



Built for Blasting

www.blastman.com

CUSTOMER EXPERIENCES

“The robot has completely replaced one of the operator’s heaviest work phases, which has been often a factory bottleneck in the past. We are pleased with the investment after keeping the utilization rate high due to systematic preventive maintenance.”

Markus Lahtinen, Vice President of Production, Europress Group Oy

“Blasting is one of the most physically demanding processes in a shipyard, both on personnel and machinery. Since the installation of the Blastman Robotic system, our manual blasting time required to blast a barge is down 85% and all of the equipment provided by Blastman is specifically designed to withstand a harsh blasting environment. This equates to a safer work environment for our employees, less mechanical breakdowns of our equipment and exponentially faster blast times. A true WIN WIN scenario.”

Tony Cibilich, C&C Marine and Repair, USA



STEEL STRUCTURES

Lots of infrastructure and machinery are operating outdoors in challenging environmental conditions where the conditions for corrosion are optimal. Steel structures, such as bridges, building constructions, windmill towers, construction machinery, ships, offshore machinery, and cranes, require the highest quality of surface treatment to resist against surrounding conditions.

Manufacturers are often obligated to provide warranties as long as 10 to 20 years for painted surfaces. Repair operations for failed coatings are extremely expensive and tiresome, once structures are already in place. Strong adhesion between the paint film and substrate prolongs the lifetime of the surface coating as well as reduces the possibility of repair costs. It is a commonly known figure, that as much as 80% of the painting failures are caused by failures in pre-treatment.

For these reasons, constantly high quality, surface treatment before the coating is the most effective and economical way to fulfill the requirements set for steel structures. Blastman robots are essential when the workpiece requires high corrosion protection. Robots provide a constant quality, everywhere on the workpiece, efficiently and in a safe manner. The quality of manual blasting depends heavily on operator actions. A Blastman robot operated process takes human errors out of the finished product. Additionally, all costs and quality issues related to operator fatigue are removed.

Blastman robots can travel all around the workpiece to reach even the most difficult places. Steel structures are often geometrically the most complicated workpieces. Blastman robots offer a very high coverage for blasting, due to its ability to direct the nozzles accurately. The robots can be equipped with two 19 mm nozzles to provide maximum efficiency. With pressures up to 10 bars, the abrasive speed is much higher than with traditional manual blasting or wheel blasting. The increase in abrasive speed allows more particles to impact the surface giving the process a dramatic increase in efficiency. Steel structures are also often large and tall. This creates additional safety risks for workers if ladders or scaffolding must be used during blast cleaning. Blastman robots move the nozzles all the way up the workpiece, removing any need for ladders and scaffolding. This improves workplace safety significantly since over a third of all workplace accidents are caused by slipping or falling.

Blastman robots are tailor-made to match production needs. Therefore, the size of the robot varies depending on the size of the maximum workpiece blast cleaned. Blastman manufactures robots for company's blast cleaning containers as well as companies blast cleaning harbor crane frames and barges. This allows for a huge variety between the workpieces blast cleaned with the robot.

In the steel structure industry, the structures manufactured can be very different from another. Blastman robots can be operated completely automatically or as manipulators from a control cabin. These options don't rule out the use of the other. Therefore, robots can be used for serial production as well as low volume series. Blastman robots can be taught by the operator, while blast cleaning the first piece. This way the next similar workpiece is already blasted automatically.

CIMTAS

Gemlik, Turkey

BACKGROUND

Cimtas engineers and manufactures large metal structures such as wind towers and bridges. They received order to manufacture a large bridge project in Turkey, a bridge across Sea of Marmara at Izmit Bay.

With a wheelmachine it's not possible to create sharp enough surface roughness. The bridge panel has also many details, such as stiffener beams, which have to be blast cleaned automatically from all sides.

Blastman worked together with Cimtas to find the optimal blasting circumstances and to meet strict surface quality requirements.

CIMTAS is an engineering, fabrication and erection company with global coverage incorporated in 1973 in Turkey as a fully owned subsidiary of the world leading contractor ENKA.

OBJECTIVES

Quality had to fulfill the strict surface roughness and cleanliness requirements. Target was to clean several large bridge elements daily. The project had a very tight production schedule, all process steps needed to work within this timeline. The bridge needed to be delivered on time to the construction site.



