

Regulation

Moped Acceleration Race

#MBr2022

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General:

- Each participant undertakes to carry out a technical inspection in a timely manner before the race.
- The organizer reserves the right to randomly check the displacement of the 3 fastest vehicles of each class after the races.
- Track length: 1/16 mile = 100.5 m
- In the case of water-cooled engines , **only** water may be used for cooling. (no coolants or antifreeze additives).
- Only **single-lane vehicles** will be allowed at the start of the event.
- The classification is displacement-based. Stroke and piston diameters are therefore optional for the driver.
- Nitrous oxide is allowed (must be notified to the TA).
- Fuels with nitro content are not allowed.
- Leaving the route is only permitted in the direction of travel.
- After reaching the finish line, the race track must be left as soon as possible.
- The objection - protest fee is 50 euros and must be submitted to the race director with a written declaration up to a maximum of 30 minutes after the display of the results.
- Action cams may be attached to the vehicle. A secure attachment must be ensured.
- **Driving in the paddock is prohibited. In case of non-compliance, a fine of 10 euros will be levied.**

Vehicle:

- Participating vehicles must meet the following conditions:
 - An exhaust system with silencer must be mounted (the maximum volume of **98db/A** must not be exceeded).
 - Lighting system and mirror are easy to attach and tap, but can also be removed.
 - Vehicles must have a footrest so that the feet do not hang freely in the air during a run.
 - The vehicle shall have a functioning and technically sufficient braking system.
 - All parts on the vehicle must be securely attached.
 - No dangerous objects (e.B. pointed or protruding) must be mounted on the vehicle.
 - The throttle grip must return to its starting position when released.
 - The handlebar ends must be closed (e.B. by grips).
 - **A functional ignition interrupter (killswitch) must be present on the vehicle. (Orderable by means of discount code "MBr2022" at [Mopedtuner.at](https://mopedtuner.at) and [Puch-Teile.de](https://puchteile.de).**
 - Bicycle tyres are not permitted (in all classes).
 - **A functioning braking system appropriate to the speed must be installed**

Protective clothing:

A helmet with chin protection, gloves, sturdy shoes and abrasion-resistant protective jacket and trousers must be worn. **It is not allowed to start in sweatpants or short clothing.** The protective clothing is part of the technical acceptance.

Driver:

The driver must be fit to drive and able to maintain control of the vehicle. The minimum age for participation is 18 years (for younger starters, a parent or guardian must sign). Drivers without sufficient safety clothing and obviously unfit drivers will be denied the start. Driving under the influence of alcohol and drugs is strictly prohibited. Upon request, each driver must be able to show his or her age by means of a valid photo ID.

Technical acceptance:

A technical inspection will be carried out before the race. All drivers have to attend the technical inspection (TA) before the race. Should the organizer have something to complain about, the corresponding changes must be made without discussion. Without successful technical acceptance, any participation in the event is prohibited. In general, the TA carries out a visual and functional check and is not liable for safety defects in the vehicle and protective clothing due to design or previous damage. Nevertheless, TA reserves the right to exclude vehicles from the competition that are apparently not safe. The responsibility for the condition of the vehicles and the protective clothing lies solely with the owners and drivers and not with the organizer. In addition, random inspections can be carried out to check compliance with existing requirements. The person responsible for the vehicle must take care of the dismantling himself during an inspection, in front of the eyes of the technical acceptance. Any damage, seals, sealants, operating fluids, bearings, tools and other expenses will not be replaced or provided by the organizer. The costs for this must be borne by yourself. In case of non-compliance, the start may be refused and the driver may be disqualified.

Rennablauf:

- **Training run**

During the training runs, the times driven by each driver are recorded. The response time at startup is not measured. It can be started as often as you like.

- **Rennlauf 1-2**

Each race is measured and evaluated individually, with traffic light start and reaction time. In the case of an early start, 0.7 penalty seconds plus the time started too early are added. The faster of the two times is evaluated.

- **KO system (only held in classes PA4, SM3, VSR3)**

The fastest 6 drivers qualify for the KO system and thus the last race of the above classes.

There are always classes of 2 drivers against each other. The loser of the race is eliminated and the winner qualifies for the next race. This principle is extended in every class.

The start signal is sent via traffic light start with reaction time.

In the case of an early start, 0.7 penalty seconds plus the time started too early are added.

Instructions for the traffic light start and the traffic light symbols can also be found as a PDF.

Weather conditions:

The organizer reserves the right to cancel or cancel a run due to weather conditions or other external influences on site.

The organizer also reserves the right to cancel an event prematurely due to expected adverse weather conditions.

Puch - Automatic (Puch E50/ZA50 engine):

- **For all classes in this category:**
 - Original Puch/Tomos block must be installed.
 - Original Puch/Tomos frame
 - Centrifugal clutch must be installed.
 - Creative tuning is desirable !!!

PA1: Up to 55cc Original Puch Maxi (modification allowed):

- Displacement of 55cc must not be exceeded.
- Only original Puch cylinders (aluminium chrome or grey cast iron)
- Only original carburetor Bing 12/14 with round float chamber or Bing type 17 /18 with angular float chamber
- Original interrupter ignition (VEC ignition module is allowed)
- Pedals must be present and functional.
- Fuel: Gasoline/oil racing mixture ;)
- Puch Maxi exhaust with 22mm manifold (replica allowed)
- Centrifugal force coupling 2 or 3 jaws without stiffening
- No disc brakes
- No diaphragm inlet (whether housing or cylinder)
- Only original swingarms
- Only original front fork (P1 fork allowed)
- Translation freely selectable
- Original attachments must also be available.

