



ABB CORPORATE B-ROLL 2009

THIS "B-ROLL" INCLUDES USEFUL BACKGROUND SHOTS FOR BROADCAST USE IN BOTH ASPECT 4:3 AND 16:9 FHA ASPECT RATIOS.



VIDEO ONLY, NO AUDIO

1 – ABB LOGO WITH SLOGAN	00:01:00:00 ASPECT 4:3		
2 – ABB HQ ABB Headquarters in the Cityport building Zurich, Switzerland	00:01:09:00 ASPECT 16:9 LETTERBOX		
3 – POWER PRODUCTS Power Transformer manufacturing Chongqing, China	00:01:34:00 ASPECT 4:3		

ABB's factory in Chongqing is the group's largest investment in China. Transformers are typically used for power transmission and distribution systems, such as in large substations. Generator transformers as produced in Chongqing are used in power generation when it is necessary to increase power voltage from a power plant for long-distance transmission

4 – POWER SYSTEMS SWE - POL converter station. Karlshamn, Sweden	00:01:58:00 ASPECT 4:3		
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Karlshamn convertor stations take high voltage power (e.g., 400kv AC) and, using ABB technology, convert it to Direct Current or DC power which is transmitted through the HVDC cable to a receiving converter station, where it is converted back to AC and fed into the local power grid.

5 – PACKAGING ROBOTICS Robotics - ABB's packaging and palletizing robots	00:03:12:00 ASPECT 4:3		
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Robots give consumer good manufacturers more flexibility and speed to customize packaging and shipping to customer needs.


6 – MANUFACTURING ROBOTICS Robotics – ABB robots manufacturing ABB low voltage power electronics in Xiamen, China.	00:03:54:00 ASPECT 4:3	
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ABB robots are capable of coordinating multiple manufacturing steps and coordinating with other ABB robots. ABB software also makes it possible to model manufacturing cells to optimize production flow and identify problems and bottlenecks before actual production begins.

7 – PAINTING ROBOTICS

ABB's FlexPainter IRB 5500

00:04:31:00
ASPECT 16:9
LETTERBOX



ABB's FlexPainter IRB 5500 paint robot uses half the parts of its predecessor, weighs 40 percent less, and is so agile two units can paint a car in seconds.

Combined with a new generation of rotary atomizers, ABB's FlexPainter significantly increases productivity on the paint line, while lowering investment and operating costs. FlexPainter also uses less paint, reducing both cost and environmental impact.

ABB has already revolutionized robot painting technology by replacing conventional paint tanks and hoses with a refillable cartridge on the robot arm.

8 – FLEX PICKER

00:05:13:00
ASPECT 4:3



The FlexPicker from ABB Robotics is the world's fastest pick-and-place industrial robot, handling products at up to two cycles per minute. It offers new opportunities for flexibility and repeatability in the consumer goods and other industries.

9 - PROCESS AUTOMATION

Billerud Ab
Gruvön Mill, Sweden

00:05:28:00
ASPECT 16:9
LETTERBOX



ABB's system 800xA, motors and drives deliver enhanced efficiencies and industrial productivity to major pulp and paper customers.

10 – PROCESS AUTOMATION

Cranes Systems (Sweden)

00:06:45:00
ASPECT 16:9
LETTERBOX



ABB Crane Automation systems improve the safety, accuracy and efficiency of transport.

11 – AUTOMATION PRODUCTS

Low Voltage Drives

00:07:32:00
ASPECT 16:9
LETTERBOX



A flexible production line for assembling and testing a wide range of Industrial IT enabled AC drives.

AC drives are used to control the speed and torque of a standard induction motors, the workhorse of many industries. Drives save energy by reducing motors and machine speeds when demand is low, and they improve productivity by extending the motor speed range - often above rated speed for enhanced performance - when required.

12 – AUTOMATION PRODUCTS

Al Aweer water treatment plant
Dubai

00:09:00:00
ASPECT 4:3



ABB drives and motors work in unison to provide extremely precise control and energy savings to any application powered by motors, such as water treatment plants, paper mills, power plants and steel mills. ABB drives allow motors to be ramped up or down at the exact speed required, allowing precision control that uses only the energy required, rather than having a constant speed motor which always runs at the same pace.

ABB drives and motors also provide interconnectivity with ABB's advanced control system 800xA, allowing energy efficiency to be measured and optimized as a process variable and performance indicator.

13 – AUTOMATION TECHNOLOGIES

00:09:28:00
ASPECT 4:3



Customer Service Centre and showrooms
Wickliffe, Ohio

ABB provides customers with expert technical assistance and information on products and services.

This dedicated call-centre in Wickliffe, Ohio, offers telephone support that provides global expertise and knowledge to ABB customers. Each support request is tracked to ensure a fast response and resolution. The facility also includes a customer demonstration centre equipped with a permanent display of automation and instrumentation products.

ABB's comprehensive Industrial IT portfolio of products for process control is supported by two theatre-style viewing areas for "hands on" demonstration for automation customers in many industries.

14 – MARINE TECHNOLOGIES

00:11:51:00
ASPECT 16:9
LETTERBOX



Azipod Modular Propulsion

The ABB Azipod was the first azimuthing podded propulsion system introduced in the market. It blends ABB motors, drives and expertise for state-of-the art electric propulsion for luxury cruise vessels, tankers, icebreakers, offshore and special purpose vessels.

