

Mitas

NEWSLETTER FOR CUSTOMERS AND FRIENDS OF MITAS

A Lamborghini Spark 165 tractor mounted on Mitas HC 70 tires 480/70R28 (front) and 580/70R38 (rear). The rear tire is the largest of the HC 70 range and its maximum load capacity is 3,875 kg at a speed of 65 km/h and inflated to 1.6 bars, but can be increased to 5,815 kg at 10 km/h (2 bars).



HC 70: Fast yet gentle

The HC 70 is one of the three main Mitas radial tractor tire ranges. Primarily designed for modern tractors with power outputs of up to 220 hp, the construction of the range's tires allows tractors to run at up to 65 km/h and gives them higher load capacities than is common with tires of this profile. The HC (High Capacity) in the range name indicates its load capacity and recommended use. Its wide profile is also a guarantee of gentle ground handling. Slippage risk is minimized, while the rounding of the shoulder sections and rib edges means these tires are also gentle to grassy surfaces. The extended shoulder sections also ensure a comfortable and safe ride on the road. Today, Mitas offers 17 sizes of the HC 70 for rims from 24 to 38 inches.

The HC 70 tire range is suitable for the majority of modern tractors and customers can choose from many front and rear wheel combinations. The smallest size - for the front axles of tractors - is the 320/70R24 116 D (119 A8) with a diameter of 1,115 mm. Its load capacity is 1,875 kg at 10 km/h and inflated to 2 bars, or 1,250 kg at its top speed of 65 km/h (at 1.6 bars). The largest size manufactured for rear wheels is the 580/70R38 155 D (158 A8), providing a load capacity of 5,815 kg at 10 km/h and 2 bars, while at its maximum speed of 65 km/h the load capacity is still 3,875 kg (at 1.6 bars).

"The completeness of our offer, with models for almost all types of tractors that are manufactured, is a great advantage. This is also confirmed through the interest shown by the agricultural machinery manufacturers to whom we deliver HC 70 tires as original equipment. They are fitted by major international manufacturers like AGCO, John Deere, Claas, and ARGO on the production lines," says Pavel Kott, Product Manager for Mitas agricultural tires. A large part of production goes to European markets as well as the USA.

This Mitas range is also among the most popular with customers on the replacement

A Massey Ferguson 5710 tractor mounted on HC 70 tires - the front size 380/70R28 and the rear 480/70R38; its load capacity is 2,900 kg at the highest permitted speed of 65 km/h (1.6 bars).

parts market. These primarily appreciate its excellent on-road performance and characteristics. The most common combinations for front and rear axles are 420/70R28 (front) + 520/70R38 (rear), 380/70R24 + 480/70R34, 320/70R20 + 420/70R30 and 280/70R16 + 360/70R24.

"The HC70 range is a modernization of the AC 70T high-traction tread pattern, and its dimensions were developed for the higher speed of 65 km/h compared to the 40-50 km/h usual for standard tractor tires," Kott explains.

Specialties for traction and meadows

The Mitas range of tractor tires with 70% sidewall-to-width profiles also offers two other versions for special operating conditions.

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The AC 70T (Traction) is a wide traction tire for heavy field work. It differs from the standard design through its deeper tread lugs capable of high traction transfer even to soft ground. Its excellent self-cleaning ability reduces slippage and improves the traction transfer. In operation, it has a long service life, leading to cost savings. "Another of its strengths is its universality - it is suitable for a wide range of applications, for example for tractors in vineyards and orchards," says Kott.

Customers can choose from a total of 25 AC 70T sizes. The smallest, developed for the front wheels of tractors, is the 200/70R16 94 A8 (94 B) with a load capacity of 1,005 kg at 10 km/h and inflated to 2 bars. At the other end of the size spectrum is the 580/70R38 155 A8 (155 B) with an external diameter of 1,829 mm and a load capacity of 5,815 kg (again at 10 km/h and 2 bars). The highest permitted speed for the AC 70T series is 50 km/h.

The second special design - the AC 70G (Grassland) - has been developed for operation on grassy surfaces. Its large and wide rib surface protects the ground and plants. On-road, its wide tread pattern and significant central rib overlap provide a stable, safe, and comfortable ride. "It is precisely this specially designed shape of the tread ribs that gives these tires their desirable characteristics. Their large, wide surface ensures quiet on-road operation and gentleness on grass," Kott explains, adding: "Historically, this version was developed for German-speaking markets where there was demand for special tires with more material in the center of the tread for meadows and pastures." Their low wear rates also make these tires very economical to run.

