



# B<sub>C</sub> Waterjet Company Presentation

The Best Cutting with WATERJET

January 2023





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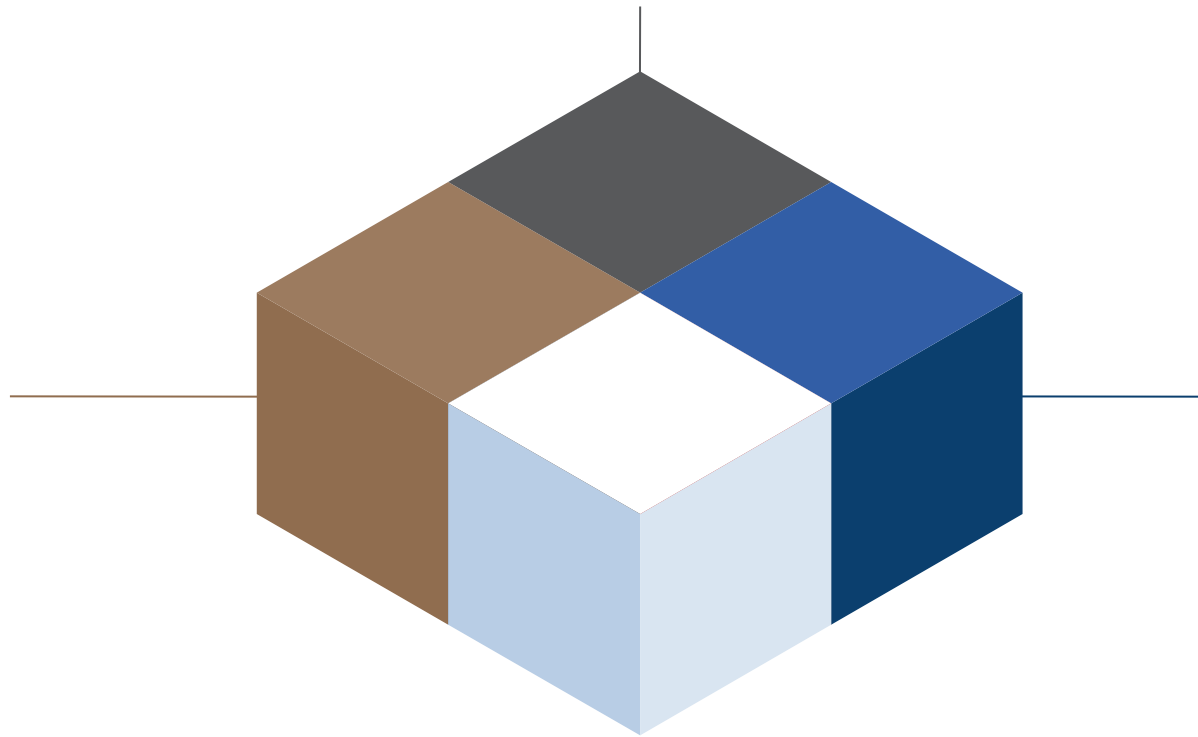
- **About BC Waterjet**
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# About BC Waterjet

CEO: D. G. Ahn

3 Production locations incl. HQ

Total 32 employees



Business scopes

Waterjet cutting M/C  
MFG & Contract cutting  
Service

# Milestones

**2022**

Development of ultra-high pressure disperser (60,000psi,600Liter/Hour)

**2021**

Fully automatic cake cutting machine delivery. The first in Korea, the second in the world, production of mobile water jets for cutting ships.

