

**N**atoli Engineering, founded in 1973, is the primary source of tablet compression tooling, presses, parts, accessories and hands-on training for hundreds of pharmaceutical, nutritional, confectionary and industrial tablet manufacturers throughout the world.

Natoli has created this catalog in support of the tablet compression industry. The color-coded sections are filled with an assortment of quality products to meet a variety of set-up, inspection and maintenance needs. Please reference the index located in the back of the catalog to locate specific items. Orders of any size and type are welcome, including special requests and custom requirements. All of the products listed in this catalog are available for shipment worldwide.

No matter what your tablet compression needs are, we look forward to helping your business succeed.

Natoli Engineering... You demand. We deliver.



***LUBRICATION***





Proper lubrication is essential for maximizing the performance of your tablet press, press parts and compression tooling. Look to Natoli for all your lubrication needs. Natoli stocks an assortment of synthetic food grade and nonfood grade FDA-approved lubricants for application above or below the tablet press compression zone. Natoli also carries an FDA-approved lubricant that is specially formulated for auto-lube systems. Several lubricant applicators as well as a helpful tablet press and punch lubrication guide are located at the end of the section.



# Synthetic Food Grade Lubricants

## Abbreviations Key

- ◆ MSDS = Material Safety Data Sheets
- ◆ CFR = Code of Federal Regulations
- ◆ FDA = Food and Drug Administration
- ◆ USDA = US Department of Agriculture
- ◆ NLGI = National Lubricating Grease Institute
- ◆ SAE = Society of Automotive Engineers
- ◆ ISO = International Organization for Standardization
- ◆ TLR = Timken Load Rating (Indicates wear-protection)
- ◆ H-1 = Food Grade Lubricant
- ◆ PTFE = Polytetrafluoroethylene (Teflon)
- ◆ MPGM = Multi-Purpose Grease with Moly
- ◆ MIL = Military
- ◆ °F = Degrees Fahrenheit
- ◆ PSI = Pounds per Square Inch
- ◆ lb = Pound
- ◆ oz = Ounce
- ◆ kg = Kilogram
- ◆ g = Gram
- ◆ L = Liter
- ◆ ml = Milliliter

## Regulation Compliance Key

*The following part numbers meet requirements in accordance with:*

- ◆ SU 2508 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2512 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2515 – 29 CFR 1910.1200
- ◆ SU 2516 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2518 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2522 – 21 CFR 172.878, 178.3620(a), finished product with 21 CFR 178.3570 for incidental food contact
- ◆ SU 2525 – FDA 21 CFR 178.3570 for incidental food contact
- ◆ SU 2527 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2530 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2531 – Exceeds US Steel 352 spec., Cat MPGM spec., MIL-G-234C spec., Case-1H251H spec., John Deere spec., Ford-M1693A spec., GM spec., Chrysler spec.
- ◆ SU 2533 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680
- ◆ SU 2537 – USDA, FDA H-1, 21 CFR 178.3620(b)(1)
- ◆ SU 2545 – USDA, FDA H-1, 21 CFR 178.3570, 178.3620(b), 573.680

## All Natoli Food Grade Lubricants are premium quality and meet or exceed USDA H-1 Requirements and FDA Regulations.

- ◆ Apply as directed to inhibit oxidation, rust and wear on machinery and tooling
- ◆ Use with all processing equipment requiring H-1 lubrication, such as tablet presses, packaging equipment, mixing and blending equipment, etc.
- ◆ Refer to instructional lubrication chart on page 59
- ◆ MSDS provided with each product



### H-1 Barrel Lube with PTFE

- ◆ SAE 10
- ◆ Manual application required
- ◆ Not for auto-lube systems
- ◆ Use on punch barrels
- ◆ 65 lb TLR

Part No.	Item Description
SU 2521	16 oz (453g) aerosol can
SU 2525	16 oz (473ml) pump



## **H-1 Barrel Lube AL**

- ◆ SAE 10, ISO 32
- ◆ Specially formulated for punch barrel auto-lube systems

<b>Part No.</b>	<b>Item Description</b>
SU 2530	1 Gallon (3.8L)



## **H-1 White Mineral Oil**

- ◆ For use on punch barrels
- ◆ Inhibits rust, oxidation and wear

<b>Part No.</b>	<b>Item Description</b>
SU 2527	1 Gallon (3.8L)



## **H-1 General Purpose Synthetic Machine Gear Oil**

- ◆ SAE 90, ISO 220
- ◆ For use in gear boxes
- ◆ Compatible with all types of seals and coatings
- ◆ Reduces deposit formation
- ◆ 50 lb TLR

<b>Part No.</b>	<b>Item Description</b>
SU 2533	5 Gallon (18.9L) drum with pull-out spout

# Synthetic Food Grade Lubricants



## **H-1 Tooling Storage Protectant**

- ◆ SAE 30, ISO 100
- ◆ Ideal for long-term tooling storage
- ◆ Prevents corrosion and discoloration of tools
- ◆ Easy to remove

Part No.	Item Description
SU 2545	1 Gallon (3.8L)



## **H-1 NLGI Grade #2 Grease**

- ◆ For use on punch heads, pressure rolls, cam tracks or any process requiring a food grade grease
- ◆ High melting-point, anti-wear PTFE base
- ◆ Fortified with Microshield®
- ◆ 50 lb TLR

