

High-quality vegetable oils

Cold Pressing

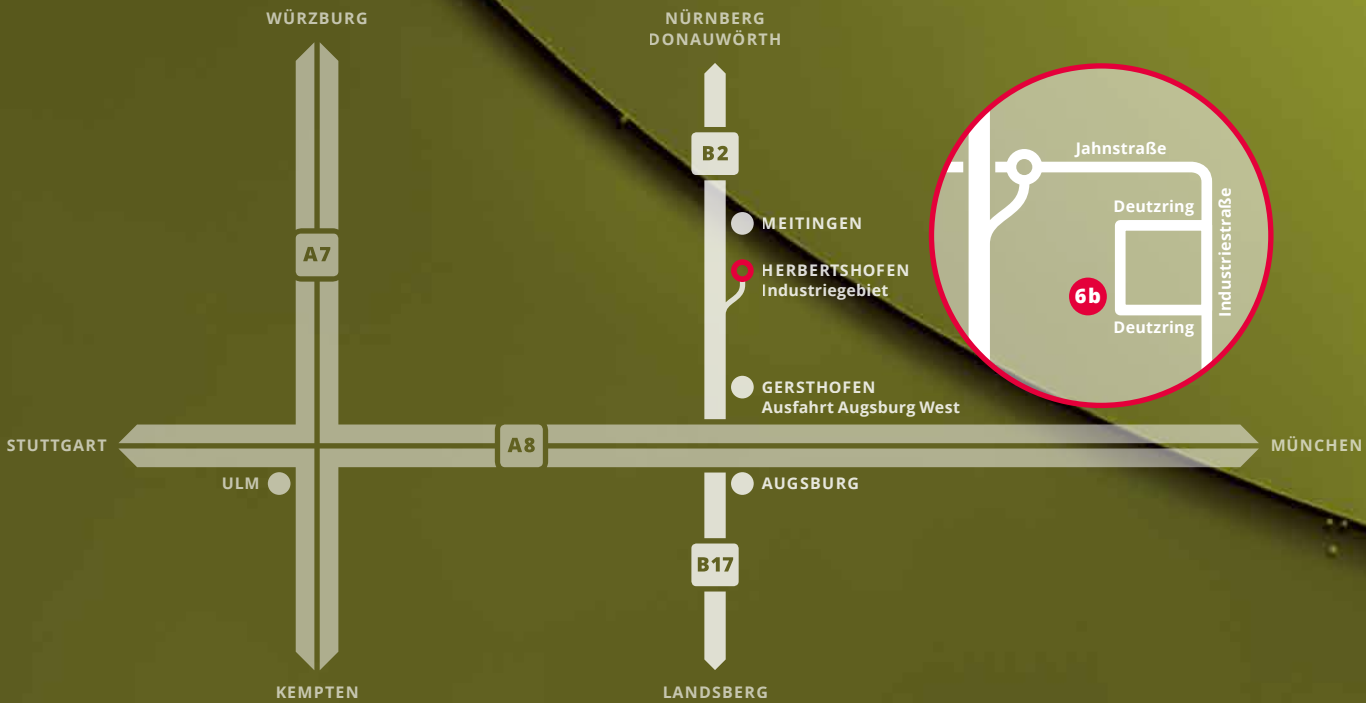
The screw extrusion press is designed to produce cold-pressed vegetable oils, for instance: almond oil, apricot kernel oil, argan oil, beechnut oil, black cumin oil, black currant seed oil, brazil nut oil, camelina oil, canola oil, cashew oil, cocoa butter, coconut oil, grape seed oil, hazelnut oil, hemp oil, jatropa oil, linseed oil, macadamia nut oil, mustard seed oil, peanut oil, pistachio oil, poppy seed oil, pumpkin seed oil, safflower oil, sesame oil, soya oil, sunflower seed oil, walnut oil, etc.

The press cake that is left from the production can be used as high-quality feed without any additives. The press result is a versatile edible oil as well as fuel for engines that are suitable for vegetable oil.



ANTON FRIES  
MASCHINENBAU G m b H

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**Quality from Germany**  
The oil presses which are produced in our manufactory have already been sold to over 73 countries worldwide. Moreover, we produce turning and milling parts as well as tube bending mendrels on our CNC machines for renowned companies. In 2015 our former apprentice won the price for the best cutting machine operator throughout Germany. As an innovative company we were awarded the Bavarian State Prize for outstanding technical performances in 2004 and 2008.



