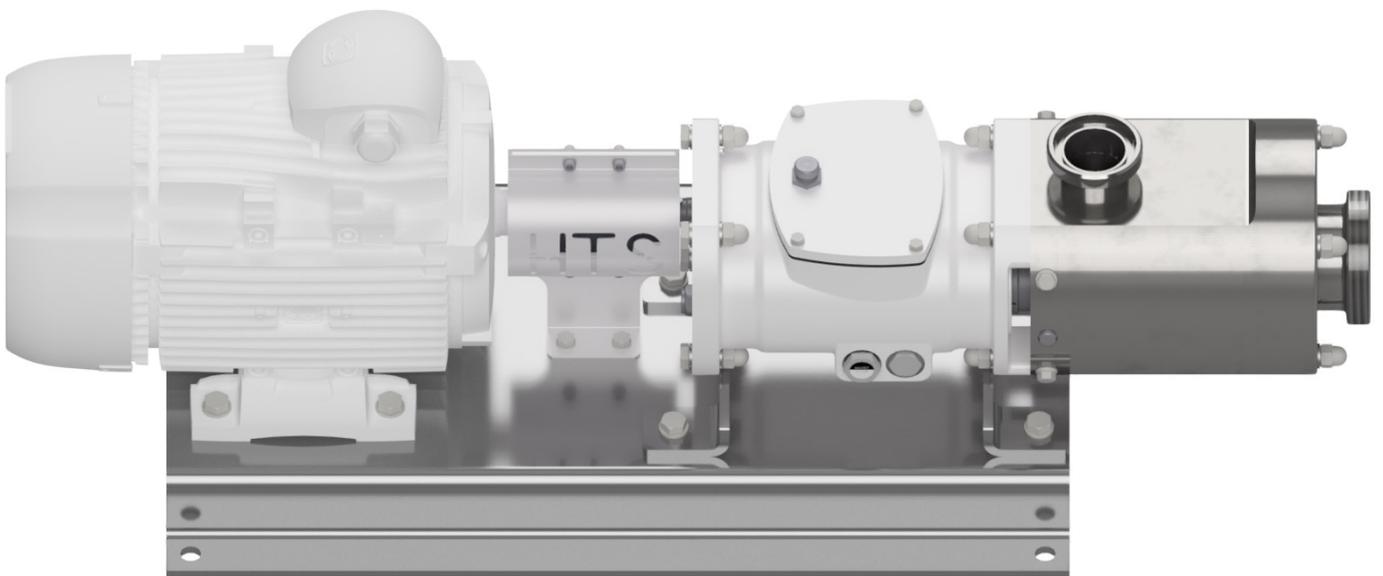




OUR POWER, YOUR SATISFACTION



RAPTOR SERIES

Sanitary pumps

HTS series



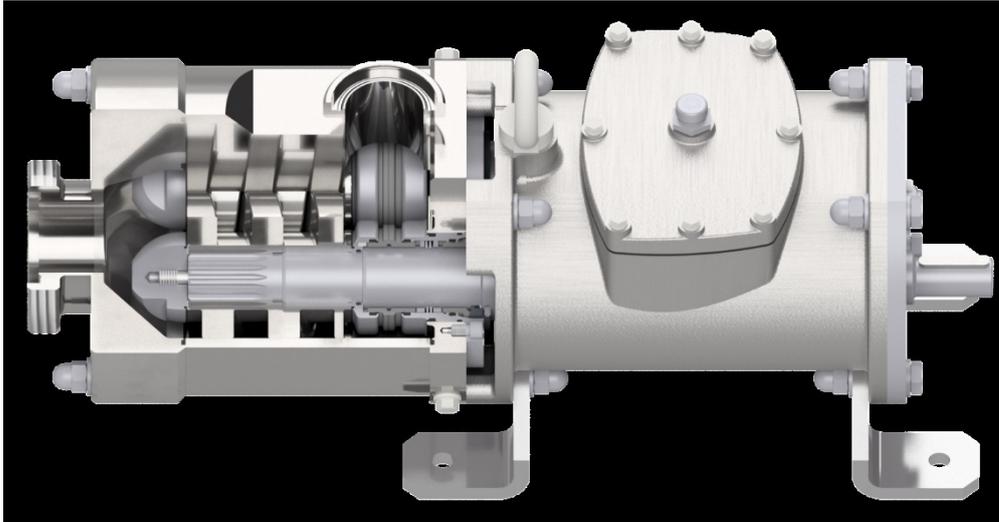
HTS Hygienic Twin Screw Series

The HTS it's the new state of the art of hygienic twin screw technology. Designed to achieve the maximum level of sanitation for food and pharmaceutical market.

We are proud for the extremely tough design of our product thanks to oversized shaft and bearing dimensions.

