provide highly advanced images printed on a round tube. Minimum order quantity starts from 2,500pcs per 1 design. Available from diameter 25.

## Flexography

It is the essentially modern version of half-tone printing to achieve stunning photo-realistic images in best quality print. Artworks are developed in CMYK colours.





# Hybrid print

It is a combined printing technique that may consist of: Flexography CMYK print, Flexography pantone, silkscreen pantone and in-line foiling that gives you the effect of metallized foil in different colours. Using this method we are able to make very demanding and complex printings obtaining one of the best tube printing quality.

# Offset

Classic but still one of the best techniques in tube printing. Advanced technology of new Hinterkopf machines guarantees the usage of 9 stations what means the print of 9 pantone colours onto one project. The additional usage of rasters and half-tones enables to create sophisticated designs or simple projects with text only. Available for all tube diameters and lengths. This technique stands out for its cost-effectiveness, processing capacity and very good quality print.

# Silkscreen

In a screen printing technique the printing form is a template placed on a fine mesh made of plastic called a matrix. Using this technique we can make six colours onto the tubes. Silk screening is good technique for vivid colours because the ink is laid down quite thickly which produces a tactile and high quality feel. Often used by our client for an exclusive product with 1-2 colour text print.



# Hot-Stamping

A method of embossing the metallized foil onto the tube's surface under a very high temperature. With hot-stamping you are able to experiment with your design and emphasize certain elements of your graphic design. Adding the metallized parts simultaneously creates the effect of exclusivity of your product and will help your product to stand out from the crowd. Our standard colours of the foils are: gold and silver. However we encourage you to see the full colour range of foils including rose gold colours or copper-like ones. Holographic foil.

# In-Line foiling

It is a new foil-printing process of hybrid print for creating multi-colour, high-shine metallized images on tubes. It complements screen and/or flexo printed designs. Inline foiled elements have large wrap angles as well as these are in perfect registration with the other print colours. Excellent surface quality, high shine, durability and low cost of metallized images make In-Line foiling a perfect alternative to the coloured hot stamping.