CIMTAS

Gemlik, Turkey

SOLUTION

The robot blast room is equipped with one Blastman B20C-S robot. Products are driven in at one end of the blast room and they exit from the other end directly to paint room after blasting. Bridge panels are placed in vertical position on transfer cars. Panels can be completely blast cleaned with a Blastman robot. The Blastman robot cleans different size and type of bridge components automatically or in case of non serial products manually by using the joystick steering. Programming is done with offline programming software. Some products are programmed with Teach-In- or with Point-to-Point-method.

RESULTS

The production capacity and surface roughness are achieved. No manual touch up is needed.

TECHNICAL INFORMATION

Nozzle diameter	19 mm
Number of nozzles/robot	2
Blasting pressure	10 bar
Blasting rate	120 -170 m2/h
Abrasive	Steel grit
Degrees of freedom	8
Programming	Offline, Teach-in or Point-to-Point
Operation mode	Automatic and joystick drive

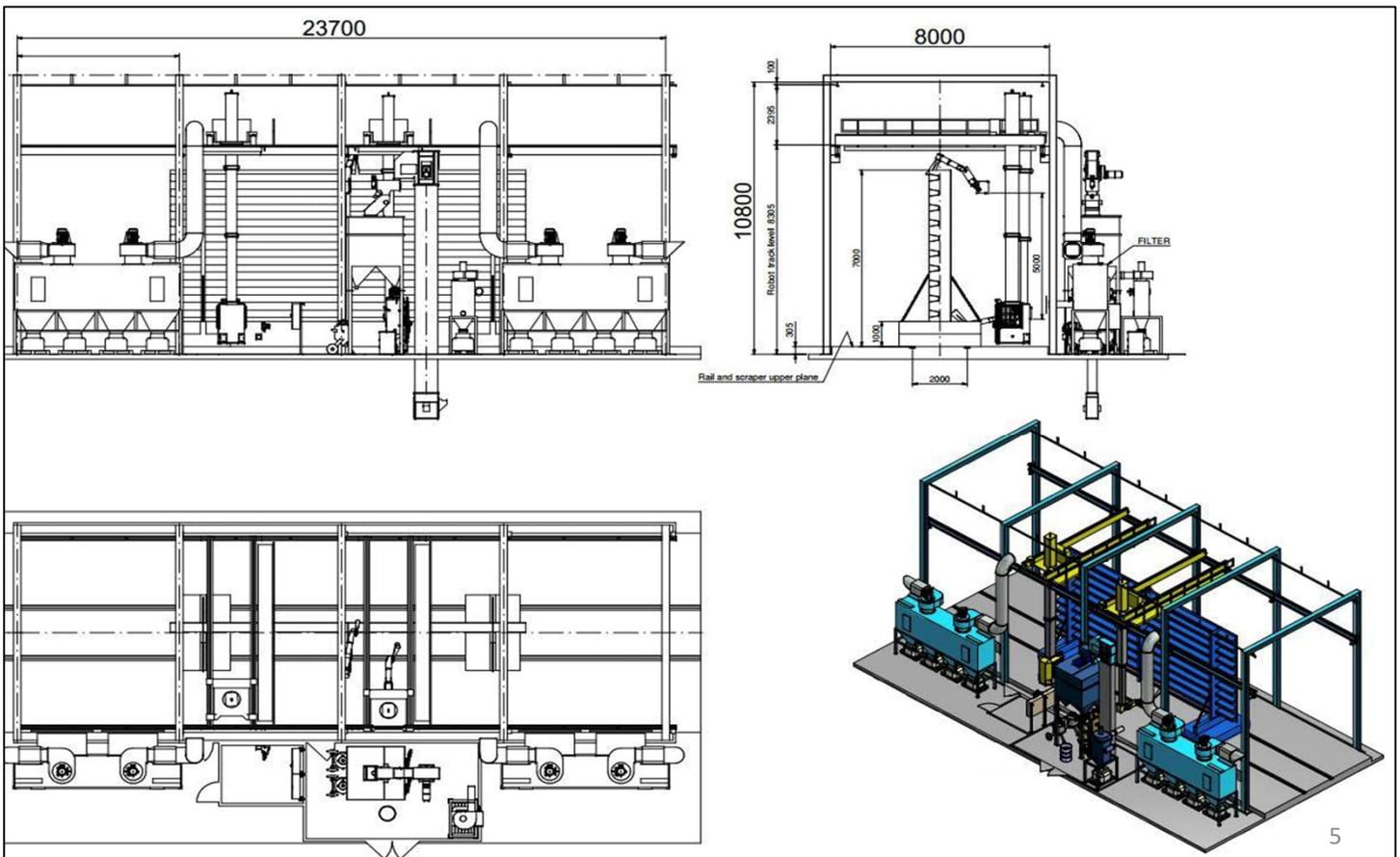
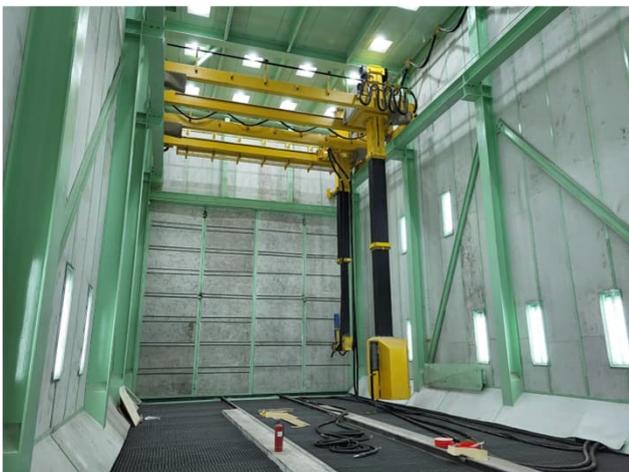


