

JOHNSON ELECTRIC HOLDINGS LIMITED

FY2011/12 Annual Results

May 2012

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Group Overview

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JOHNSON ELECTRIC GROUP OVERVIEW



Johnson Electric is a global leader in motion products, control systems and flexible interconnects. We serve a broad range of industries including automotive, home technologies, domestic appliances, power tools, office products, industrial equipment, consumer goods, medical devices and infrastructure automation.

Established in 1959, Johnson Electric ships its products to more than 30 countries for use in hundreds of different product applications. Innovation and product design centers are located in Hong Kong, China, Switzerland, Germany, Italy, Israel, Japan, the UK and the USA. We employ more than 36,000 including contract employees in over 23 countries.

The annual production capacity are over one billion units and manufactures products in more than a dozen countries on four continents.

COMPANY VISION AND BRAND PROMISE

Company Vision

To be the world's **definitive** provider of innovative and reliable motion systems.

Brand Promise

“Technology Leadership”

“The Safe Choice”

APG APPLICATIONS

Power Train Cooling Cooling Fan Module Electronic Speed Control Circulation Pump	Steering Steering Wheel Lock Washer / Wipers Headlamp Washer Washer Pump Windscreen Wiper	HVAC HVAC Blower Climate Control Climate Control Actuator Mirrors Mirror Actuator Mirror Adjuster Power Folder	Window Lift & Sunroof Window Lift Sunroof Control Door Lock Central Door Lock Child Lock	Power Closure Systems Door Close Assist Latching / Cinching Switch Power Lift Gate
Lighting Adaptive Front-lighting Headlamp Adjuster	Braking Electric Parking Brake Anti-lock Braking System	Engine Management Electronic Throttle Control Exhaust Gas Recirculation Air Pump Fuel Pump	Suspension Suspension Leveling Transmission Automatic Manual Transmission Dual Clutch Transmission	Seating Headrest Adjuster Seat Adjuster Lumbar Support

IPG APPLICATIONS



Power Tools



Camera and Optical



Home Entertainment & Gaming



Home Technologies



Personal Care



Food & Beverages



Lawn & Garden



HVAC



Building Automation & Security



Business Machines



Industrial Automation



Medical Device



ATM



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HIGHLIGHTS

- ✓ All time record results for profit attributable to shareholders and earnings per share
- ✓ Full year recommended dividend of HK\$0.10 per share, an 11% increase over prior year (HK\$0.09 per share)
- ✓ Sales were up 2% as reported. Sales growth excluding currency gains, divestiture and the impact of insourcing a distribution channel was 3%
- ✓ Gross margin of 27.3% was similar to prior year.
- ✓ 60.8 million shares were repurchased at a total cost of US\$31.9 million (including brokerage and cancellation fees) and cancelled in FY2011/12. Also, the Company purchased 5.5 million shares for US\$2.6 million, to be utilised for granting shares
- ✓ The Group divested a controlling stake in a noncore subsidiary for a cash consideration of US\$32.2 million, net of US\$3.3 million cash divested. The effect to operating profit was insignificant

FINANCIAL HIGHLIGHTS

<i>US\$ million</i>	FY2011/12	FY2010/11
Sales	2,140.8	2,104.0
Gross profit	584.4	579.7
<i>Gross margin</i>	27.3%	27.6%
Profit attributable to shareholders	186.7	181.7
Diluted earnings per share (US Cents)	5.15	4.97
Free cash flow from operations ¹	166.0	169.6
EBITDA excluding nonrecurring items ²	330.0	322.9
EBITDA margin	15.4%	15.3%

<i>US\$ million</i>	31st Mar 2012	31st Mar 2011
Cash	385.1	354.7
Total debt (borrowings)	(205.4)	(313.7)
Net cash	179.7	41.0
Enterprise value ^{3&4}	2,075.6	2,153.4
Enterprise value ^{3&4} to EBITDA	6.3	6.7

Credit Quality - Financial Ratios ⁵	31st Mar 2012	31st Mar 2011
Free cash flow from operations to debt	81%	54%
Total debt to EBITDA	0.6	1.0

¹ Net cash generated from operating activities plus interest received, less CAPEX net of proceeds from disposal of fixed assets

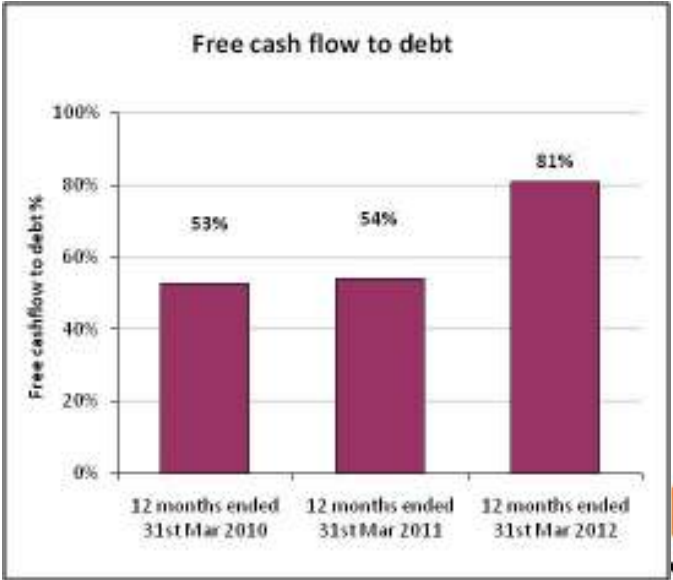
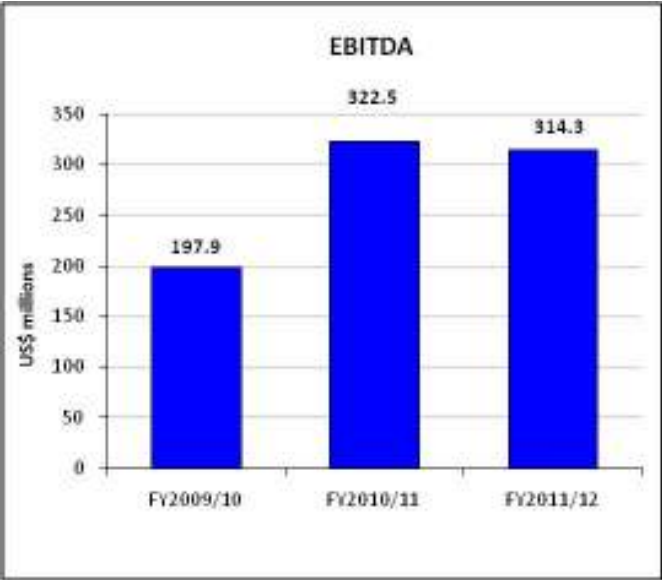
² Earnings before interest, taxes, depreciation and amortisation ("EBITDA") excluding the impact of insourcing a distribution channel, restructuring and assets impairment

³ Market capitalisation is calculated by multiplying the outstanding number of shares with the closing share price (HK\$4.83 as of 31st March 2012 and HK\$4.56 as of 31st March 2011) converted at the closing exchange rate

⁴ Enterprise value is calculated by adding market capitalisation plus non-controlling interests plus total debt less cash

