



**MANIPULATORS**

**C410, C620, C1210, C2010, C3010, C4010, C5010**



**HAMMERS**

**C25, C40, C50, C112, C1000, C2000**



**POWERBREAKERS**

**PB20, PB60, PB80, PB150**



**WEDGES**

**P40, P48, P50, P65, P80**



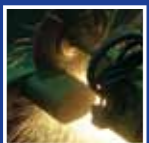
**ROBOTS**

**C2100L, C4100L, C10100L**



**TURNTABLES**

**T15TC, T15, T30, T50**



**GRINDING MANIPULATORS and  
TURNKEY GRINDING CELLS**

**C620G, C2010G, G40**



**Solutions After Pouring**



Clansman Dynamics Limited  
Stephenson Building  
Nasmyth Avenue  
Scottish Enterprise Technology Park  
East Kilbride  
Lanarkshire G75 0QR  
Scotland, U.K.

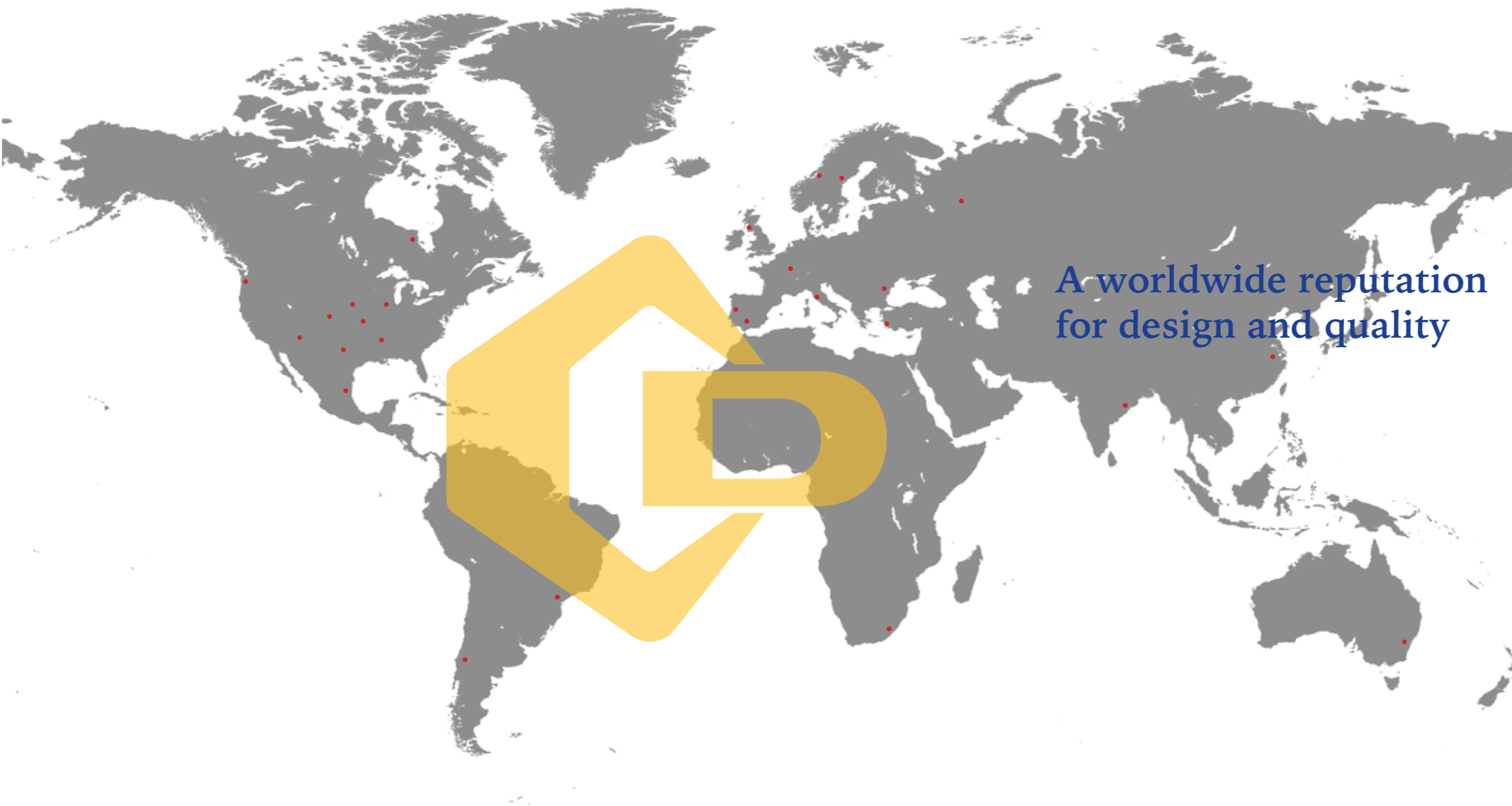
T: +44 1355 579900

F: +44 1355 579901

E: [info@clansmandynamics.com](mailto:info@clansmandynamics.com)

