



IBG MONFORTS

Total solutions for the production
of cold-pressed vegetable oils

Oil Presses



**Custom made
'Meisterlich'
since 1884**

About us

IBG Monforts Oekotec GmbH & Co. KG is rightfully considered an expert in oil seed processing technology.

For more than 50 years we have been active in the field of cold-press extraction of vegetable oils.

Quality is extremely important to us, not just for our oil presses and filter presses. We also hold ourselves to high standards when it comes to advising our clients and providing them with long-term service.

CONTENTS

7	FOODSTUFFS
8	COSMETICS PHARMACEUTICALS
11	ENERGY BIOTECHNOLOGY
12	EXTRACTING OILS FROM SEEDS, NUTS, AND KERNELS
14	PRODUCTION PROCESS
16	LIST OF SEEDS
16	KOMET OIL PRESSES
20	OIL PRESSES
22	K-SYSTEMS
24	FILTERING TECHNOLOGY
27	CLIENTS

Custom made
'Meisterlich'
since 1884

**Cold pressed,
nature's taste**



FOODSTUFFS |

One of the most important areas of application for cold-pressed vegetable oil is as edible and cooking oil.

Cold-pressed vegetable oils make an important contribution to healthy nutrition. In general, they provide essential fatty acids like omega-3 and omega-6, as well as healthy fats like vitamin E.

Cold pressing is unique in that nearly all the oil's nutrients and flavour are preserved. In this way, you can enjoy not only the health benefits but also the pure natural flavour of the oil.



COSMETICS | PHARMACEUTICALS

In the pharmaceutical sector, the active ingredients in vegetable oils are used as natural remedies or nutritional supplements. For instance, some oils can be applied to the skin in case of skin disorders or injuries. Vegetable oils are also taken internally, either in their pure form or as capsules.

The cosmetics industry often uses vegetable oils as a base for lotions and creams. Certain components are believed to accelerate the skin regeneration process and improve the skin's ability to absorb moisture.



**Natural base
for beauty**

Nature's power

ENERGY | BIOTECHNOLOGY

With additional functionalization, vegetable oils are also used in the biotechnology sector. For instance, they are used to produce technological plastics or as surfactants in the manufacture of washing and cleaning agents.

Vegetable oils are also used in the manufacture of natural dyes, as separating agents, or as biodegradable lubricants.

As cold-pressed vegetable oils are a renewable energy source, they can also be used as alternative fuels.



EXTRACTING OILS FROM SEEDS, NUTS, AND KERNELS |

KOMET oil presses are characterized by their unique cold press procedure, which uses screw conveyors rather than individual compression screws to press the oil. The oil seeds are gently pressed without constant abrasion or agitation. This reduces the amount of bitter substances and other undesirable components in the oil.

A particular advantage to the screw conveyor procedure is that a wide variety of oil seeds and nuts can be