⁵ Financial ratios utilising EBITDA and free cash flow from operations using the last twelve months' results

FINANCIAL PERFORMANCE



innovating motion

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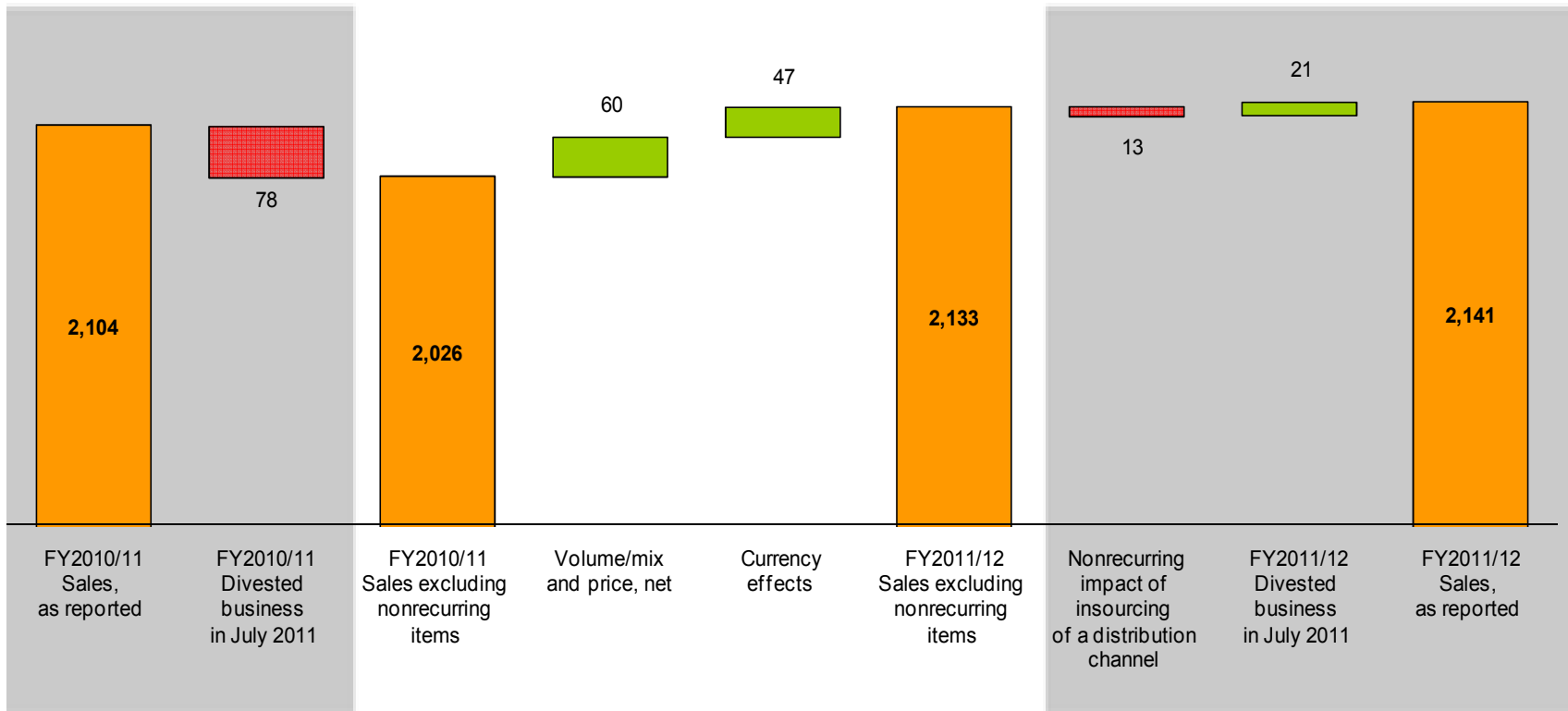
Appendix

PROFIT & LOSS – FY2011/12 vs FY2010/11

<i>US\$ million</i>	FY2011/12	FY2010/11	Increase/ (decrease) in profit
Sales	2,140.8	2,104.0	36.8
Gross profit	584.4	579.7	4.7
<i>Gross margin %</i>	27.3%	27.6%	(0.3)%
Other income and gains	18.3	14.8	3.5
Selling and administrative expenses ("S&A")	(368.6)	(358.4)	(10.3)
<i>S&A %</i>	17.2%	17.0%	(0.2)%
Operating profit	221.1	235.7	(14.7)
<i>Operating margin %</i>	10.3%	11.2%	(0.9)%
Finance costs, net	(1.1)	(9.4)	8.3
Share of profits of associate	0.5	0.1	0.4
Profit before income tax	220.5	226.4	(5.9)
Income tax expenses	(31.6)	(36.1)	4.5
<i>Effective tax rate</i>	14.3%	15.9%	1.6%
Profit for the year	188.9	190.3	(1.4)
Non-controlling interests	(2.2)	(8.6)	6.4
Profit attributable to shareholders, as reported	186.7	181.7	5.0