ABB HITACHI

Chongqing, China

DELIVERY IN 2023

- Blastman B20CS G4 robot
- 2 x Blastman B16XS G4 robots
- 3 x Blastman BP1100 blast pots
- 2 x Blastman studio
- 2 x booth cameras



OBJECTIVE

- Automate production
- Improve quality and efficiency
- Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Transformer cars and parts

Workpiece condition

- Rust grade A-B

Pressure

- 5 - 10 bar

Abrasive

- Steel grit

Nozzle / robot

- B20CS 2 x 19 mm,
- B16XS 1 x 19mm/robot

Efficiency

- 75 m²/h

Typical manual blasting efficiency

- 10 - 15 m²/h

Cleanliness

- Sa 2,5

AKER SOLUTIONS

Verdal, Norway

COMPLETE DELIVERY IN 2022

Blastman B20S G4 robot & blast pot
BP1100

Blastman B20ML manlift

Blastroom, abrasive handling system &
full scraper floor



"Aker Solutions sent the first RFQ to Blastman Robotics in November 2020. Until we signed the contract in September 2022, we had a number of meetings and correspondence. During this time and process, we have learned that Blastman Robotics is a highly competent and professional player in this market.

Blastman Robotics has taken part in the development of the line in an active and professional way, presented ideas, and proposed solutions with a focus on robots and automation in the production line to meet Aker Solutions' requirements and overall goal with this investment.

During the delivery and installation face, Blastman Robotics showed a high grade of professionalism. All from the transport of the equipment to Verdal to Blastman Robotics representatives on-site here in Verdal. The installation face has worked flawlessly. The contractual startup date of the blasting section was reached, and further training of our personnel did work out as planned."

-Hans Haugberg, Project Procurement Manager, Aker Solutions

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

Energy savings

MES integration

Industry 4.0 compliancy

PROCESS INFORMATION

Workpiece

- Large steel structures

Workpiece condition

- New production

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 80m²/h

Typical manual blasting efficiency

- 10 m²/h for a similar process

Cleanliness

- Sa 2,5

LAKIEREREI SBV KLAUS WESSLING

Geeste Dalum, Germany

DELIVERY IN 2022

Blastman B20S G4 robot

BP1100

Blastman Studio

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Wind mill parts (segment parts)

