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Regulations of the International Championship “Battle of mini-robots”

Coordinator of the International Championship “Battle of mini-robots” is the Ministry of Digital Development, Communications and Mass Media of the Russian Federation

The Operator of the International Championship “Battle of mini-robots” is the Autonomous Non-Commercial Organization "Engineers and Robots."

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Content:

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1. General terms

1.1 Objective

The objective of the International Championship «Battle of mini-robots» (hereinafter referred to as the Championship or the event) is to foster engineering thought in Russia, as well as to attract attention to modern and promising technologies, in-demand areas of engineering sciences, to develop the robotic movement, and to instill in the participants of the Championship a need for acquiring new knowledge and competencies.

1.2 Organisers of the Championship

The Coordinator of the Championship is the Ministry of Digital Development, Communications and Mass Media of the Russian Federation (hereinafter referred to as the Coordinator).
The Operator and the entity responsible for the technical expertise of the Championship is the Autonomous Non-Commercial Organization "Engineers and Robots" (hereinafter referred to as the Operator).
The region conducting the stage is the subject of the Russian Federation that hosts the stage of the Championship (hereinafter referred to as the Region).

1.3 Distribution of Responsibilities of the Organisers

1.3.1 Coordinator takes on the following responsibilities:

- Coordinating the preparation and conduct of the Championship;
- Forming the organizational committee for the preparation and conduct of the Championship.

1.3.2 Operator takes on the following responsibilities:

- Developing the documentation regulating the conduct of the Championship;
- Organising the activities necessary for the conduct of the Championship:
    - Organising the application campaign for participation in the Championship;
    - Selecting teams for participation in the Championship;
    - Organising the stages of the Championship;
    - Organising promotional events as part of promoting the Championship;
- Implementing the communication campaign for the Championship;
- Conducting technical expertise during the Championship;
- Interacting with teams during the Championship:
    - Monitoring the development and manufacturing of robots in a remote format;
    - Monitoring the creation of the image, character, and other necessary elements for the Championship team in a remote format;

- Communicating with participants on all organizational matters related to the conduct of the stages of the Championship;
- Organising and coordinating teams at the Championship venue;
- Ensuring compliance with public and fire safety regulations at the Championship venues in accordance with the legislation of the Russian Federation.

1.3.3. Region of the Championship Stage:

- The region shall provide a venue for the Championship stage that meets the technical requirements for conducting the Championship, ensures its operation, and organizes the Championship stage within the territory of the subject of the Russian Federation.

1.4 Participants' Responsibilities

A participant of the Championship is a team of 1-5 individuals who have applied in the prescribed form and have successfully passed the selection process in accordance with the Regulations.
Participants of the Championship assume all risks associated with the design, production, and testing of robots.
The Organisers of the Championship recommend that participants refrain from starting the assembly of their robot until they have been notified by the Organisers that their application has been accepted.
The relationship between the Participant and the Championship Organiser is governed by the agreement to participate in the Championship.

1.4.1 Participants undertake the following obligations:

- To develop the concept of the robot;
- To design the robot;
- To manufacture the robot at their own expense;
- To timely provide reports on the preparation of the robot as requested by the Organisers;
- To appoint a responsible person for the media support of the team and provide their information (full name, contact phone number) to the Organisers at the application submission stage;
- To ensure the maintenance of the team's community on the social network VKontakte in accordance with the Regulations for community management;
- To prepare necessary photo and video materials upon request from the Operator;
- To provide the Operator with any other project-related information within 24 hours of the request;
- To ensure the delivery of the robot to the Championship venue and back;
- To ensure the transportation of participants to the Championship venue and back, as well as provide accommodation for participants during the preparation and competition days;
- To equip the robot with necessary spare parts and consumables for participation in the Championship;

- To provide the Organisers with a complete list of imported equipment in accordance with the form provided by the Operator;
- To participate in the competition;
- To ensure technical support, repair, and maintenance of the robot at the Championship venue;
- To comply with safety and public order regulations at the event venue.

1.4.2 Participants are responsible for:

- Providing false information in any communications with the Organisers during the project;
- Posting publications about participation in the project without prior approval from the Organisers in accordance with Article 14.3 of the Code of Administrative Offenses of the Russian Federation, as well as the provisions of the Federal Law "On Advertising" dated June 13, 2006, No. 38-FZ.

1.4.3 Principles of Conduct at the Championship

In communication with Organisers and opponents, participants adhere to the principles of mutual respect, honesty, and openness, and do not allow the following during the preparation for the competitions and at the competitions themselves:

- Insults directed at participants;
- Causing harm to participating teams, apart from damage to the robot incurred during the bout (intentional damage to team property, theft, etc.);
- Providing false testimony during technical expertise;
- Attempts to deceive during the bout (signal jamming, replacement of robot components, etc.).

1.5 Organisers’ Responsibilities

The Organisers undertake the following obligations:

- Processing applications from participants;
- Monitoring the development and manufacturing of robots in a remote format;
- Monitoring the creation of the image, character, and other necessary elements for the Championship team in a remote format;
- Assisting participants in producing promotional videos for the team;
- Providing meals for team members during the event days; Interacting with the team and coordinating the team at the Championship venue — including meeting arrangements, accommodation, and logistics;
- Providing each team with a workspace in the repair zone, which includes a table for robot setup, chairs for the number of team participants, two power outlets (220V), and a separate equipped area for welding work. The total area of the workspace shall be at least 5 m^2;
- Ensuring the safety of citizens and public order at the event venue.

The Organisers of the Championship bear no material or any other liability in the event that a participant's application does not qualify.

