

Husqvarna Motorcycles – Minicycles Model Year 2022

Media Information

Husqvarna Motorcycles' TC 85, TC 65, TC 50 and EE 5 machines allow younger riders to take to the dirt armed with the very best equipment and technology available today. A complete range that features three 2-stroke and one electric minicycle, all models are specifically manufactured to assist the champions of tomorrow.

With each motorcycle delivering quality and attention to detail, the entire minicycle range ensures highest levels of on-track performance together with striking design and user-friendly aesthetics.

Like Husqvarna Motorcycles' championship-winning line-up of full-sized TC and FC models, the TC 85, TC 65, TC 50 and EE 5 offer advanced performance, youth specific ergonomics and great looks. Inspiring confidence with easily controllable power, youngsters can truly focus on their own riding while having fun. With the TC 85, TC 65, TC 50 models setting the bar when it comes to top-level 2-stroke performance and durability, the EE 5 offers youngsters an all-electric machine on which they can enter the exciting world of offroad motorcycling.

Technical highlights MY22:

- Unrivalled engine performance and rideability
- WP XACT forks with AER technology → optimal performance and light weight
- Confidence instilling ergonomics thanks to a broad, flat seat and one-piece airbox covers
- Striking graphics on the TC 85, TC 65 and TC 50 showcasing Husqvarna Motorcycles dynamic approach to offroad motorcycling
- High grip seat cover for greater comfort
- Roller actuated throttle assembly for TC 85 → smoother throttle motion and improved durability
- Formula brake calipers, clutch and brake assemblies for TC 85 → excellent stopping power and improved reliability

TC 85

Setting the bar in the ultra-competitive 85 cc class, the TC 85 features much of the same technology found in the successful full-size Husqvarna motocross line-up. With a chromium molybdenum steel frame and state of the art WP suspension, young mini riders can focus on performance with total confidence. Featuring an engine that delivers a broad and controllable power delivery the TC 85 offers top-level performance and durability for the stars of tomorrow.

Frame

The professionally crafted chromium molybdenum steel frame is constructed using hydro formed tubes joined by precision robot welding to ensure the highest level of consistent quality.

The frame employs a geometry aimed at tailoring flex characteristics for optimal handling and comfort. Together with the laterally-mounted cylinder head mountings the result is advanced torsional rigidity and longitudinal stiffness. This allows the frame to move in harmony with the suspension soaking up big hits while delivering optimal agility and high-speed stability.

Additionally, the frame is fitted with “no dirt” footrests that prevent the build-up of dirt collected through deep ruts and muddy terrain. The simple but effective self-cleaning system ensures the footrests return to their original position providing complete control in all conditions.

The frame is finished off in a highly durable blue powder coating with standard frame protectors.

- Hydro formed and robot welded → highest level of consistent quality
- Advanced flex characteristics → optimal torsional rigidity and longitudinal stiffness
- “No dirt” footrests → complete control in all conditions

Subframe

Made from lightweight aluminium, the subframe features a short and compact profile contributing to mass centralisation and the overall light weight.

Swingarm

Manufactured using a gravity die-cast production process, the one-piece aluminium swingarm offers exceptional strength at the lowest possible weight. For easy maintenance, the chain adjustment markings are visible from above, making adjustment simple.

WP suspension

Mirroring the latest technology found in the Husqvarna full-size motocross range, the TC 85 features the latest WP suspension technology.

Up front, the WP XACT fork with AER technology consists of a 43 mm split fork design using a capsuled air spring in the left leg and the trusted oil damping system in the right leg. The components offer optimal suspension performance with 280 mm total wheel travel.

Additionally, adjustment is made simple thanks to the single air pressure valve and supplied air pump for preload and easy access clickers for compression and rebound.

- WP XACT 43 with AER technology → optimal performance and light weight
- 280 mm front wheel travel
- Simple adjustment → single air chamber and supplied pump, easy access clickers

On the rear, a specific version of the WP XACT PDS shock absorber is fitted to the TC 85. PDS meaning “Progressive Damping System” allows the rear end to stay stable over smaller bumps or rough terrain while also soaking up bigger hits with ease.

