

# The benefits provided by



## TOTAL nevastane H1 LUBRICANTS WAS DEVELOPED TO MEET THE SAFETY REQUIREMENTS OF MAJOR AGRIBUSINESS PLAYERS

FOOD INDUSTRY LEADING STANDARDS FOR QUALITY, HYGIENE AND TRACABILITY, OUR NSF CERTIFICATIONS ARE:



Nonfood Compounds Program Listed H1 ISO 21469 Certified

- **NSF H1** : Registered formulas incidental food contact possible.
- **NSF ISO 21469** : Certified factories. All production is therefore carefully monitored and audited to guarantee the highest levels of safety:
  - Formulating review.
  - Product testing.
  - Traceability and verifications.
  - Annual independent audit of our facility and products.

TOTAL NEVASTANE also Guarantees:



## TOTAL LUBRICANTS, GIVING YOU THAT EXTRA SUPPORT!

### TECHNICAL ASSISTANCE

Present in more than **120 countries**, our experts are always by your side ready to support you:

- On-site audits.**
- Identify the Critical Lubrication Points (HACCP).**
- Rationalization, TCO approach.**
- Product recommendations, optimizations, best practices for usage and storage.**
- On-site training.**

### OPTIMIZED MAINTENANCE SOFTWARE FOR YOUR LUBRICANTS

Based on the expertise of our engineers, **TIG 6** enables you to:

- Increase efficiency** and savings of your maintenance operations.
- Guarantee Quality and Safety** through documentation management and tracking of critical points.
- Monitor your lubricant analysis and parameters** with one single tool.

### TOTAL ANAC INDUS

With **TOTAL ANAC INDUS**, our preventive and corrective oil analysis solution, you can:

- Reduce your operating costs.**
- Anticipate** and plan maintenance operations to **perform them** at the best time.
- Optimize drain intervals and extend** the lifetime of your machines.
- Improve the reliability and performance** of your equipment.

### A major player

With our production, supply chain and commercial presence in more than 150 countries, we deliver a full range of lubricants.

### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total cost of Ownership.

### References & OEMs

TOTAL Lubricants cooperates with equipment manufacturers to create high-technology products for optimal performance and protection of your machinery.



### Innovation & Research

TOTAL invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

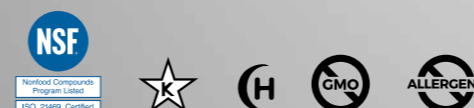
### Quality and environment

TOTAL Lubricants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.

Safety Data Sheets are available at [quickfds.com](http://quickfds.com)  
[lubricants.total.com](http://lubricants.total.com)



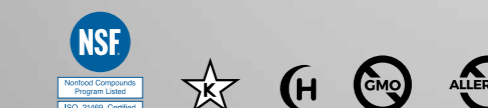
# Fruit & vegetable processing



# WITH MORE THAN 50 YEARS OF EXPERIENCE,

Our teams are committed to helping you get more from your equipment for optimum reliability, especially during harvest.

## GRASP YOUR INDUSTRIAL PERFORMANCE.



11/2018 - TOTAL Lubricants SA 552 036 454 RCS Nanterre - Design: MANTOBA  
Photos: Adobe Stock - iStock - Process: Analogue, Médiahaque, L'Atelier - Ignis Ganer.

## Your challenges

- **Guarantee your equipment** is reliable and always available, especially during harvest.
- Use state of the art lubricants to **extend equipment lifetime** and reduce shutdowns.
- Maximize **food safety** by following **HACCP** best practices and using **NSF H1** products.
- Find an **experienced lubricant partner** to rationalize and optimize your process.

## Our solutions

- **Efficient in every food processing application**, the TOTAL NEVASTANE range protects your equipment however severe the conditions are, including presence of juices residues and changing temperatures.
- A full range of **NSF H1** registered lubricants adapted to the possibility of incidental contact with food.
- International network of subsidiaries ensuring **local and technical support**, and a robust **supply chain** that maximizes worldwide product availability.
- Total is an **experienced multispecialist** able to offer a large range of specialized lubricants.