The main features of the twin screw pumps are:

- Gentle treatment and low pulsations do to axial conveying of product
- High suction capability with low NPSHr values
- The rotors and pump casing are not in contact: dry running are possibile (with flushed seals)
- CIP and process with only one (1) pump
- High pressure and high flow rate with a very compact pump
- Suitable for very viscous liquids (up to 1.000.000cps)
- Suitable to handle solids and/or abrasive products
- Easy and quick maintenance

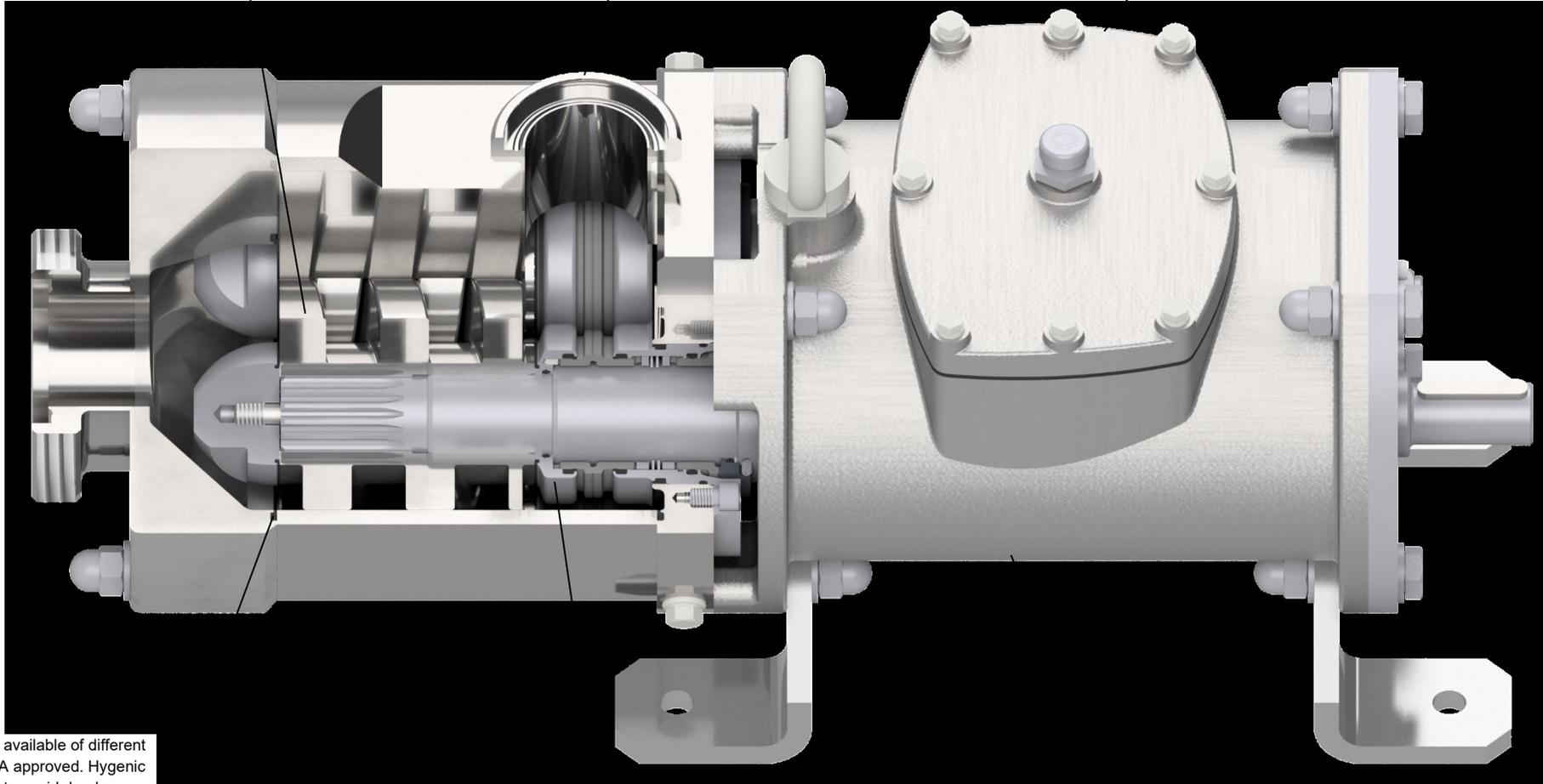


Detailed characteristics

Dynamically balanced Rotors for high speed.
Hardened for abrasive product.
Different pitches allow different flow rates,
pressure and solid handling.

