

## LGG Industrial OEM Solutions



Recognized by Modern Distribution Magazine as one of North America's top hose and accessory distributors.

- Headquartered in Pittsburgh, PA - operating 70 branches across the USA and Canada
- Trusted supplier of hoses since 1935 with unparalleled depth of expertise in fluid handling, material conveyance and sealing solutions



- A globally renowned brand in the fluid power industry
- Based in Italy and produced by one of the world's leading manufacturers of hydraulic hoses
- Manufactured in regions known for high-quality production standards
- Trusted and approved by top American mobile OEM companies
- Offering a comprehensive hose assembly manufacturer's warranty, ensuring perfect compatibility with Dunlop Hiflex hoses and fittings
- Extensive catalog of hydraulic hoses and fittings
- Specializing in metric hose ends

## TOTAL TRACE

OEM Program

- LGG Industrial's Hose Fabrication Process
- Cutting-edge production control for unmatched consistency
- MES (Manufacturing Execution System)-powered, end-to-end production tracking
- Each hose individually serialized for traceability
- Scanned fittings and hoses for 100% component accuracy
- Comprehensive batch traceability for all hose components



# TOTAL TRACE

OEM Program



## 1 STEP #1

The Marken automated cutting machine cuts the hose and marks the ferrule insertion depth with paint

## 2 STEP #2

Each hose is labeled with a QR code

## 3 STEP #3

The hoses are cleaned using Ultra Clean Technologies equipment, which employs foam projectiles (aka "pigs") that are propelled through the hose before a fitting is inserted

## 4 STEP #4

The pigs are verified as cleared by an automated clearing device

## 5 STEP #5

The hoses are crimped using the latest technology from Lillbacka USA – Finn-Power machines

## 6 STEP #6

All hose assemblies are fitted with heat shrink caps to maintain cleanliness



- We ensure the highest quality end products with unparalleled consistency by employing advanced production techniques
- All crimps undergo a hydraulic pressure feedback test to verify that each assembly is correctly fabricated
- Every step of the process is scanned, recorded, and saved in our MES (Manufacturing Execution System), which is designed to gather comprehensive data, error-proof manufacturing, and enhance production efficiency
- Each hose is assigned a serial number and labeled with a QR code for easy tracking

### Total Trace MES Output

Date	Serial Number	Value	Operator	Process Step
1/9/2024 18:05	1624457-001	No Scan Required	Operator #1	Scan the batch code
1/9/2024 22:00	1624457-001	AAA H1200AD2-120000	Operator #2	Scan Fitting Bin
1/9/2024 22:00	1624457-001	AAA H1221513-123600	Operator #2	Scan Fitting Bin
1/9/2024 22:00	1624457-001	AAA H1226514-121200	Operator #2	Scan Fitting Bin
1/10/2024 7:44	1624457-001	Good Crimp	Operator #3	Crimp 1 Result
1/10/2024 7:44	1624457-001	31.7	Operator #3	Crimp 1 Result, Diameter
1/10/2024 7:44	1624457-001	Good Crimp	Operator #3	Crimp Result 2
1/10/2024 7:44	1624457-001	31.68	Operator #3	Crimp Result 2 Diameter
1/10/2024 7:46	1624457-001	126.25	Operator #3	Verify OAL
1/10/2024 8:30	1624457-001	Pass	Operator #4	Crimp Result