**2019**

Started production for 6,400Bar(94,000PSI) UHP pump & exported to Japan

**2014**

Produced 5-axis Dynamic Waterjet

**2018**

Contracted complete 6 axis UHP waterjet cleaning with KHNP

**2013**

ISO 9001 certified and R&D center established

**2017**

Exported to Mexico a Robotic waterjet IP & Bonding machine

**2012**

Developed movable Waterjet machines supplied to Hyundai Steel Co., Ltd

**2016**

Supplied to KAL a 6axis Robotic Waterjet cleaning for Aviation engine

**2009**

Supplied Semiconductor cleaning machine to Samsung Electronics Inc

**2015**

Supplied a Robotic waterjet machine to Hyundai Motor and Indonesia

**2008**

INOBIZ certified



# Milestones

**2003**

Commercialized DUAL INTENSIFIER PUMP

**2002**

Produced the biggest waterjet cutting machine with dual head cutting

**1999**

Developed Abrasive Waterjet cutting machine and produced UHP pump for ,4,130Bar(60,000psi)

**1998**

Company established



**P**  
roducts

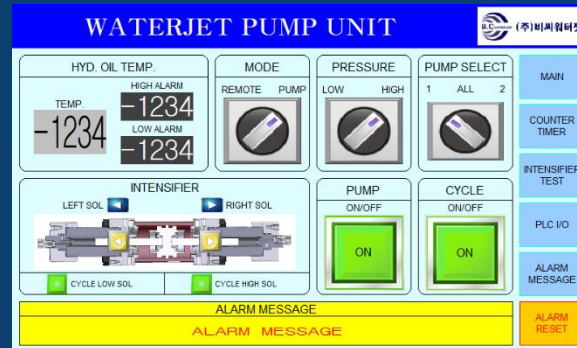
## Ultra High Pressure(UHP) Pump





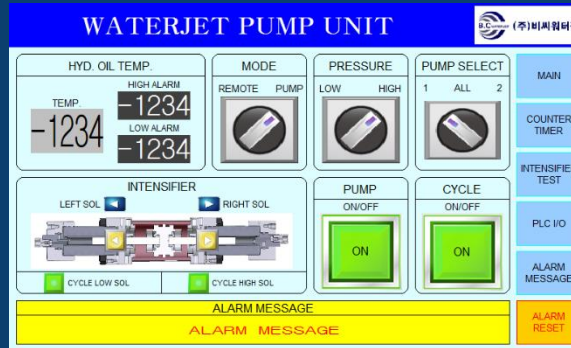
# UHP Pump-50HP, 6,400bar (94,000psi)

- ▶ Design pressure : 6,400Bar
- ▶ Flow rate(max.) : 2.8L/min
- ▶ Accumulator Volume : 1Liter
- ▶ Main motor : 50HP (37KW)
- ▶ Pressure range 175~6,400bar
- ▶ Easy to monitor through digital display-  
for warning, alarm & working hour etc
- ▶ Design simplicity for easy maintenance
- ▶ Electric option:3P  
(380V/440V) 50HZ~60HZ 37KW
- ▶ Pressure gauge for monitoring installed
- ▶ Faster cutting by 1.6times than  
4150bar(60,000psi) with 50HP



# UHP Pump-100HP, 6,400bar (94,000psi)

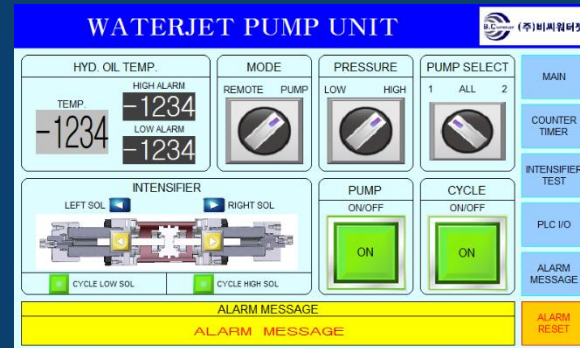
- ▶ Design pressure : 6,400Bar
- ▶ Flow rate(max.) :5.6L/min
- ▶ Accumulator volume : 1.5Liter
- ▶ Main motor: 100HP (75KW)
- ▶ Pressure range: 500~6,400bar
- ▶ Easy to monitor through digital display-  
for warning, alarm & working hour etc
- ▶ Design simplicity for easy maintenance
- ▶ Electric option:3P  
(380V/440V) 50HZ~60HZ 37KW
- ▶ Pressure gauge for monitoring installed
- ▶ Faster cutting by 2.2times than  
4150bar(60,000psi) with 50HP





