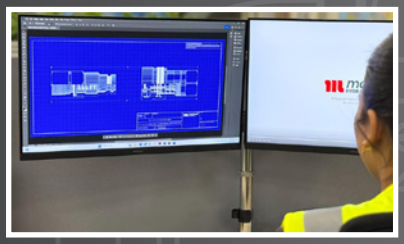
ROCKMASTER



Raising the Bar for General Hydraulic Hoses

manuli® HYDRAULICS

"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, industrial material conveyance, refrigeration and cooling applications."



Our experienced Research & Development team take 2D drawings to 3D models to real life products.



Our world-class hoses, fittings and assembly equipment are manufactured in-house to the highest standards.



We test and validate our products to meet and exceed technical industry standards.

DESIGN → **MANUFACTURE** → **TEST**

SUPPLY ← **INTEGRATED SYSTEMS**



We provide the complete solution: hoses, fittings, crimping parameters and assembly equipment for a fully integrated system.



We supply fluid conveyance solutions directly to our customers whenever and wherever they are.

From design to manufacture, and assembly, Manuli Hydraulics' continual commitment to this unified philosophy makes us a global leader in providing integrated solutions for fluid and material transfer connector applications including hydraulics, refrigeration & air conditioning, oil & gas, water and industrial low-pressure.

Manuli Hydraulics offer a complete range of hoses, fittings and assembly equipment which are purposely designed to work seamlessly together. This harmonized approach allows us to guarantee the quality and performance of our hose assemblies.

Every metre of hose and every single fitting is backed by industry knowledge and experience, made available to you through our dedicated team of application engineers.

From advice on component selection and configuration, our technical expertise allows us to support and work directly with our customers whenever and wherever they are based.

Disclaimer: We reserve the right to modify our products and/or related services and/or discontinue the manufacture and/or supply of any of the products and/or related services, without notice. This document supersedes all previous versions and previously issued documentation. The only official source of technical crimping parameters regarding our products is our Digital Crimp Tools. Printed copies are uncontrolled therefore, please be sure to use the latest versions of our Manuli Crimp App or Crimp Web Tool. Do not mix and match: always use Manuli original hoses and fittings. For more information, see our 'Safety Guide' by scanning the QR code.

DON'T MIX & MATCH

SETTING NEW STANDARDS

The ever increasing demands placed on components in modern hydraulic systems mean it is now more critical than ever that manufacturers can rely on their hoses to perform to the expected standard.

To ensure this high level of safety and reliability is met, Manuli Hydraulics have standardised the traditional wire braid hose range on the Rockmaster family.

THE CORE MANULI HOSE RANGE:

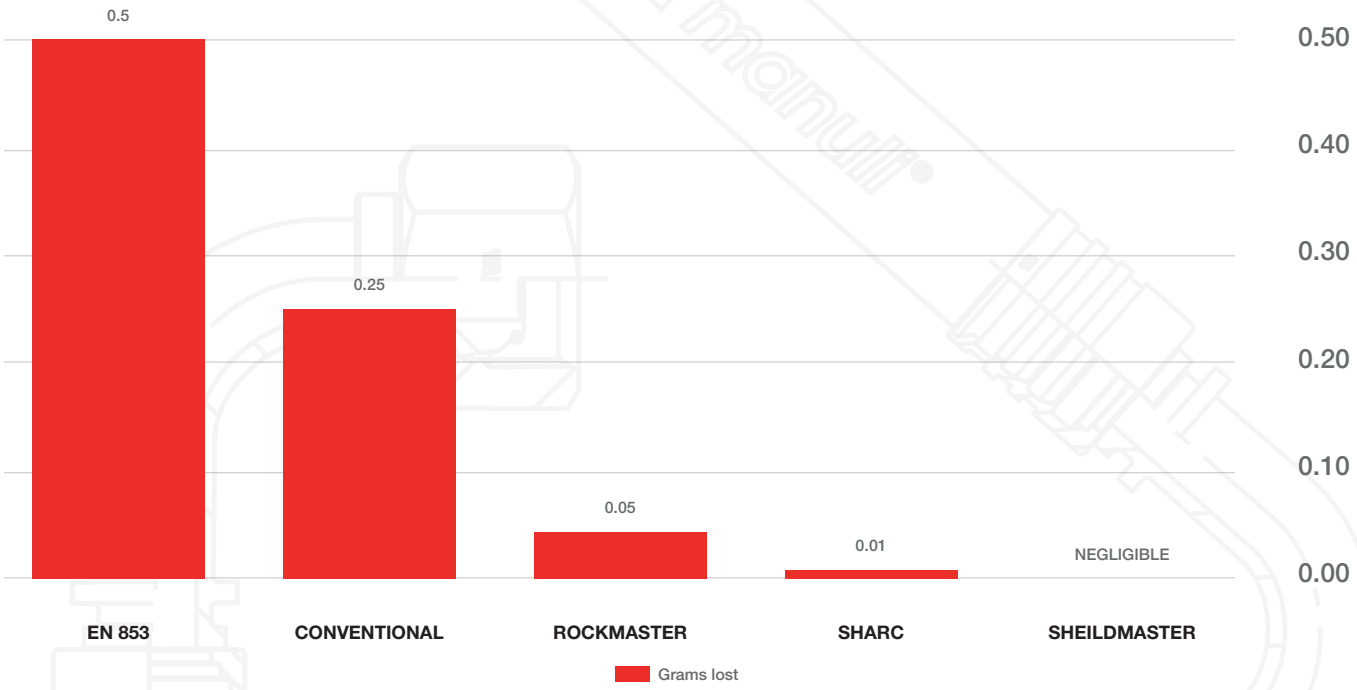
The Rockmaster range provides increased performance and durability, whilst still retaining a competitive pricing policy. With a large number of mining, marine and third party approvals, Rockmaster hoses are intended to reinforce the Manuli brand through their many advantages to customers.

FEATURES & BENEFITS:

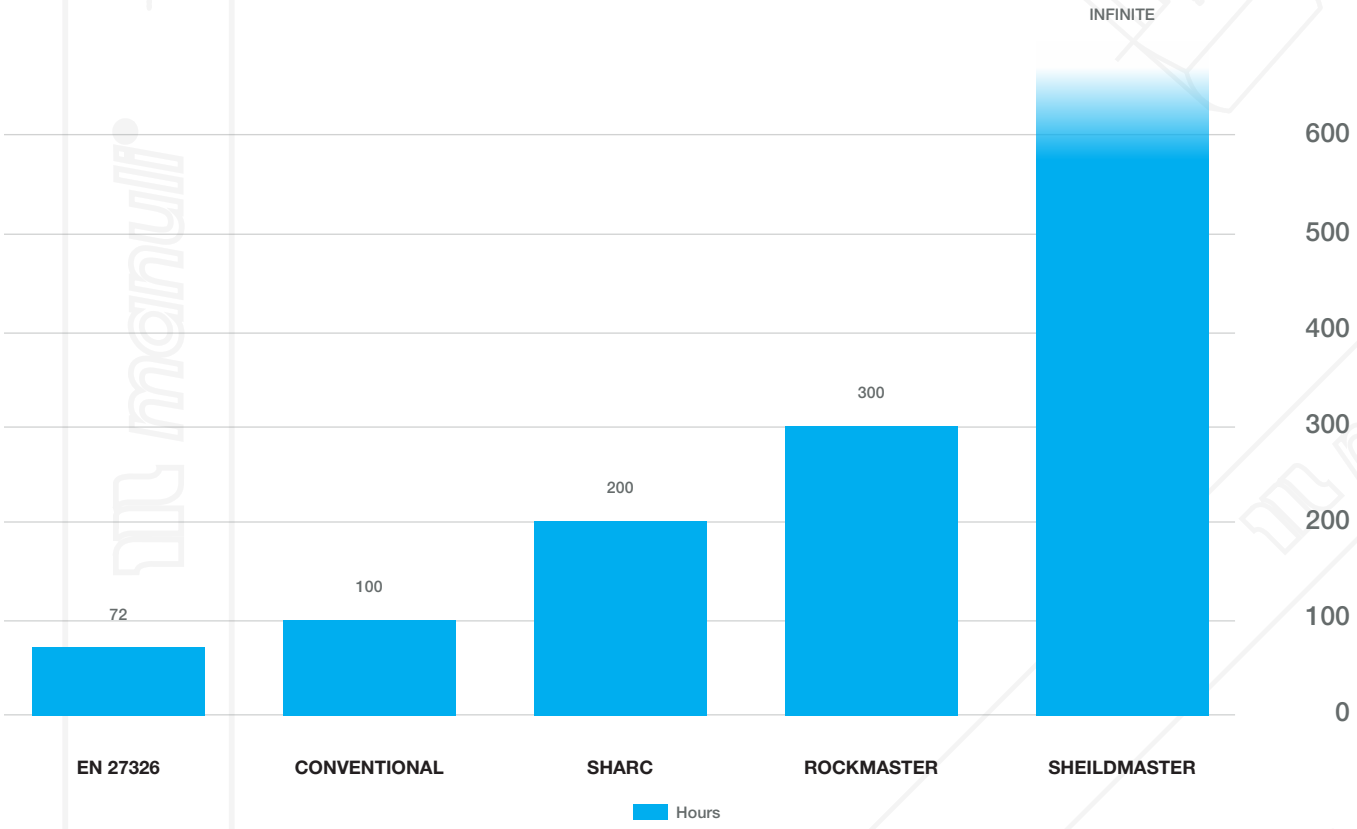
- **Wide Application Suitability:** Supports use across open pit and underground mining, marine equipment, and heavy-duty hydraulics.
- **Compatibility with Manuli Fittings:** Integrates with Manuli's full range of fittings for consistent performance.
- **Flame-Resistance Compliance:** Meets a wide range of international safety standards.
- **Specialised Cover Compounds:** Anti-static and non-toxic materials support safer operation.
- **Robust Hose Construction:** Designed for strength and long-service life in demanding conditions.
- **Weather & Ozone Resistance:** Maintains performance in harsh environmental exposure.
- **Abrasion Resistance:** Withstands wear in high contact applications.
- **High Temperature Resistance:** Performs reliably in elevated temperature conditions.
- **Operational Reliability:** Provides dependable performance in demanding environments.



ABRASION RESISTANCE[1]



OZONE RESISTANCE[2]



1 - Abrasion resistance test performed to test conditions required by ISO 6945 – 2,000 cycles with a mass of 2.5 kg – lower values are better.

2 - Ozone resistance test performed to test conditions required by ISO 27326 – 50 pphm ozone concentration, at 40°C, 20% cover elongation. Higher values are better.

ROCKMASTER HOSE RANGE

HOSE	HOSE STRUCTURE	NORM	KEY PERFORMANCE
ROCKMASTER/1SN 	Wire Braided	EN 853, ISO 1436-1SN, SAE J517-100R1AT	Abrasion, weather & heat resistance
ROCKMASTER/2SN 	Wire Braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Abrasion, weather & heat resistance
ROCKMASTER/2ST 	Wire Braided	EN 853, ISO 1436-2ST	Abrasion, weather & heat resistance
ROCKMASTER2 PLUS SAW 	Wire Braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT, perf. BCS174, ISO 6805-4	Abrasion, weather & heat resistance
ROCKMASTER/1SC 	Wire Braided	EN 857, ISO 11237-1SC	Abrasion, weather & heat resistance
ROCKMASTER/2SC 	Wire Braided	EN 857, ISO 11237-2SC, SAE J517-100R16	Abrasion, weather & heat resistance
ROCKMASTER/4SP 	Wire Spiralled	EN 856, ISO 3862-4SP	Abrasion, weather & heat resistance
ROCKMASTER/4SH 	Wire Spiralled	EN 856, ISO 3862-4SH	Abrasion, weather & heat resistance
ROCMASTER/12 	Wire Spiralled	EN 856, ISO 3862-R12, SAE J517-100R12	Abrasion, weather & heat resistance
ROCKMASTER/13 	Wire Spiralled	EN 856, ISO 3862-R13, SAE J517-100R13	Abrasion, weather & heat resistance
ROCKMASTER/15 	Wire Spiralled	ISO 3862-R15, SAE J517-100R15	Abrasion, weather & heat resistance