1.6 Rights of the Parties

Organisers have the right to deny a team participation in the Championship if the team does not comply with the conditions of these Regulations.

Participants are entitled to seek sponsorship support. All potential sponsors of the teams shall undergo an accreditation procedure with the Championship Operator. Interaction with sponsors and partners is based on the Regulations concerning sponsors and partners of the Championship.

1.7 Date and Venue

The structure of the Championship includes the conduct of qualifying stages and the final stage.

1.7.1 Qualifying Stages

The number of participating teams in each qualifying stage and the number of teams that will advance to the final stage based on the results of the qualifying rounds are determined depending on the number of qualifying stages.
The losing teams are placed in reserve. If a team that has advanced to the final stage is unable to participate in the final stage or is disqualified, the Organisers have the right to invite a reserve team to participate instead of the eliminated team.
The number, dates, and location of the qualifying stages are determined by the Organisers.

1.7.2 Final Stage

The final stage of the Championship will involve 16 teams that have succeeded in the qualifying stages. In case the winning team is unable to participate in the final stage or is disqualified, the Organisers have the right to invite a team from the reserve list to take the place of the withdrawn team.

The dates and location of the final stage will be determined by the Coordinator.

1.8 Team Requirements

A team can consist of one to five members. The age of the team members is from 10 to 17 years old. Each team shall be accompanied by a mentor who is over 18. The team shall include a captain and a pilot (it is allowed for one person to fulfill these roles), and other roles can be distributed freely within the team.

1.9 Application Submission and Selection

1.9.1 Application Submission

Russian teams submit their applications on the Unified Portal of Public and Municipal Services www.gosuslugi.ru/bitvarobotov, while foreign teams submit their applications to the email ano@x-holding.ru in accordance with the approved application form (Appendix 1).
The application can be submitted by either an individual or a legal entity. The person responsible for completing the application is the team captain. If the application is submitted by a legal entity, it is necessary to attach a document confirming the organization's consent to participate in the Championship, on the official letterhead of the Organization and signed by an authorized person. The letter is to be written in free form, with a mandatory indication of the basis for the signatory's authority. If an application from an educational institution is accepted as a participant, the Championship Participation Agreement is signed between the Operator and the educational institution as a legal entity.

The Championship Organisers will review the applications throughout the entire submission period. Upon the conclusion of the submission period, the Organisers will send an official response containing either an acceptance notification or a rejection.

An application may be rejected in the following cases:

- The application was submitted after the deadline for submissions;
- The information provided in the application is inaccurate or incomplete;
- The presented robot design copies or has a high degree of similarity to designs in already submitted applications;
- The robot design does not comply with these Regulations;
- The design has a low likelihood of assembly.

If a team receives a rejection, they have the right to refile their application and submit it for participation in the next season of the Championship.
In the case of application acceptance, the team is not allowed to make changes to the robot's design without prior agreement.

1.9.2 Application Selection

The Operator has the right to allocate additional quotas for participation to representatives of countries where partners of the Championship have been identified and agreements on cooperation have been signed, drawn from the quotas allocated for foreign teams. The number of quotas for each country is determined individually by the Operator, and the total number of quotas for partners cannot exceed 40% (i.e., no more than 3 spots).

In the case of allocating quotas for partner countries, the information campaign, collection of applications, and formation of the application ranking are carried out by the Championship partner within the country in strict accordance with the Regulations. The participants of the Championship representing the partner country are the teams that achieved the highest positions in the formed ranking. Following the selection, the partner provides the Operator with a complete list of teams that applied for participation, as well as the profiles of experts and assessment reports based on which the ranking was formed within the country.

The Operator has the right to invite teams that submitted applications but did not make it onto the participant lists from their country to participate in the Championship.

1.9.3 Application Selection

The Operator of the Championship conducts the application selection within the timeframe established by these Regulations. Applications that contain content contrary to these Regulations will be rejected at the selection stage. Up to 32 teams will be selected for the qualifying stages, including a quota for foreign teams is 4 places.

In the event that more than 32 applications are submitted from Russia, and if more than 4 applications are submitted from foreign teams, the Operator will create separate rankings for Russian and foreign teams.

In the ranking, each application is assigned points based on specific criteria:

Robot Design	3 points
Team Image	3 points
Construction Thoroughness	5 points
Construction Reliability	5 points
Autonomous Functions	3 points
Previous Experience	3 points
Support for the team from the educational organization	2 points
The Use of Russian Components	1 point
Total	**25** points

Each application is evaluated independently by three Organisers. The points are distributed according to Table 1.

Table 1

Criteria	1 point	2 points	3 points	4 points	5 points
Robot Design	No special design (a monochromatic frame of simple shape)	Design of original color	Complex shape, decorative elements, multi-colored design	-	-
Team Image	No special image, no uniform, no team legend	Minimal team image which is branded T-shirts, matching clothing items. However, the connection to the team's lore is not obvious or only weakly traceable. The implemented stylistic elements/ visuals are rather generic, and the overall image does not feel complete	The team has a well-developed style and image. There is a history and legend	-	-
Construction Thoroughness	Unfinished sketch, rough outline	Sketch project with minimal development of key component, general drawing	Drawings of components, sketch model	Elaborate model, assembled prototype	Ready, tested robot
Construction Reliability	The design documentation does not allow for an assessment of the reliability of the structure	The design incorporates unreliable technical solutions (automatic devices instead of disconnectors, batteries from hoverboards, etc.)	There are deficiencies in the design (incorrect shape, poor weight distribution, low ground clearance, etc.)	The structure is designed reliably, with minor weak points	The structure is designed reliably, with all components made according to the specified loads

Criteria	1 point	2 points	3 points	4 points	5 points
Autonomous Functions	No functions	Assistance function (striking the opponent when entering the hit zone)	Full autonomy	-	-
Previous Experience	No experience	Participation in the ⅛ international championships	Prize-winning position in the international championships	-	-
Availability of support from an educational organization	No consent letter for the organization's participation in the Championship	There is a consent letter for participation in the Championship from the educational organization	-	-	-
The use of Russian components	Drives, electronics, materials (metal, composite). Fasteners and wires are not considered	-	-	-	-

The rankings of applications are formed from the sum of scores. The Championship will include the top 56* Russian teams and 8 foreign teams in the compiled rankings will become the participating teams in the Championship.