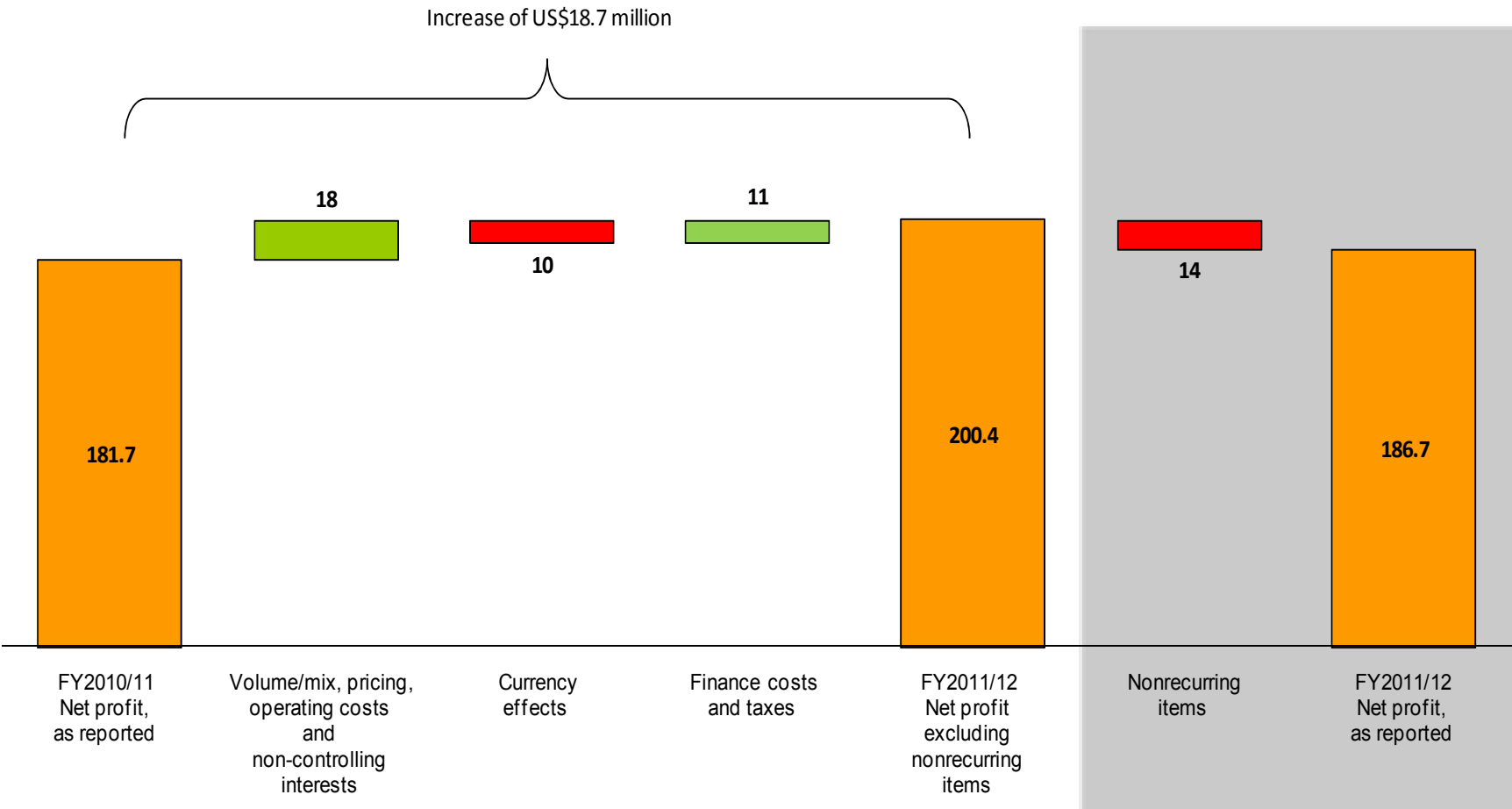
SALES CHANGES – FY2011/12 vs FY2010/11

US\$ million



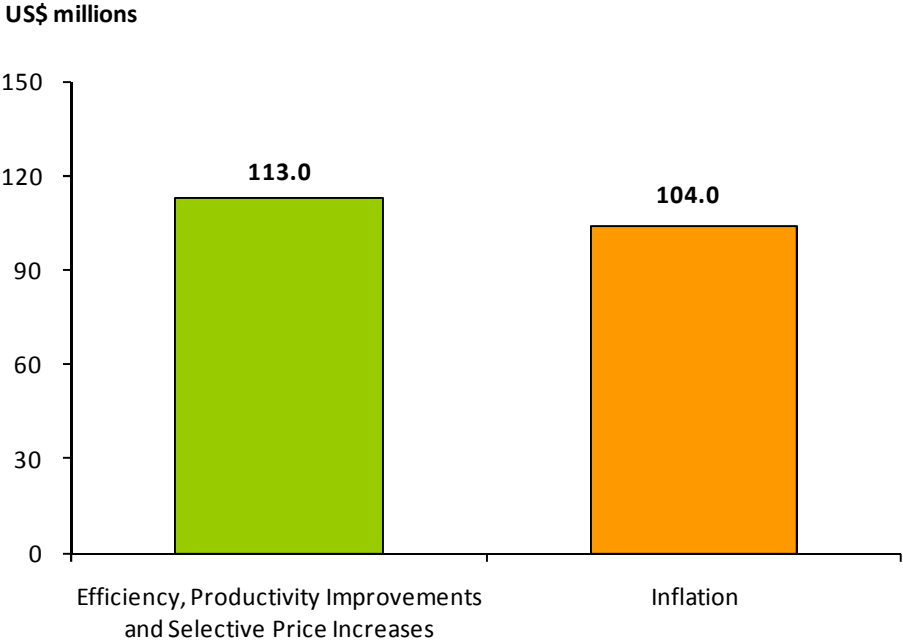
CHANGES IN PROFIT ATTRIBUTABLE TO SHAREHOLDERS

US\$ million



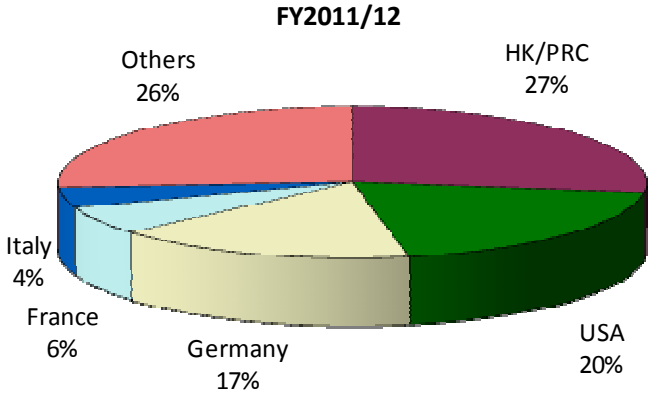
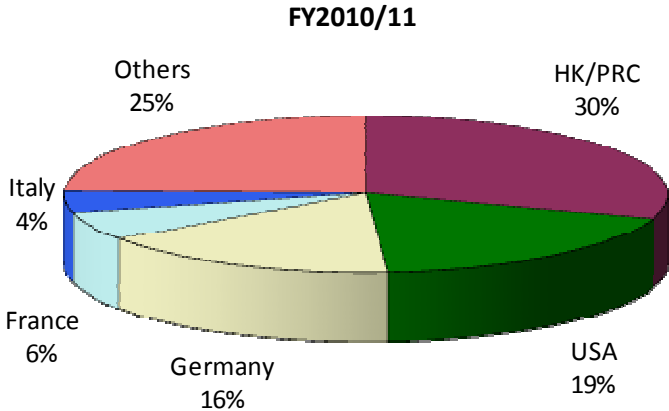
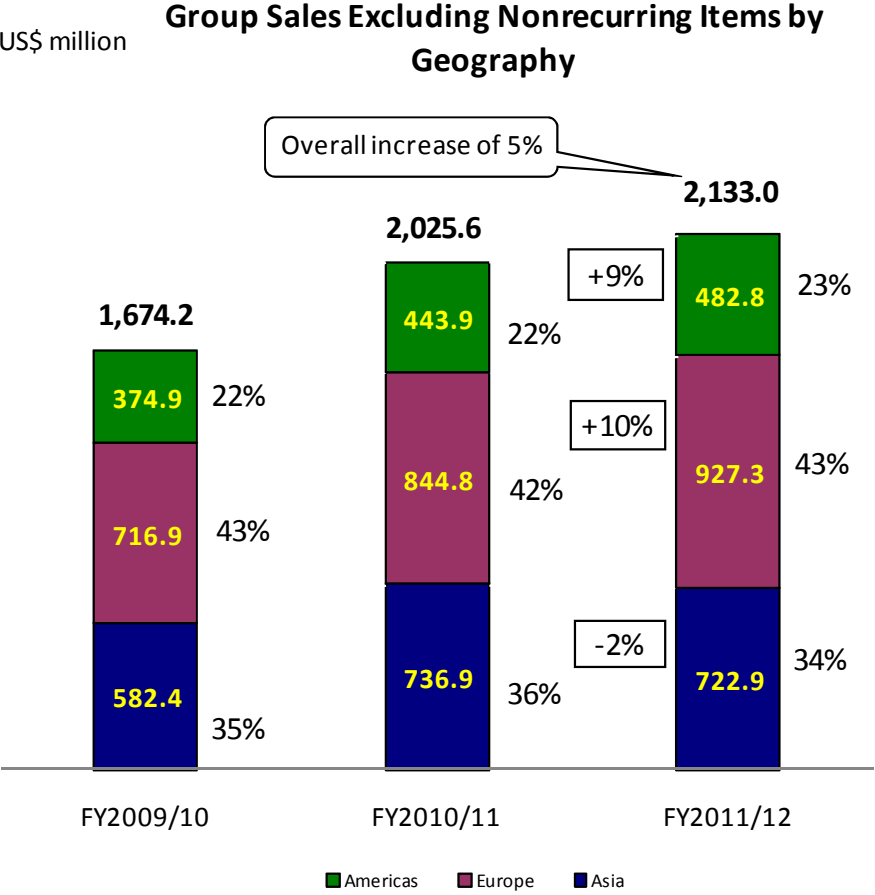
Note: Numbers do not add across due to the effect of rounding

