

# DROID GREASE

*High Performance Grease For  
Reduction Gears In Industrial Robots*



## **Semi Synthetic greases for higher efficiency and longer life span of Industrial robots.**

Reduction gears are key components of all industrial robots. While allowing industrial robots to make accurate movements, they bear high loads and forces in the operation. In order for them to run smoothly, improve efficiency and increase the life of the Robot, it is important to use proven greases.

Molygraph Droid greases are specially formulated semi synthetic greases for reduction gears in Industrial Robots with high load and anti-wear properties, keeping wear to minimum, while maximising the life of the equipment.

## **Best properties for optimum performance**

- High load and anti wear properties due to Zn and organo-Moly additives.
- Long term lubrication provides reduced maintenance and expensive downtimes.
- Semi-fluid grease assures efficient distribution to lubricate parts of reduction gear resulting in improved efficiency and extended lubrication life.
- Excellent pumpability even in cold conditions.
- Low iron pick up after prolonged use, complying to Robot manufacturers' requirements.
- Drop in replacements against Japanese OEM greases.
- Good oxidation stability over elevated temperatures.
- Provides protection against rust and corrosion.
- Droid Grease is suitable for Fanuc, Hyundai, Kuka, Kawasaki, Mitsubishi and other leading brands of Robots.

## Properties

CHARACTERISTICS	TEST METHOD	UNIT	DROID GREASE 0	DROID GREASE 00
Appearance	Visual	-	Smooth	Smooth
Colour	Visual	-	Yellow	Yellow
Base Oil	-	-	Semi Synthetic	Semi Synthetic
Base Oil Viscosity @ 40°C	ASTM D - 445	cSt	80	80
NLGI Grade	-	-	#0	#00
Worked Penetration @ 25°C	ASTM D - 217	0.1mm	355-385	400-430
Dropping Point	ASTM D - 2265	°C	195	190
Oxidation Resistance, Pressure Drop 100h / 99°C	ASTM D - 942	psig	< 5	< 5
Evaporation Loss @ 100°C for 24 Hrs.	ASTM D - 972	%	< 1.0	< 1.0
Operating Temperature Range	-	°C	-40 / +130	-40 / +130

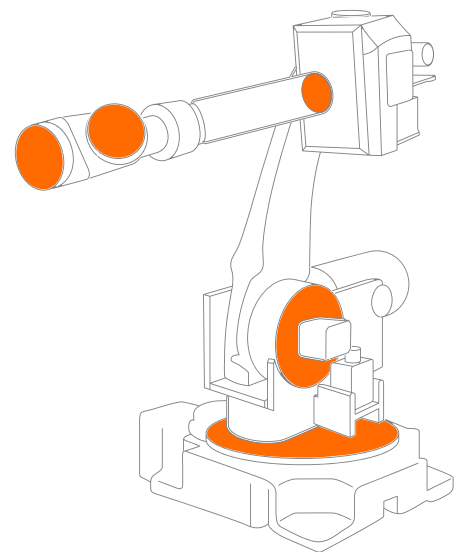
## Maintaining smooth non-stop operations

Industrial robots used in manufacturing are round the clock workers, undergoing high levels of heat, speed and friction. In order to keep the gears moving smoothly and operate with precision, it is extremely important to re-grease and undergo periodic inspections.

### Tips for maintenance

- As the greases begin to break down after 500-700hrs of working, the Grease needs to be checked once a month for color and consistency.
- While re-greasing, expel out all the old grease. The greasing is completed once the color of the grease being pumped out is seen to be the same as the new grease.

For oil lubricated robotic reduction gears, Molygraph has specially developed Droid Oil and Droid Oil PG series. Technical Details of these oils are available on request.



🔴 Droid Grease 0/00 Lube Points

### Tips for maintenance



Automotive Plant



Forging Shops



Heavy Engineering



Robot Maintenance