PROLESKI™ SKI SIMULATORS

SAFETY IS THE MOST IMPORTANT THING IN ANY MOUNTAINS!
KEY FACTORS BEHIND THE SKI SIMULATOR SELECTION:

When choosing a ski simulator, it is crucial to give answers to three key questions:

**What is important for the customer?**
The answer to this question will directly influence the final choice of the simulator’s functional capabilities and features.

**Location of the ski simulator.**
Business success directly depends on the club location, while the latter depends on the capacity to host a ski simulator. When choosing a simulator, it is important to take into consideration its dimensions, fire safety, building floor stress, and ease of logistics / assembly.

**Costs**
Here it is essential to take into account both capital expenditure and running costs, related to the installation and maintenance of the ski simulator.
EVERYBODY WANTS CARVING!

Carving requires speeds above 30 km/h and sharp ski edges.
WHAT IS IMPORTANT FOR THE CUSTOMER?

**Sharp edges:**
They ensure the quality of friction and affect the ski controllability and maneuverability, as well as the skiing technique and safety in the mountains. Only sharp edges are used for skiing at real downhill tracks.

**Slope steepness:**
It helps to get prepared for tracks with all levels of complexity, from "green" to "black" ones. More complicated real tracks have higher slope angles.

**Speed:**
*Beginners ski at the speed of \( \leq 15 \text{ km/h} \), while amateurs vary their speeds from 15 to 25 km/h. Advanced and professional skiers prefer sliding at the speeds above 25 km/h, while carving requires speeds above 30 km/h. Higher skills require more complicated skiing techniques and higher skier's speed.

**Track relief:**
It is ensured by the "Up-down-right-left" platform movability. Training under "maximum possible reality" conditions, with effects of turns, accelerative forces, hummocks, and jumping-off places. More complicated real tracks have more complex relief.

Carving is the most widespread and advanced skiing technique in the world. Carving is the skill that arouses interest, awe, and admiration of the target audience.

True carving is possible only with 30 km/h speeds and higher – only in this case the motion generates an inertia sufficient enough for a skier to get into a turn without any excessive efforts to feel the real pleasure from the arc sliding.

Carving is used by 50% of amateurs + 100% of advanced skiers + 100% of professionals + the most skillful representatives of downhill disciplines. This technique is the one that all mountain skiing sport beginners and amateurs strive for – for the beauty, self-affirmation, and the astonishing feeling of easiness and simplicity of sliding at mountain skiing tracks!
It is important for the business to ensure that a customer remains a club member for as long as possible and spends the maximum possible time with the ski simulator sliding.

To master a basic skill, a customer needs 10-20 sets. Then he or she either progresses to the next category of the skill ("amateur", "advanced skier", or "professional skier") or leaves the club.

**INTEREST** towards training thanks to the wide range of ski simulator’s capabilities and trainee’s urge towards mastering of the carving technique at the speeds of ≥ 30 km/h;

**ADRENALIN** due to the relief complexity, lack of the track knowledge, slope steepness, and high speeds;

Maximum possible approximation to the reality.

If you arrange a correct “Interest + Adrenaline” mix, you get a regular customer, ensuring a direct effect on the profitability and commercial success of the business.

**INTEREST:**
- Carve turn technique
- Speeds of 30 km/h and higher
- Sharp edges and personal outfit
- Maximum realism of tracks

**ADRENALIN:**
- Sharp edges and speeds of 30 km/h and higher
- Platform tilt angle ≥ 18°
- “Up-down-right-left” platform movability
- Track programming
- 8D Vision System virtual reality

**1 PERSON – 1000 SETS:**

INTEREST AND ADRENALIN increase the number of training sessions up to > 1000 sets / person (that is up to 100 times more than the number of sets, required to master the basic skills).

PROLESKI™ ski simulators are ideal to provide quality training and a wide list of skiing techniques to master, guaranteeing the maximum possible approximation to real skiing tracks. They ensure sustainable interest of clients towards training and both adrenalin and extremal emotions from skiing!

All inventions are patented and have no analogues in the world!
Choice of the location defines the future success of your business. Public buildings with high flow of your target audience are a perfect location for placement of the simulator. Such edifices are built taking into consideration all international construction norms, have standardized dimensions, and are quite particular and exigent with respect to the equipment used.

When choosing a ski simulator, specific attention should be paid to the following features and characteristics:

- Ski simulator's overall dimensions
- Building floor stress
- Ease of the ski simulator's logistics / assembly
- Fire safety level

**Optimal dimensions of the ski simulator provide wider possibilities on the choice of premises and cut down the costs per square meter.**

**Ceiling height.** Present-day commercial buildings have a ceiling height of 5-5.5 meters; therefore, while choosing a ski simulator, it is extremely important to take into consideration how “appressed” it is to the floor the equipment, as well as the simulator’s height in the upper point with the maximum tilt angle of the platform.

**PROLESKI™ ski simulators** are “appressed” to the floor as much as possible and perfectly fit into premises with ceiling heights of 3.5 meters and higher.

**Width.** According to the generally accepted construction norms, the minimal bays of the present-day buildings equal to 6000 mm between their axes; therefore, the ski simulator's width must be ≤ 5570 mm.

**PROLESKI™ ski simulators** have an overall width of 5570 mm and perfectly fit into premises with inter-axial bays of 6000 mm.

**Length.** The 3-meter length of the ski carpet will be enough to ensure comfortable skiing of one adult with 150-170 cm long skis. Any shorter length of the ski carpet will be uncomfortable for skiing, while a longer one will be inexpedient.

