

QUALITY

INTELLIGENT DESIGN  
EXCELLENCE  
PARTNERSHIP

INTEGRATED SOLUTIONS



ANACONDA

 **manuli**<sup>®</sup>  
HYDRAULICS

# Why Manuli?

*Manuli Hydraulics is focused on achieving excellence in the design, manufacture and supply of fluid conveyance solutions, components and associated equipment for high pressure hydraulics, refrigeration and oil and marine applications.*

*Quality and sustainable development are the driving forces of all Manuli Hydraulics' activities, with an aim to guarantee worldwide availability of technical and commercial support for its products and services.*

# Hydraulic Hose

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## An integrated approach

Modern hydraulics applications require robust fluid connector solutions with guaranteed long lasting performance. To that end, Manuli Hydraulics offers a complete range of hoses, fittings and assembly equipment which are designed to work seamlessly together. This harmonised approach allows us to guarantee the quality and performance of hose assemblies in a way that others cannot match.

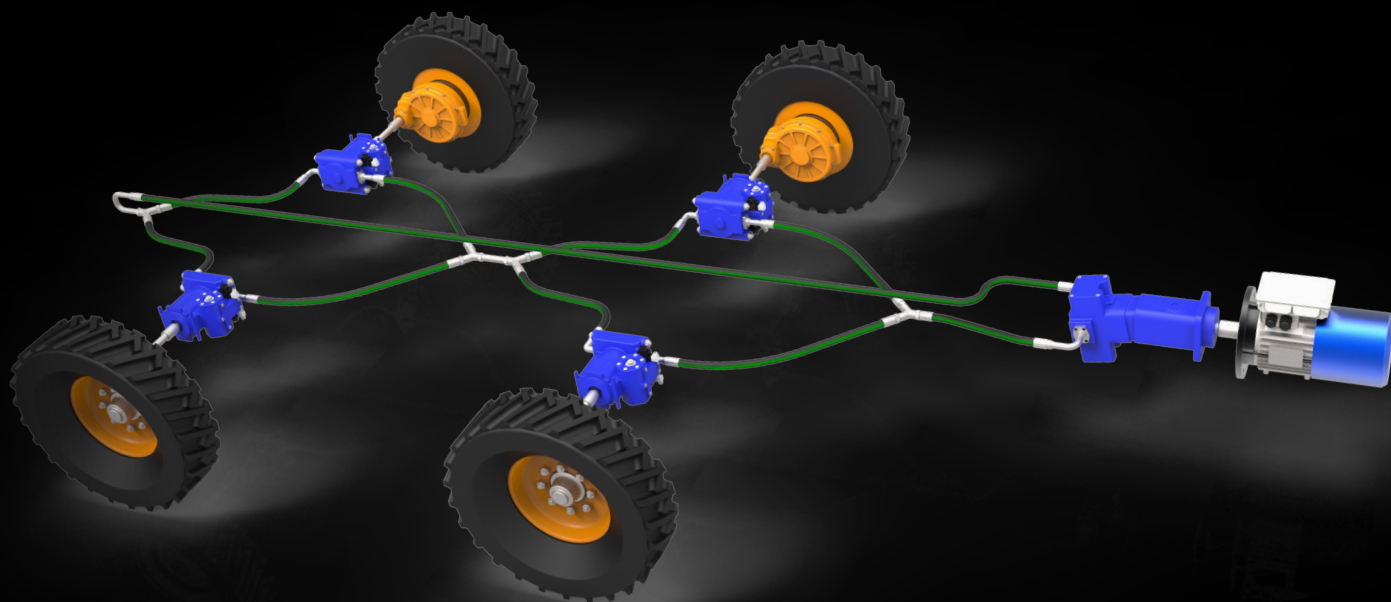
From design to manufacture and assembly, our commitment to this unified philosophy makes us the global leader in providing integrated solutions for hydraulic connector applications.



## for Hydrostatic Drives

widely used method of power transmission, due to their fast response times and ease of speed control. In order to work to their optimum potential, the components within the circuit must be both robust and reliable. Anaconda is the first hose by Manuli Hydraulics which has been purpose designed to meet the specific requirements of hydrostatic drive systems.

These systems often require short lengths of hose in tight routing conditions, such as the undercarriages of construction vehicles. This can prove problematic, as shorter lengths of hose tend to require a much higher bending force than longer lengths of the same hose, making them difficult to install in compact environments.



Anaconda has been designed to alleviate this complication with a reduced bending force to suit difficult undercarriage routing conditions. It also has a very low minimum bend radius which exceeds the standard requirements, making installation easier and reducing the risk of kinks even in these constricted conditions.

Despite this high level of flexibility, Anaconda is highly robust, with a highly abrasion resistant cover compound and a compact structure. It can withstand high pressures of up to 420 bar and exceeds 500,000 cycles in a static test conditions (according to the requirements of ISO 6803), making it both reliable and hardwearing in these static configurations.



# Skive and No-Skive Solutions Available

## InterLock Plus Skive Solution

Manuli Hydraulics are the global leader in providing integrated solutions for hydraulic connector applications. As such, they offer InterLock Plus - a dedicated fitting designed to work seamlessly with Anaconda.

InterLock Plus is a highly robust, double-skive solution which offers maximum reliability for very high pressure applications. Its unique design ensures a high quality seal, ensuring leak-free operation for over 1,000,000 impulse cycles.