Part No.	Item Description
SU 2508	14 oz (414ml) can
SU 2512	7 lb (3.17kg) can
SU 2516	40 lb (18.14kg) drum
SU 2518	14 oz (414ml) cartridge



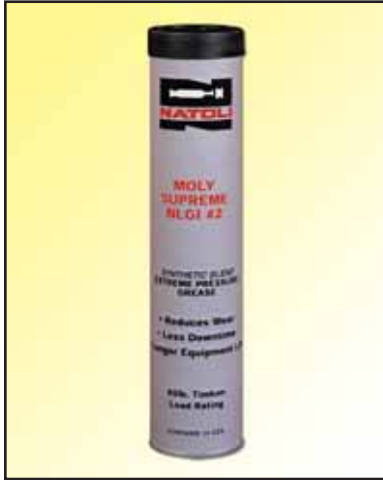
## **H-1 Pharma-Blend Hydraulic Oil**

- ◆ ISO 46
- ◆ All natural and non-toxic
- ◆ Stable from 0 – 470° F

Part No.	Item Description
SU 2537	1 Gallon (3.8L)

**All premium quality Natoli Nonfood Grade Lubricants will reduce machinery and tooling wear, even under the most extreme pressures.**

- ◆ For use in areas NOT requiring food grade lubrication



### **NLGI Grade #2 Moly Supreme Heavy-Duty Grease**

- ◆ Use on variable speed pulleys, drive shafts, worm gears, weight cam gear boxes or any area below the tablet compression zone
- ◆ Blended from 100% pure paraffin base oils and the finest quality synthetic stocks
- ◆ 65 lb TLR

Part No.	Item Description
SU 2531	14 oz (414ml) cartridge



### **Industrial EP Spindle & Gear Oil**

- ◆ SAE 90
- ◆ Non-foaming
- ◆ Anti-wear

Part No.	Item Description
SU 2515	1/2 Gallon (1.9L)

# Lubricant Applicators

## Lubricant Applicators

*Natoli now offers paint-free lubricant applicators.*



### Pistol-Grip Pump Lubricator

The Pistol-Grip Pump Lubricator features an aluminum diecast body, 5.5" brass spout and dual pumps that allow one-handed application from any angle, even when nearly empty.

Part No.	Item Description
SU 2550	Pistol-Grip Pump Lubricator – 10 oz (295ml)



### Heavy-Duty Grease Gun

The heavy-duty, lever action grease gun features a rugged cast iron head with versatile three-way loading and is capable of delivering up to 10,000 PSI. A flexible 12" hose and coupler are included to allow easy access to hard-to-reach areas.

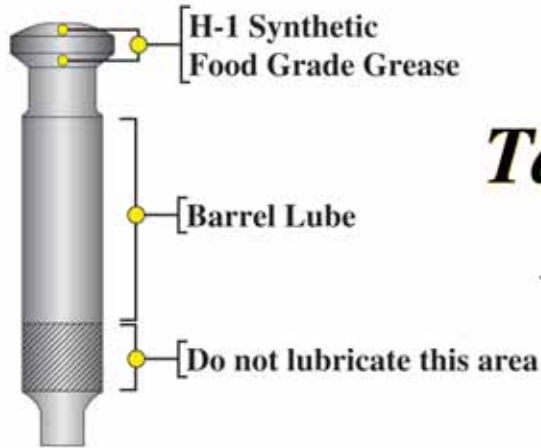
Part No.	Item Description
SU 2547	Zinc-Plated Grease Gun
SU 2548	12" Hose and Coupler only



### Heavy-Duty Oil Zerk Gun

To properly maintain and lubricate Manesty Presses, an oil zerk gun is a must. This gun is capable of exerting 1800 PSI and fits a DIN 71412 zerk nipple. A flexible 12" hose and coupler are included to allow easy access to hard-to-reach areas.

Part No.	Item Description
SU 2552	Oil Zerk Gun – 26 oz (769ml)
SU 2553	12" Hose and Coupler only



# Tablet Press & Punch Lubrication Guide



### Punch Barrels

- ◆ H-1 Barrel Lube with PTFE
- ◆ H-1 Barrel Lube AL
- ◆ H-1 White Mineral Oil

### Upper Pressure Rolls

- ◆ H-1 NLGI Grade #2 Grease
- ◆ H-1 General Purpose Synthetic Machine Gear Oil

### Cam Tracks & Punch Heads

- ◆ H-1 NLGI Grade #2 Grease

### Lower Pressure Rolls

- ◆ H-1 NLGI Grade #2 Grease
- ◆ H-1 General Purpose Synthetic Machine Gear Oil
- ◆ NLGI Grade #2 Moly Supreme Heavy Duty Grease

### Gear Box

- ◆ H-1 General Purpose Synthetic Machine Gear Oil

### Nonfood Grade Lubricants

- ◆ NLGI Grade #2 Moly Supreme Heavy Duty Grease
- ◆ Industrial EP Spindle & Gear Oil

### Hydraulic Systems

- ◆ H-1 Pharma-Blend Food Grade Hydraulic Oil

