



Health & Safety Innovation



ATLANTIC ALLIANCE CONFERENCE

Camborne School of Mines
University of Exeter in Cornwall
9 -11 May 2004

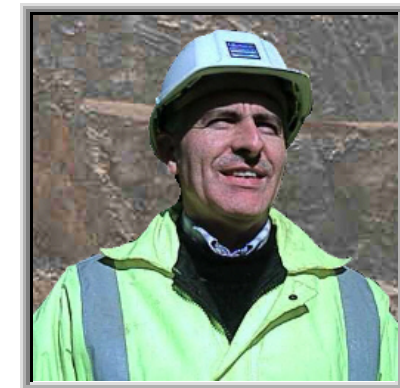
Good Ideas for a Safer Industry

Presented by

Martin Isles

Quarry Products Association, UK

Promoting an essential and responsible Industry





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'Boremaster' **(Hanson Aggregates)**

- **Borehole alignment**
- **Robust, lightweight**
- **Dry holes only**

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‘Boremaster’
aid to
Geometrics



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Instructor Harness (Aggregate Industries UK)

- No seat for trainer
- Solved by fitting harness
- Standard off-the-shelf kit

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Best Practice Awards



Aggregate Industries UK Ltd
Mobile plant instructor harness

Instructor
Harness



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Handling Heavy Bucket Tips (Foster Yeoman)

- Teeth can weigh 50kg
- Use kerb handler
- Look after their backs!

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Handling
Heavy
Bucket Tips



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Battery Booster Pack (Hanson B&PS)

- 'Jump starting' is risky
- Better to use dedicated pack with dedicated terminals

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**Battery
Booster Pack**



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Crusher Feed Relay (Lagan Group)

- Up to 5hr to clear blocked cone
- Arduous manual handling
- Speed sensor linked to feeder

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Lagan Group
Crusher feed relay

Crusher
Feed Relay



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Conveyor Sampler (United Marine Aggregates)

- Safe system of work
- Production not interrupted
- Cheap to fabricate

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Conveyor
Sampler





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Idler Replacement Tool (J Clubb)

[Small / Medium-sized Enterprise]

- **Shore to ship conveyer**
- **Walkway: one side only**
- **Use of tool reduces risks**

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Best Practice Awards



J Clubb Ltd
Idler replacement tool

Idler
Replacement
Tool



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Grid Guard (RMC Materials)

- **Blockages cost time**
- **Stop them *before* they stop you!**



Grid Guard (RMC Materials)

- **Blockages cost time**
- **Stop them *before* they stop you!**
- **Could be used in conjunction with a CCTV camera & monitor**

