

Working with Steligence

As with so many industries, environmental considerations are primary concerns within both construction and demolition, and the issue of recycling has never been more important.

With this in mind, the world's biggest steelmaker, ArcelorMittal, has introduced Steligence, a new steel concept designed to offer steel solutions for the construction industry.

The company's CEO, Olivier Vassart, describes the concept, saying, "Construction is currently responsible for 40% to 45% of the world's gas emissions, so we have to assess the environmental issues when designing a project. At Steligence, we work with construction professionals throughout the entire lifecycle of a building project to reduce the environmental impact by 15-20%.

"Steel's infinite recyclability surpasses that of other building materials. Once the lifecycle of a building ends, the steel can easily be reused or repurposed and used in other ways, thereby reducing waste and the impact on the environment.

"Steligence has adopted a 'cradle to cradle' approach which will reduce, and eventually remove, waste altogether during the lifespan of a building. Each building is perceived as an all-encompassing entity made up of diverse components that interact in a complementary way to benefit the whole project. Eventually a building can become material banks for future projects.

"Most of the steel used within the Steligence solution is recycled steel. On top of this, we want to promote the reusability of steel that can be done through the deconstruction of a building then using steel parts for other projects."



Olivier Vassart, CEO of Steligence

The AIO 50 includes a high-flow double-acting line (for jaw opening and closure), a low-flow double-effect line (for tool rotation), two single auxiliary lines and a centralised lubrication line.

Arden is also adding to its demolition equipment portfolio with the CU042, adding to its range of demolition shears.

The new shears promise a 17% increase in power over the predecessor model, with a jaw opening width increased by 18%.

Designed for carriers of between 38 and 50 tonnes, Arden says the new shears feature a patented jaw change system that can be undertaken in less than ten minutes.

INCREASED SAFETY

Earlier this year, the Swedish manufacturer of tiltrotators and tools for excavators, Steelwrist, extended its SQ Auto Connection range of quick couplers with the SQ 65 and SQ 70/55 models.

The company says the market for quick couplers is growing fast and claims that, particularly in Central Europe, the kit is mounted on the majority of new carriers in the 14 to 50 tonne classes.

The new Steelwrist couplers boast a wedge locked system and patented front pin lock technology, increasing safety by preventing tools being mistakenly dropped.

Also, addressing the issue of restriction in



French manufacturer Arden says its new 'all in one' quick hitch – the AIO 50 – will operate with an array of attachments



The new TC120 tank cutter, combines with an electric Brokk demolition machine to tackle a steel tank

connection poles, small contact surfaces and water sensitivity often found with existing electrical connectors for excavator tools, Steelwrist has developed a new connector, specifically for the SQ couplers.

The V14 connector has larger contact surfaces and is designed in such a way that surfaces slide against each other during coupling, ensuring good contact and a self-cleaning effect.

Furthermore, the V14 is designed with 14 pins, as opposed to the usual 10, making it possible to connect the tiltrotator function, as well as a machine control system, or separate valve packages, in the same connector.

ROBUST ROBOTICS

Renowned for its demolition robots, Brokk, through its sister company, Darda, has brought the TC120 tank cutter to market, which it claims has unparalleled steel cutting abilities.

Used in conjunction with the Brokk 160, 280 or 400 demolition machines, the TC120 boasts 76 tonnes of cutting force at 510kg/cm², and has 125mm-wide jaws.

With numerous applications, the TC120 was designed with cutting steel tanks, pipes and vessels in mind.



The new Steelwrist couplers boast a wedge locked system and patented front pin lock technology