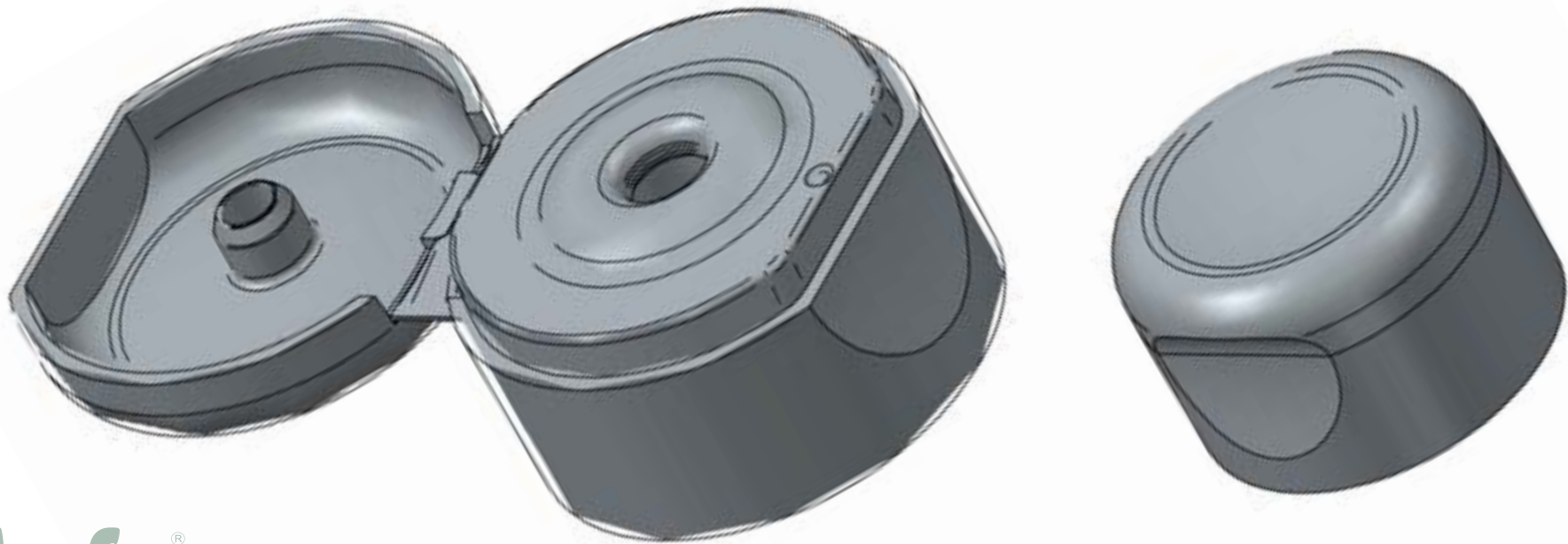




## 4. Cap types


















We provide full range of caps suitable for our tubes. Each tube diameter has its own cap shapes available. Starting from diameter 50 Flip top oriented caps, standard screw ons with different edge lines to the smallest ophtalamic or lipgloss caps. All of these are made exclusively in-house. We also provide services for creation of a completely new injection moulds for a desired cap type. All done by our engineers in our workshop.

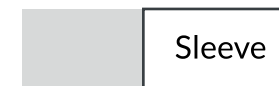
We also provide full service of outsourced non-standard cap solutions.





## Closure type

	Low profile with / without tamper evident	Standard Classic Soft-Line Screw-on glossy or matt	Standard Classic Screw-on glossy or matt	Standard Classic Soft-Line glossy or matt	Flip-Top Soft-Line Screw-on glossy or matt	Flip-Top Classic Screw-on glossy or matt	Flip-Top Soft-Line Snap-on glossy or matt	Clean Close Cap	Octagonal Closure	Cannula Clean Close	Oval	Conial Cap	Cannula Soft-Line Screw-on glossy or matt	Lip-Gloss Soft-Line Screw-on glossy	PinPoint	Ribbon Tip	Sponge- Aplicator Screw-on
																	
Ø16			X									X	X				
Ø19			X						X			X	X	X	X	X	
Ø25			X			X		X	X			X	X				
Ø30		X	X			X	X		X	X		X	X				
Ø35	X	X	X	X	X	X	X	X	X	X	X	X	X				X
Ø40	X		X				X	X	X	X							
Ø50	X		X		X		X		X								



# Cap Decoration



**Not forgetting the importance of caps as a part of the full packaging, we fully cover the decoration options also for these.**

## Metallization

It is a process in which caps are being sprayed with metallized colours. Our standard colours are : gold and silver but we also provide other like: rose gold, copper like, etc. Metallization enables to gain a sophisticated effect of the product range and it is a perfect compliment to Hot Stamping or In-line foiling on tube.

## Varnish

As opposed to metallization you may also be looking into different cap varnish colours.

## Hot-Stamping ring

It is another option for a cap decoration. It is a hot stamping horizontal line made around the cap. You may choose the placement and dimensions of the ring. Our standard colours are gold and silver but still other variants are available upon request.

## Print

Simple objects, 1 colour print.



# Cap protection

Hygienic solutions for a tube opening are extremely important. That is why we provide shirring sleeves as well as seals to protect the product.



## Sleeve

It is a transparent shirring foil being put on a flip top cap. Before the first use of the product it is necessary to tear off the sleeve. The „tear off place” is visible by adding marks like: red line, arrows or other elements on the sleeve.



## Seal

For all screw on type of caps we encourage to put a seal of the tube's had. In that option it is necessary to tear off the seal before the first use of the product. We offer aluminium or plastic white seal type.



## Tamper evident

Another proposal is to have tamper evident flip top cap in which it is needed to tear off the plastic part of the cap before using the product. Available for diameter 50.