## SpiralFit No-Skive Solution

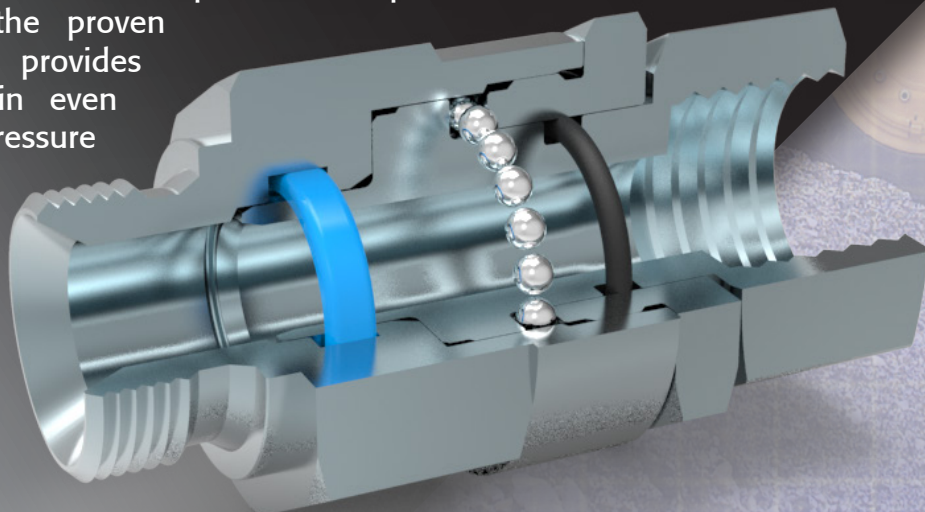
In order to facilitate aftermarket assembly of replacement hoses, Manuli also offers a no-skive fitting solution, SpiralFit. This popular "through-the-cover" range of fittings provides long-lasting, high-quality sealing without the need to skive, making it particularly useful for maintenance in the field.

## RotoFit

**RotoFit is the perfect solution for eliminating hose twist and maximising the service life of Anaconda hose.**

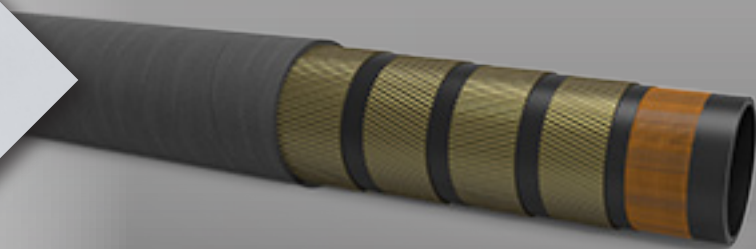
Combining the smooth twisting action of a ball-race bearing, with a high-pressure, leak-free connection, RotoFit is an ideal solution for applications such as hydrostatic drives where the hose experiences regular and repetitive axial twist. Given that hose twist can radically reduce the operational lifespan of a hose assembly, the use of RotoFit in these applications can significantly lower the maintenance costs both in terms of replacement parts and labour costs.

RotoFit is a direct-to-hose and direct-to-port fitting, saving space, minimising additional weight and ensuring that potential leak points are kept to a minimum; Meanwhile the proven double-seal arrangement provides effective leak prevention in even the most severe high-pressure applications.



# ANACONDA

HEAVY DUTY, LOW BENDING FORCE



## TECHNICAL DATA

PART REF.	HOSE SIZE			R.O.D		O.D		MAX. W.P		BURST		MIN. BEND		WEIGHT		FITTINGS	
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	Std 1	Std 2
H10132019*	19	-12	3/4"	27.7	1.09	30.2	1.19	420	6,090	1,680	24,360	150	5.91	1,288	0.87	IP+M01500-12	SP+M05400-12
H10132025*	25	-16	1"	35.3	1.39	37.7	1.48	420	6,090	1,680	24,360	210	8.27	2,012	1.35	IP+M01500-16	SP+M05400-16
H10132031*	31	-20	1.1/4"	42.2	1.66	45.5	1.79	420	6,090	1,680	24,360	260	10.24	2,453	1.65	IP+M01500-20	SP+M05400-20
H10132038*	38	-24	1.1/2"	52.5	2.07	55.5	2.19	420	6,090	1,680	24,360	300	11.81	4,076	2.74	IP+M01600-24	

### KEY FEATURES

- Low bending force to suit difficult undercarriage installations
- Bend radius which exceeds the standard requirements
- Good flexibility across the whole temperature range
- Easy mounting in static configurations
- High impulse resistance according to ISO 18752
- No-skive fitting solution available
- Isobaric pressure rating for easy selection and product management

### APPLICATIONS & FLUIDS

- High pressure hydraulic lines in hydrostatic transmissions
- Applications with installation constraints, short assemblies in static configurations, low bend radii in undercarriage applications
- Mineral oils, vegetable oils and synthetic ester based oils (up to 100°C/212°F), glycols and polyglycols, mineral oils in aqueous emulsion, water

### CONTINUOUS SERVICE TEMPERATURE RANGE

-46 °C, -50 °F

121 °C, 250 °F

### MAX. OPERATING TEMPERATURE

121 °C, 250 °F

### TUBE

Oil resistant synthetic rubber

### REINFORCEMENT

Four high tensile steel spirals

### COVER

Synthetic rubber with high abrasion, ozone, weather and heat resistance

### APPLICABLE SPECS

ISO 18752 Grade C, exceeds SAE J517 R15, ISO 3862 R15

### TYPE APPROVALS

MSHA

manuli®

ANACONDA™

ISO 18752-C DN31-20

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HYDRAULICS



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