HOSES BY WORKING PRESSURE

HOSE SIZE	WORKING PRESSURE (bar)													
DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76
dash	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48
ROCKMASTER/1SN		225	215	180	160	130	105	90	65	50	40	50		
ROCKMASTER/2SN		400	350	350	350	250	215	175	140	100	90	90		
ROCKMASTER/2ST	415	400	350	350	350	250	215	175	140	100	90			
ROCKMASTER2 PLUS SAW		450		400	362	340	310	240	175	146	112			70
ROCKMASTER/1SC		260	250	225	190	150	150	110	75	50	50			
ROCKMASTER/2SC	420	400	350	330	275	250	245	210	140	100	90		70	45
ROCKMASTER/4SP		485		450	420	380	380	320	210	185	175			
ROCKMASTER/4SH						450	420	385	350	300	250			
ROCMASTER/12				280	280	280	280	280	210	175	175			
ROCKMASTER/13		690		690	620		350	350	350	350	350			
ROCKMASTER/15							420	420	420	420				

HOSES BY APPROVAL

	HYDRAULICS, MARINE EQUIPMENT TYPE APPROVALS									MINING SAFETY TYPE APPROVALS				GOVERNMENT, SAFETY & SPECIAL TYPE APPROVALS
	ABS	BV	DNV-GL	KRS	LLOYD'S REGISTER	RINA	MED	NK	RUSSIAN MARITIME	MSHA	POLISH "B"	FRAS	MA	EN 45545-2 (EU RAILWAY)
ROCKMASTER/1SN	*	*	*	*	*	*	*	*	*			*	*	
ROCKMASTER/2SN	*	*	*	*	*	*	*	*	*	*	*	*	*	
ROCKMASTER/2ST									*	*	*		*	
ROCKMASTER2 PLUS SAW									*		*	*	*	
ROCKMASTER/1SC			*		*				*		*		*	
ROCKMASTER/2SC	*	*	*		*	*	*	*	*	*	*	*	*	
ROCKMASTER/4SP	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ROCKMASTER/4SH	*	*	*	*	*	*	*	*	*	*	*	*	*	
ROCMASTER/12	*		*		*		*		*		*	*	*	
ROCKMASTER/13	*		*		*	*	*		*	*	*	*	*	
ROCKMASTER/15	*		*		*	*	*		*	*	*	*	*	



manuli® HYDRAULICS CRIMP

YOUR SOURCE FOR THE MOST UP TO DATE CRIMP PARAMETERS

Stay up to date using Manuli's Digital Crimp Tools, available as an App and a Web version, our Crimp Tools are your go-to resource for accurate, efficient, and safe hydraulic hose crimping. Designed with professionals in mind, this innovative tool grants instant access to the latest crimp specifications, ensuring precision, and reliability in every assembly.

Whether in the workshop or on the go, Manuli Digital Crimp Tools provide real-time access to an extensive database of hose and fitting specifications, helping to reduce downtime and boost productivity.

Key Features of Manuli's Digital Crimp Tools:

Print Feature: This feature supports printing crimping parameters as reference charts for both single or multiple hose sizes within a selected hose family, supporting workshop and warehouse use.

Saved Items: Frequently used hose and fitting combinations can be saved within the app, allowing quick access to commonly used crimping parameters during routine hose assembly tasks.

Technical Centre: The Digital Crimp Tools are supported by a dedicated section on our website called the Technical Centre. This integrated resource provides expert insights, practical tips, and industry knowledge, with access to in depth guides and best practice information.

Accurate Crimping Parameters: To ensure accuracy on their crimping parameters, customers should regularly access the Manuli Digital Crimp Tools to check for updates. It is also recommended that printed charts should be reprinted regularly to ensure crimping information remains up to date.

Download the Manuli Crimp App Now

Download on the App Store

ANDROID APP ON Google play

DON'T MIX & MATCH

www.manuli-hydraulics.com

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