EFFICIENCY vs INFLATION



- ◆ Increases in raw material commodity prices and wage costs in China had a significant adverse impact on profitability. This was offset by various initiatives taken by management to mitigate the inflation effect. These actions included efficiency and productivity improvements, quality improvements and selective price increases.

GROUP SALES BY GEOGRAPHY

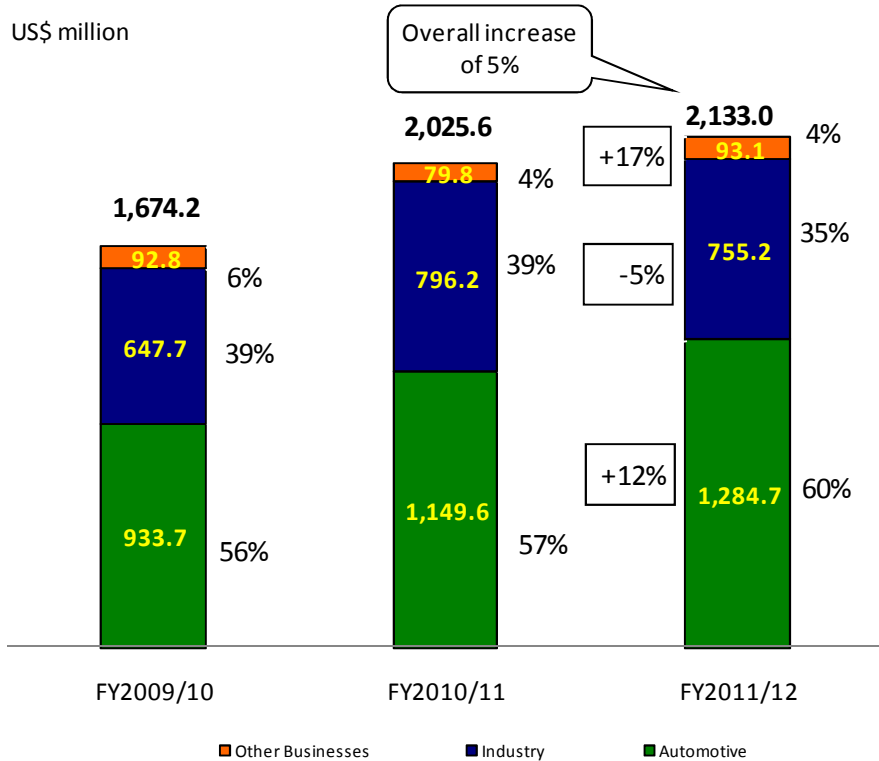


Excluding currency effects, sales growth for FY2011/12 vs prior year:

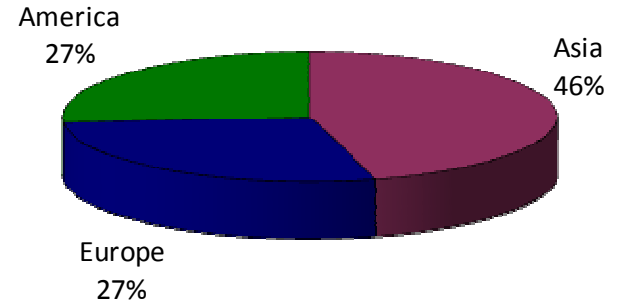
Overall 3%, Asia -4%, Europe 6%, Americas 8%

GROUP SALES BY BUSINESS

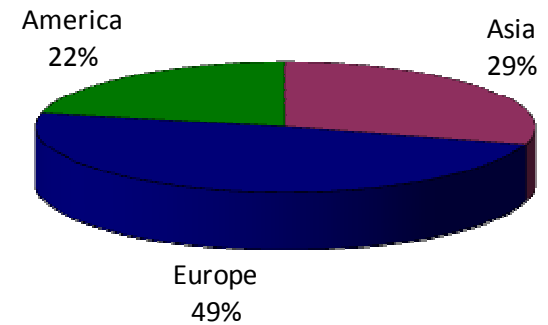
Group Sales Excluding Nonrecurring Items by Business



IPG sales by Geography



APG sales by Geography



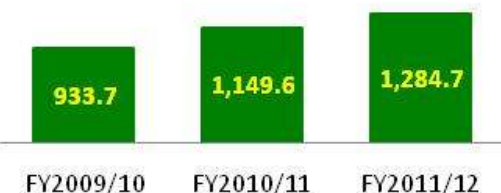
Excluding currency effects, sales growth/declined for FY2011/12 vs prior year:

APG - Overall 9%, Asia 10%, Europe 5%, Americas 16%

IPG - Overall -6%, Asia -15%, Europe 8%, Americas 0%

SALES OVERVIEW

US\$ million APG Sales



- ◆ The business experienced strong sales of existing products across Asia and the Americas and benefitted from global demand for European luxury vehicles.
- ◆ Cooling fan & related modules business comprised 19% of total sales.
- ◆ Sales grew by 9% YOY. This was the result of being awarded cooling fan and related modules business for new customer platforms, as well as the successful launch of new engine air management products and geared motor drive products for window lifts and sunroofs.

US\$ million IPG Sales



- ◆ Continued exit from certain low margin markets.
- ◆ Sales in the gaming and entertainment markets benefited from our customers' launch of new gaming systems, which returned to normal volumes in this year.
- ◆ The strongest segments in Europe being food and beverages, and power tools.
- ◆ Growth in products for remote metering, lawn and garden, and infrastructure, equipment and security market segments was partially offset by sales declined in the office automation, food and beverage, floor-care, power tools and medical biosensor segments in Americas.