The WP XACT PDS is fully adjustable for preload, compression and rebound. Wheel travel is 305 mm in total.

- WP XACT PDS → advanced damping under all loads
- 305 mm rear wheel travel
- Fully adjustable preload, compression and rebound damping

Handlebar, grips, throttle

The TC 85 features a lightweight and strong tapered aluminium handlebar that is fitted with an advanced throttle assembly for easy free play adjustment.

Additionally, the TC 85 is fitted with ODI lock on grips as standard. The system includes a vulcanised grip on the right side while the lock-on grip on the left does not require glue or wire for mounting.

Bodywork/seat

The TC 85 features progressive bodywork which precisely fits the proportions of an 85 cc rider. The contact points and feeling allow the younger riders to feel the similar control and comfort found on the larger models.

The ergonomics instil confidence while leaving room for free and unrestricted movement thanks to the broad and flat seat and one-piece airbox covers. A high-grip seat cover delivers superior comfort and control in all conditions.

Cooling

The radiators are designed using CFD (Computational Fluid Dynamics) to ensure the ideal passage of air through the cooling fins. Combined with an advanced routing of the coolant circuit, the system ensures optimum engine temperature for the highest performance in varying conditions.

The radiator protectors not only serve as protection from flying rocks and debris but also serve as a brace diverting energy around the radiators in the event of an impact.

Airbox

The airbox is designed to offer the best possible performance with the highest level of filter protection. The air filter is easily accessed, without tools, by removing the left side panel. Easy maintenance is guaranteed by the Twin Air filter and filter cage design that features a simple fail-proof mounting system for safe and accurate filter installation.

Wheels and tyres

Black aluminium rims and CNC-machined hubs are fitted with MAXXIS tyres that deliver outstanding performance on a wide variety of terrain. The pattern design and rubber compound offer exceptional straight-line stability and excellent traction and predictability.

- Black wheels and CNC-machined hubs → low unsprung weight and great stability
- MAXXIS tyres → exceptional straight-line stability and excellent traction and predictability

Brakes

Formula floating brake calipers, with a 240 mm wave disc up front and 220 mm wave disc at the rear provide improved brake feel and consistent brake pad wear to ensure confident braking in any riding condition.

Additionally, the clutch and brake assembly reduces wear and ensures maximum reliability and durability.

- Formula brake calipers, clutch and brake assemblies → superior stopping power and improved reliability

Exhaust

The exhaust system is perfectly tailored to the engine's power characteristics, contributing to the outstanding performance and all-round rideability.

The header pipe is made in a three-dimensional stamping process. Once the components are shaped they are robot welded to ensure the highest level of quality and durability.

Engine

The TC 85 engine uses the latest technology to deliver unrivalled performance and rideability in the ultra-competitive 85 cc class.

Key to the engine is a power valve, which allows the power delivery to be tailored simply and effectively. Additionally, the roller actuated throttle assembly delivers a smooth sensation when opening the throttle.

- Roller actuated throttle assembly → smooth throttle motion and improved durability
- Latest in 2-stroke technology

Cylinder and piston

The cylinder is designed around the power valve system. The system controls both the exhaust valve and the sub exhaust port for optimal power, torque and controllability. As a result, the TC 85 delivers class-leading mid-range performance reducing the need to use the clutch in loamy or sandy conditions.

An adjuster screw allows the opening time of the power valve to be adjusted to suit rider preference and track conditions. By changing between different power valve springs - available in the Husqvarna Motorcycles Technical Accessories catalogue - the rate at which the power valve opens can be further tailored.

Crankshaft

The lightweight crankshaft features optimal balancing for minimal vibration and the precisely tailored rotational inertia of the crankshaft improves torque and rideability.