[www.clansmandynamics.com](http://www.clansmandynamics.com)





Clansman Dynamics was established in 1994 by 4 engineers who had worked for 2 forge/foundry manipulator suppliers. Those founding engineers still form the basis of the Clansman engineering, but other key personnel from aerospace and the oil industry were recruited.

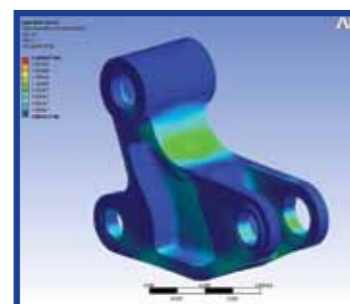
The founders provide the 'grey-hairs-wisdom' for what works in a savage foundry environment but they knew that reliability problems with existing manipulators had to be solved. This is where the aerospace experience and familiarity with 'fatigue analysis' was so critical.

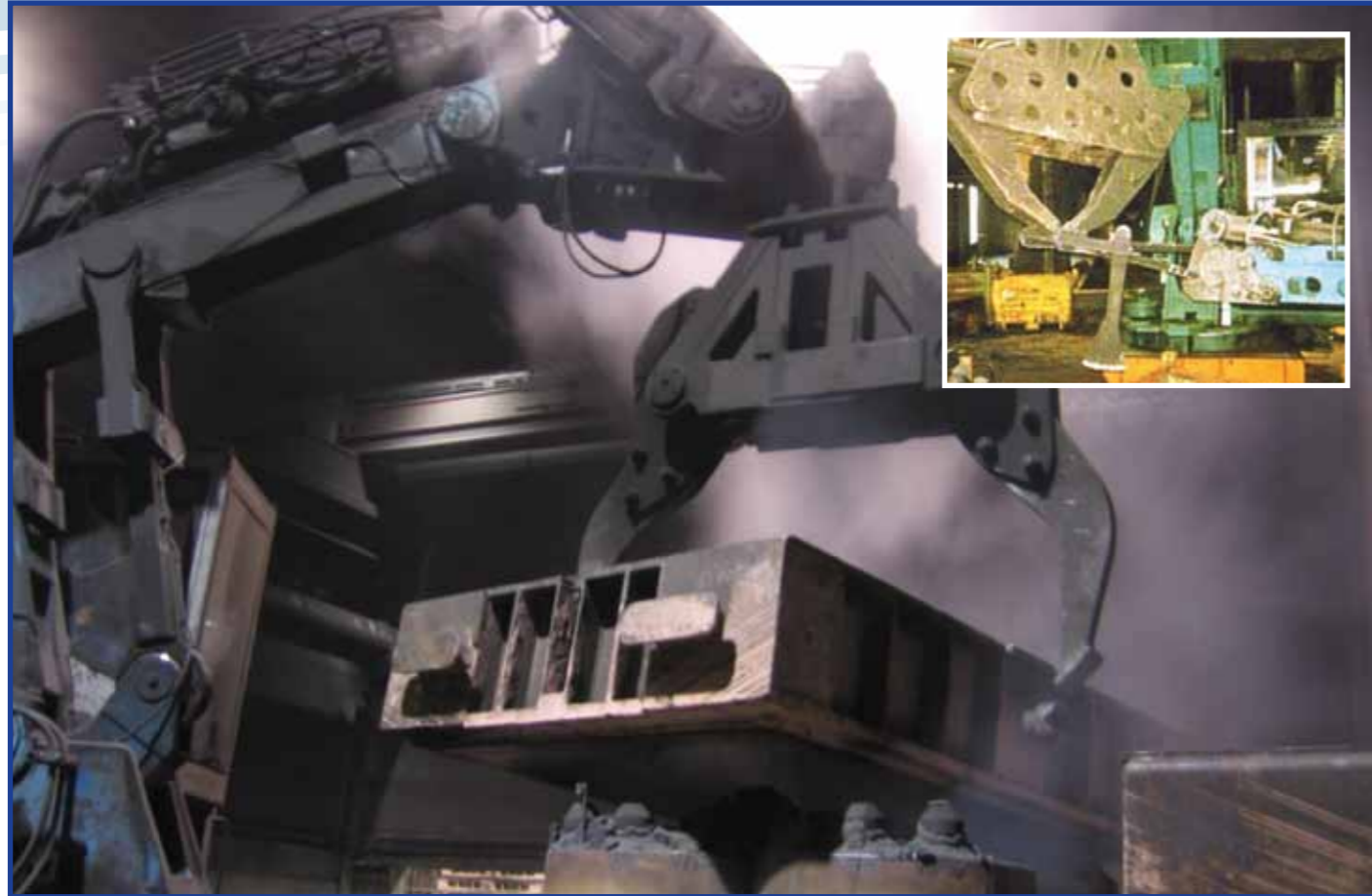
**The design philosophy is:**

- A. accept that whatever a machine can do ... then the operator will do it... especially on the night shift!!
- B. strive for maximum simplicity and robustness