Workpiece condition

- Rust grade A-B

Pressure

- 6 bar

Abrasive

- Steel grit

Nozzle / robot

- 2 x 16 mm

Efficiency

- 120 m²/h

Typical manual blasting efficiency

- 10 - 15 m²/h

Cleanliness

- Sa 2,5

STRAHLTECKNIK K-WESSLING GMBH & CO.KG

Geeste Dalum, Germany

DELIVERY IN 2022

2 x Blastman B16XS G4 robot

2 x BP1100

Blastman Studio

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Various transportation equipment

Workpiece condition

- Rust grade A-B

Pressure

- 6 bar

Abrasive

- Steel grit and corundum

Nozzle / robot

- 2 x 16 mm

Efficiency

- 60 m²/h per robot

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



F.E.L AG FAYMONVILLE

Faymonville, Luxemburg

DELIVERY IN 2022

2 x Blastman B16ML manlifts

OBJECTIVE

Automate production

Improve quality and efficiency

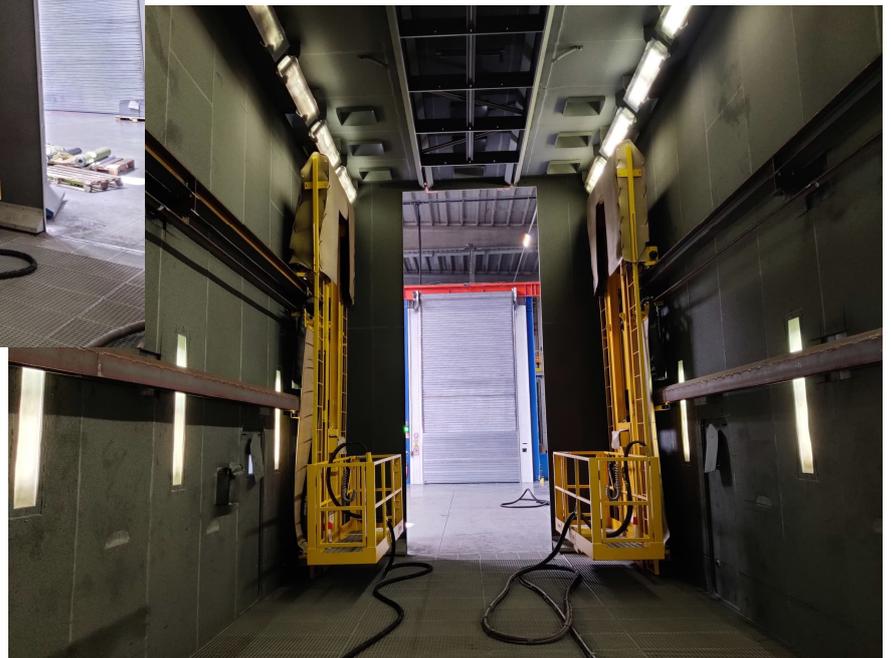
Improve health and safety of operators



PROCESS INFORMATION

Workpiece

-Blasting trailers and trailer parts



SWIRE ENERGY SERVICES

Scotland and Norway

ABERDEN DELIVERY IN 2021

Blastman B20S robot

BP1100

Blastman Studio

STAVANGER DELIVERY IN 2021

Blastman B20S robot

BP1100

Blastman Studio



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Container repair

Workpiece condition

- Up to 600 um thick existing paint

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 30 - 50 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

LIEBHERR – MCCtec ROSTOCK GmbH

Rostock, Germany

DELIVERY IN 2007

Blastman B20C robot

Blast vessels

DELIVERY IN 2022

Blastman B20CS-ML robot

B20ML

BP1100



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Large crane parts, marine cranes

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

FAW

Liuzhou, China

DELIVERY IN 2020

Blastman B20S robot

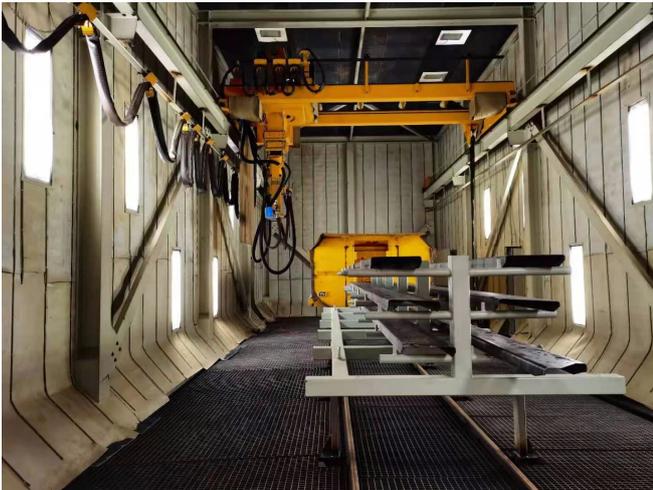
BP1100

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Blast cleaning truck car platforms

