



DRIVEN BY POSSIBILITY™

GATES® MEGASYS™

# MXG™ 4K HYDRAULIC HOSE

WITH XTRATUFF™ PLUS COVER

## MXG™ 4K. HIGH-PRESSURE PERFORMANCE REDEFINED.

Built with our proprietary wire-braid process technology, MegaSys™ MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses.

Where others see a hose, we see a solution that can benefit our customers. Using materials science advancements, design expertise and processing technologies, we engineered a new class of hydraulic hose that exceeds the pressure and performance of wire spiral constructions, but with the lower weight and flexibility driven by Gates wire-braid technology. The XtraTuff™ Plus abrasion-resistant cover on MXG™ 4K hose offers improved ozone resistance, withstands operating temperatures up to 250°F, and delivers exceptional durability to power your most demanding fluid power applications.

## FEATURES + BENEFITS

- Proprietary application of materials science and processing technology
- Exceeds performance criteria of ISO 18752 280DC, SAE 100R12, EN856 R12, and ISO 3862 R12; size -16 also rated for EN856 4SP
- For inventory consolidation, also exceeds SAE 100R19
- 1,000,000 cycle impulse life exceeds industry standards (2X spiral and 5X wire braid standards) with GS couplings
- Impulse tested to the same parameters as Gates EFG4K spiral hose (pressure, temperature and bend radius)
- Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 40% better and OD is 8% smaller)
- 30% lighter weight for easier handling and installation
- Gates XtraTuff™ Plus cover comes standard on MXG, providing abrasion and ozone resistance
- Utilizes Gates GS GlobalSpiral™ couplings; compatible with Gates Crimpers



DRIVEN BY POSSIBILITY™

# THE NEXT GENERATION OF PREMIUM HYDRAULICS

## PRODUCT SPECIFICATIONS:

- **STANDARD:** Exceeds all criteria of ISO 18752 280DC and SAE 100R19; exceeds performance criteria of SAE 100R12, EN 856 R12, ISO 3862 R12 (Size -16 also exceeds EN 856 4SP performance requirements)
- **CONSTRUCTION:** Black, oil resistant, synthetic rubber tube; two layers of braided, high-tensile steel wire reinforcements
- **COVER:** Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover
- **CERTIFIED:** MSHA Flame Resistant
- **TEMPERATURE RANGE:** -40°F to +250°F (-40°C to +121°C)

## INDUSTRIES + APPLICATIONS:

- Construction + Mining
- Stationary
- Forestry + Agriculture
- Hydrostatic Drives
- Boom Arms + Excavators
- Off-Road
- Rockbreaker + Water Well Rig
- Vacuum Trucks
- Boomer + Hammer Drill

GATES® MEGASYS™ MXG™ 4K HYDRAULIC HOSE:

# IF THERE'S A BETTER WAY, WE'LL FIND IT.

-40% FORCE-TO-BEND. -30% WEIGHT. -8% O.D.

MXG™ 4K is an innovative addition to Gates premium, MegaSys™ Hydraulics portfolio that leverages our materials science and process technologies to deliver a lighter weight, flexible and more compact solution without compromising performance.



## WE'VE GOT YOU COVERED.

MXG™ 4K comes with Gates XtraTuff™ Plus, our latest material breakthrough, engineered for exceptional durability to cover your assets in the most demanding fluid power applications.

- 25X more abrasion resistant
- Exceptional durability
- Enhanced ozone resistance
- MSHA certified
- No impact to flexibility

HOSE SIZE	DN	ID (INCH)	OD (INCH)	OD (MM)	WP (PSI)	WP (MPa)	BURST (PSI)	BURST (MPa)	MIN. BEND RADIUS (INCH)	MIN. BEND RADIUS (MM)	WEIGHT (LBS/FT)	WEIGHT (KG/100M)	COUPLING
6MXG	10	3/8	.70	17.7	4,060	28.0	16,240	112	2.5	65	0.26	38.2	GS
8MXG	12	1/2	.82	20.7	4,060	28.0	16,240	112	3.5	90	0.35	51.9	GS
10MXG	16	5/8	.99	25.2	4,060	28.0	16,240	112	3.9	100	0.47	69.3	GS
12MXG	19	3/4	1.14	28.9	4,060	28.0	16,240	112	4.7	120	0.64	94.7	GS
16MXG	25	1	1.50	38.0	4,060	28.0	16,240	112	5.9	150	1.05	156.9	GS

GATES.COM

GLOBAL | 04FEB2020



## FIELD BULLETIN 180

# MXG™ 4K XTRATUFF™ PLUS HIGH PRESSURE PERFORMANCE REDEFINED!

Last year, the innovative use of material science and design technology has brought us MXT. This MegaSys premium hose with a revolutionary wire braid reinforcement has meanwhile become a recognised player in the vast 2-wire braid hydraulic hose market.