Crankcases

The crankcases are manufactured using a high-pressure die-cast production process that keeps wall thickness to a minimum while retaining strength and durability. The design of the cases is compact and aims at positioning the shaft arrangements as close as possible to the centre of gravity for optimal handling.

Gearbox

The TC 85 features a lightweight gearbox with motocross-specific ratios and the progressive shifting action allows the rider to select the next gear with confidence. Additionally, similar to the footrest design, a self-cleaning gear selector prevents the build-up of dirt ensuring complete control in all conditions.

Clutch

The TC 85 features a compact and durable diaphragm spring clutch. The clutch is actuated via a Formula hydraulic system meaning that play is always adjusted, and the clutch point remains the same under different conditions and over time.

TC 65

The TC 65 will be the first time many young riders experience a full race motorcycle featuring a manual clutch and gearbox. The performance as well as manual gearbox of the TC 65 bring it as close to the full-size motocross machine as possible. The TC 65 features the same level of quality as found on the larger motocross range with premium components fitted as standard.

Engine

Featuring the latest in 2-stroke technology, the TC 65 is highly competitive in the 65 cc class. Apart from using the lightest and most durable materials, the engine features a pressure controlled exhaust valve that delivers top-level performance. Additionally, the engine features a manual 6-speed transmission and hydraulic clutch allowing the rider to have full control of the power delivery.

Cylinder

The high-performance cylinder is made from lightweight and durable aluminium. Incorporating a pressure controlled exhaust valve (PCEV) the cylinder provides unrivalled performance within the highly competitive 65 cc class.

Frame

The high-strength chromoly steel frame integrates carefully calculated parameters of longitudinal flex and torsional rigidity to benefit handling and suspension functionality. It guarantees easy handling and precise cornering, along with outstanding stability. The subframe is fitted to the frame with four screws and is made of lightweight aluminium.

Bodywork

The progressive bodywork is scaled down to precisely fit the proportions of an 65 cc rider. The contact points and feeling allow the younger riders to feel the similar control and comfort found on the larger models.

The ergonomics instil confidence while leaving room for free and unrestricted movement thanks to the broad and flat seat and one-piece airbox covers.

Swingarm

Made from lightweight cast aluminium, the hollow swingarm is designed using sophisticated simulation data and calculated to have the optimal rigidity while using minimal wall thickness. As a result, the swingarm features the ideal rigidity at the least possible weight.

Radiators

An intelligent cooling circuit with integrated crankcase cooling and two radiators ensures heat dissipation. The result is constant temperature balance for consistent high performance.

WP XACT front suspension

Featuring the latest in suspension technology, the TC 65 is fitted with WP XACT forks with AER technology. Besides being very lightweight, the 35 mm USD forks feature exceptional damping and comfort characteristics that allow riders to perform with complete confidence. Thin outer tube diameters offer refined rigidity and reduced weight for optimal performance and rider comfort. With 215 mm of wheel travel, the air unit in the left fork leg can be adjusted easily with the use of an air pump for rider preference, weight or track conditions.

WP XACT rear suspension

Linked directly to the swingarm, the WP XACT PDS monoshock is matched perfectly to the front forks for the perfect balance and damping characteristics.

Additionally, the rear shock offers 270 mm of suspension travel and is fully adjustable allowing it to be tailored to rider preferences or track conditions.

Handlebars

The tapered NEKEN handlebar is made of high-quality aluminium alloy ensuring top stability and safety. Its diameter shrinks from central 28 mm area to 22 mm in the bends and the handhold area. Here a lock-on ODI grip is mounted on the left side while a vulcanised ODI grip is mounted on the right-side throttle assembly.

Additionally, the specific handlebar bend is created to offer the best ergonomic position. A crash pad on the handlebar protects the rider from rough contact.

Clutch

The reliable and light hydraulic clutch system guarantees even wear, near maintenance-free operation and perfect action in every condition. With the play being constantly adjusted, the pressure point and function of the clutch remain identical in cold or hot conditions, as well as over time.