Other Businesses Sales

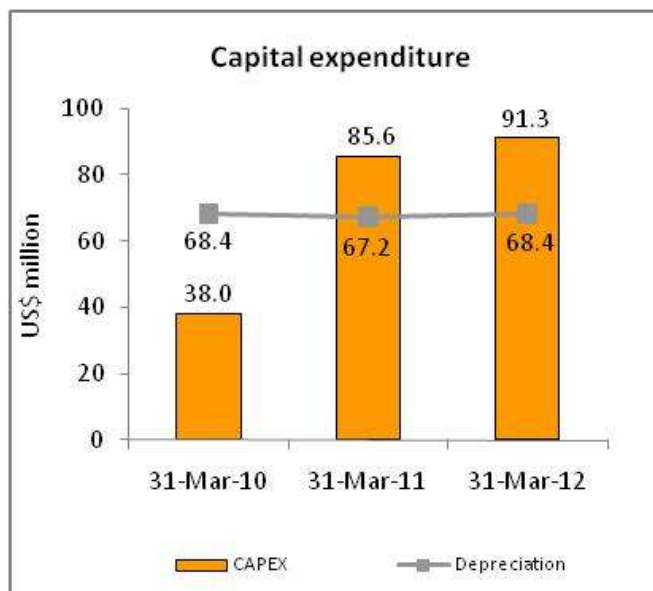
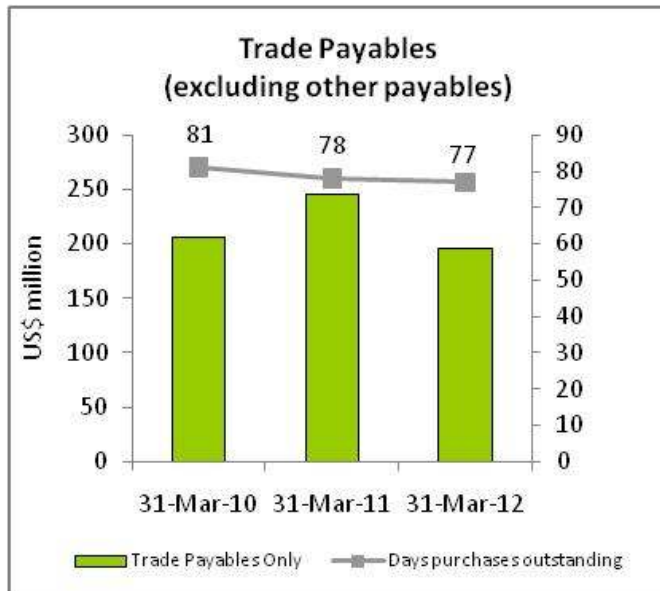
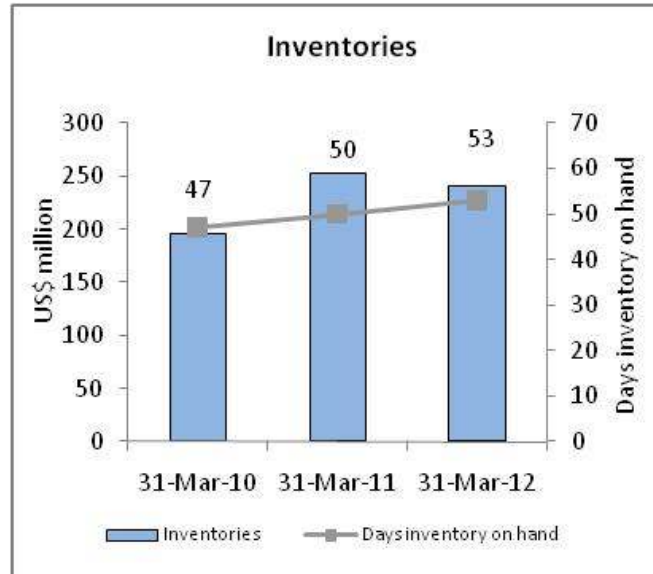
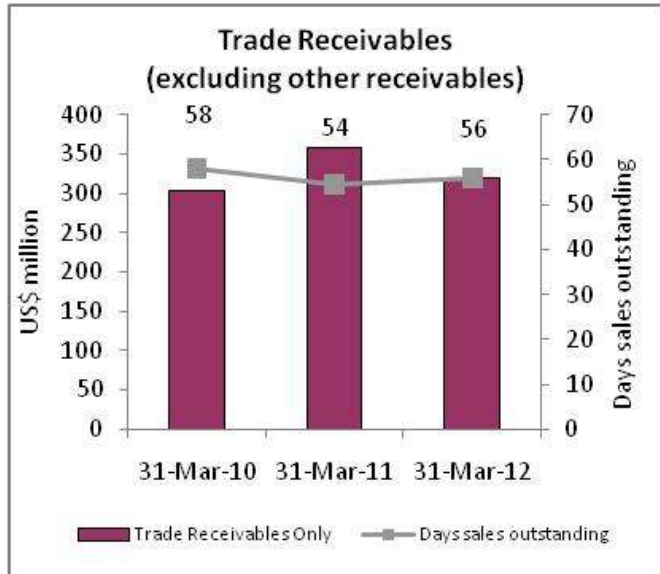


- ◆ Sales in other businesses mainly from SB Control unit.
- ◆ Sales were strong in the infrastructure automation, machine industry and brand label segments.
- ◆ Other growth areas included products for human machine interfaces and new energy meters.

FREE CASH FLOW FROM OPERATIONS

<i>US\$ million</i>	FY2011/12	FY2010/11	Change
Operating profit	221.4	235.7	(14.3)
Depreciation and amortisation	92.9	86.8	6.1
EBITDA	314.3	322.5	(8.2)
Other non-cash items in profit before taxes	(5.2)	(5.4)	0.2
Working capital change	(42.4)	(39.0)	(3.4)
Interest paid	(6.0)	(9.4)	3.4
Income taxes paid	(27.6)	(27.6)	-
Net cash generated from operating activities	233.1	241.1	(8.0)
Capital expenditure	(91.3)	(85.6)	(5.7)
Proceeds from disposal of fixed assets	18.4	10.6	7.8
Interest received	5.8	3.5	2.3
Free cash flow from operations	166.0	169.6	(3.6)