PA2: Up to 50cc Open:

- Editing the engine block is optional.

- Displacement of 50cc must not be exceeded.
- All cylinders may be mounted (air- and water-cooled)
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, ...)

PA3: Bis 70cc Street Legal

- The moped must be registered. To be submitted to the TA.
- Displacement of 70cc must not be exceeded.
- No membrane inlet into the housing.
- License plates, lights and mirrors must be removed or taped off.
- Maximum carburetor size: measurable 19.5mm.
- Only exhaust systems that can be purchased from the well-known shops are permitted (No self-welded exhaust systems).
- Translation is optional.

PA4: Open:

- Editing the engine block is optional.
- All cylinders may be mounted (air- and water-cooled).
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, ...).
- Modifications to frames, swingarms, rims etc. are allowed.

Puch switching motors:

- **For all classes in this category:**
 - Original Puch engine block must be used.
 - Creative tuning is desirable !!!

PS1: Up to 60cc:

- Displacement of 60cc must not be exceeded.
- Only original Puch cylinders and their replica
- Carburetors are exempt.
- Ignition is optional.
- Fork and swingarm original Puch
- Original frames only
- Sport exhaust allowed

PS2: Up to 90cc:

- As already generally mentioned, a Puch engine block must be used.
 - Its transformation is optional.
- Any cylinders may be mounted.
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, ...).

Schaltmoped:

- **For all classes in this category:**

- The class "shift moped" is for 2 stroke mopeds (Supermoto, Enduro, racing machine, etc.) with manual transmission. (Shift scooters do not fall into this class)
- Fuel: petrol/oil mixture or fresh oil lubrication by oil pump.
- Only modern 2 stroke switching mopeds (Derbi, Aprilia, Gilera, Rieju, etc.).
- Bore and stroke are exposed. The displacement may not be exceeded in the respective class.
- Only water-cooled engines are allowed.
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, etc.).
- Slicks, tire warmers and the like are allowed.
- Modifications to frames, swingarms, rims etc. are allowed.

SM1: 50-70cc:

- All engines/setups with 50-70cc displacement.
- Displacement of 70cc must not be exceeded.

SM2: 71-80cc:

- All engines/setups with 71-80cc displacement.
- Displacement of 80cc must not be exceeded.

SM3: 81-120cc:

- All engines/setups with 81-120cc displacement.
- Displacement of 120cc must not be exceeded.

Variomatik:

- **For all classes in this category:**

- The class "Variomatik" is for 2 stroke scooters and similar vehicles with Variomatik (CVT) drive.
- Fuel: petrol/oil mixture or fresh oil lubrication by oil pump.
- Only "modern" 2 stroke scooters with variomatic drive (Piaggio, Gilera, Yamaha, etc.).
- Bore and stroke are exposed. The displacement may not be exceeded in the respective class.
- Water- and air-cooled engines are allowed.
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, etc.).
- Slicks, tire warmers and the like are allowed.
- Modifications to frames, swingarms, rims etc. are allowed.

V1: 50-70cc:

- All engines/setups with 50-70cc displacement.
- Displacement of 70cc must not be exceeded.

V2: 71-100cc:

- All engines/setups with 71-100cc displacement.
- Displacement of 100cc must not be exceeded.

V3: Open:

- All engines/setups with 2 stroke variomatic motor.
- All setups with over 100cc fall into this class. There is no displacement limit.

Vespa / Schaltroller:

- **For all classes in this category:**
 - The class "Vespa/shift scooter" is for 2 stroke shift scooters with manual transmission.
 - Fuel: petrol/oil mixture or fresh oil lubrication by oil pump.
 - Only 2 stroke engines with manual drive (Vespa, Lambretta, Schwalbe, etc.).
 - Bore and stroke are exempt only the displacement may not be exceeded in the respective class.
 - Water- and air-cooled engines are allowed.
 - Carburetor size is optional.
 - Any inlet systems are allowed (diaphragm, rotary vane, etc.).
 - Slicks, tire warmers and the like are allowed.
 - Modifications to frames, swingarms, rims etc. are allowed.

VSR1: up to 140cc:

- All engines/setups with a displacement of up to 140cc.
- Displacement of 140cc must not be exceeded.

VSR2: 141-200cc:

- All engines/setups with a displacement of 141-200cc.
- Displacement of 200cc must not be exceeded.

VSR3: ab 201cc:

- All engines/setups with a displacement from 201cc.

Classical music

- **For all classes in this category:**

- Mopeds and vintage cars up to year of construction 1987
- Bore and stroke are exempt only the displacement may not be exceeded in the respective class.
- Carburetor size is optional.
- Any inlet systems are allowed (diaphragm, rotary vane, etc.).
- Slicks, tire warmers and the like are allowed.
- Modifications to frames, swingarms, rims etc. are allowed.
- Fuel: petrol/oil mixture or fresh oil lubrication by oil pump.
- Water- and air-cooled engines are allowed.

K1: Up to 60cc:

- All engines/setup up to 60cc displacement.

K2: Up to 90cc:

- All engines/setup up to 90cc displacement.

K3: 90cc-280cc:

- All engines/setup with 90cc to 280cc displacement.