- C. analyse every part using 3D CAD + Finite Element Techniques to try to avoid fatigue failures.

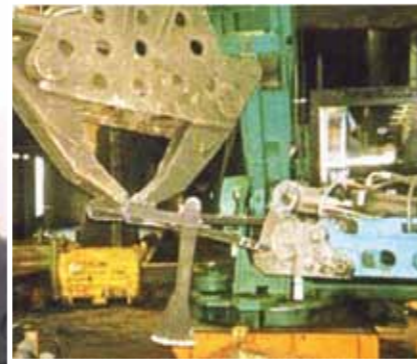
The result is sales of a robust and increasingly wide range of machines to an enviable list of customers in 5 continents.

And when problems do occur... keep that same design team in place to solve them, while being able to design special machines





1. Manipulator C5010 (10 T mould boxes)



2. C620 Manipulator – sorting 600 castings per hour



3. High Speed C410L linear manipulator



4. C410 Manipulator



5. C620 Manipulator Loading 600 castings per hour to monorail

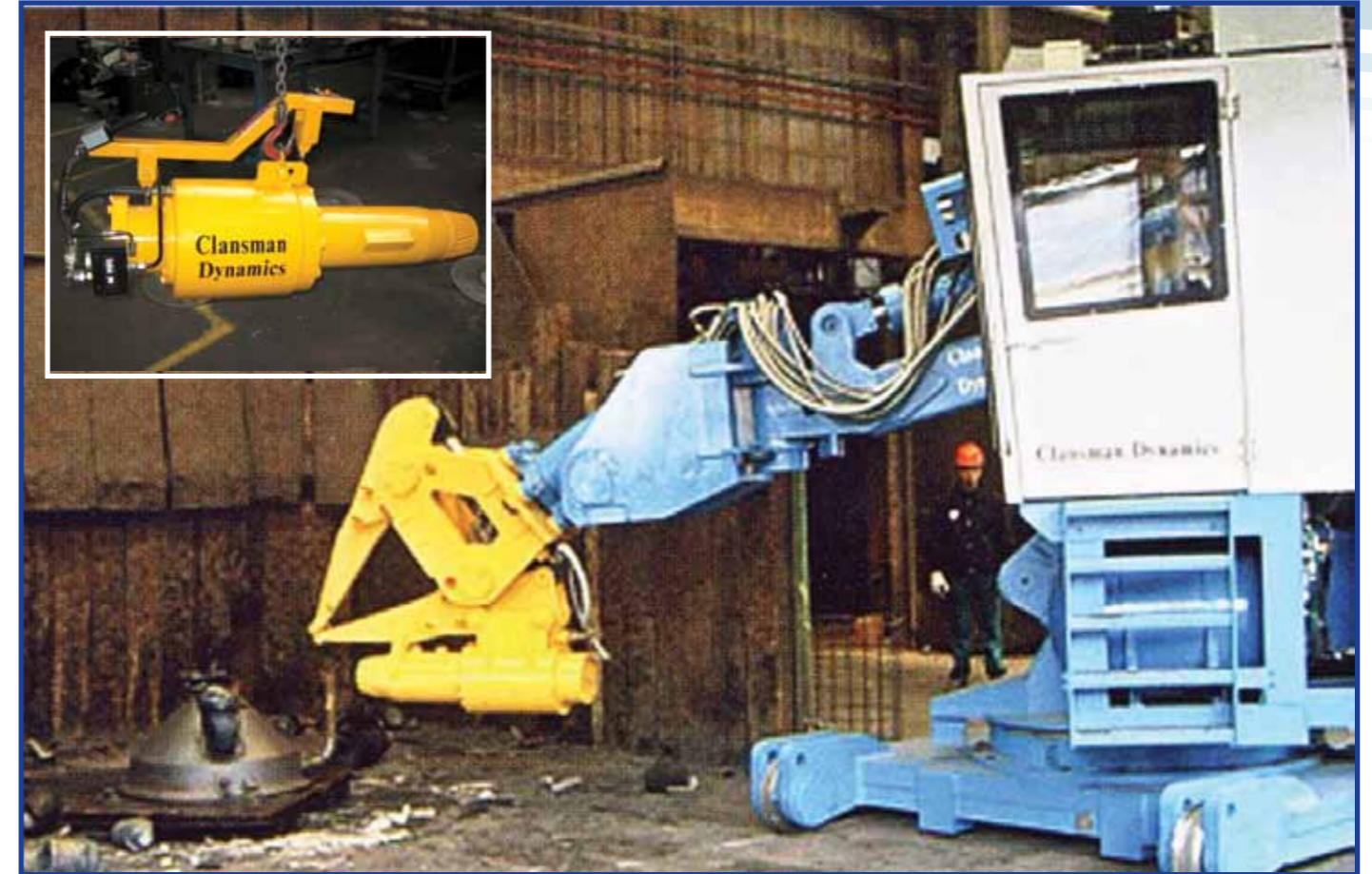
1. Manipulador C5010 (Cajas de moldeo de 10Tn)
2. Manipulador C620 - Clasificación hasta 600 piezas por hora
3. Manipulador lineal C410L de alta velocidad
4. Manipulador C410
5. Manipulador C620 Cargando 600 piezas hora en un monorail