Workpiece condition

- New workpiece, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 2 x 19 mm

Efficiency

- 15 min per work piece

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5



TBEA

Shenyang, Tianyang, Hengyang, Xinjiang, China

DELIVERIES IN 2009, 2011, 2012, 2020

Blastman B20CS robot BP1100

Blastman Studio Scraper floor

Abrasive handling Ventilation

Blast room design

OBJECTIVE

Automate blast cleaning

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Power transformers

Workpiece condition

- New work piece, rust grade A

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 2 x 16 mm

Efficiency

- 75 m²/h

Typical manual blasting efficiency

- 10-15 m²/h/person

Cleanliness

- Sa 2,5



ACE MUIJS

Uilenweg, Holland

DELIVERY IN 2020

Blastman B20CX robot

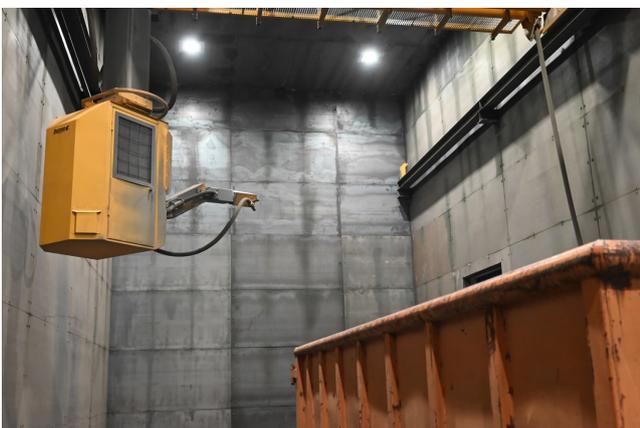
BP1100

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Blast cleaning of containers

Workpiece condition

- Existing coating, rust grade D

Pressure

- 8 bar

Abrasive

- Grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 40 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

JLG, JERR DANN

Mcconnellsburg, Pennsylvania, USA

DELIVERY IN 2019

Blastman B20LWS robot



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Trailer beds

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 - 10 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 100 – 150 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

EUROPRESS GROUP OY

Kerava, Finland

DELIVERY IN 2019

Blastman B20LWS robot

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



"The robot has completely replaced one of the operator's heaviest work phases, which has been often a factory bottleneck in the past. We are pleased with the investment after keeping the utilization rate high due to systematic preventive maintenance."

Markus Lahtinen, Vice President of Production, Europress Group Oy

PROCESS INFORMATION

Workpiece

- Waste press containers

Workpiece condition

- New production and existing coating

Pressure

- 7 - 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 75 – 125 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

C & C MARINE AND REPAIR INC.

New Orleans, Louisiana, USA

DELIVERY IN 2017

2 Blastman B20C-S

MBU Bottom blaster

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



“Blasting is one of the most physically demanding processes in a shipyard, both on personnel and machinery. Since the installation of the Blastman Robotic system, our manual blasting time required to blast a barge is down 85% and all of the equipment provided by Blastman is specifically designed to withstand a harsh blasting environment. This equates to a safer work environment for our employees, less mechanical breakdowns of our equipment and exponentially faster blast times. A true WIN WIN scenario.”

Tony Cibilich, C&C Marine and Repair, USA

PROCESS INFORMATION

Workpiece

- Barges

Workpiece condition

- New production, rust grade A-B

Pressure

- 9 - 10 bar

Abrasive

- Steel grit

Nozzle / robot

- 6 x 19 mm

Efficiency

- 36 hours for 2 barges, 150 – 400 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

O.I.L. N.V.