If there are fewer than 8 applications from foreign teams, the remaining slots from the quota will be filled by inviting Russian teams according to their rankings.

In case a team is unable to participate in the Championship or is disqualified, the Organisers have the right to invite the next team in the rankings to participate in place of the withdrawn team. The results of the application selection will be published on the official Championship website gosuslugi.ru/bitvarobotov. Participants who pass the selection will also receive notifications of the selection results via email.

**The number of participating teams will be determined based on the available funding.*

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1.9.4. Deadlines for applications

The exact dates for the application campaign, application selection, and the announcement of the list of participants will be published on the Championship website: https://www.gosuslugi.ru/bitvarobotov

Application deadline is until April 13, 2026.
Application selection by the Organisers is until April 19, 2026.
Announcement of selection results: April 22, 2026.

2. Requirements for Robots

2.1 General Rules

2.1.1 Mobility

Robots are categorized into 3 types based on their means of locomotion: those with standard locomotion, those with non-standard locomotion, and walking robots.
Standard locomotion methods include wheels and tracks.
Non-standard methods include walking mechanisms (shuffle), bristle bots, flying systems, gyroscopic precession; torque reaction, Jansen mechanisms, air-cushioned vehicles (hovercrafts), and screw mechanisms.

Walking robots shall have at least 2 degrees of freedom in each leg. The use of crankshaft is not permitted in walking mechanisms. Robots with rolling or sliding mechanisms are not classified as walking robots. To be designated as a “Walking” robot, this must be pre-approved by the Organiser.
All the movements of the robot shall be controllable. The minimum speed of the robot should be 5 km/h.

2.1.2 Robot Control

The robot shall have a reliable radio control system. Autonomous functions of the robot are allowed if they can be remotely enabled or disabled at any time.

2.1.3 Weapon

The robot shall be equipped with at least one active weapon capable of causing significant damage to the opponent. Interchangeable (modular) weapons are permitted, and the robot's configuration can be changed within the parameters stated in the application between fights.

2.1.4 Cluster and Auxiliary Robots

A robot can consist of one or more primary robots. Each such primary robot shall comply with all the points of these Regulations. The robot composition may also be supplemented by auxiliary robots (aerial and/or ground-based). The total mass and dimensions of all the robots (primary and auxiliary) shall not exceed the parameters specified in sections 2.1.5 (dimensions) and 2.2 (mass) of the Regulations.
The total number of auxiliary robots shall not exceed two.

2.1.5 Dimensions

Each robot or cluster group of robots shall start the fight fully contained within a 30cm x 30cm square. The maximum dimensions of the robot or cluster robots are the following:

- Length is 25cm
- Width is 25cm
- Height is 25cm

2.1.6 Component Protection

Batteries, high-pressure cylinders, fuel tanks, and fuel pipelines shall be sufficiently protected. If any elements are exposed to the weapons of other robots, the robot may not be allowed to compete.

2.2 Robot Weight

2.2.1 Weight Limit

The maximum weight of the robot is 1,5 kg. There are no restrictions on the minimum weight. When using cluster robots, the total weight should also not exceed 1,5 kg.

2.2.2 Weight of Auxiliary Robots

The weight of any auxiliary robot should not exceed 1,5 kg.

2.2.3 Weight Measurement

The robot's weight is measured at the event venue using the Organisers' scales. Only the readings from the Organisers' scales are considered; any other measurements are not considered. The Organisers recommend leaving a margin of 0,05-0,1 kg.

2.2.4 Exceptions

Protective covers and weapon locking devices of the robot are not considered during the measurement.

2.2.5 Weight Bonus

Teams using non-standard locomotion methods receive a weight bonus of 150 grams. Teams using walking robots or autonomous robots receive a weight bonus of 1 kg. Autonomous robots receive (see 2.12) a 1 kg mass bonus.

2.3 Robot Activation and Deactivation

A robot will not be allowed to compete if there is no provision for safe deactivation of the robot. The activation and deactivation of the robot shall be performed by a single person within 1 minute.

2.3.1 Main Switch

The robot shall be equipped with at least two switches: a drive switch and a weapon switch. The use of more than two switches is allowed. The switch shall mechanically break the electrical circuit of the robot.

Turning off the robot should be simple enough for any participant to do. During the robot shutdown, there should be no weapon between the person and the switch. Shutting down the robot should not require lifting or turning the robot.

A special tool can be used to shut down the robot. If a special tool is used, the team shall have at least one additional set of tools.

The most preferable option is a loop-breaker switch. The loop should not extend beyond the robot's frame. The use of special mechanical breakers is allowed. If such a switch is used, the participants shall prove to the Organisers the functionality of the mechanism.

If the robot has a spinner body, the switch shall be placed on top in the middle, on the axis of rotation. If this is not possible, the switch can be placed on the bottom of the robot, but in this case, a special device shall be created to allow one person to rotate the robot without touching it with bare hands. There should be at least 2 such devices.