1. Manipulateur C5010 (moule de 10 tonnes)
2. Manipulateur C620 - trie de 600 pièces par heure
3. Manipulateur linéaire C410L à haute vitesse
4. Manipulateur C410
5. Manipulateur C620 - chargement sur un monorail de 600 pièces par heure

1. Manipolatore C5010 ( staffe da 10 t.)
2. C620 manipolatore - cernita di 600 staffe/h.
3. Manipolatore lineare C410L pe alte cadenze (Disa)
4. C410 manipolatore
5. C620 manipolatore per il carico su monorail di 600 getti/h.

1. Манипулятор C5010 ( 10 T mould boxes)
2. Манипулятор C620 – сортировка на 600 отливок в час
3. Высокоскоростной линейный манипулятор C410L
4. Манипулятор C410
5. Манипулятор C620 для загрузки отливок на монорельс, производительность 600 отливок в час

1. 机械手C5010型 ( 10吨砂箱 )
2. C620型机械手 - 每小时分拣600个铸件
3. 高速C410L型线性机械手
4. C410型机械手
5. C620型机械手每小时抓取600个铸件上悬链



1. C 2010 Railbound manipulator with knock off hammer



1. Manipulador C2010 para piezas de ferrocarril con cañón
2. Cañón CC112 fijo en bloques de grafito compacto
3. Cañón CC2000
4. Cañón CC25 con "punta blanda"

1. Manipulateur C2010 sur rail avec un impacteur
2. Impacteur CC112 utilisé sur des block moteur
3. Impacteur CC2000
4. impacteur CC25 avec un nez de frappe souple

1. Manipolatore C2010 su rotaie , con martello di smaterozzatura montato su pinza
2. Martello di smaterozzatura CC112 fisso pe blocchi motore CGI
3. CC2000 martello di smaterozzatura
4. CC25 martello di smaterozzatura con naso ammortizzato

1. Манипулятор на рельсовом пути С 2010 с пневмопушкой
2. Стационарная пневмопушка CC112 для снятия литников с блоков двигателя
3. Пневмопушка CC2000
4. Пневмопушка CC25 с "мягкой ударной головкой"

1. C2010型带气冲锤的轨道机械手
2. 固定的CC112型气冲锤用于蠕墨铸铁缸体
3. CC2000型气冲锤
4. CC25型带“软鼻”的气冲锤



2. Fixed CC112 knock off hammer on CGI blocks



4. CC25 knock hammer with 'soft nose'



3. CC2000 knock off hammer



1. C4100 robot – automatic gating removal – blocks



2. C410 Robot – automatic gating removal – ductile iron

- 1. Robot C4100 para separación automática de canales para bloques
- 2. Robot C410 para separación automática de canales para nodular
- 1. Robot C4100 - enlèvement automatique du système de coulée des blocks moteurs
- 2. Robot C410 - enlèvement automatique du système de coulée pour de la fonte GS
- 1. C4100 robot - rimozione autom. delle colate di blocchi motore
- 2. C410 robot - rimozione autom. delle colate - Ghisa sferoidale
- 1. Робот C4100 для автоматического удаления литниковых систем с блоков двигателя
- 2. Робот C410 для автоматического удаления литниковых систем с отливок из высокопрочного чугуна
- 1. C4100型机器人 - 自动去除浇冒口 - 缸体
- 2. C410型机器人 - 自动去除浇冒口 - 球铁件

