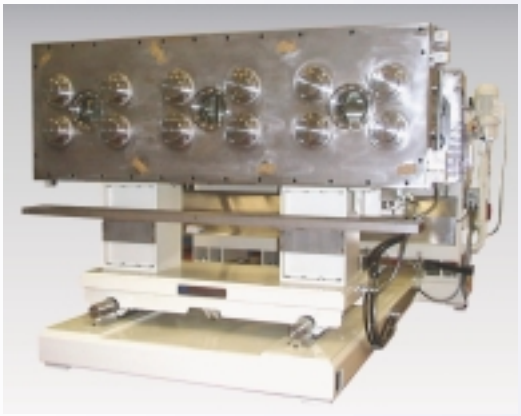
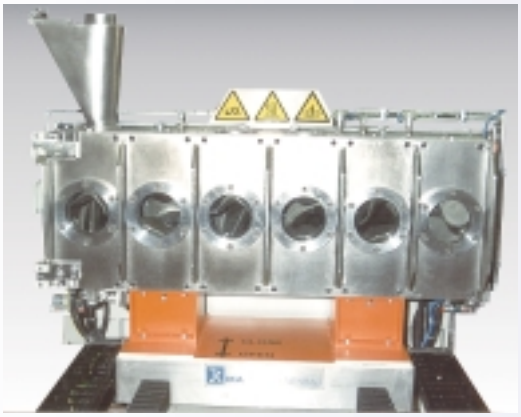
IKA® Continuous Kneading

IKA®

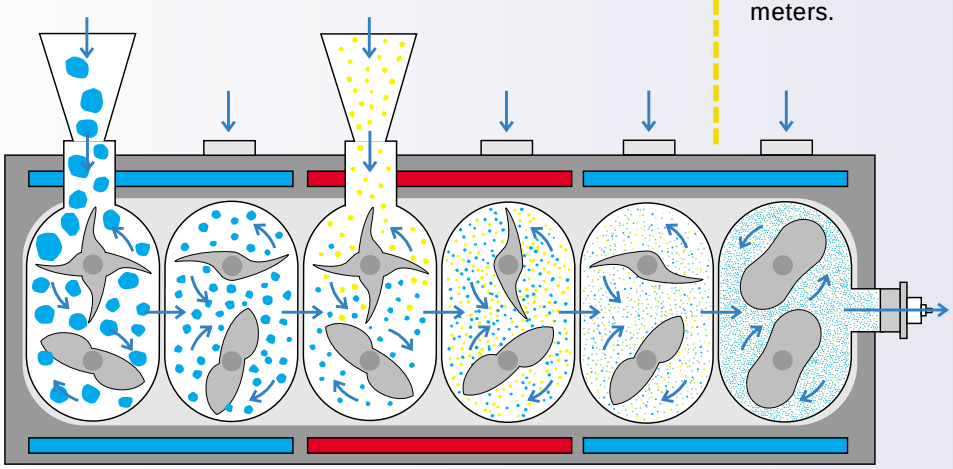
Applications

Rubber masterbatches
Plastics masterbatches
Glues
Sealing masses
Food, animal food
Silicone rubber





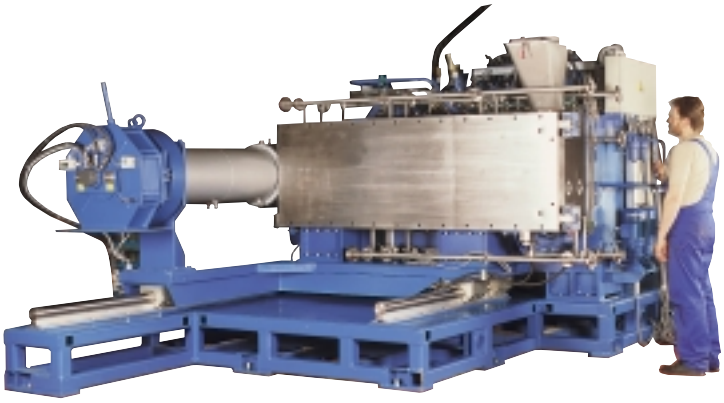
The constructional principle of the CONTERNA allows to arrange as many kneading chambers “in line” as necessary for the respective task.
There is the same variability regarding the geometry of the kneading blades, the execution of the drives of each chamber, the cooling resp. heating possibilities and many other machine parameters.

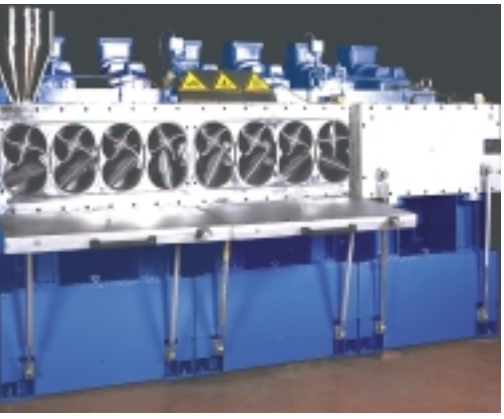


The CONTERNA can replace several former process steps, at reasonably shorter kneading time and improved product quality. The homogeneous repartition of the raw materials in a finished rubber masterbatch has e.g. been much improved compared to the batchwise processing in piston kneaders.

CONTERNA HKC

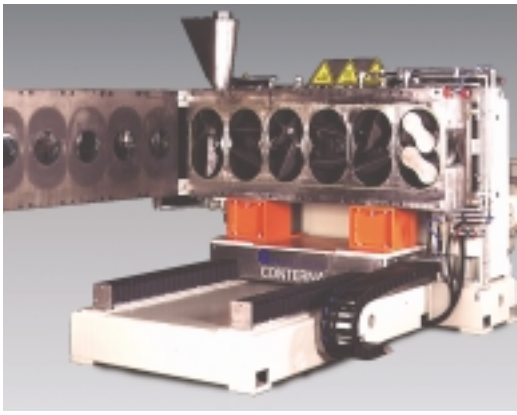
Since already several years the CONTERNA, IKA®'s continuous kneading and extrusion machine, is doing an excellent job in numerous production processes, which in former times could only be managed batchwise at high cost and with a great number of personnel.
There are different industrial branches where this so-called "inline-kneader" gained acceptance as the standard machine within a few years. Great profitability by reduction of kneading times and higher product quality.





An HKC 12/10 with 12 chambers of each 10 l volume for the production of different silicone rubber masses. Due to the increased number of chambers the optimum viscosity can be adjusted at the end of the kneading process.

An HKC 6/2,5 with 6 chambers of each 2,5 l useful volume. This size is especially suited for development of recipes, parameter optimization or as a pilot plant. A machine of this size is available for trials in the pilot plant of the IKA® process equipment division.



HKC 6/50 with 6 chambers of each 50 l useful volume. Up to 1 t/h of rubber-masterbatch is processed in this CONTERNA. All renowned European masterbatch producers changed over to this continuous production process.

Type	Throughput l/h	Drive power per chamber kW	Dimensions, approx. (L x W x H) mm
HKC 6/2,5	10 – 80	1,5	1600 x 1480 x 1600
HKC 6/5	20 – 200	3	1600 x 1550 x 2000
HKC 6/10	70 – 400	5,5	1750 x 1600 x 2600
HKC 6/25	120 – 1000	9,2	2600 x 1900 x 3600
HKC 6/50	200 – 2000	22	3200 x 2200 x 4490
HKC 6/125	500 – 4000	37	4300 x 2950 x 6100

Further sizes on request
Dimensions with hydraulic opening of chamber block and extruder