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Grid Guard





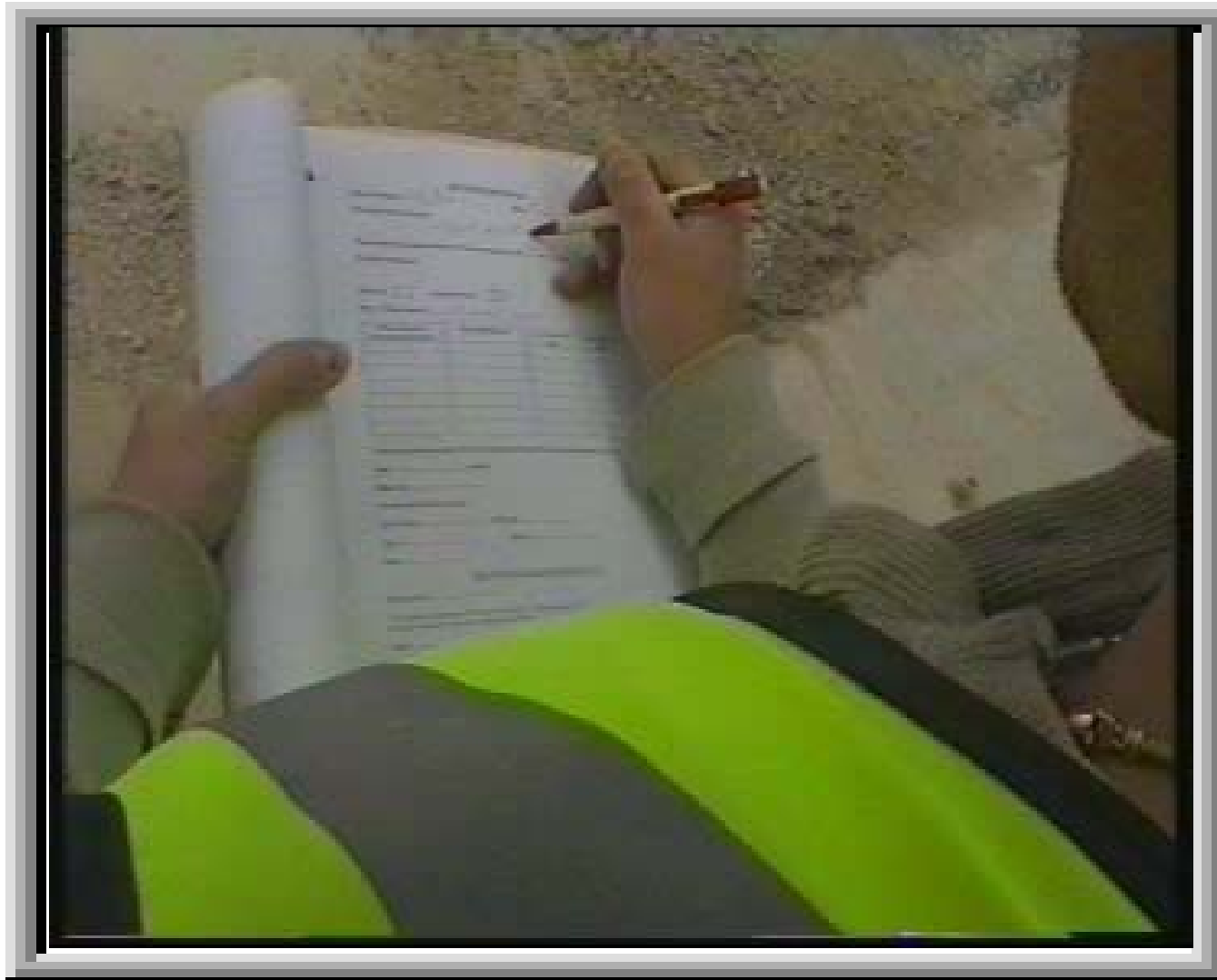
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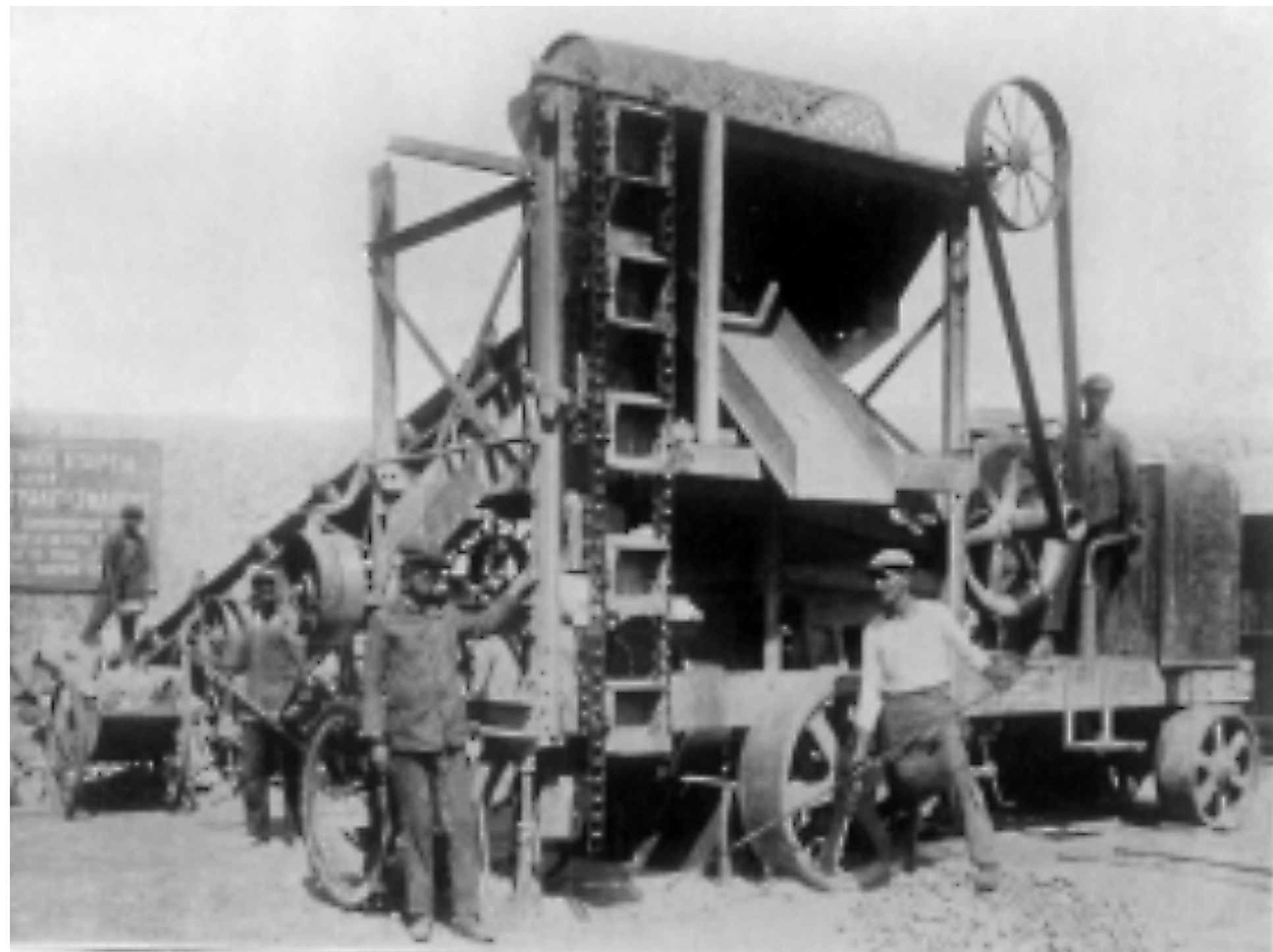
Elevator Inspection Access (Tarmac Central)

