

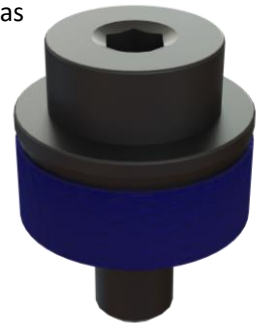
Subject: New Urethane Nitrogen Lock – Cylinder Retention	Date: 1/2/2020	Issue: 19-08: Issue Name
	Issued By: Russell Weaver	Page(s): 1 of 1

This document is proprietary and confidential. No part of this document may be disclosed in any manner to a third party without the prior written consent of HYSON Metal Forming Solutions.

HYSON announces the launch of the *new Urethane Nitrogen Lock (UNL)*, a simple cylinder *retention solution* that can be installed with any of **HYSON**'s cylinders and used in either lower or upper applications, where cylinders are pocketed. The UNL utilizes the elastic properties of the Urethane to compress as the bolt is torqued and applies force against the cylinder holding it in its pocket. The UNL can be utilized in the line formation (see figure 1) for cylinders of body diameter less than 95mm. For 95mm or greater, utilize 2 UNL's in a Triangle formation as depicted in figure 2.

Advantages:

- Reduces Machining Time and Cost
- Simple Cylinder removal
- Compatible with all cylinders
- Reduced footprint.



Specification:

The Urethane Nitrogen Lock should be installed within a pocket diameter of 22.35 mm. and a depth of 9.5 mm. Centered in the pocket, should be a M8 tap with a 14 mm. depth or deeper. The pockets location is defined by a center to center (C2C) distance, described by the following equation; where D_c is the cylinder's body diameter.

$$C2C = \left(\frac{D_c}{2}\right) + 11.11 [mm.]$$

NOTE:

When utilizing UNL, cylinder pockets are to cylinder body diameter +1.0mm /1.5mm

Ordering Information:

The Urethane Nitrogen Lock is now available for order. UNL Order Number: **UNL-87M**. Contact **HYSON**'s Inside Sales Team at Orders@HysonSolutions.com.

Figure 1

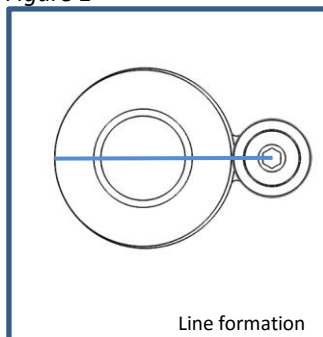


Figure 2

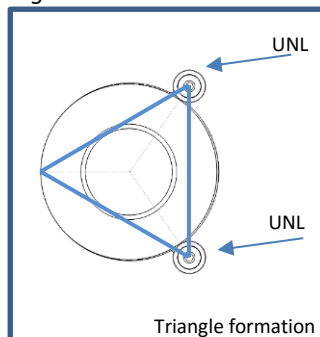


Figure 3