The patented ABB Azipod concept is a modular, podded propulsion unit that is fitted outside the vessel and is capable of self-steering over a 360-degree range. Along with superior manoeuvrability, Azipod offers significant reductions in fuel consumption, noise and vibration, while opening up space inside the vessel once required for conventional drive train and rudder components.

15 – COMPUTER INTEGRATED DESIGN

00:13:01:00
ASPECT 4:3



Xiamen, China

ABB employs the latest technologies to manufacture its own products with designs that integrate quality and energy efficiency.

16 – POWER TECHNOLOGIES

00:13:35:00
ASPECT 4:3



Rosario Mines
Chile

ABB supplies electrical and control products and systems to Chilean company, Collahuasi - the world's fourth largest copper producer. The Rosario mines are 4,400 meters above sea level in the Andes mountains, close to the border with Bolivia.

17 – POWER PRODUCTS

00:14:46:00
ASPECT 4:3



Switchgear manufacture and assembly
Xiamen, China

Medium-voltage switchgear manufacturing in China, one of the largest ABB production facilities. Medium-Voltage switchgear reduces outage times and improves power quality and control, key to improving operational efficiency of both utility and industrial customers.

18 – POWER SYSTEMS

00:15:15:00
ASPECT 16:9
LETTERBOX



HVDC

ABB has supplied some of the world's most powerful high voltage direct current (HVDC) lines, helping make reliable energy available to industry and households with lower environmental impact. The more efficient HVDC lines lose less power in transmission and have a smaller footprint compared to traditional power lines.

HVDC allows precise and fast controllability of power flow, which can improve the performance of adjacent AC grids. By interconnecting previously incompatible grids, HVDC enables power sharing across borders in case of emergencies or unanticipated demand increases. HVDC also permits transmission from renewable hydro and wind generation sites over long distances to centers of demand, reducing reliance on fossil-fuel generated power.

19 – POWER SERVICES

Substation installation and commissioning, transformer refurbishment and engineering.

00:15:43:00
ASPECT 16:9
LETTERBOX



ABB's modular substation and wiring designs make it possible to connect and commission substations in short times, bringing reliable power to remote areas.

ABB's experts use sophisticated modern technology to analyze aging power equipment and extend the lifecycle and productivity of 20 or 30 year old transformers beyond their original specifications.

20 – POWER SYSTEMS

Semiconductor production
Lenzburg, Switzerland

00:16:18:00
ASPECT 4:3



Lenzburg is ABB's center for the production of power semiconductors, a 24-hour factory with two production lines that have a combined output of around 225,000 silicon wafers per annum. These semiconductors are supplied to the power electronics industry, and are the key component in ABB's high-voltage direct current systems

ABB in Lenzburg represents state-of-the-art semiconductor manufacturing and employs the newest technologies and the most advanced production techniques and machines. This ensures ABB's power semiconductor devices consistently meet the high performance and quality standards customers demand and rely on.

21 – POWER PRODUCTS

High Power Test Lab and High and Medium voltage production
Ludvika, Sweden

00:18:14:00
ASPECT 4:3



Ludvika is a key knowledge and production site for ABB, manufacturing high and medium voltage products and systems. 2,500 employees are involved in the research, development and production of a wide range of products, including:

- *Power Transformers*
- *Insulation and Components*
- *HV Products*
- *Power Systems, AC, HVDC Classic/HVDC Light*
- *Circuit Breakers (High Voltage/Medium Voltage)*

22 – POWER SYSTEMS

High Voltage cable production
Karlskrona, Sweden

00:19:55:00
ASPECT 4:3



The cables that ABB's customers rely on to distribute large amounts of power across long distances have to be very tough, accurate to the millimetre and long lasting – they often need to be able to operate safely for up to 50 years.

The high voltage cables made at Karlskrona can have an insulation of either oil-impregnated paper or polymeric material. The different layers over the insulation can range from thin metal sheets to the most durable steel wires. Whether buried underground or laid on the sea bed these layers protect the twisted copper wire at the heart of the cable - the part that actually conducts the electricity - from the environment, moisture and objects such as anchors and rocks.etc.

23 – POWER SYSTEMS

HVDC marine cable laying
SWE - POL Link

00:20:50:00
ASPECT 4:3



One of the recent projects Karlskrona produced was the Swe-Pol link, which supplies Poland with power from Sweden via an undersea cable. The power is converted and leaves Sweden by the specially built convertor station at Karlshamn. (see below)

24 – ROBOTICS**00:22:28:00**
ASPECT 4:3

Manufacturing cell simulation



ABB technologies allow manufacturers to visualize manufacturing cells before starting production. This determines cycle-time and cell footprint, allowing for optimized integration with existing applications and identifying bottlenecks before production. It also increases productivity by allowing robots to be assigned additional tasks while waiting for earlier finishing steps.

25 – RENEWABLE ENERGY**00:22:02:00**
ASPECT 4:3

Wind farm, United States



ABB supplies a wide range of electric products and systems to the wind power industry, including the generators that convert the mechanical power of the turning blades into electricity, and the connections that ensure irregular wind power enters the power grid at a steady voltage. This includes connecting offshore power generation to the electric grid over great distances with High Voltage Direct Current (HVDC) transmission links.

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