**PROLESKI™ ski simulators** have a ski carpet length multiple of 3 meters, which is optimal for all skiing techniques.

**Floor stress:** Any excessively hard weight of ski simulators may generate an increased floor stress and jeopardize the architectural integrity of the building.

**PROLESKI™ ski simulators**, due to the utilization of lightweight thin-walled sections and truss structures, have a lower weight, reducing the floor stress considerably.

**Logistics and assembly:** dimensions of the largest element of a ski simulator must go freely through doors, windows, and flights of stairs at the premises.

**PROLESKI™ ski simulators** have a dismountable design, allowing carrying even the largest components and elements through a standard door / window / flight of stairs into any building and to any storey.

**PROLESKI™ SKI SIMULATORS HAVE OPTIMAL DIMENSIONS AND ENSURE AN EXTENSIVE RANGE OF POSSIBILITIES IN SELECTION OF YOUR PREMISES.**
**FIRE SAFETY**

**Fire safety:** directly influences upon the possibility to install a ski simulator at a commercial building. All public buildings require equipment with a higher fire safety category.

**PROLESKI™ ski simulators,** due to the utilization of the “Ball-screw pair” lifting mechanism (electric cylinders), have a higher fire safety category.

They require no extra investments into the arrangement of additional premises for a hydraulic power unit, since they do not need it at all, in contrast to hydraulic power based simulators.

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<table>
<thead>
<tr>
<th>Lifting mechanism type</th>
<th>Ball-screw pair</th>
<th>Screw-nut pair</th>
<th>Hydraulics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire safety level:</td>
<td>High</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Use of combustible oils requires additional investments into the fire protection of the building / arrangement of an additional room for a hydraulic power unit</td>
</tr>
<tr>
<td>Possibility for installation at public buildings:</td>
<td>Extensive range of possibilities</td>
<td>Extensive range of possibilities</td>
<td>Limited range of possibilities</td>
</tr>
<tr>
<td>Operation principle:</td>
<td>Driven by the electric motor</td>
<td>Driven by the electric motor</td>
<td>Pressurized oil moves the piston. Pressure is generated by a hydraulic pump</td>
</tr>
<tr>
<td>Friction:</td>
<td>Low friction</td>
<td>High friction</td>
<td>No friction</td>
</tr>
<tr>
<td>Mechanism wear:</td>
<td>No</td>
<td>High wear rate</td>
<td>Abruption of oil hoses under high pressure is possible</td>
</tr>
<tr>
<td>Noise level:</td>
<td>Low noise level</td>
<td>High noise level</td>
<td>Medium noise level</td>
</tr>
<tr>
<td>Mechanism operation life:</td>
<td>&gt; 25 years</td>
<td>≤ 3 years</td>
<td>&gt; 20 years (subject to regular maintenance)</td>
</tr>
<tr>
<td>Motion speed:</td>
<td>2 °/s</td>
<td>0.05 °/s</td>
<td>0.05 °/s</td>
</tr>
<tr>
<td>Acceleration:</td>
<td>≤ 3 m/s²</td>
<td>0.1 m/s²</td>
<td>0.1 m/s²</td>
</tr>
<tr>
<td>Maintenance support:</td>
<td>≤ 100$ / year</td>
<td>≤ 100$ / year</td>
<td>&gt; 3000$ / year</td>
</tr>
<tr>
<td>Maintenance costs:</td>
<td>Bearing lubrication</td>
<td>Screw and nut lubrication</td>
<td>Changing the oil (~200 l / 1 year) Changing the hose (~1 / 3 years) Air filter (~2 / 1 year) Oil filter (~2 / 1 year) Rubber gaskets (if required)</td>
</tr>
<tr>
<td>Moment of electric energy consumption:</td>
<td>At the moment of the “upwards” motion</td>
<td>At the moment of the “upwards-downwards” motion</td>
<td>Continuously, during the entire period of simulator’s operation, irrespective of the “upwards-downwards” motion</td>
</tr>
<tr>
<td>Electric energy consumption:</td>
<td>≤ 1.5 kW/h</td>
<td>≤ 6 kW/h</td>
<td>≤ 18 kW/h</td>
</tr>
</tbody>
</table>

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**PROLESKI™ WILL HELP YOU TO SAVE FROM 3000$/YEAR FOR MAINTENANCE OF 1 SIMULATOR.**
PROLESKI™ SKI SIMULATORS:

PROLESKI™ covers a series of efficient and safe downhill skiing simulators of an “endless slope” type for indoor utilization. They have been designed for active recreation, entertainment, and sports training, including different training programs for “beginners”, “advanced skiers”, and professional athletes. All inventions are patented and have no analogues in the world.
**PROLESKI™ MODEL RANGE:**

### OPTIMAL:
- Platform movability: N/A
- Speed (basic/option) = 25 (35) km/h
- Tilt angle = 13.5°
- Comfortable skiing = up to 3 persons
- Training = up to 3 persons

### DIRECTION:
- Platform movability: "up-down-right-left"
- Speed (basic/option) = 25 (35) km/h
- Tilt angle = V: +10°/+22° H: -7°/+7°
- Comfortable skiing = up to 3 persons
- Training = up to 9 persons

### VERTICAL:
- Platform movability: "up-down"
- Speed (basic/option) = 25 (35) km/h
- Tilt angle = V: +10°/+22° H: +7°/-7°
- Comfortable skiing = up to 3 persons
- Training = up to 9 persons