- **Inspecting in safety**
- **No risk of entrapment**
- **Cheap, simple, quick**

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**Elevator
Inspection
Access**





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Bitumen Pipe Unblocker (Midland Quarry Products)

- **Portable**
- **Intrinsically safe**
- **What system do *you* use?**

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Bitumen Pipe
Unblocker







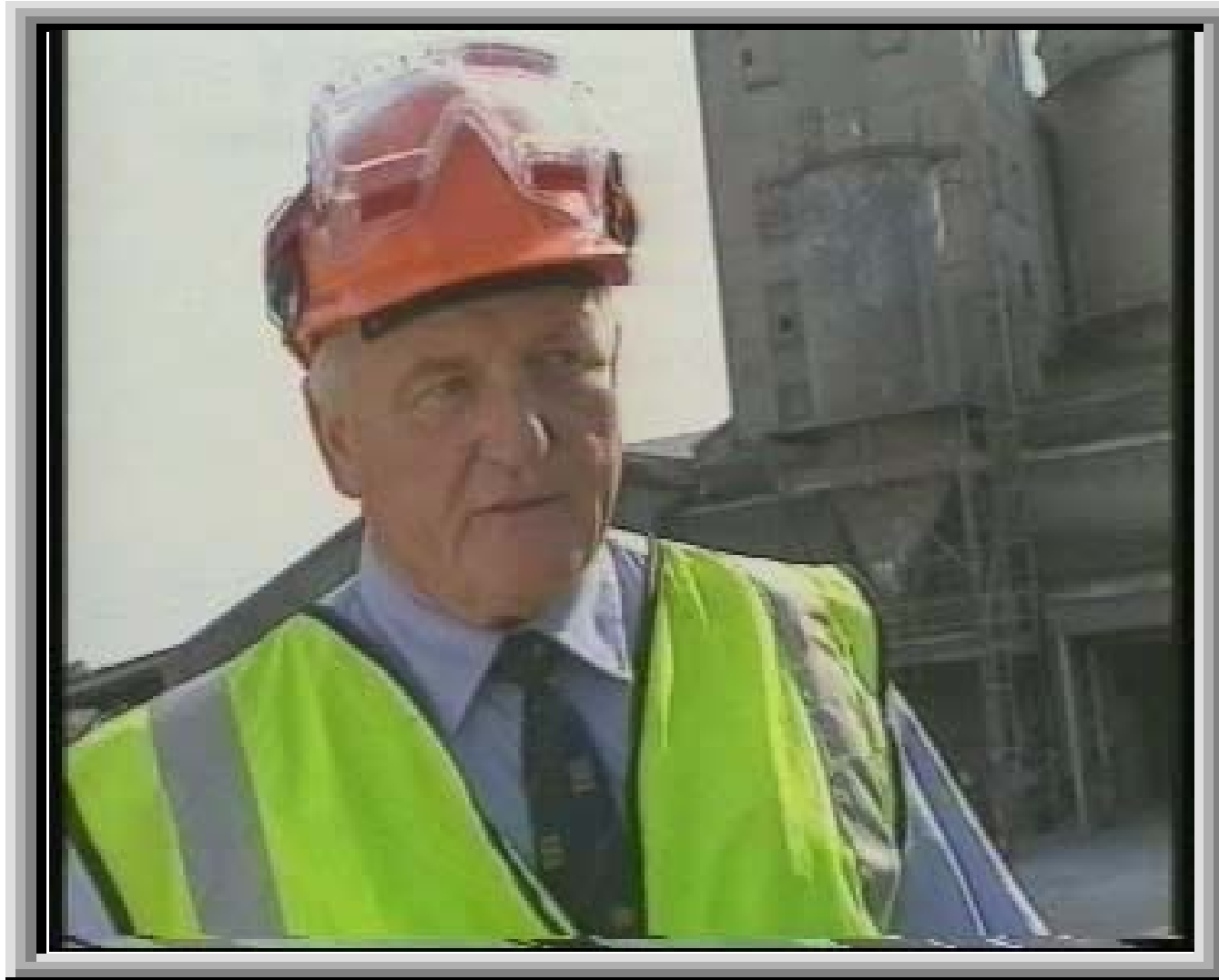
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**Preventing
Over-Pressurisation
In Silos
(RMC Materials + Rugby Cement)**