WORKING CAPITAL & CAPEX



innovating motion

Group Overview

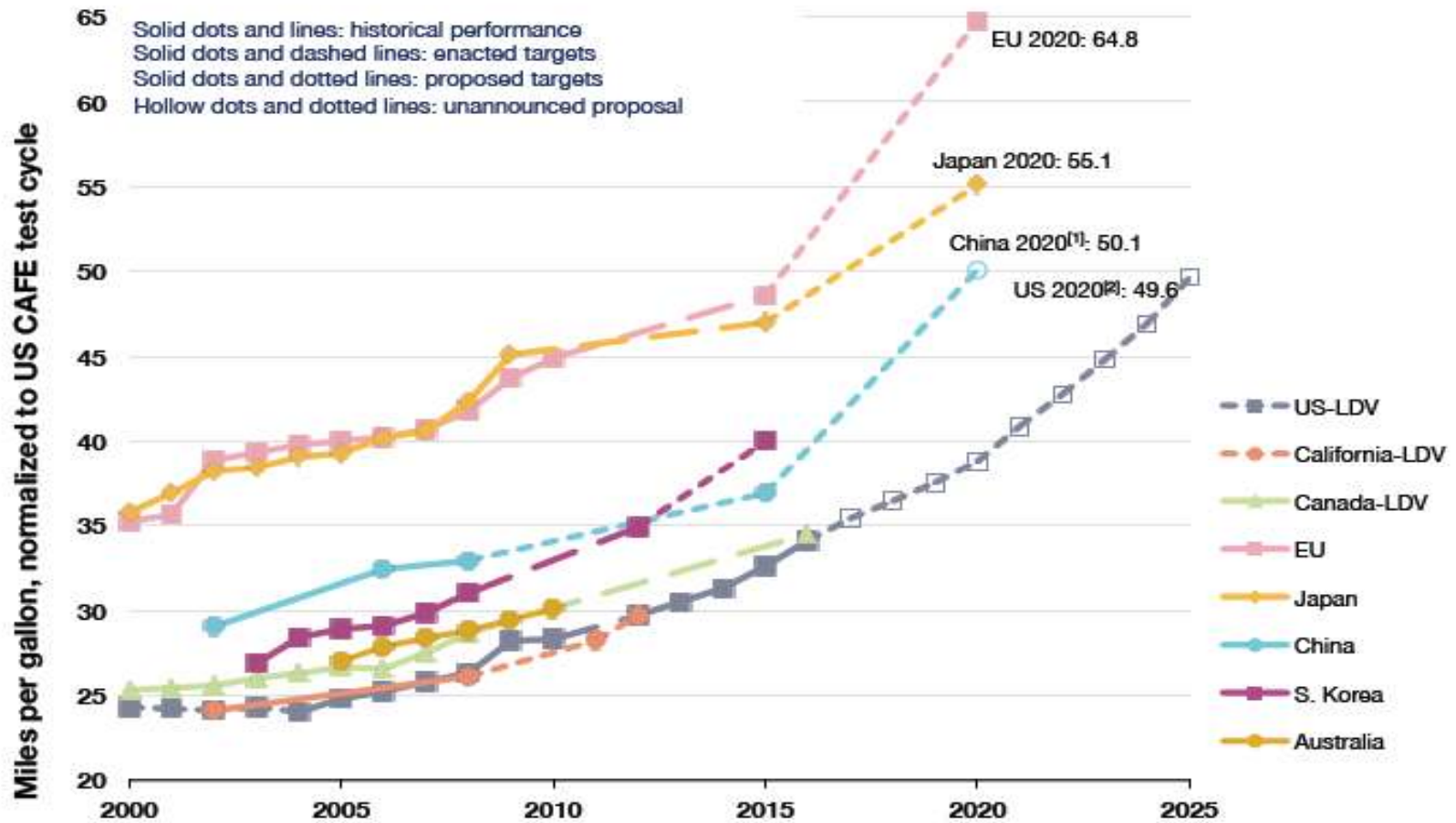
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TRENDS IN AUTOMOTIVE



[1] China's target reflects gasoline fleet scenario. If including other fuel types, the target will be higher.
 [2] US and Canada light-duty vehicles include light-commercial vehicles.

Source: International Council on Clean Transportation, August 2011.



TRENDS IN INDUSTRIAL AND DOMESTIC APPLIANCES

Global Trends

- ◆ Promote energy-efficient products and subsystems that reduce noise and weight, and increase power and efficiency characteristics
- ◆ Smart Meters –improve power efficiency, reduce energy consumption and cost savings to satisfy global emerging regulations by two ways:
 - ✓ Direct energy savings by consumers
 - ✓ Indirect energy savings through efficient management of smart meter, remote reading and reduced peak consumption.
- ◆ Growth in products by region
 - ✓ Americas – remote metering, lawn and garden, infrastructure, equipment & security market segments
 - ✓ Europe – heating, ventilation, air conditioning (HVAC) actuators, diverter valve for domestic boilers and switches & vending segments
 - ✓ Asia – gaming systems

OUTLOOK FOR JOHNSON ELECTRIC

- ◆ Satisfactory overall performance in FY2011-12
- ◆ Near-term operating environment difficult to predict
 - European markets subdued with high political uncertainty
 - Positive recent developments in US economy
 - Slower China growth but still comparatively high
- ◆ Business strategy on track to drive long-term value
 - Technology innovation and new product pipeline strong
 - Global manufacturing footprint further strengthened with new plant in Mexico to open in late 2012
 - Strong balance sheet with over US\$385mn in cash

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GLOBAL SALES & SUPPORT OFFICES & ENGINEERING CENTERS

- ◆ Argentina
- ◆ Austria
- ◆ Belgium
- ◆ Brazil
- ◆ China
- ◆ France
- ◆ Germany
- ◆ Hong Kong
- ◆ India
- ◆ Italy
- ◆ Israel
- ◆ Japan
- ◆ Korea
- ◆ Netherlands
- ◆ Singapore
- ◆ Switzerland
- ◆ UK
- ◆ USA



WORLDWIDE MANUFACTURING

- ◆ Argentina
- ◆ Brazil
- ◆ China
- ◆ France
- ◆ Germany
- ◆ Hungary
- ◆ India
- ◆ Italy
- ◆ Israel
- ◆ Mexico
- ◆ Poland
- ◆ Switzerland
- ◆ UK
- ◆ USA



APPENDIX – NEW PRODUCTS

APG – SUNROOF DRIVES



"Technology Leadership"

- Lowest weight sunroof drive
- Low noise and improved sound quality
- Slim design
- "Curve" technology motor

"The Safe Choice"

- Rare earth free for cost volatility control
- Rigorous testing process
- High reliability
- Assurance of supply and on-time delivery



Compact Life™ Low Noise Sunroof Drives



IPG – DIVERTER VALVES



"Technology Leadership"

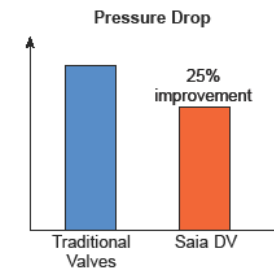
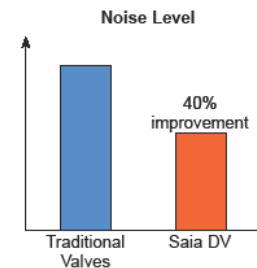
- Lowest pressure drop
- Energy saving
- Low noise valve
- No water hammer

"The Safe Choice"

- Extensive valve design experience
- Industry leader valve situation
- Vertical integration for quality
- Assurance of supply



Diverter Valves for Combi Boilers saia DV



IPG – SHUT-OFF SWITCHES



"Technology Leadership"

- Zero stand-by power
- Exceeds EuP requirements
- Resistant to shock & vibration
- Programmable control option

"The Safe Choice"

- Automatic double disconnect power-off
- Industry leader in auto power off switches
- Continuous product innovation
- Internationally approved



Energy Saving Power Shut-Off Switches for Washing Machines & Dishwashers

TIPPMATIC® IF interface version



TIPPMATIC® IFD interface + double disconnect



IPG – DISCONNECT RELAY



"Technology Leadership"

- Industry-leading contact performance
- Shortest contact bounce
- Most compact with multi pin-out options
- Unique bi-stable rocker actuation

"The Safe Choice"

- Best lifetime performance
- UC3 compliant (EN 62055-31)
- Highest magnetic tamper resistance
- Industry-leading MTBF



Disconnect Relay for Smart Meters LEDEX-EM



EMR

- Straight terminals
- Multiple control pins



EMC

- Custom terminals
- Multiple control pins



EMS

- Custom terminals with shunt
- Multiple control pins



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IPG – SOLENOID



"Technology Leadership"