### SPORT:
- Platform movability: "up-down-left-right"
- Speed (basic/option) = 45 (50) km/h
- Tilt angle = V: +10°/+23° H: -7°/+7°
- Comfortable skiing = up to 3 persons
- Training = up to 9 persons

### TABLE: PROLESKI™ MODEL RANGE

<table>
<thead>
<tr>
<th>Class</th>
<th>Series</th>
<th>Model</th>
<th>For comfortable skiing, persons</th>
<th>For comfortable training, persons</th>
<th>Ceiling height, m</th>
<th>Effective length, m</th>
<th>Platform tilt angle</th>
<th>Basic speed, km/h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PRO 1</td>
<td>1 / 1</td>
<td>3 / 2</td>
<td>3,5</td>
<td>3,15</td>
<td>V (vertical)</td>
<td>13,5°</td>
</tr>
<tr>
<td>STATIC</td>
<td></td>
<td>PRO 2</td>
<td>2 / 2</td>
<td>6 / 4</td>
<td>4,15</td>
<td>6</td>
<td>H (horizontal)</td>
<td>13,5°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 3</td>
<td>3 / 3</td>
<td>9 / 6</td>
<td>4,85</td>
<td>9,15</td>
<td>-</td>
<td>13,5°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 1V</td>
<td>1 / 1</td>
<td>3 / 2</td>
<td>4,35</td>
<td>3,15</td>
<td>+9°/+20°</td>
<td>25</td>
</tr>
<tr>
<td>OPTIMAL</td>
<td></td>
<td>PRO 2V</td>
<td>2 / 2</td>
<td>6 / 4</td>
<td>4,9</td>
<td>6</td>
<td>+9°/+20°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 3V</td>
<td>3 / 3</td>
<td>9 / 6</td>
<td>6</td>
<td>9,15</td>
<td>+9°/+20°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 1D</td>
<td>1 / 1</td>
<td>3 / 2</td>
<td>4,7</td>
<td>3,15</td>
<td>+10°/+22°</td>
<td>25</td>
</tr>
<tr>
<td>DYNAMIC</td>
<td></td>
<td>PRO 2D</td>
<td>2 / 2</td>
<td>6 / 4</td>
<td>5,4</td>
<td>6</td>
<td>+10°/+22°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 3D</td>
<td>3 / 3</td>
<td>9 / 6</td>
<td>6,55</td>
<td>9,15</td>
<td>+10°/+22°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 2DS</td>
<td>2 / 2</td>
<td>-</td>
<td>5,7</td>
<td>6</td>
<td>+10°/+23°</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 2V+</td>
<td>2 / 2</td>
<td>6 / 4</td>
<td>5,45</td>
<td>7,5</td>
<td>+9°/+20°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 4V</td>
<td>4 / 4</td>
<td>12 / 8</td>
<td>7,9</td>
<td>12</td>
<td>+9°/+20°</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRO 2D+</td>
<td>2 / 2</td>
<td>6 / 4</td>
<td>6</td>
<td>7,5</td>
<td>+10°/+22°</td>
<td>25</td>
</tr>
</tbody>
</table>

**WE HAVE THE OPPORTUNITY TO MAKE ANY FITNESS SIZE ACCORDING TO CUSTOMER REQUIREMENTS IN A RANGE OF 24mx24m.**
OPTIMAL series is perfect for mountain skiing sport beginners and amateurs. Ski simulators of this series are notable for their fixed 13.5° platform tilt angle.

### PROLESKI™ OPTIMAL SERIES:

<table>
<thead>
<tr>
<th>Major characteristics</th>
<th>Specifications</th>
<th>PRO1</th>
<th>PRO2</th>
<th>PRO3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective length, mm</td>
<td>3100</td>
<td>6000</td>
<td>9125</td>
<td></td>
</tr>
<tr>
<td>Effective width, mm</td>
<td>4650</td>
<td>4650</td>
<td>4650</td>
<td></td>
</tr>
<tr>
<td>Ceiling height with the maximum platform tilt angle, m</td>
<td>3.5</td>
<td>4.15</td>
<td>4.85</td>
<td></td>
</tr>
<tr>
<td>Lower platform height (podium or pit), mm</td>
<td>640</td>
<td>640</td>
<td>640</td>
<td></td>
</tr>
<tr>
<td>Mounting area length, at least ... mm</td>
<td>5480</td>
<td>8500</td>
<td>11350</td>
<td></td>
</tr>
<tr>
<td>Mounting area width, at least ... mm</td>
<td>5770</td>
<td>5770</td>
<td>5770</td>
<td></td>
</tr>
<tr>
<td>Range of platform tilt angle, degrees °</td>
<td>13,5°</td>
<td>13,5°</td>
<td>13,5°</td>
<td></td>
</tr>
<tr>
<td>Maximum speed of the band motion, basic (option), km/h</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td></td>
</tr>
<tr>
<td>Average electrical energy consumption, kilowatt/h</td>
<td>≥ 3.5</td>
<td>≥ 6</td>
<td>≥ 6</td>
<td></td>
</tr>
<tr>
<td>Average water consumption, liter/hour</td>
<td>≥ 4</td>
<td>≥ 5</td>
<td>≥ 6</td>
<td></td>
</tr>
</tbody>
</table>

| Basic configuration | Automatic moistening of the ski carpet | + | + | + |
|                    | Water filtration system with warning sensors | + | + | + |
|                    | Electronic diagnostics system | + | + | + |
|                    | Shaft protection with rubber coating | + | + | + |
|                    | Fixed control panel | + | + | + |
|                    | Remote control console | + | + | + |
|                    | Automatic switch-off areas | + | + | + |
|                    | Stainless steel and polycarbonate safeguarding | + | + | + |
|                    | Starting bar (fixed) | + | + | + |
|                    | Protective mat (at the upper platform) | + | + | + |
|                    | Bar for “Skiing School” group training | - | + | + |
PROLESKI™ VERTICAL SERIES:

VERTICAL series is perfect for mountain skiing sport beginners and amateurs. Ski simulators of this series are notable for their movable platform ("up-down" motion) and vertical tilt angles within a range of +9° / +20°.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>PRO1V</th>
<th>PRO2V</th>
<th>PRO2V+</th>
<th>PRO3V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended number of people for comfortable skiing (skis / snowboard)</td>
<td>1 / 1</td>
<td>2 / 2</td>
<td>2 / 2</td>
<td>3 / 3</td>
</tr>
<tr>
<td>Effective length, mm</td>
<td>3100</td>
<td>6000</td>
<td>7500</td>
<td>9150</td>
</tr>
<tr>
<td>Effective width, mm</td>
<td>4650</td>
<td>4650</td>
<td>4650</td>
<td>4650</td>
</tr>
<tr>
<td>Ceiling height with the maximum platform tilt angle, m</td>
<td>4.35</td>
<td>4.9</td>
<td>5.45</td>
<td>6</td>
</tr>
<tr>
<td>Lower platform height (podium or pit), mm</td>
<td>640</td>
<td>641</td>
<td>642</td>
<td>643</td>
</tr>
<tr>
<td>Mounting area length, at least ... mm</td>
<td>6600</td>
<td>8500</td>
<td>10100</td>
<td>11550</td>
</tr>
<tr>
<td>Ceiling height with the maximum platform tilt angle</td>
<td>h4.5m</td>
<td>3.1m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating surface length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting area</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lifting mechanism type</td>
<td>Electric cylinders (ball-screw pair)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tilt change speed, degrees / sec.</td>
<td>2.5°/s</td>
<td>2°/s</td>
<td>2°/s</td>
<td>1.8°/s</td>
</tr>
<tr>
<td>Acceleration of the tilt angle change is a basic feature and is set up to m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
</tr>
<tr>
<td>Maximum speed of the band motion, basic (option), km/h</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td>25 (35)</td>
</tr>
<tr>
<td>Average electrical energy consumption, kilowatt/h</td>
<td>≥ 3.5</td>
<td>≥ 6</td>
<td>≥ 6</td>
<td>≥ 10</td>
</tr>
<tr>
<td>Average water consumption, liter/hour</td>
<td>≥ 4</td>
<td>≥ 5</td>
<td>≥ 5</td>
<td>≥ 6</td>
</tr>
</tbody>
</table>

Major characteristics:
- Automatic moistening of the ski carpet + + + +
- Water filtration system with warning sensors + + + +
- Electronic diagnostics system + + + +
- Shaft protection with rubber coating + + + +
- Fixed control panel + + + +
- Remote control console + + + +
- Automatic switch-off areas + + + +
- Stainless steel and polycarbonate safeguarding + + + +
- Starting bar (fixed) + + + +
- Protective mat (at the upper platform) + + + +
- Bar for "Skiing School" group training - + + +
- LCD indication table (V km/h, S km, t min., tilt angles) 19.5° 19.5° 19.5° 19.5°

Basic configuration:

PRO1V

PRO2V

PRO3V
PROLESKI™ DIRECTION SERIES:

DIRECTION series is the flagship of PROLESKI™ ski simulators. It ensures maximum possible approximation to the reality, perfect training quality, and an extensive diversity of skiing techniques, being optimal for mountain skiing sport amateurs, advanced skiers, and professional athletes. It includes 3 models of ski simulators with a movable platform (“up-down-right-left” motion), vertical tilt angles within a range of +10° / +22°, and horizontal tilt angles within a range of -7° / +7°.