2.3.2 Work Indicator

The robot shall be equipped with a visual indicator of operation. The indicator light should be on when power is supplied to the weapon or drivetrain. The indicator light should be clearly visible.

2.3.3 Robot Activation

Robot activation should not take longer than 1 minute, including the removal of protective covers and blocking devices. In the case of cluster robots, the activation of all robots should also be completed within 1 minute.

2.3.4 Robot Deactivation

Robot deactivation should not take longer than 1 minute. After deactivation, the robot should not have the ability to move or activate the weapon. In the case of severe damage to the robot, the time restriction can be lifted. Before the robot exits the arena, it shall be deactivated.

2.4 2.4 Power System

All wiring in the robot shall be done neatly and securely. All contacts shall be insulated.

2.4.1 Maximum Voltage

The maximum voltage on the weapon drive or wheel drive of the robot shall not exceed 36V.

2.4.2 Batteries

Batteries shall be securely mounted inside the robot body and protected from punctures or damage. Battery terminals shall be insulated to prevent short circuits. Battery types that cannot spill or spray are allowed. Approved battery types include NiCd, NiMh, Pb, LiFePo4, LiPo, AGM. The use of batteries with signs of mechanical damage or swelling is not allowed.

2.5 Remote Control System

It is recommended to use commercially available radio control systems for RC models operating on the DSS protocol. Most commercially available systems have sufficient interference immunity. Participants are responsible for ensuring that their radio control system does not interfere with the opponent's systems. The control system shall be equipped with a fail-safe function to stop the robot when the signal is lost. If the system creates interference for other participants, the team may be disqualified.

2.6 Robot Construction Materials

If teams are unsure about the permissibility of using certain materials, they should contact the Organisers for clarification.

2.6.1 Allowed Materials

Steel, aluminum, titanium, composite materials, plastics, and other metal alloys are allowed.

2.6.2 Prohibited Materials
The use of active metals (cadmium, mercury), toxic materials, easily flammable materials, asbestos, fabric, liquids, glass, ceramics, and radioactive materials is prohibited.

2.6.3 Magnets
If teams use magnets in components, other than relays, motors, or solenoids, they shall contact the Organisers for prior approval.

2.7 Fire

The use of fire is NOT allowed.

2.8 Weapon

Each robot, including cluster robots, shall have at least one active weapon. If the weapon appears incapable of inflicting significant damage to the opponent, the robot may not be allowed to compete.

2.8.1 Definition of a Weapon
A weapon is a part of the robot that can be independently activated regardless of the robot's movement. The weapon may be used in conjunction with the robot's mobility, but the primary damage shall be inflicted by the weapon itself. Wedges, spears, and bumpers are allowed, but the robot shall have an additional active weapon.

2.8.2 Combined Weapon
A robot can have more than one weapon. The use of modular weapons that can be changed for different opponents is also allowed.

2.8.3 Maximum Speed of Robot Parts
None of the robot's parts should move faster than 410 km/h at the fastest point.

2.8.4 Weapons for Cluster Robots
Each cluster robot shall be equipped with an active weapon. The requirements for the weapon are the same as for the main robot.

2.8.5 Auxiliary Robot Weapons

Auxiliary robots may not have an active weapon.

2.8.6 Prohibited Weapons

The use of entangling devices (nets, ropes, fabric) is prohibited. Creating radio interference, using electromagnetic cannons, and electric shockers is also prohibited.
The use of liquids, smoke screens, aerosol sprays, fire, light devices, strobe lights, lasers to distract the opponent, and magnets is prohibited.

2.9 Internal combustion engines

Internal combustion engines (ICE) are NOT allowed.

2.10 Pneumatic System

The pneumatic system shall be equipped with a pressure release device. The use of devices for heating gas containers is prohibited.

2.10.1 Pressure

The pressure of stored gases in cylinders shall not exceed 350 atm. The gas pressure in the actuator shall not exceed 60 atm.

2.10.2 Allowed Gases

The pneumatic system allows for the use of nitrogen, air, and CO2. The Organisers provide argon and CO2 cylinders with a volume of 40 liters for robot refueling. The team is required to inform in advance if they need their robot refueled. The refueling hoses should be provided by the team. If compressed air refueling is needed, the team shall provide their own air pump station.

2.11 Hydraulic Systems

The maximum pressure in the system is 220 atm. The maximum pressure can be increased if the participants convince the Organisers of the system's reliability. The hydraulic fluid shall be non-combustible, non-corrosive, have medium or low toxicity, and be suitable for the maximum pressure used in the hydraulic system.

2.12 Autonomous Robots

Autonomous robots are granted a mass bonus of an additional 1 kg. A robot is considered autonomous if, after the start of the battle, it is controlled without human intervention. The transmission of the starting and finishing signals to the robot is allowed for a maximum of 5 seconds at the beginning and end of the battle.
The team can request in advance from the Organisers the possibility of installing cameras for computer vision systems around the arena. Installation is allowed in locations that do not obstruct the view of other participants.

An autonomous robot shall have an additional indicator signaling that the robot is in autonomous mode. Activation and deactivation of the autonomous system shall be done remotely. After activating the autonomous system, it is prohibited to interfere with the robot's control.

2.13 Safety

Each robot shall be equipped with a shutdown system. Launching the robot outside of the arena or the test box is not allowed. In the repair zone, the robot shall be placed on stands to lift the wheels off the surface of the table.

All moving weapons shall be equipped with locking devices such as chains, spikes, or other mechanisms.

Batteries should be stored outside of the robot, either in special bags or steel boxes.

Participants shall familiarize themselves with the additional safety instructions and rules for operating on the arena in the Safety Technical Regulations. Violation of safety rules may result in immediate disqualification of the team.