**FARMING EQUIPMENTS**

Engine oils:  
**TOTAL RUBIA WORKS**

Transmissions:  
**DYNATRANS**

Hydraulics:  
**EQUIVIS RANGE**

Coolants:  
**COOLELF / GLACELF**

Greases:  
**MULTIS EP**  
**MULTIS COMPLEX HV2 MOLY**  
**CERAN XM**

**SORTING & WASHING**

Bearings:  
**TOTAL NEVASTANE HD2T**  
**TOTAL NEVASTANE XS 220**  
**TOTAL NEVASTANE MP 1.5**

Gearboxes:  
**TOTAL NEVASTANE EP**  
**TOTAL NEVASTANE XSH**

**PREPARATION & TRIMMING**

Bearings:  
**TOTAL NEVASTANE HD2T**  
**TOTAL NEVASTANE XS 220**  
**TOTAL NEVASTANE MP 1.5**

Gearboxes:  
**TOTAL NEVASTANE EP**  
**TOTAL NEVASTANE XSH**

**BLANCHING**

Bearings:  
**TOTAL NEVASTANE HD2T**  
**TOTAL NEVASTANE XS 220**  
**TOTAL NEVASTANE MP 1.5**

**FILLING**

Bearings:  
**TOTAL NEVASTANE XMF**  
**TOTAL NEVASTANE XS 220**  
**TOTAL NEVASTANE HD2T**

**SEAMING**

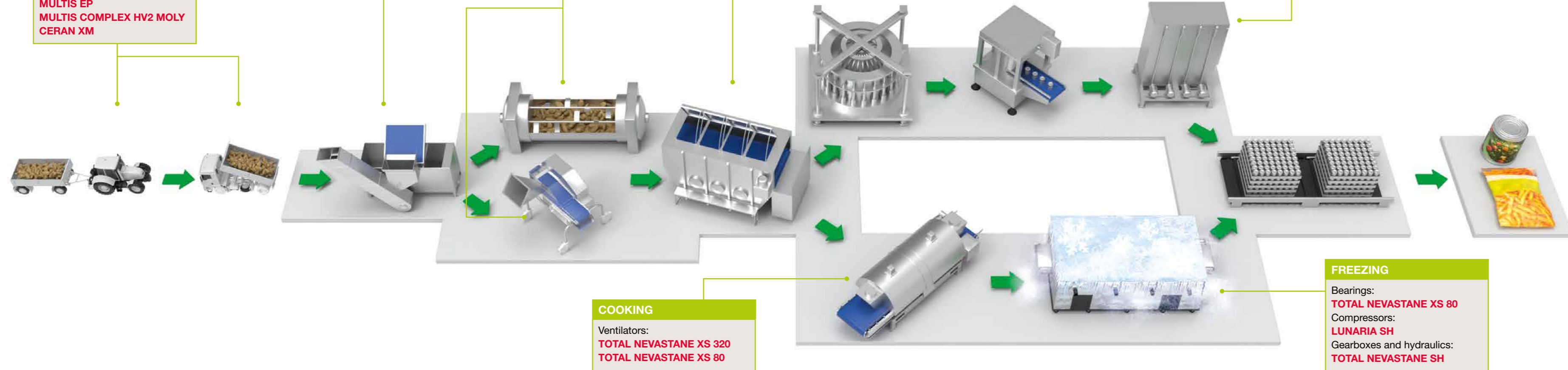
Bearings: (seaming)  
**TOTAL NEVASTANE XMF**  
**TOTAL NEVASTANE XS 220**  
**TOTAL NEVASTANE XS 80**

Gears:  
**TOTAL NEVASTANE EP**  
**TOTAL NEVASTANE SH**  
**TOTAL NEVASTANE XSH**

**STERILIZING**

Bearings:  
**TOTAL NEVASTANE XS 320**

Gearboxes:  
**TOTAL NEVASTANE EP**  
**TOTAL NEVASTANE XSH**  
**TOTAL NEVASTANE SY**



**COOKING**

Ventilators:  
**TOTAL NEVASTANE XS 320**  
**TOTAL NEVASTANE XS 80**

**FREEZING**

Bearings:  
**TOTAL NEVASTANE XS 80**

Compressors:  
**LUNARIA SH**

Gearboxes and hydraulics:  
**TOTAL NEVASTANE SH**

### GREASES:

Products	Applications	Thickener	Temperature range	Humidity resistance	Washout resistance	Extreme pressure properties	Specific advantages
<b>TOTAL NEVASTANE XMF</b>	<b>Seaming</b>	Aluminium complex	-20°C to +150°C	2	2	2	Extreme pressure and multipurpose grease.
<b>TOTAL NEVASTANE HD2T</b>	<b>Trimming</b>	Aluminium complex	-20°C to +150°C	2	2	2	Excellent adhesiveness. Contains PTFE additives.
<b>TOTAL NEVASTANE XS 320</b>	<b>Sterilizing, cooking</b>	Calcium sulfonate complex	-40°C to +180°C	3	2	3	Extreme Pressure performances over a wide range of temperatures. Slow and medium motion. Excellent water resistance.
<b>TOTAL NEVASTANE XS 80</b>	<b>Freezing and fans</b>	Calcium sulfonate complex	-55°C to +180°C	3	2	2	High performances at high speed or at very low temperatures.

