

HENSCHEL ExtruTec



# xstreamor<sup>®</sup>

The revolution in melt pumps.



More output or less energy consumption?

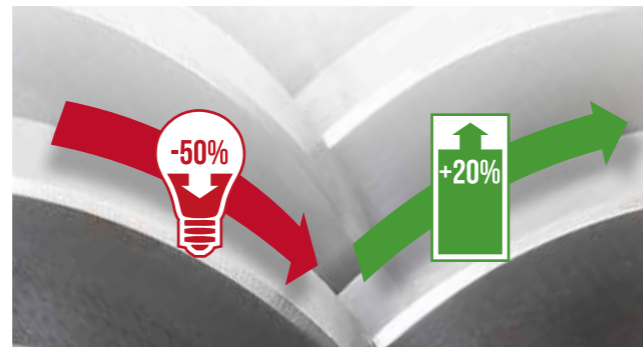
# Why either or?

**Brand new thought: The HENSCHEL melt pump.**  
**Higher throughput. Half the energy consumption.**  
**All the same time.**

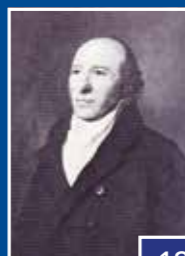
The task of the single or twin screw extruder in the extrusion process is to melt, homogenize, compound and degas the material. When the necessary pressure needed by the attached extrusion tools like nozzles, dies and pelletizers, is too high for an extruder or compounding line, then single screw discharge extruders or gear pumps are used to build-up the needed pressure.

In compounding or extrusion lines, which are primarily designed for high through puts, the polymer is very often worked up to the breaking point.

Unnecessary shearing of the polymer caused by the pressure build-up device damages the product. Another determining factor concerning the product quality is the conveying continuity of the device, building the needed pressure.



With the new Xtreamor® melt pump, developed by HENSCHEL, the pressure build-up happens by specially designed and adjusted to the melt properties, twin screws. The Xtreamor® works with the lowest possible pre pressure due to the design-conditioned forced conveying. So the compounder respectively the extruder is relieved of a lot of workload.



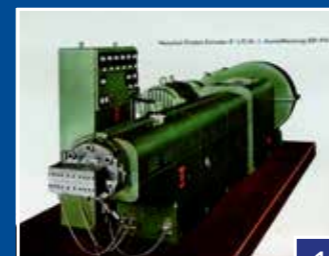
1810 Founding of the company by Georg Christian Carl Henschel (1750-1835).



1918 Drive technology starts production in the Mittelfeld plant.



1933 Manufacturing of the first worm gear-box under license from David Brown Ltd.



1957 The Henschel founding family leaves the company.

1959 Henschel manufactures the Prodex single screw extruder under license as well as mixers for the plastics industry.

1962 Henschel becomes part of a group with the sale of its stocks to Rheinstahl.

1967 The company Rheinstahl Henschel AG operates under Thyssen Henschel AG Henschel.



## The right processing pressure.



The process optimized conveying geometry of the screws ensures continuous and gentle pressure build-up at highest constancy. In doing so only a low pre pressure of 0-2 bar is required.

## But please with a system.



Extreme ease of maintenance and high availability characterize the Xstreamor®. An easy screw change is realized in a short time. The low pre pressure relieves the upstream extruder, reduces wear and increases its lifetime.



## Energy! But not so much.



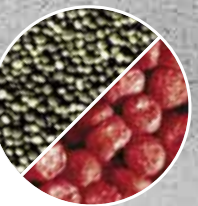
Due to its twin screw design the Xstreamor® consumes less energy than a single screw discharge extruder or a gear pump. The higher savings are caused by relieving of the main extruder which does not have to create a noteworthy pre pressure anymore.

## Get more out of it.



The conveyance ability of the special twin screw design guarantees lowest possible stress and strain of the material. Together with the low pre pressure the output performance of the extruder can be increased significantly.