- Quietest solenoid 45dBA
- Longest life tubular (25M cycles)
- Industry standard sizes and mounting
- Complete product range

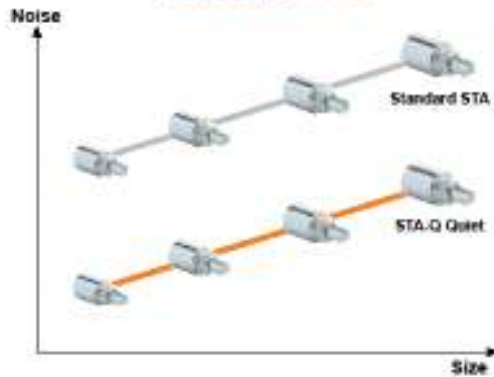
"The Safe Choice"

- Consistent, reliable operation
- Extensive application experience
- Solenoid industry leader
- Assurance of supply



Quietest Solenoid Product Line

LEDEX STA-Q



IPG – EXHAUST FAN MOTORS

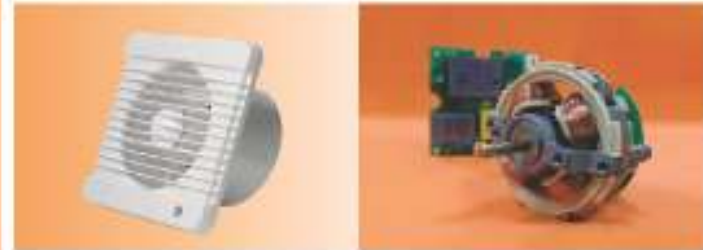


"Technology Leadership"

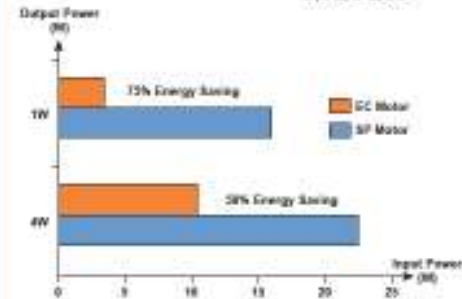
- Meets European energy saving regulations
- High system efficiency
- Innovative EC (brushless) motor design
- Integrated or Discrete Electronics
- Low noise operation

"The Safe Choice"

- Industry leader in EC technology
- Extremely long life
- Rigorous environmental testing
- High reliability
- Assurance of supply and delivery



Energy Saving Bathroom Exhaust Fan Motors



Integrated Electronics



Discrete Electronics



innovating motion

IPG – MOWER STARTER

IPG – HAND BLENDER MOTORS



"Technology Leadership"

- Easy to start
- No effort for pull string
- No battery
- Improved first time start
- Low starting noise

"The Safe Choice"

- Stress injury avoidance
- Robust design
- Water proofing
- Rigorous application testing
- First time starting




PowerPod™ - WB

Cost Effective Starter Design without Battery for Walk Behind Mower

<p>Walk Behind</p>  <p>PowerPod - WB</p> <ul style="list-style-type: none"> • Walk Behind Mower 	<p>Medium Duty</p>  <p>PowerPod - MD</p> <ul style="list-style-type: none"> • Ride on Mower 	<p>Heavy Duty</p>  <p>PowerPod - HD</p> <ul style="list-style-type: none"> • Ride on Mower
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"Technology Leadership"

- Best continuous run time
- High power density HVDC motor
- High torque for more accessories

"The Safe Choice"

- Lower operating temperature
- High reliability
- Rigorous application testing




Hand Blender Motors for Best Continuous Run Time



IPG – SMART GAS METER VALVE

IPG – TIPPMATIC SWITCHES

JOHNSON ELECTRIC

"Technology Leadership"

- Highest grid efficiency with zero pressure drop
- Highest resistance to shock & vibration
- Tamper proof & Compact plug-in solution
- Very low leakage

"The Safe Choice"

- Safe restart during valve opening
- Minimum 15 years operation
- ATEX zone 1 and 2
- Double position indication



sala Shut-off Valve for Smart Gas Metering

Features

System Integration

sala GMI

- Valve + Sensor
- Integrated control

sala GMS

- Valve + Sensor
- Position detection

sala GMC

- Compact ball valve
- Zero pressure drop

JOHNSON ELECTRIC

"Technology Leadership"

- Energy saving for compliance with Europe's EuP directive
- Designed for wide range of coffee machines
- Customizable for ease of integration with any coffee machines

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assistance of supply and delivery



Energy-Saving TIPPMATIC® Switches for Coffee Machines to Ensure EuP Compliance

• Ideal for filter type coffee machines

TIPPMATIC® T1000

- Auto power-off switch with integrated electronics
- Complete range of shut-off times to meet any requirements

• Ideal for fully automatic coffee machines

Integrates

Hardware

TIPPMATIC® IF

- Auto power-off switch with integrated interface
- Shut-off signal from coffee machine's control unit

TIPPMATIC® Plus

- Auto power-off switch with internal drive & interface
- Shut-off signal from coffee machine's control unit

TIPPMATIC® SPK

- Integrated microprocessor, internal drive unit & interface
- Custom features supported

IPG – MICROSWITCHES

IPG – ENGINE STARTER



"Technology Leadership"

- Environmental sealed IP 67
- Best in class electrical rating
- Robust design for industrial use

"The Safe Choice"

- Experienced in material handling industry
- Long life in forklift application
- Assurance of supply and delivery



Switch Product Line for Forklift Trucks

E-Stop		<ul style="list-style-type: none"> Compact installation EN 60947 approval Longest life 	<ul style="list-style-type: none"> E-Stop in Dashboard External E-Stop
V3		<ul style="list-style-type: none"> Highest current Longest life IP67 protection 	<ul style="list-style-type: none"> Brake light Stop brake
V4		<ul style="list-style-type: none"> Long overtravel Compact size IP67 protection 	<ul style="list-style-type: none"> Seat interlock Tiller head



"Technology Leadership"

- Posi-Friction™ technology
- More cranks per battery charge
- High power density
- Smaller battery

"The Safe Choice"

- Jam free starting
- Robust & long life
- Rigorous application testing
- Assurance of supply





PowerPod™ - HD

Jam Free Starter for Heavy Duty Operation & Battery Efficiency



The graph plots Power on the y-axis and # Starts on the x-axis. It shows four PowerPod models: LD (Volkstraktor), SD (2000W), HD (1000W), and HD (1000W) with a note 'Fits on Motor + Generator'. The HD models are positioned higher on the graph, indicating higher power and more starts per battery charge compared to the LD and SD models.