<table>
<thead>
<tr>
<th>Specification</th>
<th>PRO1D</th>
<th>PRO2D</th>
<th>PRO2D+</th>
<th>PRO3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective length, mm</td>
<td>3100</td>
<td>6000</td>
<td>7500</td>
<td>9150</td>
</tr>
<tr>
<td>Effective width, mm</td>
<td>4650</td>
<td>4650</td>
<td>4650</td>
<td>4650</td>
</tr>
<tr>
<td>Ceiling height with the maximum platform tilt angle, m</td>
<td>4,7</td>
<td>5,4</td>
<td>6</td>
<td>6,55</td>
</tr>
<tr>
<td>Lower platform height (podium or pit), mm</td>
<td>950</td>
<td>950</td>
<td>950</td>
<td>950</td>
</tr>
<tr>
<td>Mounting area length, at least ... mm</td>
<td>6100</td>
<td>6200</td>
<td>6200</td>
<td>6200</td>
</tr>
<tr>
<td>Mounting area width, at least ... mm</td>
<td>6100</td>
<td>6200</td>
<td>6200</td>
<td>6200</td>
</tr>
<tr>
<td>Lifting mechanism type</td>
<td>Specifications</td>
<td>Specifications</td>
<td>Specifications</td>
<td>Specifications</td>
</tr>
<tr>
<td>Range of platform tilt angle, degrees °</td>
<td>V:+10°/+22° H:+5°/+5°</td>
<td>V:+10°/+22° H:+7°/+7°</td>
<td>V:+10°/+22° H:+7°/+7°</td>
<td>V:+10°/+22° H:+7°/+7°</td>
</tr>
<tr>
<td>Tilt change speed, degrees / sec.</td>
<td>2,5°/s</td>
<td>2,5°/s</td>
<td>2,5°/s</td>
<td>1,8°/s</td>
</tr>
<tr>
<td>Acceleration of the tilt angle change is a basic feature and is set up to m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
<td>1 m/s²</td>
</tr>
<tr>
<td>Maximum speed of the band motion, basic (option), km/h</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td>25 (35)</td>
<td>25 (35)</td>
</tr>
<tr>
<td>Average electrical energy consumption, kilowatt/h</td>
<td>≥ 3,5</td>
<td>≥ 6</td>
<td>≥ 6</td>
<td>≥ 10</td>
</tr>
<tr>
<td>Average water consumption, liter/hour</td>
<td>≥ 4</td>
<td>≥ 5</td>
<td>≥ 5</td>
<td>≥ 6</td>
</tr>
<tr>
<td>Basic configuration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic moistening of the ski carpet</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Water filtration system with warning sensors</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Recuperation system</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Electronic diagnostics system</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Shaft protection with rubber coating</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Fixed control panel</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Remote control console</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Automatic switch-off areas</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Stainless steel and polycarbonate safeguarding</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Starting bar (fixed)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Protective mat (at the upper platform)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Bar for “Skiing School” group training</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>LCD indication table (V km/h, S km, t min., tilt angles)</td>
<td>19,5°</td>
<td>19,5°</td>
<td>19,5°</td>
<td>19,5°</td>
</tr>
</tbody>
</table>
SPORT series is perfect for professional athletes. It ensures high quality training for various skiing techniques under conditions of maximum possible approximation to the reality and enhanced safety. The model is notable for its movable platform ("up-down-right-left" motion), vertical tilt angles within a range of +10° / +23°, and horizontal tilt angles within a range of -7° / +7°.

### Major characteristics

<table>
<thead>
<tr>
<th>Specifications</th>
<th>PRO2DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended number of people for comfortable skiing (skis / snowboard)</td>
<td>2 / 2</td>
</tr>
<tr>
<td>Effective length, mm</td>
<td>6000</td>
</tr>
<tr>
<td>Effective width, mm</td>
<td>4650</td>
</tr>
<tr>
<td>Ceiling height with the maximum platform tilt angle, m</td>
<td>5.7</td>
</tr>
<tr>
<td>Lower platform height (podium or pit), mm</td>
<td>1100</td>
</tr>
<tr>
<td>Mounting area length, at least … mm</td>
<td>8700</td>
</tr>
<tr>
<td>Mounting area width, at least … mm</td>
<td>6540</td>
</tr>
<tr>
<td>Lifting mechanism type</td>
<td>Electric cylinders (ball-screw pair)</td>
</tr>
<tr>
<td>Range of platform tilt angle, degrees °</td>
<td>V: +10°/+23°, H: +7°/-7°</td>
</tr>
<tr>
<td>Tilt change speed, degrees / sec.</td>
<td>2°/s</td>
</tr>
<tr>
<td>Acceleration of the tilt angle change is a basic feature and is set up to m/s²</td>
<td>≥ 10</td>
</tr>
<tr>
<td>Maximum speed of the band motion, basic (option), km/h</td>
<td>45 (50)</td>
</tr>
<tr>
<td>Average electrical energy consumption, kilowatt/h</td>
<td>≥ 7-10</td>
</tr>
<tr>
<td>Average water consumption, liter/hour</td>
<td></td>
</tr>
</tbody>
</table>

### Basic configuration

- Automatic moistening of the ski carpet: +
- Water filtration system with warning sensors: +
- Recuperation system: +
- Electronic diagnostics system: +
- Automatic maintenance system: +
- Shaft protection with rubber coating: +
- Fixed control panel: +
- Future (Touch Screen) fixed control panel: Extended configuration
- Remote control console: Extended configuration
- Smooth speed adjustment: +
- Adjustment of the ski carpet and lifting mechanism acceleration: +
- Braking module for quick stop: Extended configuration
- Automatic switch-off areas: +
- Protective mat: Perimeter-wise
- Safety suspension system with a positioning sensor: +
- Track programming system: +
- Automatically adjusted starting bar: +
PROLESKI™ simulators ensure maximum possible convenience and their dimensions are optimal for comfortable skiing and training of both skiers and snowboard riders.

For **comfortable skiing** of one person with 170-cm long skis, a ski carpet length multiple of 3 meters is required. The operating surface of all PROLESKI™ simulators is multiple of 3 meters, being optimal for skiing of 1-3 persons at 1 simulator, depending on the model.

For **training of beginners** in groups, an additional "Ski school" starting bar is set at the working surface with 3-meter intervals, enabling simultaneous training of 4 to 9 persons at 1 simulator.
QUALITY ASSURANCE:

MULTILEVEL CONTROL SYSTEM.
Emphasis on the details.
Components from suppliers with international reputation.

DESIGN RELIABILITY:
Corrosion resistance: galvanized steel / powder coating.
Approved vendors only: Siemens, ABB, Forbo, and SKF.

SHAFT PROTECTION WITH RUBBER COVERING:
A part of the basic configuration.
Protection from corrosion.
Enhancement of the shaft cohesion with the ski carpet.
Exclusion of the carpet slippage / skidding.

