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For immediate release

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Yokohama Rubber expands Versatran lineup, adding high-durability 42MPa hose with 3/8-inch diameter for overseas market

Hiratsuka, Japan—The Yokohama Rubber Co., Ltd., announces that it has added a hose with a 3/8-inch (9mm) inner diameter and a 4-spiral structure to its ISO Series of Versatran^{*1} premium hydraulic high-pressure hoses for overseas markets. Sales of the new hose were launched in September 2025.

In recent years, demand for hydraulic hoses with small diameters and high durability has increased from underground mining sites, which are the main market for Yokohama Rubber's Versatran hoses, owing to constraints imposed by narrow underground spaces and the need for greater operational efficiency and safety. The new 3/8-inch hose is part of the Versatran ISO Series that conforms to the highest durability standard, DC Type^{*2} of the ISO18752 international standard developed by the International Organization for Standardization (ISO). The new hose also meets the flame-retardant standards of the U.S. Mine Safety and Health Administration (MSHA) and provides excellent durability and safety under the harshest operating conditions. The new hose is also extremely flexible and easy to maneuver, enabling greater freedom in machine design and contributing to more efficient maintenance.

The addition of the new 3/8-inch hose expands Versatran's broad lineup in the 42MPa spec to hoses with inner diameters ranging from 3/8 of an inch (9mm) to 2 inches (50mm), which will expand the lineup's appeal to a wide range of markets and applications in addition to mining machinery.

In addition to its ISO Series, Yokohama Rubber's Versatran brand includes the 4SH/4SP Series that meets the EN856 European Standard and the R1/R2 Series that complies with the EN853 and the US Society of Automotive Engineers (SAE) J517 standard.

Yokohama Rubber is currently implementing Yokohama Transformation 2026 (YX2026), its medium-term management plan for fiscal years 2024–2026. The plan includes a strategy for MB Segment growth driven by concentrating the segment's resources in its two strongest business domains—hose & couplings and industrial products. With the hose & couplings business positioned as a key growth driver in the MB Segment, Yokohama Rubber is increasing its presence in the global hydraulic hose market by developing high-performance products that meet diverse market needs.

*1 The Versatran brand name is a combination of "versatile" and "transfer".

*2 A standard originally proposed in 2006 by Yokohama Rubber and other member companies of the Japan Rubber Hose Manufacturers Association for textile- and wire-reinforced rubber hoses. DC Class hoses are required to be highly durable and to pass an impulse test of 1 million impulse cycles at 133% of the normal working pressure.

■New 3/8-inch hose's specs

| Part Number | Inner Diameter | | Outer Diameter (mm) | Structure | Maximum Operating Pressure (MPa) | Minimum Burst Pressure (MPa) | Minimum Bending Radius (mm) | Weight (g/meter) |
|-------------|----------------|--------|---------------------|-----------|----------------------------------|------------------------------|-----------------------------|------------------|
| | (mm) | (inch) | | | | | | |
| VS42M-06 | 9.7 | 3/8 | 20.0 | 4W/S | 42.0 | 168.0 | 125 | 680 |

■Overview of Versatran ISO Series lineup

Standard : ISO18752

| Inch | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
|--------------|------|--------------|------|------|------|------|-------|-------|------|
| Dash | -04 | -06 | -08 | -10 | -12 | -16 | -20 | -24 | -32 |
| mm (Nominal) | 6.3 | 10 | 12.5 | 16 | 19 | 25 | 31.5 | 38 | 51 |
| 7.0MPa | VS07 | VS07 | - | - | - | - | - | - | - |
| 21.0MPa | VS21 | VS21 | VS21 | VS21 | VS21 | VS21 | VS21 | VS21 | VS21 |
| 28.0MPa | VS28 | VS28 | VS28 | VS28 | VS28 | VS28 | VS28 | VS28 | VS28 |
| 35.0MPa | - | - | VS35 | VS35 | VS35 | VS35 | VS35 | VS35 | VS35 |
| 42.0MPa | - | VS42* | VS42 | VS42 | VS42 | VS42 | VS42 | VS42 | VS42 |

* New 3/8-inch hose

| | | | |
|------|------|------|------|
| 1W/B | 2W/B | 4W/S | 6W/S |
|------|------|------|------|