BEST PRACTICE

LOCATION:	**Concrete products plant**	**ARTICLE YEAR**	**2013**
ACTIVITY:	**Production and Processing**	**COMPANY:**	**CEMEX UK**
SUB ACTIVITY:	**Concrete products**	**COMPANY LOCATION:**	**Building Products - Floors**
BEST PRACTICE No:	**BP862**	**COMPANY TEL:**	**07795 051761**
COUNTRY OF ORIGIN:	**United Kingdom**		

TITLE

Automatic rubber divider extraction machine for concrete flooring manufacturing process

ARTICLE

DESCRIPTION

In order to cast concrete floor beams, rubber spacers need to be placed in moulds as dividers, concrete is then placed in the moulds. The rubber dividers are extracted during the setting process by operatives working from on top of the casting bed and manually lifting out each of the rubber spacers with a long hook (Picture 1). Approximately 1,200 spacer rubbers per day would be extracted.

Working closely with a local engineering company, a machine was designed to automate the process. A 3 phase bus bar system was installed along the length of each bed to provide the power to drive the machine and operate the hydraulics to lift out 10 rubbers in one action.

BENEFITS

• The operative does not mount the casting beds removing the risk of falling from height and possibility of slips, trips and falls

• Eliminated any possible repetitive strain or manual handling injury.

ARTICLE IMAGES

Click image to enlarge



Picture 1 Before

Click image to enlarge



After