2.14 Procedure for Disqualification of a Robot

Disqualification due to non-compliance with these Regulations is possible if a technical expert concludes that the robot does not meet the requirements stated in these Regulations due to its design characteristics, specifically if the robot does not meet the requirements stated in sections 2.1-2.13 of these Regulations.

Upon the recommendation of the Organisers, the robot may be directed to rectify the non-compliance. If the team refuses to rectify the non-compliance, they will be disqualified. The team may also be disqualified if they fail to fulfill the obligations undertaken as specified in point 1.4 of these Regulations within the deadlines specified in these Regulations.

3. Arena for the Championship “Battle of mini-robots”

The arena has the following parameters:

- Size is not less than 2x2 m;
- Height of the protective glass is a standard sheet size of 1 meters from the surface of the support structure;
- Thickness of the protective glass is not less than 10 mm;
- The ceiling should be covered with protective glass of at least 10 mm thickness.

3.1 Robot Control Zone

The members of the teams are provided with space in the robot control zone, where they control the robots with remote controls. The robot control zone has the following parameters:

- Length is not less than 1 m;
- Width is 1 m.

The Organisers reserve the right to modify the parameters, configuration, and layout of the arena depending on the location of the Championship.

4. Competition Procedure

The competition consists of battles between robots.

4.1 Competition duration

The competition lasts for 1 or 2 days.

4.2 Tournament Table

The tournament table for each stage is determined by a draw no later than 24 hours before the competition day.

4.3 Bout

A bout is a confrontation between two robots with weapons on the arena. The objective for the opponents is to inflict maximum damage on each other. The duration of a single bout is 3 minutes, after which a winner is determined.

4.4 Robot’s Immobility

If both robots become immobile after a collision (are stuck together and cannot separate), the timer is paused. The robots are separated to opposite sides of the arena, and the bout continues.

4.5 Referee

The referee monitors the progress of the bout and ensures that the participants adhere to the rules. The referee announces the start, stop, continuation, or end of the bout.

4.6 Knockout

If a robot remains motionless during the bout, the referee gives a countdown. If the robot does not resume movement before the countdown ends, the referee stops the bout.

4.7 Intentional Blocking

Intentional blocking of an opponent’s movement by pinning them in a corner, pressing them against a barrier, or lifting the drive units above the surface of the arena, provided that the blocking robot has the ability to move but does not do so, does not constitute a victory. In this situation, the blocking robot is required by the judges to free the opponent's movement area. If the requirements are not met, the behavior is interpreted as an attempt to disrupt the bout: the blocking robot may be disqualified at the judges' discretion. In such a case, victory is awarded to the blocked robot.

4.8 Technical Break

Technical breaks are scheduled between bouts for the repair and preparation of robots.

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5. Judging Principles

5.1 Judging Committee of the Championship

In the judging of the Championship, judges are involved. The results of the judges' decisions are recorded in official protocols, which are signed by each judge and the chairman of the judging committee. The judges have all the authority of the Organisers throughout the competition, and all participants shall comply with their decisions. To enable judges to make prompt and objective decisions, technical experts are present on the arena. Technical experts, when necessary, inspect the robots and provide expert opinions to the judges. The technical experts are allowed to move around the arena during battles and observe from perspectives that are not accessible to the judging committee.

5.2 Determination of the winner

The winner is determined by the Championship’s panel of judges immediately after the conclusion of the bout. The judges' decision is based on the judging principles specified in these Regulations. A participant is considered the winner in the following cases.

5.2.1 Opponent has Lost the Ability to Move

A robot is considered the winner if the opponent has stopped moving:

- The robot's motors have failed;
- The robot is flipped over.

If one motor fails and the robot spins in place and cannot move forward or attack, the judges may declare a knockout. In this case, the robot is considered the loser. An exception is if the robot can still move its active working element. However, this is only applicable if, with functioning motors or while flipped, the robot has dealt critical damage to the opponent that has caused the opponent's motors and active elements to stop working.

5.2.2 If the Opponent’s Robot Leaves the Arena During the Bout

5.2.3 If the Opponent’s Robot Becomes Stuck in the Arena Mechanisms or Structure During the Bout and Cannot Free Itself

5.2.4 Victory by the Number of Points Scored

During the battle, the judges count the points earned by the robots. The evaluation of a robot consists of three indicators, each of which is rated on the following scale:

Damage	5 points
Aggression	3 points
Control	3 points
Maximum score	**11 points**

5.2.4.1 Damage

Damage is the reduction in the effectiveness of the opponent or the disabling of functional parts. Damage is considered even if the robot inflicts it on itself during an attack or by hitting the arena wall.

Factors of Damage

Two factors are used to assess damage:

- Functionality. This refers to the inability of robot parts to work according to their intended functions. Examples can include non-functioning weapons, disruption of robot drives leading to erratic movement, or malfunctioning flipping devices.
- Effectiveness. Judges evaluate how well the robot can continue to function despite sustaining damage. For example, a robot with 6 wheels can still operate after losing one wheel, or a robot with a spinning drum weapon can keep fighting despite losing one tooth. However, a hammer robot loses almost all effectiveness when the striking part is lost.

Damage Points Distribution Table

		Robot A			
		Minimum	Moderate	Significant	Massive
Robot B	Minimum	**	3-2	4-1	5-0
	Moderate	2-3	**	3-2	4-1
	Significant	1-4	2-3	**	3-2
	Massive	0-5	1-4	2-3	**

*** If both robots inflict the same amount of damage, the robot that landed more hits is determined and awarded 3 points.*
If both robots did not sustain any damage, the robot that caused more cosmetic damages is determined and awarded 3 points.

