

QUBICAAMF

THE POWER OF PARTNERSHIP

QubicaAMF B.V. trading in the UK through the offices of:

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Dear Centre Owner / Operator / Manager / Technician,



Re: QubicaAMF / AMF Bowling Equipment – Safety Advice - AMF Pinspotters

We are writing to you following the January, 2008 meeting of the Ten Pin Bowling Proprietor's Association at which HSE addressed the need to improve pinspotter safety. The slides used in HSE's presentation are attached in case you did not attend the meeting.

We remind you that the Provision and Use of Work Equipment Regulations 1998 "PUWER" requires that you maintain a robust safe system of work in your centre with emphasis on the importance of safety and appropriate training, policies and supervision of employees maintaining, adjusting or repairing pinspotters. We encourage you to ensure that your employees understand the risks surrounding pinspotters:

- All guards should be in position and fitted and regularly checked by a supervisor (This includes covers on control chassis and other electrical devices).
- Only trained and technically competent personnel should be allowed to maintain / adjust / repair and be in the immediate vicinity of pinspotters.
- Access to the service aisle should be restricted to authorised technical personnel by means of a coded door lock or similar device.
- No attempt should be made to physically access the pinspotter past the Pin Elevator Guard unless the power is safely isolated. This can take various forms depending on the type of pinspotter. However, all AMF pinspotters can be shut off at the rear through the Master Circuit breaker.
- Proper lockout/tagout practices and procedures should be followed. When access is required to perform repairs / maintenance, additional power isolation should be employed. – i.e. at the main power distribution panel – individual Pinspotter Master Circuit Breakers, Pinspotter Mains Power plugs should be disconnected on the pinspotter and also fitted with a plug lock-out housing.



For a number of months, we have worked with AMF Bowling, in close coordination with HSE and our UK safety advisors, to develop the Enhanced Field Conversion Kit (“Enhanced Kit”) to retrofit 82/70s and 82/90s, which provides:

- Suitable safe means of access up onto and around the machine to prevent slips, trips and falls liable to cause injury.
- Improved safety at the front in the form of a suitable placed photoelectric beam and fixed guarding and mask.
- Improved safety at the rear and top of the machine with interlocked guards (the interlock technology to be chosen for its suitability at each location).
- Additional emergency stops.

The Enhanced Kit also provides the latest XLi technology that provides updated electronics and motors that meet EU standards, eliminates switches and cams (reducing possible inadvertent means of energizing table and sweep movement as well as cushion activated triggers in some older models), includes a remote technician hand held to adjust machine from outside the safety zone and offers better operating performance, thereby reducing the need for access.

You should be aware that QubicaAMF and HSE consider that the safety features of the Enhanced Kit, together with XLi technology, are now the “state of the art”. Accordingly, we are now incorporating the features of the Enhanced Kit into all new and refurbished pinspotters that we sell in the future.

We will continue to offer several alternative guard and upgrade solutions for AMF Pinspotters. These solutions will place a greater emphasis on your active management of the remaining risks of safe system of work. These solutions are (1) fixed guard system, and (2) guard system with interlocked guards.

While we believe these alternative solutions provide paths for upgrading existing pinspotters, they are not state of the art. Therefore, in selecting between the Enhanced Kit and other solutions to meet your PUWER obligation, we recommend that you assess your circumstances and take an appropriate path to achieve safety and complying with PUWER, considering:

- Need for access;
- Frequency of access;
- Likely severity of injury;
- Whether interlocked guarding is more resistant to lapse errors;
- More user friendly than fixed guarding; and
- Other safety issues and other disadvantages that are likely to impose greater burdens in managing a safe system of work.



In summary, our hardware solutions for AMF Pinspotters provide the following benefits:

1. All solutions provide:
 - Fall protection for employees working on top of a pinspotter.
 - Guards preventing body parts inadvertently entering moving or rotating machinery or pinch points and preventing unauthorized personnel from accessing such locations.
 - Safe ladder access to the top of the pinspotter and proper walking surfaces.
 - Improved labelling to indicate hazards and precautions.
2. The interlocked guard kits add additionally:
 - Interlocks on key guards that shut down a pair of pinspotters if guard is removed.
 - Emergency stops and machinery reset process following a stop.
 - Automatically shuts down in the event of access from the front (lane side).
3. Lastly, the addition of the XLi upgrade adds:
 - Updated electronics and motors that meet EU standards.
 - Elimination of switches and cams (reduces possible inadvertent means of energizing table and sweep movement).
 - Remote technician hand held to adjust machine from outside the safety zone.
 - Generally better operating machines reducing the need for access.

The Enhanced Kit is state of the art and upgrades all electronic components to the latest XLi technology employed on the newest QubicaAMF 90XLi pinspotter. This greatly improves machine speed and efficiency, reduces stops and power consumption and enhances the bowling experience for your customers.

We also offer the following to assist you in maintaining a robust safe system of work in your centre:

- Safe working practices and instruction notes and signs for AMF Pinspotters in the form of A4 size notices and larger 1 metre square wall posters together with other warning signs / stickers etc. Your safety literature should be reviewed to ensure it is consistent, up to date, current and in good condition.
- Training seminars on AMF pinspotters that include training on safe practices.
- Health & Safety Risk Assessment Checklist. To identify items for review in the bowling centre (AMF Equipped) and assist in the proper Management of Health & Safety.
- QubicaAMF Safety Solutions Package – designed to minimise your Management of Health & Safety by tailoring a full safety package reviewing your hardware / software and liveware (Human Factors) and providing the best solutions for your QubicaAMF equipped centre for the future.
- We will soon issue a booklet to include sufficient technical information enabling you to choose how best to fulfil the safety objectives outlined in this notice.
- We can assist you in carrying out a proper assessment on your requirements & needs for compliancy.

Please contact QubicaAMF for further information and advice on any of the above.