# 5. Eco Logical Tube solutions

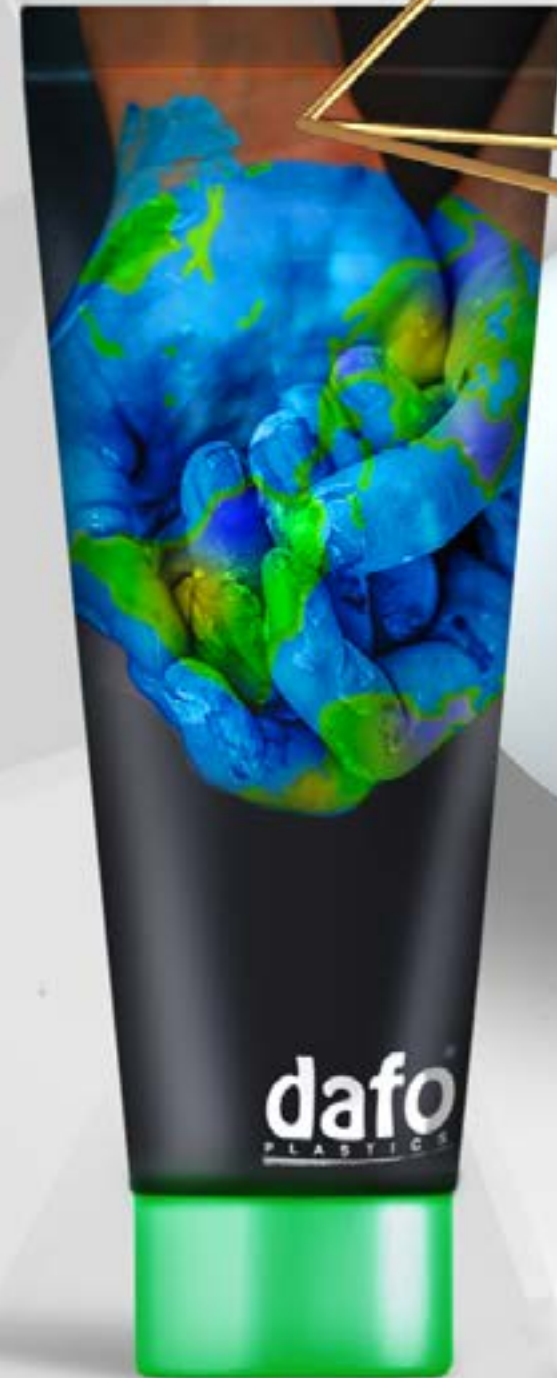


100 %  
Sustainability

Taking care about the environment and considering the active support of its protection we offer three possibilities of sustainable tube options.



One tube  
Ecological solutions  
Maximum Care





# Reduce 30% less plastic

30 %

Not willing to use as much plastic in a product as used in standard tubes? Now, we have a solution to decrease the wall tube thickness even up to 30%. Having one of the best technological solution in production of PE tubes, we are able to moderate the thickness of the tube's layer. It can be minimized from 500 to 350 microns contributing to a positive impact on the environment.

# Reuse up to 60% PCR / PIR

60 %

Tube made with Post-Consumer Recycled resin – a material made from a plastic product that has been already used by the final consumer. DAFO PLASTICS presents maximum 60% PCR in a whole product including head and the cap. Maximum percentage of PCR in tube's body only is even 100%. Decide responsibly about your product. Choose our Post Consumer Recycled material and help us save the planet.





# Recycle 100% monomaterial tube

100 %

Facing the problem of tube product complexity directly means more problematic recycling process. That is why we introduce our monomaterial tube which is made of 100% HDPE resin that can be fully recyclable. Therefore, it can potentially be re-used in another product with no loss in its quality.

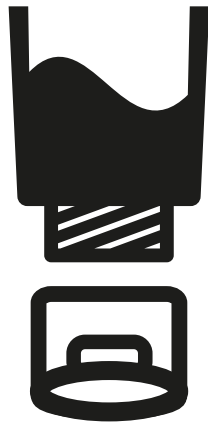






# What's new?

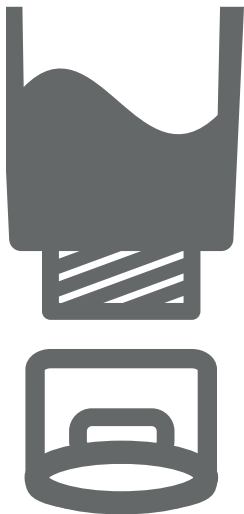
**NEW CAPS - NEW POSSIBILITIES**



# Dafo's new side - Oval tube shape

Create your unique design with the unique oval tube shape. The oval cap available for diameter 35 tubes will help your product to stand out from the crowd.

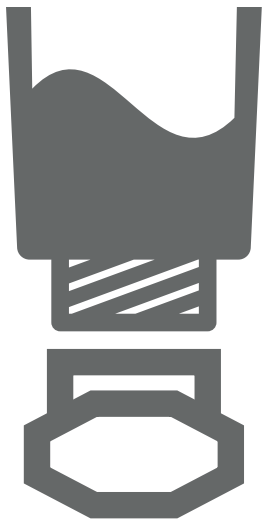
Available also with Post consumer recycled resin.