Mitas today offers a total of eight AC 70G sizes for rims from 24 to 38 inches in diameter. The largest - the 520/70R38 150 A8 (150 B) - has



Conventional profile design
AC 70G Tread pattern

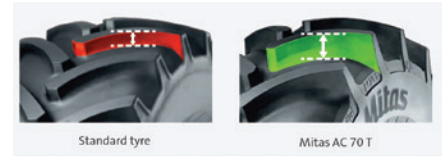
The large, wide lug areas on the AC 70G mean quiet running on the road and gentle driving over grassland.

a load capacity of 5,025 kg at 10 km/h when inflated to 2 bars. The top speed is 50 km/h.

Seventies not only for tractors

On the other hand, the multipurpose AC 70G MPT offers speeds of up to 90 km/h. These tires are designed for construction and agricultural machinery that operate on roads and paved areas at higher speeds. They feature a special carcass with a steel belt, and there are 16 sizes in the Mitas offer. The smallest is the 265/70R16 MPT AC 70G 114 G. The largest is the 495/70R30 MPT AC 70G 147 G with a load capacity of 5,540 kg at 10 km/h and inflated to 2.5 bars. Even at its maximum speed of 90 km/h, the load capacity remains 3,075 kg (at 2.5 bars).

We also find radial tires with a 70% profile in a number of other Mitas tire product groups. There are two versions in the SST (Silent Speed Tire) "silent" rear tractor tire range, which reduce



Standard tyre
Mitas AC 70 T

the so-called "booming noise effect" and therefore cabin noise by 3 to 6 dB compared to conventional tires. These are the sizes 710/70R42 173 D (170 E) and 710/70R38 171 D (168 E) for speeds of up to 70 km/h. We find other "seventies" among harvester tires. Mitas offers five sizes of special implement tires for the steering wheels of harvesting machinery with the AC 70G IMP and SFT IMP tread patterns. They are also suitable for machinery with non-traction wheels thanks to their high load capacities and flexibility. These tires offer a maximum speed of 40 km/h. There is also the AC 70 H/G/N series for the traction wheels of harvesting machinery, tires developed both to meet the requirements of agricultural machinery manufacturers and to also ensure gentle ground handling. "Modern radial tires with a 70% profile occupy an important place in the Mitas tire portfolio and are among the most numerous designs," Kott concludes. (JB)

... and don't forget



The RD-02 is a range of Cultor radial tractor tires with a 70% profile. There are 13 sizes for front and rear tractor axles, offering both high performance in the field and comfortable on-road operation. The smallest version in this range - the 320/70R24 116 A8 (116 B) - is designed for the front wheels of tractors and has a load capacity of 1,875 kg at a speed of 10 km/h and inflated to 2 bars. At the highest permitted speed of 50 km/h, its load capacity is 1,250 kg (at 1.6 bars). Loads of up to 5,815 kg can be carried by the largest tire in the RD-02 range - the 580/70R38 155 A8 (155 B) - at a speed of 10 km/h and inflated to 2 bars. At the maximum permitted speed, the load capacity is 3,875 kg (50 km/h, 1.6 bars). The Cultor brand is an alternative for farmers looking for radial agricultural tires with good properties at attractive prices.

The CR-02 road crane specialist

Radial tires for mobile cranes are among the most mature products in the Mitas range for construction and material handling machinery. They stand out primarily through their high load capacities, mainly achieved thanks to their all-steel construction. Today, the Mitas brand offers three sizes with the CR-01 tread pattern supplemented by a single size with the modified CR-02 tread pattern.

Compared to its predecessor, the CR-02 offers a symmetrical tread pattern with differently arranged shoulder sections and reduced rolling resistance and heat generation during operation. Its construction reduces noise levels at all speeds and improves both user comfort and fuel economy.

The CR-02 is manufactured in the 445/95R25 174F size with a static load capacity of 16,750 kg (inflated to 9 bars). Even at its top speed of 85 km/h, the load capacity remains 6,500 kg (also inflated to 9 bars). "We developed the CR-02 tread pattern in cooperation with the construction machinery manufacturer Liebherr, and we succeeded in achieving even lower fuel consumption than with our CR-01. We are currently supplying the 'zero-two' as an aftermarket tire, but we are also in talks with precisely this manufacturer regarding original-equipment supplies," says Jaroslav Musil, Mitas Product

Manager for material handling & construction tires. Two CR-01 sizes are already being supplied to this firm as original equipment for their mobile cranes.