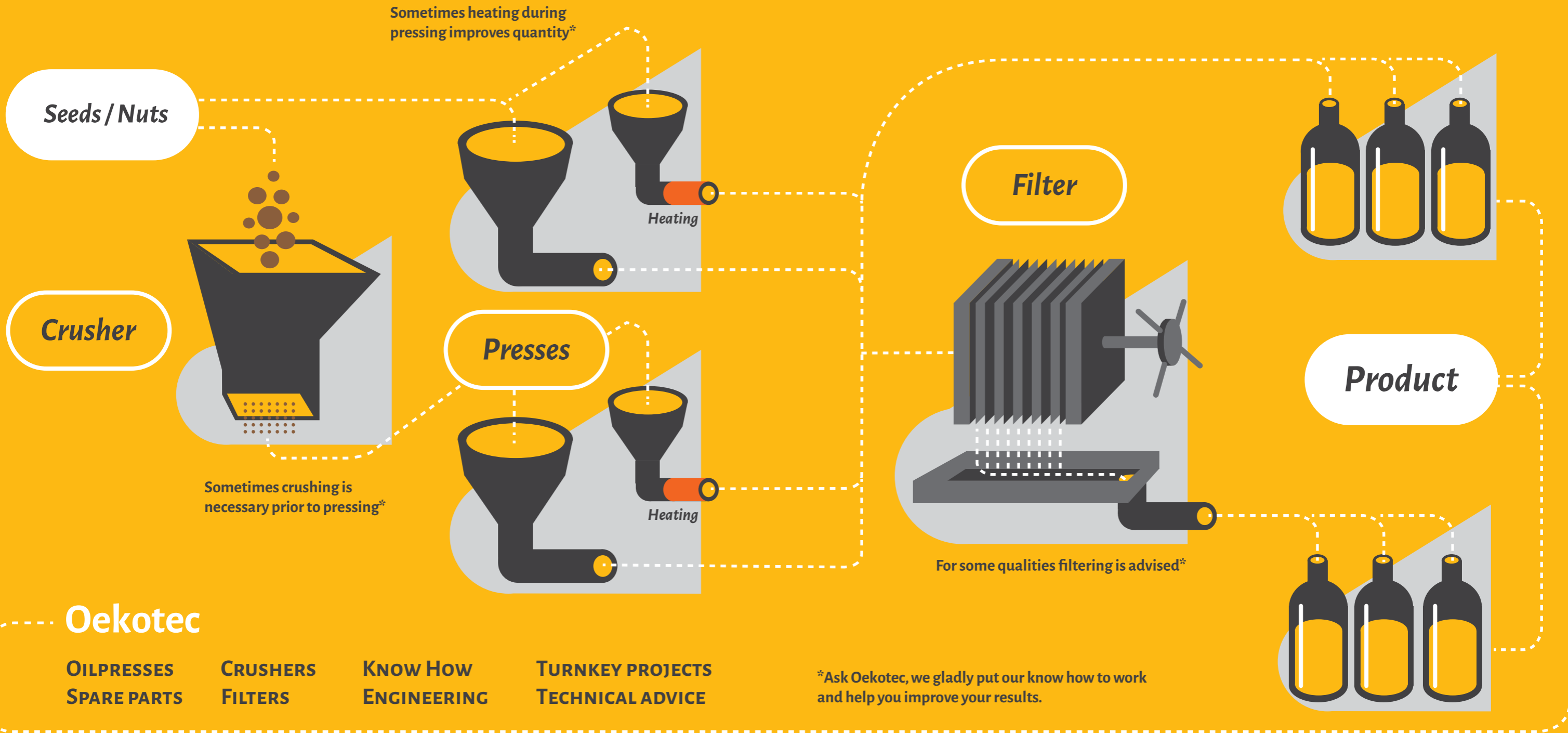
processed using nothing more than the standard oil press equipment.

KOMET oil presses are remarkably easy to maintain, as they have a single press cylinder rather than a multisectional straining basket. As a result, it is possible to rapidly change from one oil seed to another, which is especially important when processing small batches.

KOMET oil presses are easy to operate and do not require any particular technical skills or specialist expertise.



Made by nature



Oekotec

**OILPRESSES
SPARE PARTS**

**CRUSHERS
FILTERS**

**KNOW HOW
ENGINEERING**

**TURNKEY PROJECTS
TECHNICAL ADVICE**

*Ask Oekotec, we gladly put our know how to work and help you improve your results.

Next page: List of seeds



LIST OF SEEDS |

Almond, amaranth, apricot kernel, argan, arrow poison plant, avocado, babassu palm, baobab, Barbados nut, beechnut, bell pepper seed, black cumin, blueberry, borage, boxthorn, Brazil nut, cacao, calendula (common marigold), caraway, cashew, castor bean, chia, citrus seed, coconut, coconut palm, coffee, copra, cottonseed, desert date, dogbane, elderberry, evening primrose, guava, gold-of-pleasure (camelina), grapeseed, hazelnut, hemp, jojoba, leaf mustard, linseed, macadamia, mace, maize, mandarin orange, mango, marjoram, melon seed, milk thistle, mole plant, moringa, musk mallow seed (ambrette), neem-tree seed, niger seed, nitraria seed, nutmeg, palm seed (oil palm), papaya, passion fruit (maracujá, granadilla), peanut, pecan, peppercorn, physic nut, pili nut, pistachio, pomegranate seed, poppy seed, prickly pear, pumpkin seed, rapeseed, raspberry, redcurrant, rose hip, rubber seed, safflower, sage (clary sage), sea-buckthorn, sesame, shea nut, soya, stinging nettle, strawberry, sunflower seed, tea tree, thistle, tomato seed, walnut, woad.