- **Early release of pressure**
- **Prevents over-pressurisation**
- **No need to chain down the filter assembly!**

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Preventing
Over-
Pressurising
Silos



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Ready-mix Aids (Lafarge Aggregates)

- **Easing silo level checks**
- **Improving winch safety**
- **Reducing build-up in mixer**

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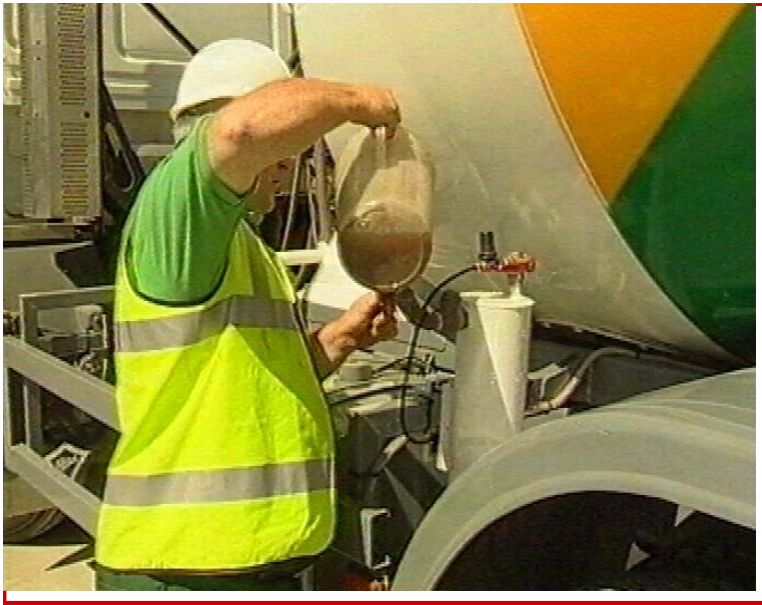


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Best Practice Awards



Lafarge Aggregates Ltd
*Probe circuit tester &
Pan mixer maintenance aids*

'Ready-mix'
Aids



Admixture Pump (Tarmac Northern)

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- **Reduces use of ladders**
- **Ideally needs independent air supply**

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Admixture
Pump



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**Lorry
Body Prop
(Midland Quarry Products)**

- **Robust, easy to operate**
- **Total peace of mind**

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Lorry
Body Prop



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Automatic Split Tailgate (RMC Materials)

- **Reduces musculo-skeletal risks for drivers**
- **Particularly useful for older, or smaller-framed drivers**

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**Automatic
Split Tailgate**





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Thank you for listening!