The CR-02 tires offer high operating economy on the road thanks to lower rolling resistance.

Both Mitas crane tire tread patterns are designed for speeds up to 85 km/h. Their all-steel construction gives them low rolling resistance, which is positively reflected in fuel consumption. The open tread lugs give them excellent traction and self-cleaning ability. The durable tire carcass is suitable for retreading and the CR-01 tread pattern enables service life extension through regrooving. The tires are labelled M + S and meet winter operation requirements. They are also

homologated according to the EU standards 92/93, 2001/43 and 2005/11 concerning noise reduction. They are manufactured for 25-inch-diameter rims with tread widths from 385 to 525 mm. (JB)

New Mitas junior motocross and enduro tires

Mitas has launched completely new motorcycle racing tires for junior riders. Nine new sizes in the TERRA FORCE-MX range hit the market in October. Along with the new motocross tires, Mitas also added four junior motorcycle tire sizes to its extreme enduro range. All the new tires are designed for 50cc to 85cc motorcycles.



The new motocross tires are offered in three versions, each for different types of terrain. The Mitas TERRA FORCE-MX MH is made from a softer tread compound for medium to hard terrain and is marked with a red and green stripe. The shape and arrangement of the knobs provide maximum traction and control. The front tire knobs deliver straight-line stability, while the rear tire knobs provide a larger contact patch.

The Mitas TERRA FORCE-MX SM (red and yellow stripe) is a tire for soft to medium terrain. The tread pattern is designed to ensure enhanced traction on soft ground. The tapered knobs bite deeply into soft terrain and provide improved acceleration, cornering and braking without loss of traction. The knobs are widely spaced and afford the tire superb self-cleaning ability.

The TERRA FORCE-MX SAND, marked with a double red stripe, is a new Mitas junior motocross tire for sandy conditions. The tread design features a semi-paddle construction with spaced knobs to ensure maximum self-cleaning. The large center rib and aggressive side knobs enhance traction. The tread compound is characterized by high hardness and will not soften during a race. The TERRA FORCE-MX SAND is available only as a rear wheel fitment and can be combined with the TERRA FORCE-MX SM front.

The development of the junior range was based on the existing TERRA FORCE-MX motocross competition range and supported by junior riders competing in various European and national championships. "We are honored



Watch the video introducing the Mitas TERRA FORCE-MX junior tires here.

that the 2019 85cc FIM Junior World Champion, Valerio Lata, achieved this remarkable success on Mitas tires, and we are keen to help young riders on their way to higher motocross classes," says Gustavo Pinto Teixeira, Vice President of the Two Wheels

and Specialty Tires business unit at Trelleborg Wheel Systems.



New sizes in the TERRA FORCE-MX range hit the market in October.

The new junior tires in the extreme enduro range are based on TERRA FORCE-MX and C-21/C-20 tires and are available in two front and two rear wheel sizes. The front tires are made from a softer compound suitable for enduro and cross-



Learn more about the junior extreme enduro Mitas tires here.

country competitions. The rear tires have the Super Soft construction with a softer carcass and an extra-soft tread compound for rocky terrain and the most demanding extreme enduro competitions.

These tires provide excellent grip and stability in all extreme enduro conditions a rider might face. Their outstanding handling characteristics and grip mean they can be used by both novice and competitive riders. Mitas test rider Tristan Hedgcock from South Africa says "What really impressed me most is the versatility of the tire across all terrains. From mud to rock and forest, junior hard enduro riders around the world now have the tire to take them wherever they want."

"For the first time, young riders will have the chance to use tires designed for extreme enduro from the beginning of their racing careers. I'm convinced that this addition will help many young talented riders grow to become successful," Teixeira added.

For further information on the Mitas product range, go to www.mitas-moto.com.

JANJA LIKAR ČARMAN, MITAS MOTO

Four new radial tires

In the last quarter of 2020, three new sizes in existing Mitas radial tire ranges were released to production, along with the first version with the completely new AR-06 tread pattern designed for towing agricultural machinery.