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Oil Press  
Screw extrusion press  
for producing high-quality  
cold-pressed vegetable oils



Basic model P500R:  
Oil press with energy-saving motor

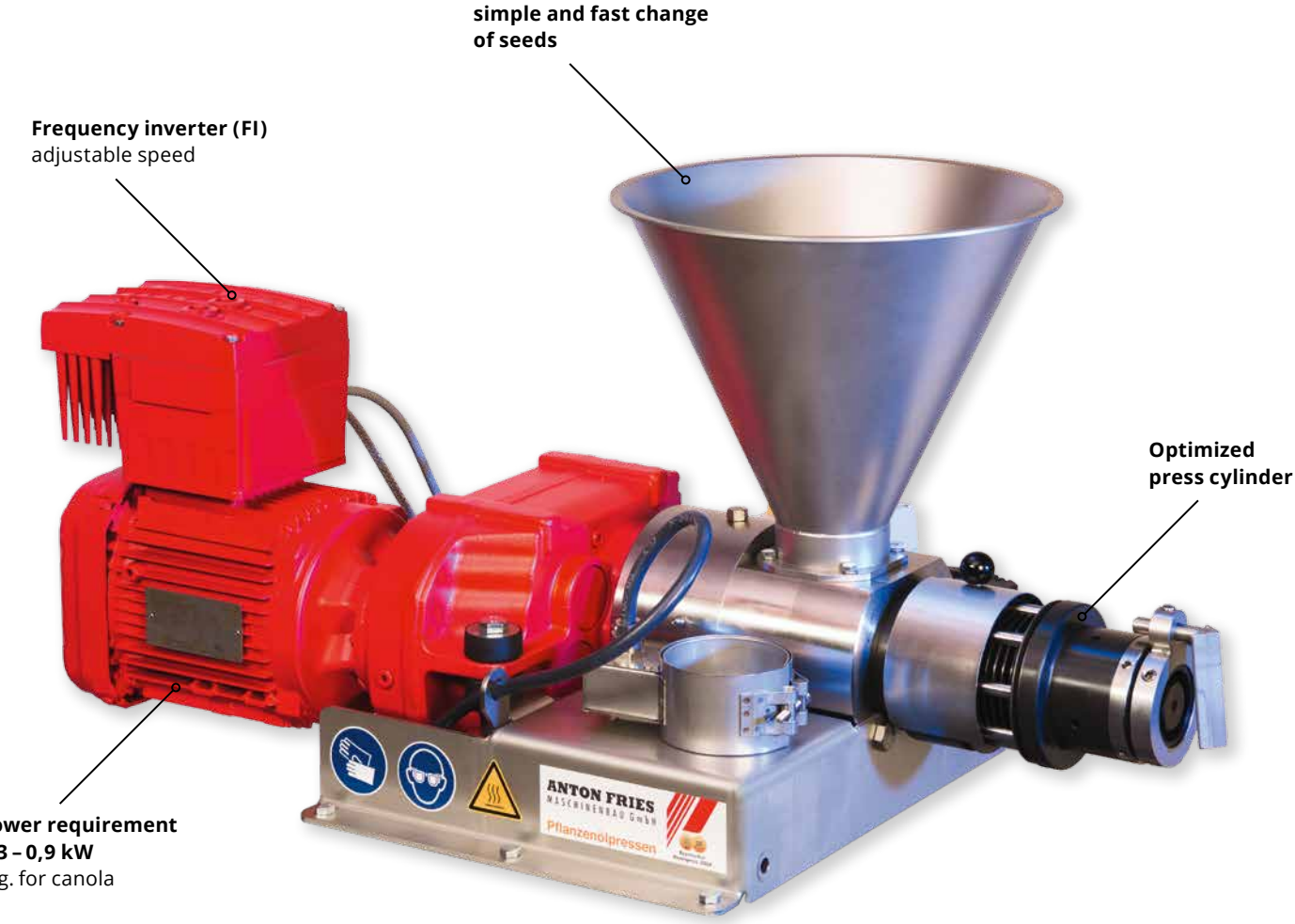
Innovative Technology

The special feature of our oil press with the optimized press cylinder is that the pressed material is conveyed forward loosely in the screw press. The oil is therefore pressed and separated out in the front section of the screw press within a section of approx. 30 – 40 mm. This short de-oiling zone ensures very low level of mixing between the oil and the husks. Therefor only a very small amount of solids, tannins and bitters are present in the pressed oil.

Due to this short de-oiling zone the temperature during the pressing process is kept low. The unique, natural taste and the high quality of the oil with its valuable contents therefore remain unchanged.

performance, depending on type/ bulk weight of the pressed material, and on nozzle size/machine settings, approx.		<b>12 – 30 kg/hour</b>
current type/frequency		<b>50 – 60 Hz</b>
nominal voltage		<b>3 ~ 380 – 500 V</b>
rated electrical output FI/ rated motor output		<b>1,5 kW / 1,1 kW</b>
speed		<b>14 – 95 rpm</b>
dimensions in (l x w x h)		<b>825 x 520 x 440</b>
weight approx.		<b>88 kg</b>

► oil volume, e.g. canola approx. 50.000 – 60.000 litre/year



Subject to modifications without prior notice



Overview of the oil press types

P500R  
+ Option

performance, depending on type/ bulk weight of the pressed material, and on nozzle size/machine settings, approx.	12 – 30 kg/hour
current type/frequency	50 – 60 Hz
nominal voltage	3 ~ 380 – 500 V
rated electrical output FI/ rated motor output	1,5 kW / 1,1 kW
speed	14 – 95 rpm
dimensions in (l x w x h)	825 x 520 x 440
weight approx.	88 kg

► For pressing larger peeled nuts, e.g. walnuts, macadamia nuts, brazil nuts, etc. we offer a hopper stirring device. The nuts are being crushed by the stirring device and automatically fed to the extruder screw. Furthermore, a heating band thermostat is necessary for pressing very oily seeds to keep the pressing temperature on a constant level. Despite the lack of crude fiber and shell parts an optimum oil yield can still be achieved.

Hopper stirring device  
Heating band thermostat

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P240R

performance, depending on type/ bulk weight of the pressed material, and on nozzle size/machine settings, approx.	12 – 30 kg/hour
current type/frequency	50 – 60 Hz
nominal voltage	1 ~ 200 – 240 V
rated electrical output FI/ rated motor output	1,5 kW / 1,1 kW
speed	14 – 95 rpm
dimensions in (l x w x h)	825 x 520 x 440
weight approx.	88 kg

► This type can be used, if no 3-phase power connection is available.

Stainless steel table

Subject to modifications without prior notice

oil press for very hard seeds

P700R

performance, depending on type/ bulk weight of the pressed material, and on nozzle size/machine settings, approx.	6 – 20 kg/hour
current type/frequency	50 – 60 Hz
nominal voltage	3 ~ 380 – 500 V
rated electrical output FI/ rated motor output	4 kW / 3 kW
speed	5 – 27 rpm
dimensions in (l x w x h)	980 x 680 x 480
weight approx.	137 kg

► For pressing very hard seeds such as grape seeds, pomegranate seeds, rosehip seeds, prickly pear seeds, etc.

HIGHEST QUALITY  
IN-HOUSE MANUFACTURING

Subject to modifications without prior notice

Accessories and extensions

Conical hopper attachment  
made of stainless steel  
Ø 300–500 mm  
volume approx. 37 litre  
suitable for all models

Cylindrical hopper attachment  
made of stainless steel  
Ø 500 mm, height 500 mm  
volume approx. 90 litre  
suitable for all models

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Perfection down to the smallest detail

In-house production

Feeding mechanism, frame, heating band and hopper – made of stainless steel – as well as the extruder screw, press head and press cylinder – made of high-quality hardened tool steel – are completely manufactured in our own modern production facilities. The geared motor is produced by the German manufacturer SEW Eurodrive.

Extruder screw

Overload safety device – prevents damage to the machine in case of overload

Magnetic separator (optional) – removes any iron particles present in the filling hopper

Press nozzles in various sizes for different types of seeds

Filling hopper with safety grid and optional magnetic separator

Press cylinder with optimized oil outlet

Filtering without filtering agents

Sediment of turbids

With smaller oil volumes, the oil can be left in a container until the turbid and particulate materials have sunk to the bottom of the container. The clarified oil can then be decanted into a clean container. For larger oil volumes it is possible to use a sedimenter. The turbidities then sediment at the bottom of the funnel tip and can be drained off using the drainage valve.

Processing larg volumes

For very large processing volumes we recommend our chamber filter presses in two different sizes with a frequency controlled pump.  
Connecting one or more sedimenters upstream of the chamber filter press has the advantage of increasing the filter service life.

← Ø 620 mm →  
1.800 mm

Sedimenters for cleaning through sedimentation. To be used individually or in together with a chamber filter press. Weight 54 kg, contents per sedimenter 270 litre

K10

K20

Chamber filter presses		
filter service life in litres	5.000 – 10.000	10.000 – 20.000
filtration per day in litres	500	1.000
number of filter plates	10	20
kind of current/frequency	50 – 60 Hz	50 – 60 Hz
nominal voltage	3 ~ 380 – 500 V	3 ~ 380 – 500 V
rated electrical output	0,37 kW	0,37 kW

Chamber filter press with 10 filter plates (K10)

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