# TRIM™ DRIVE G81 NXT

***Premium Cutting Fluid for HDD Manufacturing***

TRIM DRIVE G81 NXT is a specialized, chlorine-free, moderate to heavy duty metal cutting fluid formulated to meet the high-precision machining and stringent chemical restrictions of the Hard Disk Drive (HDD) industry. TRIM DRIVE G81 NXT has very good wetting and lubricity giving excellent surface finishes. Its ease of washability makes TRIM DRIVE G81 NXT an excellent choice for HDD components manufacturers. TRIM DRIVE G81 NXT will run in high-pressure situations with little to no foam.

## *DRIVE*



*For ultimate performance:*

*DRIVE coolants deliver high-performance lubricity and ultimately lower costs. Achieve precision parts, exceptional tool life, extended sump life, assured regulatory compliance, and greater profitability with a product just right for your production. Designed to meet the rigorous demands of the HDD industry and high production, precision parts manufacturing industries, there is a TRIM Drive to answer your concerns, ramp up your production, and boost your bottom line.*

## Choose DRIVE G81NXT:

- In addition to aluminum alloy, TRIM DRIVE G81 NXT is also suitable for a wide range of materials including steels, titanium, and stainless steels
- Low foam even in high-pressure operations without the use of silicone antifoam
- Good hydrodynamic lubrication to perform reaming and threading applications
- Excellent anti-weld properties without the use of either chlorinated or sulfurized EP additives
- Does not contain mineral oil for near zero hydrocarbon contamination level
- Keeps machines very clean while leaving a soft film that protects machine surface, for ease of cleaning and reduced machine maintenance costs
- Does not require special disposal and is easily recycled
- Designed to be used with deionize water without having any foam issues
- Non-staining on aluminum alloys commonly used to produce HDD components
- Parts machined with TRIM DRIVE G81 NXT can be washed easily and completely in aqueous washing systems

## DRIVE G81NXT especially for:

**Applications** — machining, milling, reaming, and thread forming

**Materials** — aluminum alloys, stainless steels, steels, and titanium

**Industries** — hard disk drives

**DRIVE G81NXT is free of —** chlorinated EP additives, chlorine, mineral oils, and sulfurized EP additives

Master Fluid SOLUTIONS™

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## Application Guidelines

- Normally used at a concentration of 8.0% - 10.0% for moderate machining; for heavy-duty machining, use concentration between 10.0% - 12.0%.
- Higher concentrations of working solutions increases both hydrodynamic and EP lubrication; however, prolonged contact with concentrations more than 15.0% may result in skin irritation.
- Not recommended for use on cast iron, magnesium, or zirconium without special precautions. However, aluminum or zinc alloy with magnesium content is generally acceptable.
- Check with Master Fluid Solutions for the proper cleaner product which should be used before filling machine tanks with TRIM DRIVE G81 NXT
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/th/en-th/distributors/index.php or your District Sales Manager, or email us at thailand-info@masterfluids.com.

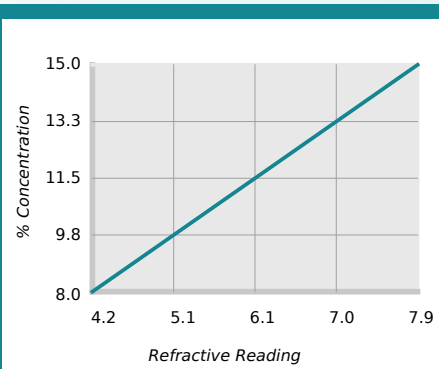
## Physical Properties Typical Data

| | |
|---|---|
| Color (Concentrate) | Light yellow to amber |
| Color (Working Solution) | Yellow translucent |
| Odor (Concentrate) | Mild |
| Form (Concentrate) | Liquid |
| pH (Concentrate as Range) | 9.5 - 9.9 |
| pH (Typical Operating as Range) | 9.2 - 9.8 |
| Coolant Refractometer Factor | 1.9 |

## Recommended Metalworking Concentrations

| | |
|---|---|
| Light Duty | 8.0% - 10.0% |
| Moderate Duty | 10.0% - 12.0% |
| Heavy Duty | 12.0% - 15.0% |
| Design Concentration Range | 8.0% - 15.0% |

## Concentration by % Brix




% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 1.9

## Health and Safety

Request SDS

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## Mixing Instructions

- Recommended usage concentration in water: 8.0% - 15.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.
- Use premixed coolant as makeup to improve coolant performance and reduce coolant purchases. The makeup you select should balance the water evaporation rate with the coolant carryout rate. Use our Coolant Makeup Calculator to find the best ratio for your machine: apps.masterfluids.com/makeup/.
- Use mineral-free water to improve sump life and corrosion inhibition while reducing carryoff and concentrate usage.

## Ordering Information

20-liter pail

204-liter drum



## Additional Information

- Use Master STAGES™ Whamex™ for a quick and thorough precleaning of your machine tool and coolant system.
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
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https://2trim.us/di/?i=th_en-th_DRIVEG81NXT

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