This new product is produced in the 500/40R17 IMP 154 A8 (142 A8) AR-06 size, and is intended, for example, for smaller seed drillers, straw balers, and smaller mowers. It is primarily suitable for off-road operation, where its traction tread pattern provides good stability even on softer ground. The load capacity of the new tire is 3,750 kg at a nominal speed of 40 km/h.

The Mitas SFT (Super Flexion Tires) range was expanded with an IF (Improved Flexion) construction version - the IF 900/60R42 CFO 192 A8 SFT. This is a top-class tire for heavy agricultural machinery with maximum load capacities at lower inflation pressures. With this, Mitas has added a design that provides even higher load capacity to the already existing 900/60R42 of the same size. The tire's extremely flexible construction increases its contact area and therefore improves the weight distribution of large agricultural machinery. The tire enables operation in the CFO (Cyclic Field Operation) mode when the weight of the machinery repeatedly changes during work in the field.

The new design was developed based on demand from an important agricultural machinery manufacturer for its large slurry applicators and spreaders. This manufacturer also uses it as original equipment. At a nominal speed of 40 km/h, the new design offers a load capacity of 11,200 kg, while in the cyclic mode the load capacity reaches 17,360 kg at speeds of up to 15 km/h.

The new 320/85R20 119 A8 (119 B), intended for the front wheels of modern tractors, has been added to the most widespread AC 85 radial tractor tire range. "We added this version because it was primarily needed for combinations with the rear size 380/85R30," says Pavel Kott, Product Manager for Mitas agricultural tires. At its maximum speed of 50 km/h, the new tire has a load capacity of 1,360 kg.

The last new product in the Mitas tire range belongs in the HCM (High Capacity Municipal)



Mitas HCM tires are particularly suitable for municipal and road maintenance tractors and equipment.

range intended for municipal machinery. The 360/80R28 IND 146 A8 (141 D), which complements the sizes for twenty-eight-inch rims, is a universal tire suitable for all terrains and applications. Its important benefits include low noise and vibration levels, achieved through different widths and distribution of tread lugs around the tire perimeter. This rugged tread pattern also offers exceptional traction, achieved primarily through the use of tread lugs with differing widths in the shoulder sections of the tire. HCM tires offer excellent self-cleaning ability, very good handling, and are intended for year-round use. The new version has a load capacity of 2,575 kg at a maximum speed of 65 km/h.



The new AR-06 tread pattern is designed for towing agricultural machinery.

"We continue to expand the Mitas tire range with new sizes and new designs to ensure we offer a complete range for all aftermarket and original-equipment market needs. This year we will be putting one or two new sizes into production every month, and will continue this trend," Kott adds. (JB)

IN short



PHOTO BY TOMASZ PRZYBYLSKI, WWW.ZMARZLIK.COM

Bartosz Zmarzlik is 2020 World Champion

Mitas rider Bartosz Zmarzlik is the 2020 FIM Speedway Grand Prix World Champion. With this title, he has become Poland's first-ever double world champion after retaining his title at the FIM Speedway Grand Prix World Championship in Torun, Poland. Zmarzlik is only the third rider in SGP history to win back-to-back championships. He ran on Mitas SW-07 (rear) and SW-12 (front) tires this season. The Great Britain icon Tai Woffinden won the silver medal in this year's FIM Speedway Grand Prix series, with Swedish star Fredrik Lindgren finishing third - also on Mitas tires.

We expand production in Otrokovice

Trelleborg Wheel Systems has expanded its production capacities in the Czech Republic. After more than two years of preparation and construction work, the first stage of production was launched at the new factory in Otrokovice. The first tire was cured on July 17, 2020, and the range will be gradually expanded. The project involves enlarging the current production hall at the Otrokovice site as well as building a completely new hall to increase the company's production capacity for its growing range of agricultural tire products.



Tires need care too

Do you know how to maintain your Mitas tires? You can learn more about the correct way to store, fit, remove, and repair tires, and get general recommendations for correct tire use on our website. You can refresh your knowledge here:



Mitas motorcycle and aircraft tires are part of the Two Wheels & Specialty Tires business unit of Trelleborg Wheel Systems.

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Mitas, part of the Trelleborg Group, is one of Europe's leading tire brands for agricultural machines, construction vehicles, material handling equipment, motorcycles, and other specialty segments. Mitas tires are produced in the Czech Republic, the United States, Serbia, Slovenia, Sri Lanka, and promoted through a global sales and distribution network.