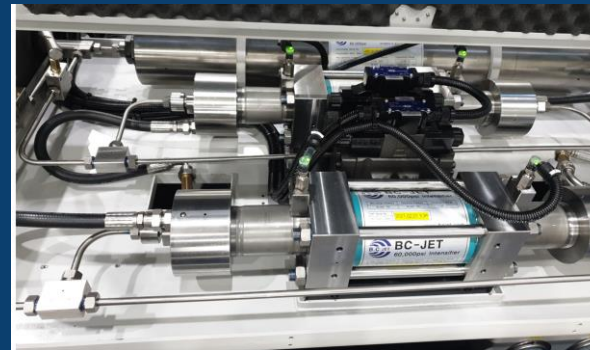
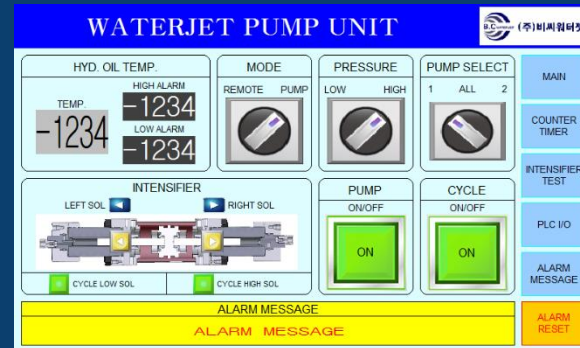
# UHP Pump-50HP, 4,150bar (60,000psi)

- ▶ Design pressure :4,150Bar
- ▶ Flow rate :3.4L/min
- ▶ Accumulator volume : 1Liter
- ▶ Main motor : 50HP (37KW)
- ▶ Pressure range: 175~4,150bar
- ▶ Easy to monitor through digital display-  
for warning, alarm & working hour etc
- ▶ Design simplicity for easy maintenance
- ▶ Electric option:3P  
(380V/440V) 50HZ~60HZ 37KW
- ▶ Pressure gauge for monitoring installed
- ▶ Faster cutting by 1.6times than  
4150bar(60,000psi)



# UHP Pump-100HP, 4,150bar (60,000psi)

- ▶ Design pressure :4,150Bar
- ▶ Flow rate(max.) :7.0L/min
- ▶ Accumulator volume : 1Liter
- ▶ Main motor : 100HP (75KW)
- ▶ Pressure range : 500~4,150bar
- ▶ Easy to monitor through digital display-  
for warning, alarm & working hour etc
- ▶ Design simplicity for easy maintenance
- ▶ Electric option:3P  
(380V/440V) 50HZ~60HZ 37KW
- ▶ Pressure gauge for monitoring installed
- ▶ Faster cutting by 1.6times than  
4150bar(60,000psi)



# Oil Chiller

The pump unit has a hydraulic oil cooling system with a full-flow oil heat exchanger.

**50HP,  
94KSI**

- Ⓐ Compressor: 5HP
- Ⓑ Condenser: 3RT
- Ⓒ Oil Pump Max Flow: 36L/min
- Ⓓ Power: 380V OR 440V 3PH
- ※ Water Chiller 5HP recommended

**50HP,  
60KSI**

- Ⓐ Compressor: 3HP
- Ⓑ Condenser: 3RT
- Ⓒ Oil Pump Max Flow: 36L/min
- Ⓓ Power: 380V OR 440V 3PH
- ※ Water Chiller 3HP recommended

