



## Tomato Industry – Product Integrity & Pump Reliability

A longstanding problem in the tomato industry has been pumps failing in mid-season due to excessive wear. Several years ago, one of the world’s largest tomato manufacturers decided to replace some of their External Circumferential Piston (ECP) lobe pumps with ITT Bornemann SLH-4G pumps. After pumping diced tomatoes for four seasons, no SLH-4G pump had a single issue with wear—while the other original pumps had to be rebuilt twice.

Tomato products, especially diced tomatoes, must be handled gently during the manufacturing process. A lobe pump can cause product degradation, as shearing occurs when the tomatoes flow through the pump. The SLH-4G twin screw pump provided smooth flow with no pulsation, preserving product integrity.

Following this success, the SLH-4G is now being trialed in the manufacturer’s organic diced operation, where pump life and reliability are even more critical. An additional advantage with these pumps is the fact that EHEDG Aseptic certification comes standard, regardless of size, whereas competitors routinely charge a hefty premium.



*Tomatoes can be transported gently and with far less wear to components when twin screw pumps are used.*

### The ITT Impact

With ITT Bornemann, the excessive pump wear that a tomato manufacturer had been experiencing is now solved.

### About ITT Bornemann

Bornemann introduced the SLH pump to the Food and Pharmaceutical industries in 2004. The design was based on 150 years of twin screw pump technology aligned to the special hygienic needs of Food, Pharmaceutical, and Chemical processes. Today, ITT Bornemann serves hygienic and sanitary applications with seven series of modular pumps, complete with mechanical, electrical and control systems. All are EHEDG and EHEDG Aseptic approved, comply with 3A Sanitary standards and meet many other international standards. With 50 different pump hydraulics, 500 design options and more than 10,000 installed pumps worldwide, ITT Bornemann – The Original – is the undisputed world leader in hygienic twin screw pump technology.

Application Data	
Capacity:	25 m <sup>3</sup> /h (110 gal/min)
Differential pressure:	10 bar (145 psi)
Viscosity:	7.000 cst

Pump Execution	
Pump Type:	SLH-4G 6000
Mechanical Seal:	Dual Mechanical Seal
Material:	Diffusion Hardened