Adegem, Belgium

DELIVERY IN 2017

Blastman B20CX robot

Blastman blast pot



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Various steel structures as O.I.L is blast and paint contractor

Workpiece condition

- Existing coating and new production

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 50 – 150 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

ROWI STRAALBEDRIJF B.V.

Baak, Netherlands

DELIVERY IN 2017

Blastman B20CX robot

Blast pot

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Road maintenance equipment parts and trailer tanks

Workpiece condition

- Existing coating and new production

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

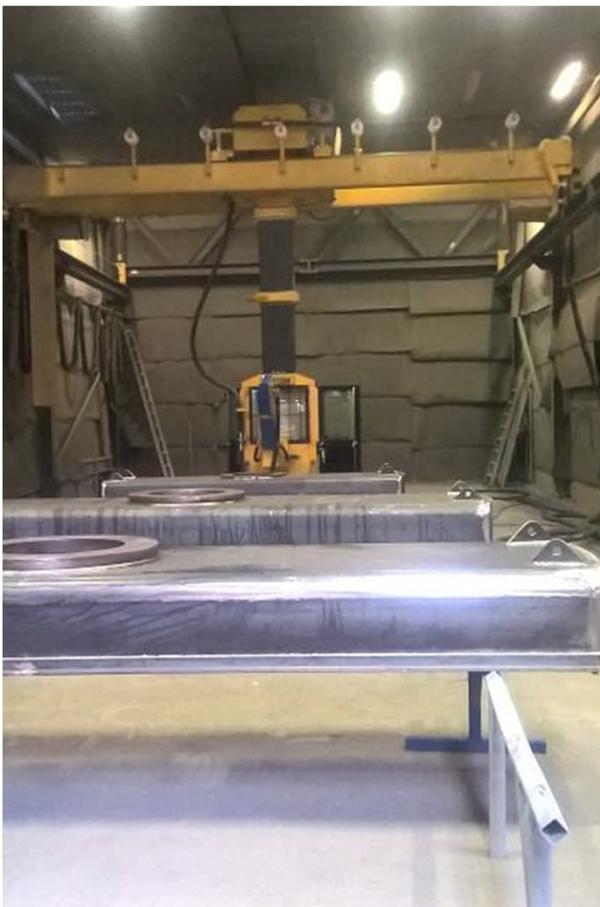
- 50 – 100 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



EPOKE

Vejen, Denmark

DELIVERY IN 2016

Blastman B20S robot



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Road maintenance equipment frames and chassis

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 50 – 150 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

LIEBHERR CONTAINER CRANES

Killarney, Ireland

1st DELIVERY IN 2000

Blastman B20C robot

Blast vessel

2nd DELIVERY IN 2007

Blastman B20C robot

Blast vessel

3rd DELIVERY IN 2014

Blastman B20C-S robot

Offline tools

4th DELIVERY IN 2016

Blastman B20C-S robot

Offline tools



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Large harbourcrane parts

Workpiece condition

- New production, rust grade A-B

Pressure

- Up to 12bar

Abrasive

- Steel grit

Nozzle / robot

- 1 - 2 x 8 - 19mm

Efficiency

- 60 - 100m²/h /nozzel

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

AMADA EUROPE SA

Charleville-Mezieres, France

DELIVERY IN 2016

Blastman B20S robot

Blast vessels

PTP-programming

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Frames of laser cutting and punching machines

Workpiece condition

- Existing coating, rust grade B-C

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 13 mm

Efficiency

- 30 – 100 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



AJO-MOTOR OY

Oulu, Finland

DELIVERY IN 2016

Blastman B20CX robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Job shop blasting and painting all kind of products

Workpiece condition

- Existing coating and new production

Pressure

- 8 bar

Abrasive

- Steel grit and chrome slag

Nozzle / robot

- 1 x 14 mm

Efficiency

- 2 main assemblies/hour, 30 – 120 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

ABB POWER TRANSFORMERS AB

Ludvika, Sweden

1st DELIVERY IN 1989

Blastman B20C robot

2nd DELIVERY IN 2016

Blastman B20C-S robot

Blast vessel

Blastroom improvements

3rd DELIVERY IN 2017

Blastman B20ML manlift



Picture taken from 25 years old robot right before retirement.