AFTER-SALES SERVICE:
Prompt 24/7 support.
Remote on-line diagnostics.
Response time = 1 hour maximum.

PATENTED TECHNOLOGIES:
All inventions have been already patented and have no analogues in the mountain ski simulators’ world.

ELECTRONIC DIAGNOSTICS SYSTEM:
Quick and precise determination of operator’s errors, system failures, as well as of the fact of external interference.

INTERNATIONAL CERTIFICATION:
All PROLESKI™ ski simulators have CE certificates.

QUALITY ASSURANCE:

Full 2 year warranty

Extended 5 year warranty

ACHIEVED OVERHAUL LIFE – 25 YEARS.
**OPERATING ECONOMY:**

**ECONOMIC MAINTENANCE SUPPORT:**

- **Low maintenance costs:** Costs ≤ 100$/year:
  - Lubrication of friction units
  - Change of the water filter
  - No other maintenance costs needed

- **Automatic maintenance system:** Automatic lubrication of ski simulator’s units, bearings, and lifting mechanisms.
  - A fully programmable system.
  - 100% human factor independent.

**LOW ELECTRIC ENERGY CONSUMPTION:**

- **Low rate of friction between skis and the carpet:** It is ensured due to the utilization of the Proleski™ moistening concentrate.

- **“Ball-screw pair” lifting mechanism:** Power consumption is only 1.5 kW/h.
  - Up to 12 times more cost effective than other lifting mechanisms.

- **Recuperation system:** Return of the electric energy to the power network while decelerating or stopping the ski carpet.
  - Electric power consumption saving up to 20%.

**REASONABLE WATER CONSUMPTION RATE:**

- **Automatic moistening of the ski carpet:** Uniform moistening of the carpet.
  - Process is remotely controlled, ensuring a more technical and aesthetical approach than the manual moistening of the carpet.

- **Water filtration system:** Designed to protect both sprayers from the dirty water, the system automatically shows a warning message when a change of filters is needed.

- **Closed-circuit system of the ski carpet moistening:** Moistens the ski carpet automatically.
  - Perfectly fits facilities without centralized water supply and sewage systems.
Uniform moistening of the ski carpet enhances sliding and removes scratching and braking areas. Water is sprinkled automatically with the help of the remote control device, allowing to ensure continuous training process. Water delivery is switched off automatically after 30 seconds of moistening. The process of the carpet moistening is hidden from the club’s customers. Both technically and aesthetically, this is a more advanced approach than the manual moistening of the carpet.
SKI CARPET:

WE SAY “YES” TO SHARP EDGES!
Own technology for ski carpet fabrication. High wear-resisting properties. Enhanced sliding.

ENHANCED WEAR RESISTANCE OF THE CARPET:
High-strength composite material.
Pile height – 23 mm.
Enhanced resistance to abrasion.
Enhanced sliding.
For all types of mountain skis and snowboards.
Suitable for sharp edges.
Possibility to use customers’ personal outfit.
Warranty – 7000 hours of continuous sliding.
Operation life – more than 6 years.

PROLESKI™ MOISTENING CONCENTRATE: 
Unique design by PROLESKI™.
Ensures a low rate of friction between skis and the carpet.
Extends service life of the ski carpet by 2.5 times.
Economic consumption: 2 liters a month per ski simulator for three skiers.
Liquid, odor- and color-free, chemically neutral, stick-free, and leaves no stains on the clothes.

PRECISE BAND STABILIZATION:
Two-level system for automatic band stabilization.
The band is set up once during the assembly process and requires no additional subsequent adjustments.
Pinpoint accuracy at each moment of time, even with a large number of people sliding and high speeds.
For more than 10 years PROLESKI™ has been in close collaboration with professional athletes of the mountain skiing sports and is in permanent contact with its customers. This experience has allowed us to make our equipment more compact, to expand the range of possibilities for choosing a simulator’s location area, and to optimize costs per square meter of area.

Multiple testing of simulators with skiers and snowboard riders of all qualification levels has proved that, to ensure comfortable skiing of one person with 170 cm long skis, the ski carpet length must be multiple of 3 meters. That is why the length of the ski carpet for all PROLESKI™ ski simulators is 3, 6, and 9 meters, being the most ergonomic one based on the 10-year research results.

Ergonomics of the PROLESKI™ simulator operating surface through the examples of PRO 2, PRO 2V, and PRO 2D models:
ABSOLUTE SAFETY:

Possibility to adjust the bar’s height depending on the customer’s stature.
Fixation of the bar in any position within the height range of 820-1250 mm.
Two handrails with different diameters for convenient gripping by both children and adults.
Bar adjustment with the control panel.

Installed in the middle part of the ski simulator to ensure safe training for beginners.
Helps to double the number of trainees, skiing at the same time.

SAFETY SUSPENSION:
Makes training 99% safe
Ensures the retention of a skier in a vertical position and automatic stop of the band after the trainee’s fall
Expedites the training process, including training under extremal conditions

AUTOMATICALLY ADJUSTED STARTING BAR:
Possibility to adjust the bar’s height depending on the customer’s stature.
Fixation of the bar in any position within the height range of 820-1250 mm.
Two handrails with different diameters for convenient gripping by both children and adults.
Bar adjustment with the control panel.