## Wedges



1. P50 wedge

- 1. Cuña P50
- 1. Coin hydraulique P50
- 1. Cuneo di smaterozzatura P50

- 1. Гидроклин P50
- 1. P50型去浇冒口楔



2. P65 wedge

- 2. Cuña P65
- 2. Coin hydraulique P65
- 2. Cuneo di smaterozzatura P65

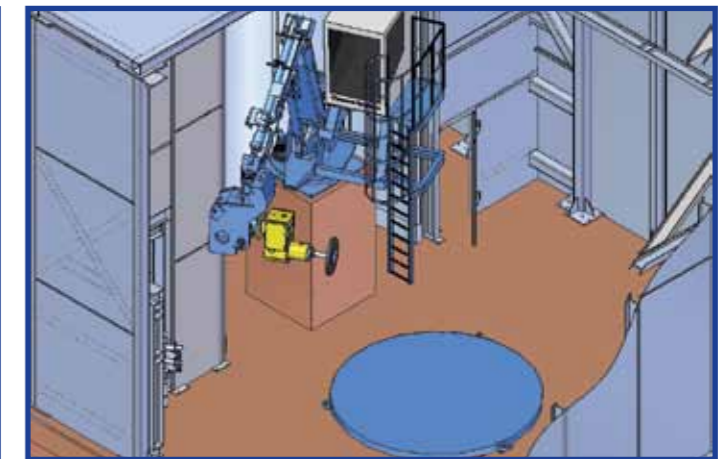
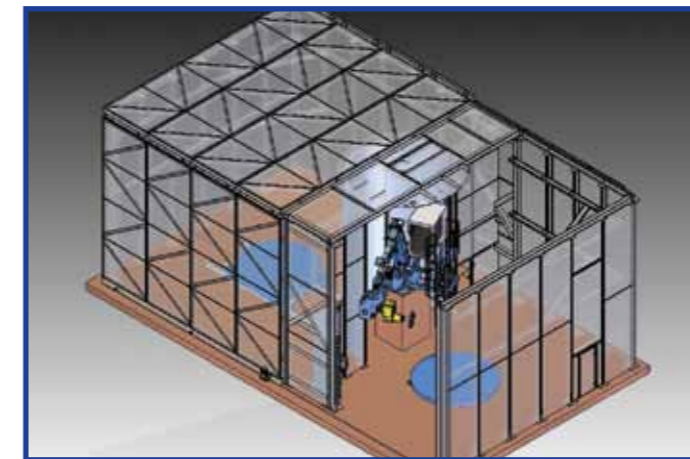
- 2. Гидроклин P65
- 2. P65型去浇冒口楔



1. C620G Cutting/Grinding Manipulators in turnkey cells

- 1. Manipulador C620G para corte/rebado en célula llave en mano. 1. Manipulateur C620G pour le tronçonnage et le meulage en cellule clef en main. 1. C620G "Isole di lavoro" chiavi in mano " per taglio e sbavatura. 1. Манипулятор С620G на зачистной станции для обрезки литников и финишной обработки.
- 1. C620G型切割/打磨机械手, 在交钥匙单元中

## Turnkey Grinding Cells



1. Turnkey Grinding Cells

- 1. Célula de rebabao llave en mano. 1. Cellule de meulage clef en main. 1. "Isole di sbavatura" chiavi in mano". 1. Комплексные зачистные станции.
- 1. 交钥匙打磨单元

## Powerbreakers

- 1. Rompedor PB20 cortando canales de nodular
- 2. Rompedor PB80

- 1. Casse jets PB20 coupant de la fonte GS
- 2. Casse jets PB80

- 1. PB20 Sistema di taglio per colate in ghisa sferoidale
- 2. PB80 Sistema di taglio per grandi colate

- 1. Ломатель PB20 для удаления литников с отливок из высокопрочного чугуна
- 2. Ломатель PB80

- 1. PB20型液压剪切切断球铁件的浇冒口
- 2. PB80型液压剪



1. PB20 Powerbreaker cutting ductile iron gatings



2. PB80 Powerbreaker