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Transformer cases

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 70 – 250 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

PONSSE

Vieremä, Finland

1st DELIVERY IN 2007

2 Blastman B16 robots

Blast vessels

2nd DELIVERY IN 2016

2 Blastman B16S robots

Blast vessels



Picture taken from 25 years old robot right before retirement.

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Forest machinery parts

Workpiece condition

- Existing coating and new production

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 12 mm

Efficiency

- 100 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

PEIKKO GROUP OY

Lahti, Finland

DELIVERY IN 2016

Blastman B16CX robot

Blast vessels

Automatic program generation tool

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Delta beams

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 10min per beam

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



CIMTAS

Gemlik, Turkey

DELIVERY IN 2013

Blastman B20C robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Bridge elements

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 2 x 19 mm

Efficiency

- 120 – 170 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

NORMEK

Oulu, Finland

DELIVERY IN 1992

Blastman B20C robot

Blast vessels

MODERNIZATION 2013

Control system upgrade

The robot has run every day over 20 years



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Large metal constructions

Workpiece condition

- New production, rust grade A-B

Pressure

- 6 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 50 – 150 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

AEBI SCHMIDT

Holten, Netherlands

DELIVERY IN 2009

Blastman B20 robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Road maintenance equipment frames and chassis

Workpiece condition

- New production, rust grade A-B

Pressure

- 5 bar

Abrasive

- Aluminum oxide

Nozzle / robot

- 1 x 16 mm

Efficiency

- 2 main assemblies/hour

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

RAUTARUUKKI OY

Seinäjoki, Finland

DELIVERY IN 2008

Blastman B20C robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Large steel constructions of various types

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

VOITH PAPER FIBER SYSTEMS GmbH & Co. KG

Ravensburg, Germany

DELIVERY IN 2008

Blastman B20 robot

Blast vessels

Control room

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Paper and pulp machineparts

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Ceramic

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5



MARINEBEDRIJF

Den Helder, Netherlands

DELIVERY IN 2008

Blastman B10 robot

Blast vessels

Control room

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Steel constructions of various types and military parts

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Aluminum oxide

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

KALMAR LMW

Lidhult, Sweden

DELIVERY IN 2007

Blastman B20C robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Metal parts for large fork lifts
of various type

Workpiece condition

- New production, rust grade A-B

Pressure

- 8 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

WIELTON S.A.

Wielun, Poland

DELIVERY IN 2007

2 Blastman B16 robots

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Trailer frames

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 80 – 200 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

SPERRE SVEIS AS

Sovik, Norway

DELIVERY IN 2007

Blastman B20LW robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Pressure vessels, oil & fuel tanks, heat exchangers and others

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

ICOVA

Amsterdam, Netherlands

DELIVERY IN 2006

Blastman B20 robot

Blast vessels

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Large metal trash containers

Workpiece condition

- Existing coating, rust grade B-C

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 12 mm

Efficiency

- 20 – 50 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



CATERPILLAR

Gosselies, Belgium

1st DELIVERY IN 1997

Blastman B20 robot

Blast vessels

2nd DELIVERY IN 2006

Blastman B20 robot



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Excavator parts

Workpiece condition

- New production, rust grade A-B

Pressure

- 6 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5

IEMANTS N.V.

Arendonk, Belgium

DELIVERY IN 2005

Blastman B20C robot

Blast vessels

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators



PROCESS INFORMATION

Workpiece

- Large metal constuctions

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 2 x 19 mm

Efficiency

- 100 – 300 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

BALTICUM FRINAB AB

Frinnaryd, Sweden

DELIVERY IN 2005

Blastman B20 robot

Blast vessels

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Metal containers of various types

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



IP HUSE

Harøy, Norway

DELIVERY IN 2004

Blastman B20C

Blast vessels

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Offshore winches

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5



COES METAALBESCHERMING

Vriezenveen, Netherlands

DELIVERY IN 2002

Blastman B20C robot

2 Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Metal constructions of various type