### OILS:

Products	Applications	Base oil	ISO VG	Specific advantages
<b>TOTAL NEVASTANE XSH</b>	<b>Gears</b>	PAO synthetic	150 to 460	High loads and extension of oil drain intervals.
<b>TOTAL NEVASTANE EP</b>	<b>Gears Seamers</b>	Semi-synthetic	100 to 1000	Extreme pressure. Adapted to a wide range of applications.
<b>TOTAL NEVASTANE AW</b>	<b>Hydraulics</b>	White oil	22 to 68	Excellent anti-wear and corrosion protection.
<b>TOTAL NEVASTANE SH</b>	<b>Hydraulics</b>	PAO synthetic	32 to 100	Excellent hydraulic systems protection especially at low temperature conditions.
<b>LUNARIA SH</b>	<b>Compressor</b>	PAO synthetic	100 to 1000	Refrigerating compressor oil that have been designed specifically for food industry, using NH3/ammonia. Evaporator temperature down to -50°C.

### DEDICATED OILS

- **TOTAL NEVASTANE EP:** Semi-synthetic oil for **gears and bearings**, adapted to a wide range of applications. Excellent extreme pressure properties and widely use in canning industry as **seamer oil**. NSF H1 certified.
- **TOTAL NEVASTANE XSH:** PAO synthetic oil for **gears and bearings**, adapted to high loads and wide temperature range. Extension of oil drain intervals. NSF H1 certified.
- **TOTAL NEVASTANE SY:** PAG synthetic oil for **gears**, reduce operating temperatures due to low friction coefficient. Resistant to severe temperature conditions and high loads. NSF H1 certified.
- **TOTAL NEVASTANE AW:** White mineral oil for **hydraulic systems**. Excellent anti-wear and corrosion protection. NSF H1 certified.
- **TOTAL NEVASTANE SH:** PAO synthetic oil, excellent **hydraulic systems** protection especially at low temperature conditions. High viscosity index. NSF H1 certified.
- **EQUIVIS ZS:** Mineral oil for **hydraulic systems** operating outdoors. Extension of oil drain intervals due to a very good thermal stability and resistance to oxidation.
- **AZOLLA ZS:** Mineral oil for **hydraulic systems** adapted to a wide range of application. Reinforced protection of the equipment thanks to anti-wear and anti-corrosion properties.

### SPECIAL GREASES

- **MULTIS EP2:** Multipurpose grease, with excellent extreme pressure properties. Enable to rationalize stocks and simplify maintenance operations.
- **TOTAL NEVASTANE XMF:** Multipurpose extreme pressure grease, suitable for high to medium speed bearings in food processing industry. Provides excellent corrosion protection and water resistance. NSF H1 certified.
- **TOTAL NEVASTANE HD2T:** Multipurpose tacky grease with excellent adhesiveness particularly on metallic surfaces. Excellent washout resistance, contains PTFE additives. Developed especially for food processing. NSF H1 certified.
- **TOTAL NEVASTANE XS 220-320:** Multipurpose grease, extreme pressure and very high performances synthetic grease for application in food processing industry over a wide range of temperatures. Excellent water resistance, long service life. NSF H1 certified.
- **ALTIS EM2:** Polyurea grease, high performance suited for high speed bearings and high temperature applications such as electric motors.
- **TOTAL NEVASTANE XS 80:** Synthetic grease, extreme pressure very high performances synthetic grease for high speed and very low temperatures applications in food processing industry such as electric motors and fans. NSF H1 certified.
- **TOTAL NEVASTANE XM 100:** Multipurpose grease for lubrication under severe conditions and high speed applications. NSF H1 certified.

### SPECIFIC PRODUCTS

- **LUNARIA SH:** Refrigerating compressor synthetic oil that have been designed specifically for food industry, using NH3/ammonia. Evaporator temperature down to -50°C. NSF H1 certified.
- **LUNARIA NH:** Refrigerating compressor mineral oil, using NH3/ammonia. Evaporator temperature down to -30°C.
- **PV SH 100:** Semi-synthetic oil for **vaccum pumps**, suitable for incidental food contact. NSF H1 certified.
- **LUBRICANTS AEROSOL:** oils, greases, silicone,... NSF H1 certified.

**Food industry requires state-of-the-art lubricants,** able to deliver high performance under extreme field conditions.

Beyond the performance of our lubricants. Total Nevastane has been developed to comply and exceed the highest requirements of food safety.

**Food safety: No worries !**