## The end result: Perfect!



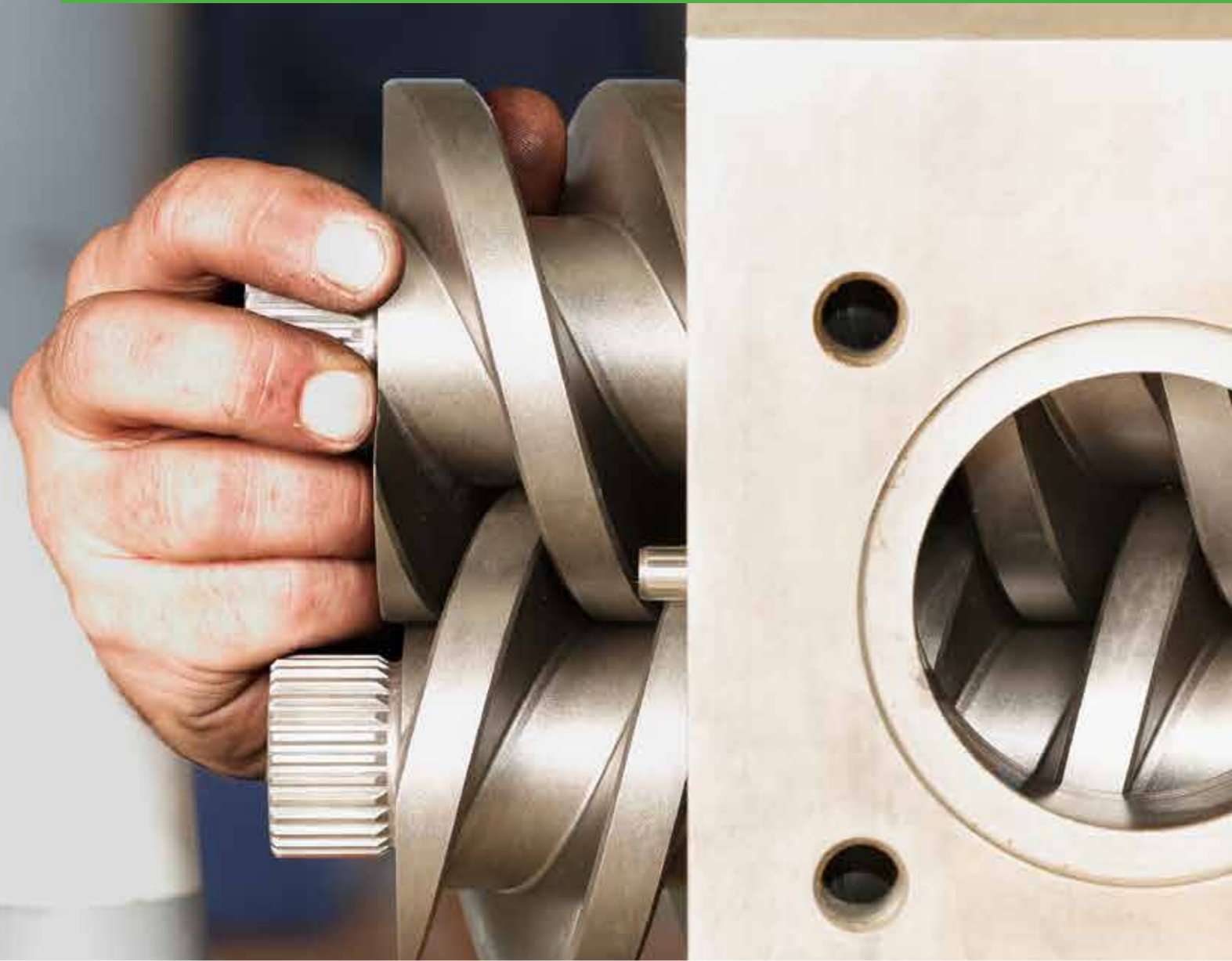
The continuous and careful pressure build-up leads finally to an improved product quality.