**100HP,  
94KSI**

- Ⓐ Compressor: 7.5HP
- Ⓑ Condenser: 3RT
- Ⓒ Oil Pump Max Flow: 72L/min
- Ⓓ Power: 380V OR 440V 3PH
- ※ Water Chiller 7.5HP recommended

**100HP,  
60KSI**

- Ⓐ Compressor: 7.5HP
- Ⓑ Condenser: 3RT
- Ⓒ Oil Pump Max Flow: 72L/min
- Ⓓ Power: 380V OR 440V 3PH
- ※ Water Chiller 7.5HP recommended



# Testimonials 1

Turn table type robot waterjet cutting with ABB IRB 2600 model for Indonesia to cut helmet for motorcycle



Turn table type robot cutting with ABB IRB 2400 for diecasting parts in automotive industry





# Testimonials 2

Head liner shuttle table type robot waterjet cutting with ABB IRB 2600 4 robots



Carpet Acoustic shuttle table robot waterjet cutting with 2 robots





# Testimonials 3

Industrial panel bonding& primer turn table type  
robot waterjet cutting



# Testimonials 4

INDUSTRIAL PANEL BONDING & PRIMER TURN  
TABLE TYPE ROBOT waterjet cutting(Mexico)

INDUSTRIAL PANEL WATERJET TURN TABLE TYPE  
ROBOT waterjet cutting(Mexico)





# Testimonials 5

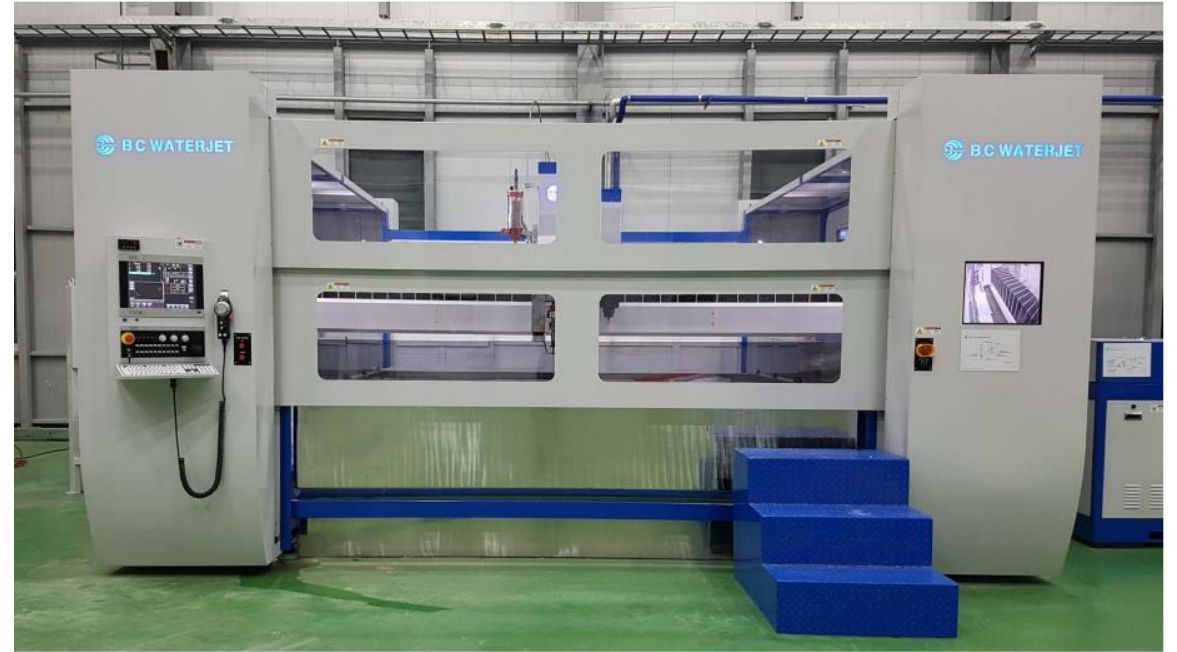
HEAD LINE WATERJET PUMP with BC-50HP DUAL INTENSIFIER TYPE

