



# LEARN2BURN

## Schwabe Extension Arm Systems and Training Concepts

To gain practical experience for use in everyday practice

Small series and custom made production

# Why use extension arm systems for motorcycles?

- More than 45% of all fatal motorcycle accidents take place on a bend (70% right hand bends, 30% left hand bends) - often with a curve radius of less than 60 meters. The accidents occur as a result of collisions with oncoming traffic or objects next to the road.  
Motorcyclists typically drive with an inclination of not more than 20°. Some react by braking. However, often they cannot control the motorcycle's tendency to return to an upright position when braking abruptly in curves.  
The result is that the front wheel blocks and this then leads to a fall. The speed in these situations was in each case, approximately 60 km/hour. Many accidents could have been prevented if the motorcyclist had been driving at an inclination of approximately 35°.  
  
(Source: Institute of Forensic Medicine at the University of Munich, Department: for the research of accidents)
- Professional training with the extension arms allows motorcyclists, without fear of physical or material damage, to train such situations. Thereby diminishing such risks or even making it manageable.
- Even experienced drivers take advantage of the extension arms in order to explore the limits.  
Only those who can assess the limits in wet conditions or driving on different surfaces, can judge how to approach bends with a safety buffer and also what is possible in an emergency.

# Extension Arm Systems for Motorbikes - Benefits for Driving schools or Training Centers

- Image enhancing training opportunities
- Advertising eye-catchers (in Print media, exhibitions, demonstrations ...)
- Training opportunities in a secured hazardous area, without fear of material damage or physical bodily injury
- Additional modules in the training programme
- Better utilization of fleet of motorbikes through the use of extension arms
- Better utilization of the Trainer and the training area
- With new methods and incentives, better motivated motorbike riders
- Working with extension arms motivates also experienced motorbike riders to undertake further training offers
- Professional development for your Trainer
- Fun for instructor and students

# Extension Arms for Motorbikes – The benefits for motorbike learner riders and participants on training courses

- A „risk free“ experience with maximum incline through continuously adjustable extension arms
- Effective tools to overcome fear of riding in a tilted position
- To be able to feel the limit of grip in wet conditions
- Training the right behavior when a wheel slips out of control
- Risk free testing of ABS in curves
- Exercises in braking, for example: use of release reflex when the front wheel blocks while driving straight ahead
- Effect of the steering impulse at different inclinations
- Handling the motorbike when a wheel slides
- Handling different curve styles
- And it is enormous fun

# Target Group for the motorcycle arm extensions

- Ranges from Driving Schools to Test Drivers:
- Those who want to can train or test this product in the secured hazardous area, without fear of physical damage to material or bodily harm.
- Training for end users
- Further development for Trainers and driving Instructors
- Tyre tests, brake tests
- Test drives of new assistance systems

# Models:

- Our system is designed so that the extension arms fit on the base plates that we have developed. Each motorcycle requires a base plate for the extension arms.
- All base plates have been assessed by the TÜV SÜD Auto Service GmbH Technical Controlling Board in Southern Germany. This organisation is responsible for controlling the safety of products. These base plates are allowed to remain mounted and be used on public roads.
- NOTE: Extremely hard blows to the extension arms, which may occur as a result of inappropriate handling, may cause damage to the motorbike in certain situations. (Hightsider, improperly adjusted extension arm).
- Please note that we do not accept any liability for any possible damage incurred to the motorbike.

# Models:

- We offer fully developed base plates for the following motorbike models:
- KTM Duke 125; Duke 390
- KTM Adventure 1190 (MSC – Kurven ABS); KTM 1050 Adventure
- BMW F 650 GS; F 700 GS; F 800 GS; F 800 R
- Kawasaki ER5N; ER6N
- Suzuki Gladius
  
- We are happy to offer you the base plates for other models. Development time and any additional development costs depend on model (similarity to existing models, market demand, etc.). The average development time required is 2 – 3 months.

# Technical Data:



compatible,  
adjustable extension  
arm

Quick fasteners  
Assembly time  
1 minute

base frame



## Technical Data:

According to the Document of Compliance from the TÜV (Technical Controlling Board in Southern Germany), the base plate is allowed to remain mounted on motorbikes used on public roads.



## Qualification

# Guidelines for training on an incline with a motorbike using the extension arms: Day 1

- The basics of working with extension arms
- Discussion of frequently asked questions from participants
- Structure and methods of Training
- Useful information regarding the subject of riding on an incline
- Solutions for dealing with problematic participants
- Practical implementation of exercises by the participants
- Coaching: Radio communication with Trainer as appropriate according to the situation
- Visualisation and explanation of common driving mistakes
- „Experiencing“ the curves with the ABS system from Bosch using the KTM Adventure
- Fees:
  - 1 day seminar on site 980 € net + expenses per instructor

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As I am riding my motorbike most of the time, the best way to contact me is per e-mail. I look forward to hearing from you.

Kind regards,

Klaus Schwabe