KOMET OILPRESSES K-SYSTEMS |

We developed our KOMET K-Systems to meet the demands of industrial oil seed processing, in particular high capacities.

The modular construction means that it is easy to adjust the processing capacity to suit clients' needs.

The K-Systems can also be fitted with an optional seed feeding system and corresponding transport systems for the press cake.

The pre-installed system components provide the added advantage of enabling easy expansion at any time.

**Modular
expandable**



Oil Presses



OILPRESSES |



CA 59-1H



CA 59 G



DD 85 G



D 85-1G



Type	Capacity (Kg) Seeds/hour	Power consumption (KW)	Weight (Kg)	Dimensions (mm) LxWxH
CA 59-1 H	1-3	-	30	840 x 300 x 510
CA 59 G	3-5	1,1	80	680 x 580 x 550
D 85-1 G	5-15	3	310	1080 x 775 x 520
DD 85 G	10-30	3	325	1080 x 775 x 520
S 120 F	10-40	7,5	440	1335 x 520 x 730



K-SYSTEMS |



Type	Capacity (Kg) Seeds/hour	Power consumption (KW)	Weight (Kg)	Dimensions (mm) LxWxH
K 60 I	20 - 60	6	800	1300 x 860 x 1485
K 60 V	20 - 60	3	700	1300 x 860 x 1485
K 90 I	30 - 90	9	1150	1800 x 860 x 1485
K 120 I	40 - 120	12	1600	2300 x 860 x 1485

Type	Capacity (Kg) Seeds/Hour	Power consumption (KW)	Weight (Kg)	Dimensions (mm) LxWxH
K 120 V	40 - 120	6	1400	2300 x 860 x 1485
K 150 I	50 - 150	15	2000	2960 x 860 x 1485
K 240 I	80 - 150	24	3200	2960 x 2120 x 1485
K 240 V	50 - 150	12	2800	2960 x 2120 x 1485

FILTERING TECHNOLOGY |

After extraction, the vegetable oil must be purified of sediments and turbidity. One way to do this is by utilizing a filter press.

A filter press basically consists of the press frame, the filter discs, the filter cloths, and the feed pump. The capacity can be adjusted by changing the number and/or size of the filter discs and filter cloths.

The filter cloths are located between the filter discs and are made of a

liquid-permeable textile fabric. As the oil is sent through the filter press, the sediments are unable to pass through this fabric and build up into a filter cake over time. This increases the pressure on the filter discs and the filter cake must be removed by opening the filter press.

We can supply the following models:

Filteringpress D 11 40x40

Number of filter frames	20	40	60	80
Length	1030	1600	2040	2500
Width	700	700	700	700
Height	1230	1230	1230	1230
Filter area in m ²	3,2	6,4	9,6	12,8
Weight in kg	210	280	360	420
Approximate capacity in litres/hour	20	50	90	140

Dimensions in mm

Filteringpress D 18 20x20

Number of filter frames	15
Length	600
Width	300
Height	400
Filter area in m ²	0,64
Weight in kg	28
Approximate capacity in litres/hour	10

Dimensions in mm



Filterpresse D 11



Filterpresse D 18



CLIENTS |

Our KOMET oil presses have been used for many years in the production of high-quality cold-pressed vegetable oils. You will find our oil presses at companies like the following:

MARS CHOCOLATE NORTH AMERICA
McCain Foods USA Inc.
BARRY CALLEBAUT
KRAFT FOODS
ÖLMÜHLE BRÖKELMANN + CO
OELMÜHLE GMBH + Co
WASHINGTON STATE UNIVERSITY
TEXAS A & M UNIVERSITY
NESTLÉ



**Custom made
'Meisterlich'
since 1884**

IBG Monforts Oekotec GmbH & Co. KG

Hanns-Martin-Schleyer-Straße 2
41199 Mönchengladbach · *Germany*
T +49 2166 8682-46 F +49 2166 8682-89

www.ibg-monforts.com