Wheels

Mirroring the full-size motocross range, the TC 65 uses lightweight, black anodised, aluminium rims that provide the highest strength and reliability. The standard MAXXIS tyres offer progressive grip on a variety of different terrains.

Brakes

Featuring the same level of technology offered on the full-size motocross range, the TC 65 is fitted with hydraulic brake calipers and large waved front (198 mm) and rear (160 mm) brake discs. The system ensures advanced brake feeling and stopping performance in all conditions.

TC 50

Modelled after the full-size motocross models, the TC 50 features the same striking looks and ergonomic feel in a reduced size to suite the future stars of tomorrow. The similarities between the TC 50 and the larger motocross range do not end there, a superior level of quality and attention to detail are incorporated into the TC 50 making it the most premium 50 cc motocross model available. Top level performance is critical in the very competitive 50 cc class and as a result the TC 50 is built around an advanced steel frame which houses the most powerful engine in its class and leading components such as the 35 mm WP XACT fork.

Engine

The modern and compact engine features the latest in 2-stroke technology, offering class-leading performance and rideability. By using a 3-shaft design, the crankshaft is positioned near the centre of gravity, which not only benefits mass centralisation but also creates the ideal intake angle into the reed valve for top-level performance. Additionally, the engine is fitted with an automatic centrifugal clutch that reduces riding complexity for younger riders.

Exhaust

The exhaust is designed to specifically match the character of the TC 50 engine and is manufactured using a three-dimensional stamping process. Once the components are shaped they are robot welded to ensure high levels of quality and durability.

Clutch

A key feature of the TC 50 is the automatic centrifugal clutch. This allows youngsters to ride without the complexity of operating a manual clutch and gearbox. The multi-disc clutch delivers a precise and predictable power delivery across the RPM range. Furthermore, it can easily be set to suit rider preferences or track conditions without the use of any special tools.

Power reduction kit

For absolute beginners the engine power can be reduced to a moderate 5.5 hp using a kit from Husqvarna Motorcycles Technical Accessories.

Bodywork

The progressive bodywork is scaled down to precisely fit the proportions of younger riders. The contact points and feeling allow the riders to feel the perfect control and comfort found on the larger models.

The ergonomics instil confidence while leaving room for free and unrestricted movement thanks to the broad and flat seat and one-piece airbox covers.

Frame

The high-strength chromium molybdenum steel frame integrates carefully calculated parameters of longitudinal flex and torsional rigidity to benefit handling and suspension functionality. It guarantees easy handling and precise cornering, along with outstanding stability.

Swingarm

Made from lightweight cast aluminium, the hollow swingarm is designed using sophisticated simulation data and calculated to improve rigidity while using minimal wall thickness. As a result, the swingarm features the ideal rigidity at the least possible weight.

WP XACT front suspension

Featuring the latest in suspension technology, the TC 50 is fitted with a set of WP XACT forks with AER technology. Besides being very light weight, the 35 mm USD forks feature exceptional damping and comfort characteristics, allowing the rider to push the limit with complete confidence. Thin outer tube diameters offer refined rigidity and reduced weight for optimal performance and rider comfort. With 205 mm of wheel travel, the air unit in the left fork leg can be easily adjusted with the use of an air pump for rider preference, weight or track conditions.

WP XACT rear suspension

Linked directly to the swingarm, the WP XACT PDS monoshock features an updated setting that is matched perfectly to the front forks for the perfect balance and damping characteristics. Additionally, the rear shock offers 185 mm of suspension travel and is fully adjustable allowing it to be tailored to rider preferences or track conditions.

Brakes

Featuring the same level of technology offered on the full-size motocross range, the TC 50 is fitted with hydraulic brake calipers and waved front and rear brake discs. The system ensures advanced brake feeling and stopping performance in all conditions.

Wheels

Mirroring the full-size motocross range, the TC 50 uses lightweight, black anodised, aluminium rims providing the highest strength and reliability. The standard MAXXIS tyres provide progressive grip on a variety of different terrains.