Damage Definition

Damage:

- Minimal damage does not reduce the functionality and efficiency of the robot;
- Moderate damage reduces the efficiency of the drive, protection, or armor of the robot;
- Significant damage destroys the functionality of the drive system, weapon, or armor of the robot. Reduces the effectiveness of two or more systems;
- Massive damage destroys the functionality of two or more systems of the robot.

Examples of functionality:

- Drive. Non-functional drive on one side, forcing the robot to move in a zigzag pattern;
- Armor. Parts of the armor are detached, exposing the internal components;
- Weapon. The rotating weapon has stopped rotating.

Examples of effectiveness:

- Drive. Axle is bent, part of the tire is damaged, but the robot is still able to move in a relatively straight trajectory;
- Armor. Wedges are detached, significant bends and cuts;
- Weapon. Tooth is detached, imbalance, but the weapon continues to rotate.

5.2.4.2 Aggression

Aggression is evaluated based on the frequency, severity, and boldness of intentional attacks on the opponent.

Aggression Factors

The following factors are used to assess the overall aggression of the robot:

- Frequency. The number of attempted attacks throughout the entire bout. If the opponent robot tries to evade the attack, it still counts as an attempted attack;
- Severity. The intensity or strength of each attack;
- Boldness. Whether the robot attacks the opponent with a risk to itself.

Points Distribution Table for Aggression

		Robot A		
		Minimal	Moderate	Significant
Robot B	Minimal	**	2-1	3-0
	Moderate	1-2	**	2-1
	Significant	3-0	1-2	**

Aggression Definitions

- Minimal. The robot stays in place and waits for the opponent to attack or move away to avoid an attack;
- Moderate. The robot occasionally shows courage or intent by using its active weapon or ramming to attack;
- Significant. The robot frequently demonstrates courage or intent by using its active weapon or ramming to attack.

5.2.4.3 Control

Controlling the robot for the operator involves the ability to attack the opponent's weakest points using the robot's weapon in the most effective way while avoiding self-inflicted damage. Control is also demonstrated by the ability to push the opponent during a pushing bout.

Control Factors

The following factors are used to assess the overall control of the robot:

- How well the robot can choose when and how to attack the opponent;
- How well the robot avoids getting hit by the opponent's weapon;
- How well the robot avoids the arena's weapons (such as flippers or hammers with screws);
- How well the pilot compensates for robot damage (for example, if one drive is damaged, a skilled pilot can compensate for it and continue moving straight).

The robot that strategically moves around the arena, chooses the right moments for attacks, and follows deliberate and controlled attack trajectories receives more points.

*** If the level of aggression is the same for both robots, the number of aggressive moments is evaluated. 2 points are awarded to the robot with more aggressive moments. Aggression with the use of weapons is assessed higher than aggression with the use of body ramming.*

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Point Distribution Table for Control

		Robot A		
		Minimal	Moderate	Significant
Robot B	Minimal	**	2-1	3-0
	Moderate	1-2	**	2-1
	Significant	3-0	1-2	**

Control Definition

- Minimal. The robot cannot initiate attacks and avoids the opponent's attacks and cannot utilize the weapon options in the arena. The robot occasionally hits the borders and falls into traps on the arena;
- Moderate. The robot can occasionally use its weapon to attack the opponent and evade attacks. It can also avoid traps on the arena;
- Significant. The robot moves confidently, constantly attacking the opponent, and avoids falling into traps.

***If the robot actively utilizes the capabilities of its weapon, as well as the arena's weapons, it earns more points than its opponent. If both robots have the same level of control, the robot that demonstrates its control for longer duration than the opponent is chosen and awarded 2 points.*

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6. Procedure for Submitting and Reviewing Appeals

6.1 Right to Appeal

6.1.1 The team has the right to submit an appeal against the judges' decision if it believes that the provisions of these Regulations were violated during the bout or in determining the winner.

6.1.2. The right to appeal arises only in relation to decisions that directly affect the outcome of the specific bout in which the team participated.

6.2 Deadline and Form for Submitting Appeals

6.2.1. Deadline for Submission

The appeal shall be submitted by the team captain or a designated representative no later than 10 minutes after the official announcement of the bout results and/or receipt of the judges' protocols by the teams.

6.2.2. Form for Submission

The appeal is submitted by filling out an electronic form provided in Appendix No. 4 of these Regulations. The electronic form is sent to the secretary of the judges' commission.

6.2.3. Content of the Appeal

The appeal shall include:

- The bout number and stage of the competition.
- Specific provisions of these Regulations that the team believes were violated or incorrectly applied.
- Justification of the claim with reference to observed facts (e.g., specific actions of the opposing robot, judges' interpretations, technical incidents).
- A clearly formulated request from the team (e.g., review of scores, disqualification of the opponent), without consideration.

6.2.4. Denial of Appeal

Appeals submitted late or lacking the information specified in paragraph 6.2.3 shall not be considered. Appeals with general wording such as “disagreement with the result” or “request to recount points” without reference to the Regulations will be rejected.

6.3 Composition and Procedure of the Appeals Commission

An Appeals Commission is formed to consider appeals, consisting of:

- The chairman of the Championship judging panel.
- The chief technical expert of the Championship.
- Members of the Championship judging commission.

The Commission reviews appeal during breaks between specific stages of the Championship show. Priority is given to appeals submitted by teams participating in the nearest bout. The Commission has the right to request additional materials from the teams and organizers (video recordings of the bout, telemetry data, photographs) and to consult with technical experts.