But MXT was just the start! Using materials science advancements, design expertise and processing technologies, we now bring you a hydraulic hose that exceeds the performance of wire spiral constructions but with the lower weight and flexibility driven by Gates wire-braid technology. **MXG 4K** hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles with GlobalSpiral couplings — it's a drop-in replacement for conventional spiral hoses. MXG 4K offers 280 bar maximum working pressure up to 121°C temperature and the same tight minimum bend radii as EFG4K.



## DOWNSIZING BRINGS UPLIFTING

**Less is more for your machine.** MXG 4K delivers premium reliable performance to upgrade your machine with a slimmer profile for compact areas:

- **Tight bend radii** (1/2 of spiral SAE standards) for more compact routing resulting in less hose usage;
- **More space in your hydraulic system** for other components, or reduction of the overall footprint of your hydraulic system;
- **Allowing upsizing of your hoses;** larger size equals more fluid flow, equals more power output, for improved equipment performance;
- **Lighter in weight** driving equipment fuel efficiency and responsiveness.

**Less is more for your operations.** MXG 4K delivers a highly flexible and lightweight product that provides fast, ergonomic and reliable handling and installation:

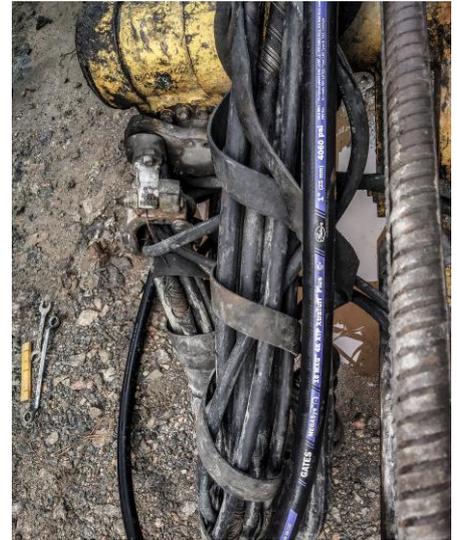
- **Less force-to-bend, faster to install and easier to route,** which increases productivity and reduces the risk of leaks;
- **More ergonomic assemblies and warehouse handling,** reducing fatigue during fabrication and installation.

## NEW XTRATUFF PLUS

The XtraTuff™ Plus (XTP) cover on MXG 4K hose offers 25X the abrasion resistance of standard covers, as well as impressive ozone resistance.

XTP is a new compound formulated specifically for both abrasion resistance and ozone resistance to protect the rest of the hose from damage in extreme hydraulic applications. The smooth cover finish results from the most modern cover extrusion process technologies. XTP is designed to withstand the high temperatures of wire spiral applications, while being compatible with wire braid reinforcement.

Enhanced ozone protection and abrasion resistance are features that are highly valued on following spiral hose applications that are often struggling with lifetime shortening because of harsh external assembly conditions such as boomer and top hammer drills, excavators and attachments, hydrostatic drives, waste compactor trucks, vacuum trucks, ....



**-30%**  
LIGHTER WEIGHT  
COMPARED TO TRADITIONAL WIRE-SPIRAL HOSE

**-40%**  
LOWER FORCE-TO-BEND  
COMPARED TO TRADITIONAL WIRE-SPIRAL HOSE

**-8%**  
MORE COMPACT  
VS. INDUSTRY STANDARD SPIRAL HOSE

**25X**  
MORE ABRASION-RESISTANCE  
THAN GATES STANDARD COVERS

In the attached documents you will find our new MXG 4K sell sheet and hose catalogue page with further details. A complete pack of support materials including videos, infographics, ... is available on request as a customer toolbox. Crimp data is on <http://ecrimp.gates.eu>, logistical and price details have been added to the customer pricelist.

FOR MORE INFORMATION PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE