

# Technology Trend Series Robotics in Construction





'Construction Robotics for Offsite Manufacturing'



### Our Company

#### **FOUNDED IN 1999**

Mountmellick (HQ) | London | Bishop Auckland | Motherwell

#### **REBAR PREFABRICATION & BIM**

Services include; prefabrication, 3D modelling/BIM, cut & bent, mesh, couplers & rebar accessories.

#### 250,000 TONNE CAPACITY

Large capacity to supply the Irish and UK market strategically located in these regions.

#### **Our Services**



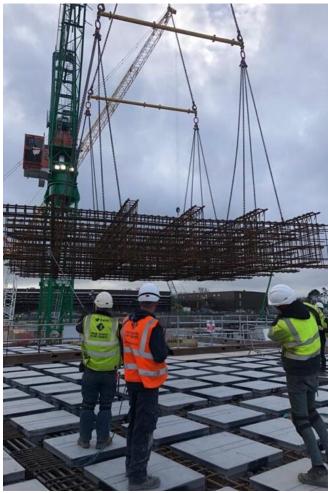




- Fabrication C & B
- Prefabrication
- Rebar detailing
- BIM Level 2
- Offsite rebar solutions using our concrete experience











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#### **Safety**

Eliminates risk of hand related injuries & muscles strains.

#### **Production**

Optimised for efficiency with production planned and controlled remotely which can operate 24/7.

#### **Operator**

Upskilled operator with a new job title.





### **Future of rebar**

#### **BIM**

Detailing modular solutions that can be sent directly to automated manufacturing machines.

### Reducing both time and labour

**Modular Installations** 

Reducing both time and labour onsite.



Automated processes that are user friendly and efficient.



## Why the construction manufacturing sector needs robotics

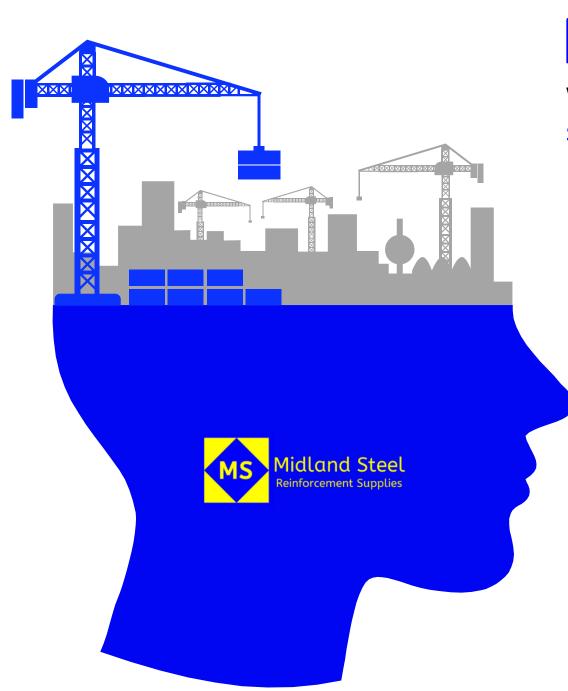
- Exhausting working tasks tying and welding rebar.
- The average age of operators is steadily increasing.
- Welding is a boring, hot and very unhealthy job there are very few young people who choose to be educated as welders.
- Welders are sometimes the limiting factor in productions.

Picture robots doing this job!!!

Operated by a welder, which now has a new and stimulating job title as robot operator







### **Future Talent**

want to work with digital and automated solutions and it is up to the supply chain to make these jobs available.

The construction industry won't change by itself. But it can be influenced by the supply chain that attracts new talent to do things differently and offer modern methods of construction all while keeping employees interested and engaged in their work

### Offsite Manufacturing Robotics Benefits



#### **Production efficiency**

Because robots increase output and thereby competitiveness, the company will over time employ more staff not less

#### Improves working environment & safety

Employee welfare can be significantly improved through the elimination of welding fumes, using robotics to work with heavy duty machinery and reducing manual labour/handling

#### **Give operators rewarding jobs**

Upskilling staff to work with digital and automated solution, solutions they have an interest in working with

#### **Cost Saving**

Automation will ultimately improve a company's profitability



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# Thank you for listening Tony Woods – Managing director

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