6.4 Review of the Appeal and Decision Making

The decision on the appeal is made by a simple majority of votes from the members of the Appeals Commission. The Commission can issue one of the following decisions:

- Reject the appeal, leaving the bout result unchanged.
- Fully or partially uphold the appeal with new consequences (recounting points, technical victory, rematch, disqualification).
- Appoint an additional technical examination of the robots if the issue is technical in nature.

The result of the appeal review is formalized as a written conclusion (Act of Appeal Review) detailing the rationale.

The written decision is presented to the captain of the team that submitted the appeal before the start of its next scheduled bout or within another timeframe set by the Commission, but no later than 1 (one) hour after the conclusion of the review.

6.5 Legal Force of the Decision

The decision of the Appeals Commission made in accordance with these Regulations is final and shall not subject to appeal.
Protests or appeals concerning the same incident are not accepted.

7. Procedure for Conduction a Technical Examination

7.1 Format and Objectives of Technical Examination

The technical examination is conducted:

- in the format of an introductory inspection for admission to participate in the Championship and formation of the Championship score table;
- in the format of a preliminary inspection to obtain admission to participate in the competitions;
- in the format of a final inspection to obtain admission to participate in the battle.

7.2 Refusal to Conduct a Technical Examination

7.2.1 Refusal by the Organisers

The Organisers cannot refuse to conduct the technical examination for the team, except in the following cases:

- upon receipt of an official notice from the team about their refusal to participate in the Championship;
- upon receipt of an official notice from the Championship Organisers regarding the necessity to refuse the technical examination;
- in cases provided for by the legislation of the Russian Federation.

7.2.2 Refusal of the Team

If the team refuses to undergo the technical examination of the robot, the team shall be disqualified in accordance with Clause 2.14 of the Championship Regulations.

7.3 Subject of the Technical Examination

The technical examination of the robot is conducted to assess:

- compliance of the robot's design characteristics with Clause 2 of the Championship Regulations;
- the quality and strength of the robot's defensive measures;
- the strength and capabilities of the robot's attacking measures;
- the movement speed of the robot.

7.4 Design of the Robot for the Technical Examination

At the time of the technical examination, the robot shall comply with its design characteristics with which it will participate in the Championship. During the technical examination, the robot shall have:

- a frame made from materials specified in Clause 2 of the Regulations;
- a body made from materials specified in Clause 2 of the Regulations;
- equipment capable of inflicting damage on the opponent;
- a remote-control system in accordance with Clause 2 of the Regulations;
- light indicators;
- a speed that meets the requirements specified in Clause 2 of the Regulations.

7.5 Additional Materials

If necessary, during the technical examination, the chief technical expert has the right to request any technical data about the robot (model, motor, power voltage, weight of the weapon, diameter, remote control settings, etc.), as well as to perform any measurements.
In case of complex situations, the chief technical expert has the right to request the disassembly of a particular component for evaluation of its compliance with the regulations. All data obtained during communication with the team is confidential and shall not be disclosed.

7.6 Schedule for Conducting the Technical Examination

Introductory inspection for admission to participate in the Championship shall be no later than 25 (twenty-five) days before the start of the competition.
Preliminary inspection on the eve of the competition shall be no later than 1 (one) day before the start of the competition.
Final inspection for obtaining admission to participate in the battle shall be no later than 10 (ten) minutes before the start of the battle.

7.7 Decisions Based on the Results of the Robot's Technical Examination

7.7.1 In case of compliance with the requirements If the robot meets the requirements specified in clause 6.4 of the Regulations during the technical examination:

- in the format of an introductory inspection – the chief technical expert will make a decision to allow the team to proceed to the preliminary inspection and will sign the Act of Technical Examination in the established form (Appendix No. 2 to these Regulations);
- in the format of a preliminary inspection – the chief technical expert will make a decision to allow the team to proceed to the final inspection and will sign the Act of Technical Examination in the established form (Appendix No. 2 to these Regulations);

- in the format of a final inspection – the chief technical expert will sign the Act of Allowing the Robot to Participate in the Championship (Appendix No. 3 to these Regulations).

7.7.2 In case of non-compliance with the requirements

If the robot does not meet the requirements specified in clause 7.4 of the Regulations, the chief technical expert will direct the robot for rectification of the non-compliance. If the robot continues to be non-compliant with the requirements specified in clause 7.4 of the Championship Regulations, the chief technical expert will make a decision regarding the disqualification of the robot. In the event that the team refuses to remedy the non-compliance with the requirements, the team shall be disqualified in accordance with clause 2.15 of the Championship Regulations.

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8. Provision of Photos and Videos of the Team

Each team is required to provide photo and video materials (hereinafter referred to as the materials) within the specified deadlines for the purpose of displaying information on the official website of the Championship and official online resources, creating an animation grid, and broadcasting at the event. The materials shall be provided no later than 5 days after the request of the Organisers.

8.1 For Organising the Media Campaign of the Championship

No later than 30 days after the announcement of the list of participants, provide:

- A studio photo of the team with ALL team members against a white or green background;
- A portrait of each team member, taken with a professional camera, against a white background.

8.2 For Conducting the Championship Stage

At the request of the Organisers, but no later than 20 days before the date of the competition, provide the Operator with:

- 3D model of the robots (.fbx, .obj, or .stl);
- Robot design (in vector format);
- Image of the robot project in JPG format;
- Team logo (vector or png);
- Logos of partners and sponsors that will be on the robot (vector or png);
- Photographs of the robot (from all angles, taken with a phone);
- 360° video of the robot (taken with a phone);
- Group photo of the team on a plain background;
- At least 5 photos of the finished robot.