Workpiece condition

- New production, rust grade A-B

Pressure

- up to 10 bar

Abrasive

- Steel grit/garnet

Nozzle / robot

- 1 x 19 mm, 1 x 16mm

Efficiency

- 60 - 100m²/h/nozzle

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

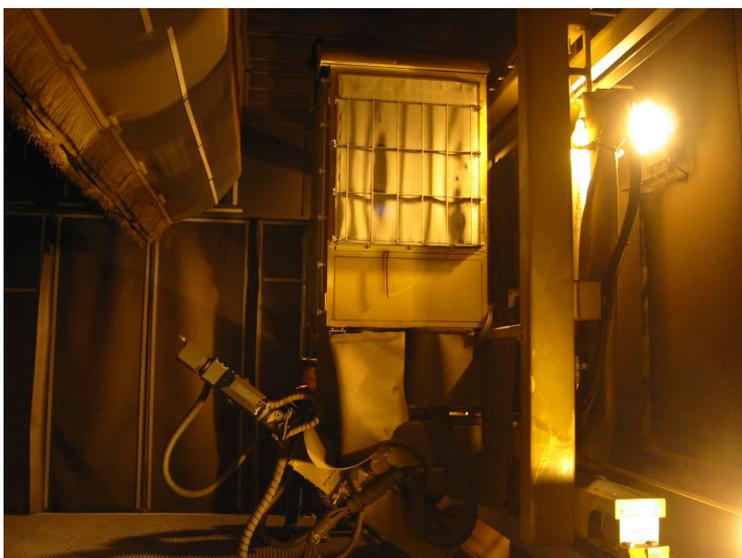
OY NÄRKO AB

Närpiö, Finland

DELIVERY IN 2002

Blastman BR20C robot

Blast vessels



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Trailer frames

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 16 mm

Efficiency

- 40 – 80 m²/h

Typical manual blasting efficiency

- 10-15 m²/h for a similar process

Cleanliness

- Sa 2,5

TTP Oy

Lievestuore, Finland

DELIVERY IN 1997

Blastman B20C robot

Blast vessels

OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Metal constructions of various type

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

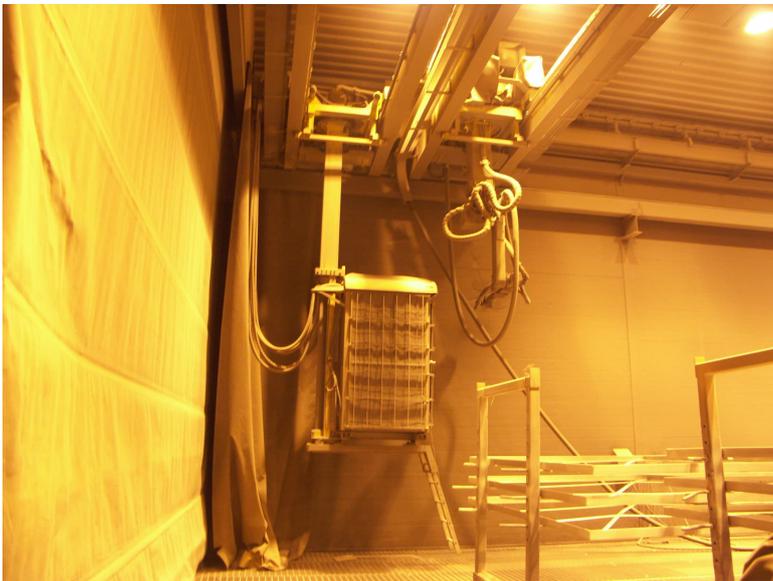
- 60 – 180 m²/h

Typical manual blasting efficiency

-10-15 m²/h for a similar process

Cleanliness

- Sa 2,5



SIEMENS

Berlin, Germany

1st DELIVERY IN 1995

Blastman B20C robot

Blast vessels

2nd DELIVERY 2011

Blastman B20 robot



OBJECTIVE

Automate production

Improve quality and efficiency

Improve health and safety of operators

PROCESS INFORMATION

Workpiece

- Cast turbine parts

Workpiece condition

- New production, rust grade A-B

Pressure

- 7 bar

Abrasive

- Steel grit

Nozzle / robot

- 1 x 19 mm

Efficiency

- 60 – 180 m²/h

Typical manual blasting efficiency

- 5-10 m²/h for a similar process

Cleanliness

- Sa 2,5



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