Radiator

The TC 50 features a liquid cooling system for the cylinder and crankcases. The large radiators work together with the spoilers to channel air through the cooling fins, efficiently ensuring sufficient cooling in all conditions.

Handlebars

The tapered NEKEN handlebar is made of high-quality aluminium alloy ensuring top stability and safety. Its diameter shrinks from central 28 mm area to 22 mm in the bends to cylindrical ends of 18 mm in the handhold area. Here a thinner lock-on ODI grip is mounted on the left side while a vulcanised ODI grip is mounted on the right-side throttle assembly. The thinner diameter is a major benefit for youth riders to better grasp while riding increasing control and drastically reducing fatigue. Additionally, a crash pad on the handlebar protects the rider from rough contact.

Kids Functional Apparel

Focusing on the specific needs of minicycle racers and riders, Husqvarna Motorcycles provides youngsters with quality protective functional apparel that delivers innovative technical features together with comfort and durability. Mirroring the styles of Husqvarna Motorcycles' adult Apparel line, all kids items offer functional protection for enjoyable days in the saddle.

Kids Railed Helmet

Ensuring that all young racers can look good while being protected, the Kids Railed Helmet is designed specifically for kids and features a fully adjustable peak as well as a removeable, washable, moisture-wicking inner lining and cheek pads. With a dual-density EPS inner shell and outer edges that are designed for neck brace use, the helmet offers security all youngsters need.

Kids Railed Shirt

A high-performance race shirt that features a three-colour, fade-proof print with prominent Husqvarna Motorcycles branding on sleeves, back and chest. The Kids Railed Shirt is designed to keep youngsters feeling good and looking cool and features mesh panels and perforated ventilation zones for optimum ventilation.

Kids Railed Pants

Designed and manufactured to take the beating up-and-coming motocross racers hand out to their clothing, the Kids Railed Pants are reinforced with Cordura and feature a heatproof and abrasion-resistant knee structure from Kevlar®. Delivering a youth specific ergonomic fit, mesh panels aid optimum ventilation.

Kids iTrack Railed Gloves

Lightweight performance motocross gloves exclusively made for Husqvarna Motorcycles by 100%. Allowing smaller hands to have full control of their machines, the Kids iTrack Railed Gloves feature silicone printing on palms for better grip, mesh between fingers for an optimised fit, and perforated palms for best possible cooling.

Technical Accessories

Ensuring that younger riders have the technical products needed to perform and look their very best, Husqvarna Motorcycles' Technical Accessories for minicycles provide numerous options for increased performance, protection and style. Manufactured to the same high standards as all Husqvarna Motorcycles products, all parts support customisation and performance improvements.

FMF Powercore 2 Silencer

Matched to either a standard or FMF Fatty Expansion Chamber, the Husqvarna Motorcycles' FMF Powercore 2 Silencer is a must have and weight saving upgrade for all aspiring minicycle racers. Instantly adding a factory look, a richer engine sound and improved throttle response, the silencer is specifically designed for motocross use and built from high-grade aluminium.

FMF Fatty Expansion Chamber

Ensuring an easy to fit and cost-effective improvement to performance, the Husqvarna Motorcycles FMF Fatty Expansion Chamber delivers improved throttle control for better top-end speed and more traction. Made from extra-strong sheet steel to best stand up to roost impact, the pipe smooths out and improves engine performance.

Factory Start Device

Start any race the right way, with Husqvarna Motorcycles' Factory Start Device. Shifting a motorcycle's centre of gravity forwards, the device temporarily holds the front forks in a partially compressed position, preventing unwanted front wheel lift when starting. The resulting maximised forward momentum helps riders achieve much wanted holeshots.

Outer Clutch Cover

CNC machined from high-grade aluminium and anodised for a true factory look Husqvarna Motorcycles' Outer Clutch Cover stands up to the toughest conditions to bring minicycle owners' extra peace of mind.