# Easy to open - Octagonal cap

Check out our new octagonal cap suitable for diameter 50 tubes. Easy to grip and easy to screw due to its angular shape. Smaller size of the cap enables you to save up to 40% of the plastics comparing to our standard caps\*

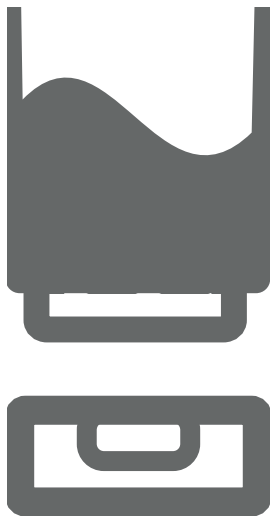
\*diameter 50 flip top snap on cap





# Less means more – Low Profile tube

Following our commitment to achieve complex and sustainable solutions we invite you to explore our new tube option with low profile cap type. Less plastic more ecology.



We are happy to  
assist in your tube  
packaging journey.  
Please feel free to  
contact us:

## Domestic Sales

### **Aneta Duda**

☎ +48 18 261 48 14  
✉ [aneta.duda@dafo.pl](mailto:aneta.duda@dafo.pl)

### **Ewa Krzystyniak**

☎ +48 18 261 48 11  
✉ [ewa.krzystyniak@dafo.pl](mailto:ewa.krzystyniak@dafo.pl)

### **Barbara Bisaga**

☎ +48 18 261 48 19  
✉ [barbara.bisaga@dafo.pl](mailto:barbara.bisaga@dafo.pl)

### **Magdalena Dębska**

☎ +48 18 261 48 17  
✉ [magdalena.debska@dafo.pl](mailto:magdalena.debska@dafo.pl)

# Export

✉ export@dafo.pl

## **Dorota Mamczur**

☎ +48 18 261 48 12  
✉ dorota.mamczur@dafo.pl

## **Tadeusz Sumara**

☎ +48 18 261 48 13  
✉ tadeusz.sumara@dafo.pl

## **Alicja Bomba**

☎ +48 18 261 48 15  
✉ alicja.bomba@dafo.pl

## **Dominika Pierwoła**

☎ +48 18 261 48 26  
✉ dominika.pierwola@dafo.pl

## **Michał Babiaryz**

☎ +48 18 261 48 16  
✉ michal.babiarz@dafo.pl

# Supply

## **Danuta Daniel**

☎ +48 18 261 48 33  
✉ danuta.daniel@dafo.pl

## **Anna Kowalska**

☎ +48 18 261 48 31  
✉ anna.kowalska@dafo.pl

## **Marcin Schonemann**

☎ +48 18 261 48 33  
✉ marcin.schonemann@dafo.pl

# Transport

## **Łukasz Mikołajczyk**

☎ +48 18 261 48 18  
✉ lukasz.mikolajczyk@dafo.pl

# Meet our representatives and partners



## **MBK VERPACKUNGEN GmbH**

Ängelholmer Str. 20 a  
59174 Kamen  
Amtsgericht Hamm HRB 5821

+49 02307-28517-0  
+48 02307-28517-29  
info@mbk-verpackungen.de  
www.mbk-verpackungen.de



## **Paul Beer Selectpackaging Limited**

16 Queen Street Ilkeston Derbyshire  
DE7 5GT United Kingdom

+44 (0)115 8544 295  
v+44 (0)7984 648 230  
sales@selectpackaging.co.uk  
www.selectpackaging.co.uk



## **Dominique Renaut Sélectpackaging France**

98bis Bd de Latour-Maubourg  
75007 Paris, 6th floor

+33 (0) 6 49 87 90 79  
dominique.renaut@selectpackaging.fr  
www.selectpackaging.fr



## **Alina Salomie Alset Packing S.R.L.**

Cluj-Napoca-400263  
Str. Gh. Asachi Nr.6

+ 40-740-578.815  
alina@alset.ro  
www.alset.ro



## DAFO PLASTICS SA

✉ dafo@dafo.pl  
export@dafo.pl

Waksmundzka 193  
34-400 Nowy Targ, Poland

VAT: 735 000 88 56



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