ADDITIONAL “SKIING SCHOOL” STARTING BAR:
Installed in the middle part of the ski simulator to ensure safe training for beginners.
Helps to double the number of trainees, skiing at the same time.
CONTROL OF THE SIMULATOR:

FIXED CONTROL PANEL:
- Launch and stop of the simulator’s operation.
- Emergency shutdown of the ski simulator.
- Adjustment of the carpet motion speed.
- Control on the platform tilt angles.
- Control on the ski carpet moistening.
- Key lockout function.
- Electromechanical buttons.
- Stainless steel body.
- Light-emitting diode indicators of the diagnostics system.
- Panel is included to the basic configuration.

“FUTURE” FIXED CONTROL PANEL:
- Launch and stop of the simulator’s operation.
- Emergency shutdown of the ski simulator.
- Adjustment of the carpet motion speed.
- Control on the platform tilt angles in 8 directions.
- Gives prompting messages on the step-by-step access to functions and prevents potential errors of the operator.
- Includes the ski simulator’s electronic diagnostics system.
- Opportunity to settle accounts with a plastic card.
- Key lockout function.
- Kit includes 19.5” LCD monitor, used as the indication panel (speed, time, distance, and platform tilt angle).
- Can be installed at the simulator’s bottom part or on the podium.
- Can be combined with the billing and booking systems and operate as a single simulator’s control center.

REMOTE CONTROL CONSOLE:
- Launch and stop of the simulator’s operation.
- Adjustment of the carpet motion speed.
- Control on the platform tilt angles.
- Control on the ski carpet moistening.
- Console is included to the basic configuration.
SKILL. INTEREST. ADRENALIN:

**HELPS CUSTOMERS TO SEE AND TO CORRECT SKIING TECHNIQUE ERRORS.**

Represent a mirror, cased into a metal frame and installed on the floor/wall, with the possibility to adjust the tilt angle.

**19.5" LCD-MONITOR WITH A PROGRAMMING MODULE.**

System makes a warning signal 10 seconds prior to the end of the set. Panel shows V km/h, S km, t min, and tilt angles.

**CAN BE USED AS AN ADVERTISING MEDIUM.**

Panel is a part of the Future control panel.

**AN OPTION AVAILABLE TO VERTICAL AND DIRECTION SERIES ALLOWS FOR SIMULATOR VERTICAL TILT INCREASE WITHIN 9 TO 35 DEGREES.**

**DESIGNED FOR DYNAMIC MODELS OF VERTICAL, DIRECTION, AND SPORT SERIES.**

Possibility to program and reproduce tracks with certain specifics of the relief. Possibility to set up the coordinates of tracks from actual mountain resorts with any level of complexity. Allows repeating the track model under the pre-set coordinates: ski carpet speed, platform tilt angles, acceleration of tilt angle changes, and duration of each of the parameters in case of platform relocation.

**FOR PROFESSIONAL SPORTS TRAINING. REMOTE SPEED CONTROL.**

Soft start and smooth completion of the set. Quick stop of the band after the fall of a skier.

**REMOTE CONTROL OF THE SPEED.**

Soft start and smooth completion of the set. Quick stop of the band after the fall of a skier.

**SHARP EDGES:**

Possibility to get prepared for real mountain tracks of any level of complexity and to master different skiing techniques. Possibility to use customer’s own outfit.
Even more bright emotions and absolutely real presence at the slope!
8D Vision system enables an opportunity to get skiing experience at any track in the world. Immersion into the atmosphere of skiing at a real track.

“8D VISION SYSTEM” VIRTUAL REALITY:

Immersion into the virtual reality. Extremal emotions.
Ski carpet motion speed and platform tilt angles are adjusted automatically in accordance with pre-set programs.
Automatic adjustment of the ski carpet motion speed and platform tilt angles.
Wide range of actual and pre-set tracks.
Kit: screen, projection device, system of position sensors and control points, software, and an extensive list of tracks and games.
The billing system represents a complex software module and has been designed by PROLESKI™ for convenient and up-to-date business conduct. It includes the following possibilities and components:

**FINANCE MANAGEMENT:**
- Receipt of the skiing fares in cash, electronic payments, and plastic card payments.
- Deposit system: customer’s prepayment for future services.
- Possibility to define and adjust the price for club’s services depending on the month, week, day, and specific period of time.
- Full financial analytical reports:
  - Funds received for services provided;
  - Funds received for future services;
  - Gross revenue by each of the employees (administrator / instructor);
  - Flexibly adjusted financial reports in accordance with individually set parameters.
- Automatic generation and mailing of reports to the club owner at the end of the working day.
- Possibility to generate any report in accordance with individual requirements of the club owner.
- Full real-time control on the financial performance of the club, 24/7.

**PERSONNEL MANAGEMENT:**
- Accounting and statistics on the club employees’ labor time.
- Accounting on the simulator’s use time.
- Pass entry system.
- Instructor identification.
- Personnel payroll and incentive accounting.
- Personnel has no possibility to switch the ski simulator on without the payment for the set.

**SKI SIMULATOR’S OPERATION CONTROL:**
- Accounting of the actual operating time of the ski simulator.
- Customer / operator identification.
- Possibility for flexible adjustment of the set duration.
- Control on the ski simulator’s performance in accordance with club’s objectives (services, presentations, maintenance).
CUSTOMER DATABASE MANAGEMENT:
Generation of the customer’s database with the required personal information. Customer / service / funds / preference identification. Possibility for the customers to check their club membership card balance. Full integrated database of your customers’ personal information.