Wide range of fitting standards are available:
DIN 11851, DIN 11864 or Clamp ISO, ASME
and other upon request

Inspection port for easy and quick
maintenance check



Gasket available of different
elastomers FDA approved. Hygienic
Design to avoid dead zones

316L Casing material.
Screw casing hardening it's optional for very abrasive products.
Low clearance to improve the suction capability.
Smooth design and wetted part surfaces with $Ra < 0.8 \mu m$

Special Hygienic mechanical seal design:
single or double acting, depending on the application.
Possible to change from single to double with a rebuilt
kit, thanks to the modular design of the seals.
Special "knife edge" option for abrasive product
available

Standard Stainless-Steel gear casing.
Extremely tough with smooth design to avoid pocket.
Allow the installation of 1 radial bearing and 4 angular
bearing per shaft, permit max pressure load at both
sense of rotation

VERSION AND OPTION

Casing material

Base materials:

AISI 316

Heat treatments:

Kolsterising, Expanite (for screw casing)

Materials of the sealing shaft

Base materials:

AISI 630

Duplex (F51) or Superduplex (F55) on request

Rotor materials

Base materials:

AISI 316

Duplex (F51) or Superduplex (F55) on request

Heat treatments:

Kolsterising, Expanite

Gasket materials

Base materials:

H-NBR

EPDM

FPM

FFPM

Base plates

standard Baseplate

standard Baseplate with 3-A adjustable feet

Hygenic Base frame (meets hygenic recommendations)

Connections

DIN 11851

DIN 11864-1 / DIN 11864-2 / DIN 11864-3

Clamp ISO 2852, Clamp ASME-3A, Clamp DIN 32676

RJT

SMS 1145

Macon

Sealing system

Single acting Hygenic balanced mechanical seal (Special design)

Double acting Hygenic balanced mechanical seal (Special design)

Control devices

Control panel

Control panel with inverter

Drive with integrated inverter

Equipment and optional

Heating jacket

Quench Pot flushing

Drive Cover

Certifications

CE

(EHDG and 3-A certifications on development)

FEATURES OF USE

Operating range

Flow

Up to 160m³/h

Pressure

Up to 25bar

Temperature

from -40°C until to 150°C

Typical applications

Milk and Dairy



Bakery



Beverages



Cosmetic and pharmacy



Breweries



Tomato industry

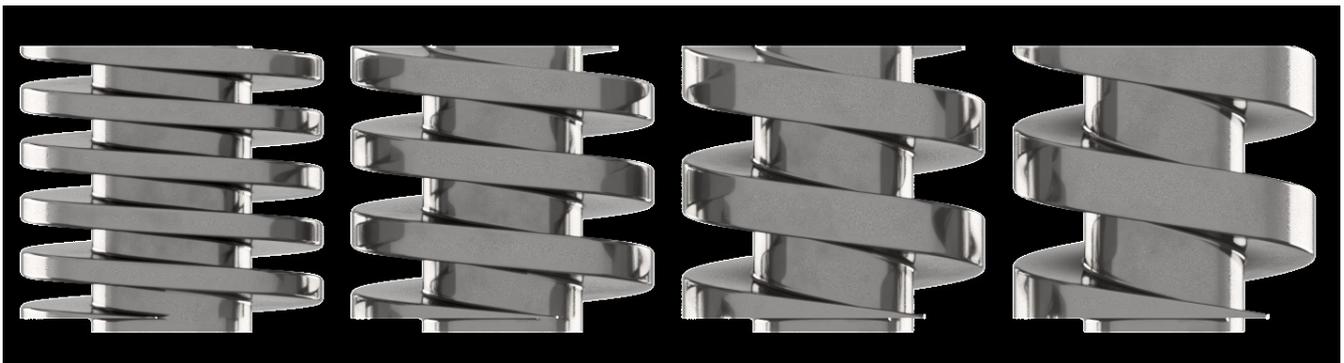


TABLE OF MODELS

Flow and pressure

Size	Model	Rotation	Max temperature [bar]	Max Flow rate [m ³ /h] *	Max rpm	Max Pressure [bar]
HTS 2	2-1	CW and CCW	130°C for product 140°C for Cleaning (more on request)	Up to 20	3600	25
	2-2					
	2-3					
	2-4					
HTS 4	4-1	CW and CCW	130°C for product 140°C for Cleaning (more on request)	Up to 40	3600	25
	4-2					
	4-3					
	4-4					
HTS 6	6-1	CW and CCW	130°C for product 140°C for Cleaning (more on request)	Up to 90	3600	25
	6-2					
	6-3					
	6-4					
HTS 8	8-1	CW and CCW	130°C for product 140°C for Cleaning (more on request)	Up to 160	3000	25
	8-2					
	8-3					
	8-4					

***Based on largest Pitch**





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ISO 9001: 2008
No.:2011/1353



OHSAS 18001:2007
No.:2010/915



CEC 07 ATEX 110 - REV.1