9. Prizes and Rewards for the Winners

9.1. Prize Fund

The prize fund amounts to 600 000 rubles and is distributed among the teams as follows:

1st place	300 000 rubles
2nd place	200 000 rubles
3d place	100 000 rubles

Money prizes are provided to the winners by transferring funds to the bank account specified in the agreement between the Team and the Operator. The prize is paid in accordance with the legislation of the Russian Federation, minus all applicable taxes required by law.

9.2 Additional Nominations

The Championship Organizers have the right to introduce additional award nominations. If a nomination is added, the participation rules and prize fund are described in the nomination Regulations and approved by order of the Championship Operator.

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10. Contact Information

Participants, viewers, and partners can contact the Organisers via e-mail global@botleague.in

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Appendix 1

Application Form for Participation in the International Championship “Battle of mini-robots”

1. Information about the Team Mentor	
1.1 Full name	
1.2 Date of birth	
1.3 E-mail	
1.4 Telephone Number	
1.5 Telegram	
2. Geography	
2.1 Country	
2.2 Region	
2.3 City/town	
3. Information about the team	
3.1 Name	
3.2 Motto	
3.3 Organization represented by the team (if any)	
3.3.1 Attach the document - consent from the Organization	
3.4 Team lore (history of team/robot creation)	
3.5 Experience in similar competitions (including any awards won)	
4. Responsible for the Media of the Team	
4.1 Full Name	
4.2 Contact Information (phone number, Telegram account)	

5. Information about the other team members (1 - 5 people)		
5.1	Full name	
	Date of birth	
	Role in the team (pilot, engineer, etc.)	
5.2	Full name	
	Date of birth	
	Role in the team (pilot, engineer, etc.)	
5.3	Full name	
	Date of birth	
	Role in the team (pilot, engineer, etc.)	
5.4	Full name	
	Date of birth	
	Role in the team (pilot, engineer, etc.)	
5.5	Full name	
	Date of birth	
	Role in the team (pilot, engineer, etc.)	

6. Robot's Technical Specifications	
6.1 Cluster robot (yes/no)	
6.2 Weight	
6.3 Dimensions (length x width x height)	
6.4 Type of movement	
6.5 Speed	
6.6 Equipment description (weapons)	

7. Autonomous functions of the robot (flowchart, source code, algorithm description, diagram, etc.)		
If you state that your robot has full autonomy, you should thoroughly describe your technology. If you claim that your robot is fully autonomous, YOU DO NOT HAVE THE RIGHT TO REFUSE AUTONOMOUS CONTROL IN COMPETITIONS!!! If you decline autonomous functions, your team will be disqualified.		
Link to the document folder		
8. General Drawing of the robot, 3D Model, Video of the Prototype or Finished Robot, Technical and Design Documentation		
Link to the document folder		
9. Team Photo		
Link to the document folder		
10. Sponsors of the Team		
Provide contact information for accrediting the company as a partner	Full name	
	Position	
	Phone number	
	E-mail	

The form can be downloaded here.

The completed application shall be sent to the email global@botleague.in

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Appendix 2

Robot Technical Expertise Report

Date and time of expertise _____

Name of the team _____

Name of the robot _____

This document certifies that the chief technical expert conducted a technical expertise of the robot for participation in the International Championship “Battle of mini-robots” (hereinafter referred to as the Championship). Following the technical expertise, the robot has been assessed for compliance with the Championship Regulations and has received the following ratings on the parameters:

Parameter for Control	Expertise Result (Complies / Does not comply)
Robot weight up to 1,5 kg	
Robot speed not less than 5 km/h	
Compliance of the robot's design with the application	
Equipped with a loop-disconnector	
Light indication of operation	
Dimensions 250 x 250 x 250 mm	
Shutdown system in case of signal loss	
Assembly from approved materials	
Use of allowed types of equipment. The equipment is sufficiently strong to cause damage to the opponent.	

Decision of the Chief Technical Expert following the technical expertise (please underline as necessary):

1. Allow the team to proceed to the next stage of technical expertise;
2. Send the team back for refinement of identified discrepancies;
3. Disqualify the team.

Chief Technical Expert of the
International Championship
“Battle of mini-robots” _____ Full Name

Appendix 3

Form of the Act Allowing the Robot to Participate in the Battle

Date and time of expertise _____

Name of the team _____

Name of the robot _____

This document certifies that the chief technical expert conducted a technical expertise of the robot for participation in the International Championship “Battle of mini-robots” (hereinafter referred to as the Championship).

Following the technical expertise, the robot has been assessed for compliance with the Championship Regulations and has received the following ratings on the parameters:

Parameter for Control	**Expertise Result (Complies / Does not comply)**
Robot weight up to 1,5 kg	
Compliance of the robot's design during the examination of the design presented for preliminary review	

Decision of the Chief Technical Expert following the technical expertise (please underline as necessary):

1. Allow the team to participate in the battle;
2. Disqualify the team.

Chief Technical Expert of the International Championship “Battle of mini-robots” _____ Full Name

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Appendix 4

Appeal Application Form

Appeal Application

International Championship “Battle of mini-robots”

Name of the team: _____

Captain of the team (Full Name): _____

Bout Number / Stage of Competition: _____

Opponent: _____

Mentioned Violated Provisions of the Regulations: (e.g., 4.7 “Deliberate Blocking,” 5.2.4.1 “Damage Assessment”) _____

Description of the Violation and Justification: (Describe the situation in detail, including time in the bout and actions of the robots)

_____

_____

_____

Team Request: (For example: review of judges' scores on the “Control” criterion, declaration of technical victory)

_____

_____

_____

Date and Time of Submission: «__» _____ 2026, __:__

Captain’s Signature: _____