LOYALTY SYSTEM:
Definition of customers’ preferences, segmentation of customers. Management of marketing measures (bonuses / promo actions / discounts). Possibility for a programmed on-line newsletter (information on actions, events, activities, and greetings on holidays, including opportunities for advertisers). Flexible and controlled loyalty system for customers.

BILLING SYSTEM KIT:
Work place of the administrator and cashier (computer with a monitor and a card reader). Work place of the instructor (computer with a touch-screen monitor and a card reader). Interface for customers and a database server, allowing customers to independently check the balance, discounts, and other details of their plastic cards (computer with a monitor and a card reader). Kit to operate 4 ski simulators: PROLESKI™ software + computer hardware + receipt printer + OS Windows 8. Plastic PROLESKI CLUB™ deposit cards (for franchisees only).

The billing system is the basis for business conduct and may be supplemented with “Customer Service” capabilities and other options upon customer’s request.
CUSTOMER SERVICE:

GETTING EVEN CLOSER TO CUSTOMERS!
Effect of competition and winning.
Convenience of booking and payments.
Efficient management of the customers’ flow.

“BOOKING” MODULE:
Booking is carried out by the club administrator upon customers’ requests.
Contains options for advanced and confirmed booking.
Includes the function of set booking by time and date.
Represents a system of the club operation planning.
The module may be connected with the billing system and launch of the simulator.

“ON-LINE PROLESKI CLUB BOOKING” MODULE:
Customers can directly book and pay for sets on-line, using their personal account at the club’s website.
Customers can remotely control their balance, the number of sets skied, and all their statistics.
Module is combined with the billing system and the Future control panel.
Fully automatic process.
Available for franchisees only.

“RECORDS” SYSTEM:
Generates personal reports for customers on the track covered, specifying the track relief, speed, distance, and stops.
Possibility to show “Records” reports on the display and to automatically send reports to the club member's electronic mail in a chart form.
Possibility to get the track charts, to keep a journal of all tracks covered, to keep track of the trainee’s effectiveness rate, and to share the data with the social media.
Allows arrangement of competitions among club members, as well as comparing and showing “Records” on the display.
Promotes customers’ interest towards skiing, motivates them to perfect their skiing techniques, and raises the competition gusto and excitement.
Available for franchisees only.

SYSTEM OF THE SKI SIMULATOR’S ZONE ACCESS:
Designed and installed to organize and to increase the club’s traffic capacity.
Helps to organize queues and regulates the sequence of customers’ admission to the ski simulator.
Raises the level of safety and comfort in the ski simulator’s zone.
Notifies about the time of the ski simulator’s vacation.
Along with the billing and booking systems, enables the invitation of customers in accordance with the queue and optimization of cashier’s and instructor’s operations.
Admission to the preparation and training zone is allowed with a customer's personal card only.
Fully automatic system.
GET EVEN MORE FOR YOUR BUSINESS!

BUSINESS TRAINING:
Personnel training on business processes and practical transformation of the PROLESKI CLUB franchise into reality. Training duration: 7 days. Training at the customer’s premises. Option available for franchisees only.

TRAINING FOR INSTRUCTORS:
Instructors’ training on safe skiing, skiing techniques, customer-training techniques, and personal sales techniques. Training duration: 7 days. Training at the customer’s premises.

ELECTRONIC SYSTEM FOR PERSONNEL CERTIFICATION:
The staff will be able to start working only after the tests (in any other case the system is not launched). This system operates along with the billing system and the FUTURE fixed control panel. Option available for franchisees only.

PROTECTION SYSTEM FOR OPEN-AIR OPERATION:
Thanks to the fallout protection of the electric and electronic elements of ski simulators up to IP64, the system enables the open-air operation of the simulator.

VARIABILITY:
Possibility to design and manufacture an individual ski simulator with optional dimensions in accordance with customer’s needs: maximum design length / width = 24 meters. Software development and adaptation upon customer’s request.

STARTUP SUPPORT:
Recommendations on the efficient utilization of every square unit. Zoning and sketching visualization of the club’s space. Selection of optimal equipment in accordance with your club’s goals.

SEND US YOUR PREMISES’ LAYOUT AND WE WILL ARRANGE THE FOLLOWING FOR YOU:
Zoning and sketching visualization of the club’s space. Recommendations on the execution of the project feasibility study.

PROLESKI CLUB FRANCHISING

PROLESKI™ offers a sustainable business model, which includes the own business conduct technique and is based on the invention, protected by patents, and ensures the protection of your territory from competition.

PROLESKI CLUB franchising helps you to set up your own ski club “from scratch”, to systematize your business, to make it financially successful, and to recoup your investments within the shortest possible period of time.

This franchising concept has been developed and tested with our own chain of clubs and represents a unique technology for establishment of a successful indoor skiing club with a detailed description of instructions, actions, and solutions for each stage of your business development.

It also includes comprehensive support of our experts at all project stages, allowing you to minimize the commercial risks and to be the first in conquering of your regional niche.

Find more about the PROLESKI CLUB franchising at www.proleski.com.
PROLESKI Group of companies was established in 2007. The list of its professional activities includes engineering and manufacturing in the machinery construction business; design and development of manufacturing automation systems; software development; arrangement and development of catering, entertainment, and sports facilities; and consulting. The Group owns a number of invention patents, author’s rights, and trademarks, including PROLESKI and PROLESKI CLUB. Group’s headquarters are located in the UK. The engineering department is in Germany, while corporate production facilities and the software business are based in the Eastern Europe. All of our people are united by the love for mountain skiing!

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