Think  
**Xstreamor**®

<p>1972 Henschel develops and produces the first twin screw extruder gearbox.</p>	<p>1981 Consolidation of gearbox manufacturing capacity by merging Thyssen Henschel and Thyssen Getriebe- und Kupplungswerke GmbH.</p>	<p>1996 Thyssen Henschel is converted into independent decentralized product divisions: Magnetic propulsion technology, industrial technology, defense technology, forging technology.</p>	<p>1998 The separate company divisions are transformed into Thyssen Henschel GmbH with independent product divisions for aerospace technology, scrap processing plants, mixers and plants, handling technology, drive technology, boilers, Thyssen Transrapid Systems and Henschel Wehrtechnik GmbH.</p>	<p>2002 Renamed Henschel Industrietechnik GmbH.</p>	<p>2003 The KERO Private Equity Funds acquires Henschel Industrietechnik GmbH from ThyssenKrupp Technologies AG.</p>	<p>2004 Spin-off of HENSCHEL Antriebstechnik GmbH.</p>	<p>2006 Management buy-out of HENSCHEL Antriebstechnik by Matthias Henke and Dr. Jörg W. Kremer.</p>	<p>2009 Founding of HENSCHEL Fertigungstechnik in Heilbad Heiligenstadt.</p>	<p>2010 Founding of HENSCHEL Power Transmission Technology Co., Ltd. in Shanghai, China.</p>
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# Gearbox manufacturing with tradition



## Innovation in-house.

## And this for nearly 100 years.

The time honored company HENSCHEL was founded in the year 1810 in Kassel and started its activities in gearbox production in 1918, parallel with the start of the HENSCHEL automobile production.

HENSCHEL power transmission produced for its own semi and bus production the needed axle gears, transfer gearboxes, gearsets for diesel engines and miscellaneous other gearing parts.

After diesel and electrical powered locomotives became the future of railway transportation in Germany in the beginning of the 60's, we developed and produced axle, transfer and nose-suspension gearboxes for various requirements of locomotives and trams. Up to now our drives are intrinsically tied with the progress of railway technology.

## Innovative in many Branches

Our ideas are trend setting in various areas of the industry, underlined by many patents. Since the production of the first counter-rotating parallel twin shaft extruder gearbox in 1972 HENSCHEL Antriebstechnik became a leading manufacturer of twin screw extruder gearboxes.

## Our Strengths

Our strength is the development of individual solutions for our customers, produced by our company with a highly certificated quality. State of the art technologies, including our in-house heat treatment, are of the utmost importance to us. Being close to our customers, our flexibility, short response times and last but not least the outstanding reliability of our products have assured a leading position of HENSCHEL Antriebstechnik in our part of the industry over decades.



Matthias Henke takes over 100% of the shares of HENSCHEL Antriebstechnik GmbH.

2011

2013

Constitution of HENSCHEL Holding and founding of HENSCHEL ExtruTec GmbH. Market launch of the Xtreamor® melt pump.



Centenary of HENSCHEL Antriebstechnik.

2018



HENSCHEL started its activities in plastic machineries 1959 with the manufacturing of single shaft extruders and plastic mixers under licence of the American company Prodex.

With the acquisition of the extrusion technology of Kestermann by Rheinstahl in 1972, HENSCHEL expands its product range with counter-rotating twin screw extruders. Since that time the power transmission division supports the plastic machinery industry with trend-setting drive solutions. After the sale of the extruder division to Battenfeld/SMS in 1980 HENSCHEL Antriebstechnik emerged as a market leading manufacturer of single and twin screw extruder gearboxes.



# HENSCHEL ExtruTec



Supported by:



on the basis of a decision  
by the German Bundestag



## HENSCHEL ExtruTec GmbH

Henschelplatz 1  
34127 Kassel  
Germany

Phone +49 561 801-6118  
Fax +49 561 801-6711  
E-mail extrutech@henschel.de

## HENSCHEL ExtruTec GmbH

Albert Einstein Str. 1  
37308 Heilbad-Heiligenstadt  
Germany

Phone +49 3606 60736-20  
Fax +49 3606 60736-29  
E-mail extrutech@henschel.de

[www.henschel.de](http://www.henschel.de)