Auto door booth type robot cutting with ABB IRB 2400 for Carbon Fiber Reinforced Thermoplastic Composites



# Testimonials 6

5-axis tilting cutting head waterjet cutting machine with sliding door and clean booth

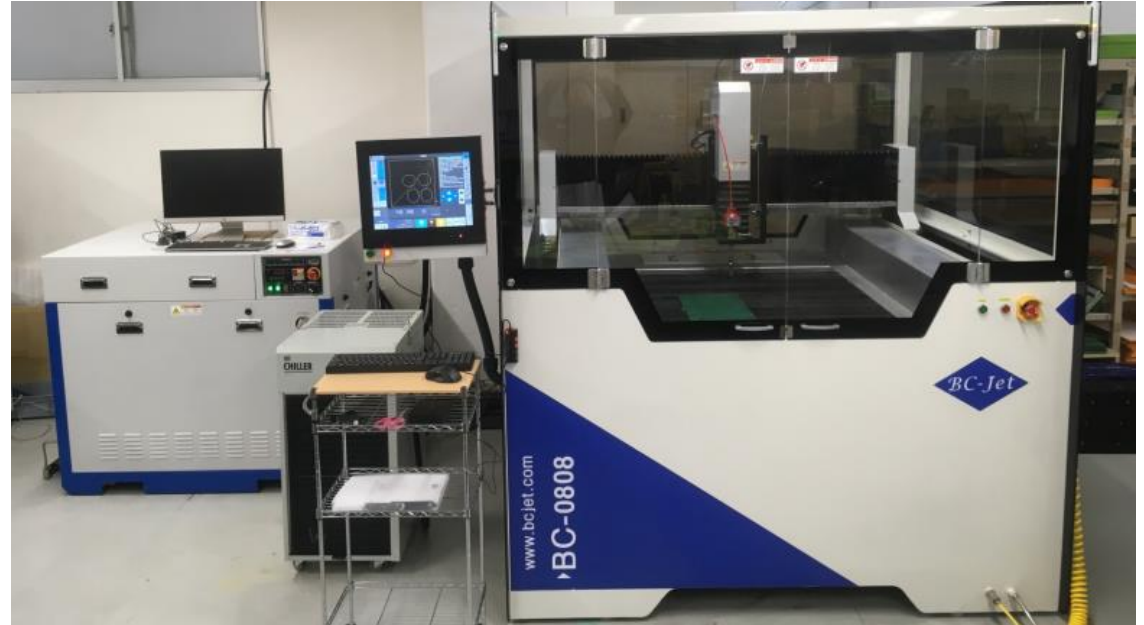


Waterjet cutting machines for reinforced glass door(Japan)



# Testimonials 7

Waterjet cutting machines for reinforced glass door(Japan)



CNC waterjet cutting machine(multiple cutting nozzle installed)





