

Brake with tradition

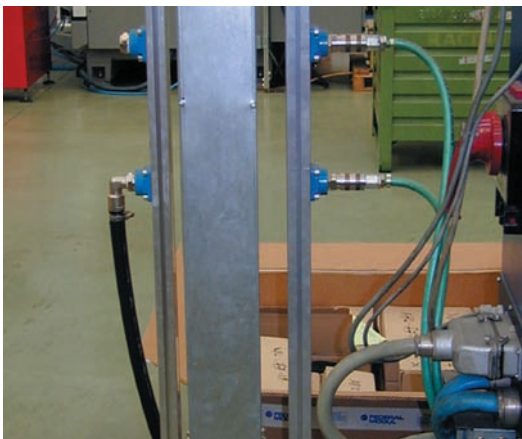
When Brembo, one of the most famous brands in the world of automotive and vehicle components, wanted to move factories while not disrupting production at its Racing Business Unit, it was essential to pick a team who could carry out the task of installing compressed air and coolant systems with the efficiency of a Grand Prix pit stop

Teseo's aluminium pipework system was chosen for the job. The design reduced installation time, but still delivered high flow rates to provide a cost effective fluid power distribution system.

Brembo is an official supplier of braking systems to several Formula One, Moto GP & Motorcross teams including Ferrari, Toyota, Honda, Ducati & Suzuki. It planned to concentrate & optimise three main competition production sites, Curno, Stezzano & Mapello into the newly expanded and modernised 15,000 sq metre factory at Curno. The new site was to start producing discs & calipers for cars and motorcycles including machining, assembly, quality inspection & testing.

All three sites had conventional galvanised steel pipework for the compressed air and oil/water based coolant, which was affected by rusting and leaks. The move to a new site was an opportunity to upgrade both the air & coolant systems to clean, high flow and leak free ring mains. The air compressors on site are two 132 KVA machines together with dryers & filters producing a combined flow rate of 1624 CFM @ 7.3 bar.

Mr. Piergiorgio Giorgi, industrial process optimiser at Brembo, consulted with Teseo regarding the move and the necessity of keeping disruption to a minimum. The Teseo system enabled Brembo to have the air and coolant ring mains installed first, and as machines were positioned, the engineers drilled the aluminium extrusion with a 'hot tap' and connected live to the multi columns which were previously pre-assembled on the floor. The multi columns consisted of compressed air and coolant feeds, power supply for the machines and two data cables for monitoring production machinery.



Another advantage of the Teseo system is the complete absence of rusting and contamination inside the HBS profiles, reducing the cost of air treatment and prolonging the life of tools and downstream equipment. Also the absence of air leaks due to the positive 'O' ring seals reduces energy costs for the airmain system.

The ring main consists of around 500 metres of HBS 110mm modular aluminium pipework, with branch lines of 1000 metres in HBS 50mm. In parallel with the compressed air system there are two lines for coolant with smaller diameters of HBS 50mm & HBS 32mm with an overall length of 1250 metres.

Commenting on the success of the installation, Teseo UK sales director Sean Connolly explained that it was a case of assessing Brembo's requests and his Italian colleagues working closely with Mr. Piergiorgio Giorgi to ensure a smooth & trouble free installation.

Teseo UK now has many installation references in the UK including Rolls Royce Aerospace, BAE, Triumph Motorcycles, BMW and Airbus. Teseo UK can assist in the design and sizing of pipework systems supplying detailed CAD drawings and flowcharts. This is a service offered free of charge by Teseo UK.