# Testimonials 8

CNC waterjet cutting machine (multiple cutting nozzle installed) - Japan



CNC waterjet cutting machine-Automatic loading table



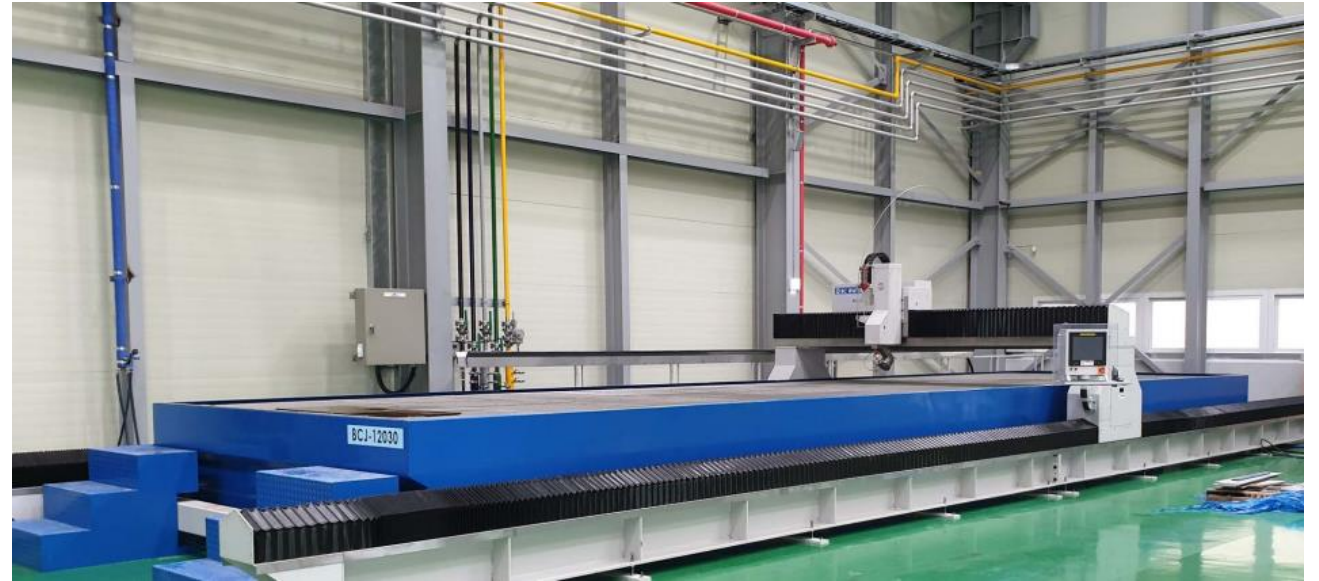
# Testimonials 9

CNC waterjet cutting machine-Automatic loading table



# Testimonials 10

CNC waterjet cutting machine with 5 axis tilting cutting head installed



CNC waterjet cutting machine for food cutting(cake)





# Testimonials 11

Movable waterjet cutting for manhole

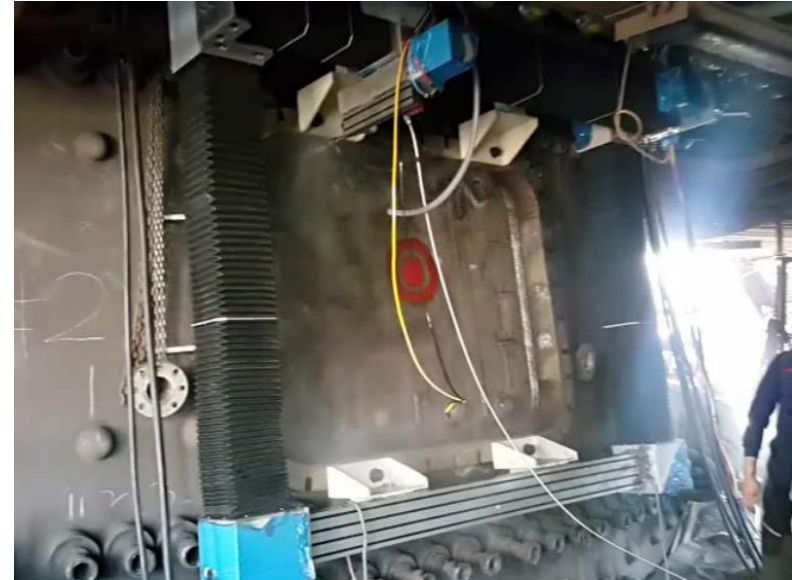


Movable waterjet pipe cutting machine



# Testimonials 12

CNC waterjet cutting machines for concrete cutting



Waterjet tunnel digging machine





# Testimonials 13

WATERJET PUMP 50HP 4150bar

WATERJET PUMP 50HP 4150bar PUMP





# Thank you

<http://www.bcjet.com>

**BC Waterjet**