IPG – RANGE HOODS MOTORS

IPG – HAND DRYER BLOWERS


JOHNSON ELECTRIC

"Technology Leadership"

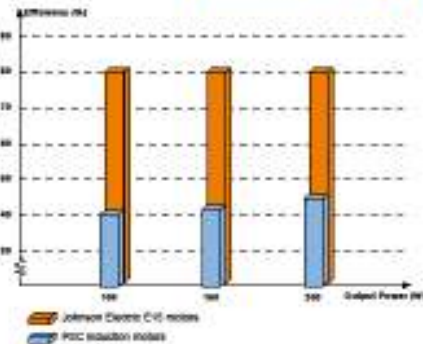

- Automatic speed adjustment for constant air flow
- Powerful extraction and high efficiency at all speeds
- Low noise for all day ventilation

"The Safe Choice"

- Quality designed-in
- Continuous product innovation
- Assurance of supply and delivery



Energy Efficient & Quiet Motors for Residential Range Hoods

JOHNSON ELECTRIC

"Technology Leadership"

- Unique blower design increases air flow rate
- Half the drying time
- High energy efficiency and longer blower life

"The Safe Choice"

- Dryer hands & dryer floors
- High performance & reliability
- Assurance of supply & delivery



Fast Drying & Long Life Hand Dryer Blowers



IPG – DRILL MOTOR

IPG – DISHWASHER DRAIN PUMP



"Technology Leadership"

- Highest Efficiency Drill Motor
- High Power Brushless Motor
- Construction (Magnetics, Cooling, Sealing)

"The Safe Choice"

- Robust Performance Design
- Rigorous Application Testing
- Assurance of Supply



Compact EC™ Motors for Best Battery Run Time and Fastest Job Completion





"Technology Leadership"


- Pump noise minimized by proprietary hydraulic design
- Elimination of cavitation noise
- High efficiency EC motor for carbon footprint reduction

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery



Low Noise & Energy Saving Dishwasher Circulation & Drain Pumps

IPG – WASHING MACHINE PUMP

IPG - LEAF BLOWERS



"Technology Leadership"

- Application specific designs
- Carbon footprint reduction
- Pumps, motors, switches

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery




Carbon Footprint Reduction

Efficient Pumps & Precision Switches for Dishwashers & Washing Machines

Brushless Motor Pumps




- Circulation & drain pumps
- Lower carbon footprint (efficiency)
- Quieter & smaller
- Speed control

Miniature X3 Switches



- Low current version
- High current version
- High temperature version
- 3mm gap version





"Technology Leadership"

- Higher power in a lower weight package
- Higher air power with improved mulching / shredding
- Energy efficiency

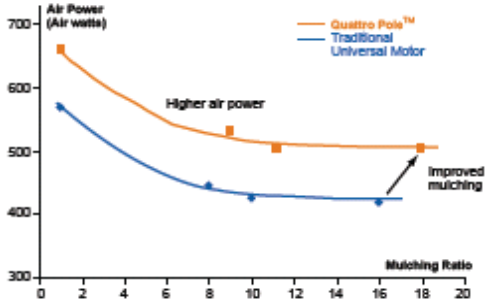
"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery


Quattro-Pole™ UH7340

Powerful & Lightweight Quattro-Pole Motors for More Efficient Leaf Blowers



Mulching Ratio	Quattro Pole™ (Air watts)	Traditional Universal Motor (Air watts)
1	~650	~580
2	~620	~550
4	~580	~520
6	~550	~500
8	~530	~480
10	~520	~470
12	~510	~460
14	~505	~455
16	~500	~450
18	~500	~450

IPG - HAIRDRYERS



"Technology Leadership"

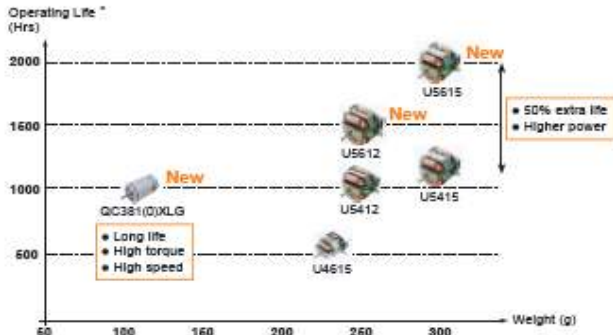
- More power and longer life in new AC motors
- Low weight DC motor with professional performance
- Full product line for high power, long life & low weight

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery




Long Life, Lightweight & Powerful Motors for Hairdryers



* Operating Life – subject to fan load

IPG – BLENDER MOTORS




"Technology Leadership"

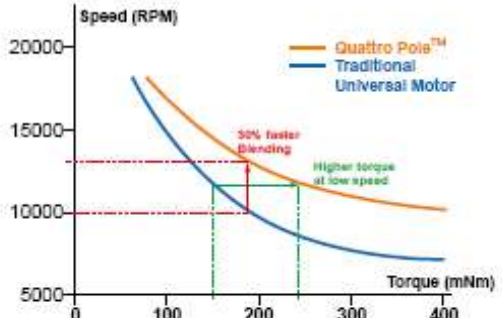
- Higher power and torque for kitchen blenders
- Faster blend time for bar blenders
- Smaller footprint with improved power

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery



Powerful & Efficient Quattro-Pole Motors for Faster Blending



IPG – MICROSWITCHES

APG – BATTERY COOLING FAN

JOHNSON ELECTRIC

"Technology Leadership"

- Highest current at smallest package
- Highest reliability for circuit breakers
- Resistant to environmental conditions
- Custom engineered solutions

"The Safe Choice"

- 25 years Circuit Breaker experience
- Application specific designs
- Assurance of supply and delivery



Microswitch Product Line for Circuit Breakers

saia



Model	Size / Height	Current
X3	16 mm	26 A
X4	10 mm	12 A
X5	8 mm	5 A
X6	6.5 mm	3 A

JOHNSON ELECTRIC

"Technology Leadership"

- Variable air power
- Quiet operation
- Light weight in compact package

"The Safe Choice"

- Longest life
- Water proof
- Shock resistant



Battery Cooling Fan Module for Hybrid & Electric Vehicles

GATE



Model	Type	Air Power (W)
CFM - EV30	Hybrid	Lo
CFM - EV10	Hybrid	Mid
CFM - EV200	Electric	Hi

APG – GRILL SHUTTERS

APG – WINDOW LIFT

JOHNSON ELECTRIC

"Technology Leadership"

- Highest torque to overcome mud or ice
- Custom designs for different platforms
- Lowest power consumption
- Compact design

"The Safe Choice"

- Extensive reliability testing
- Proven actuator designs
- Global manufacturing & engineering
- Vertical integration for TQC



High Performance Actuators for Automotive Grill Shutters

saia-burgess - GS

Model	Torque (Nm)	Speed (Rpm)
GS+ boost	2.0 - 2.5	2.25, 3.6, 5.0
GS+	1.5 - 2.0	2.25, 3.6, 5.0
GS	0.5 - 1.5	2.25, 3.6, 5.0

JOHNSON ELECTRIC

"Technology Leadership"

- Fuel saving (low weight)
- Compact design and low noise
- Low power budget

"The Safe Choice"

- Reliability designed-in
- Rare earth free magnets
- Assurance of supply and delivery



High Performance Window Lift Drive Product Line

JOHNSON MOTOR

Model	Sound Level	Weight
Compact Life™	Lower	Lighter
Standard+	Higher	Heavier

APG - WASHER PUMPS

APG - STEERING WHEEL LOCKS

JOHNSON ELECTRIC

"Technology Leadership"

- Customized motion solutions
- High efficiency pump platforms
- Advanced EMC suppression

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery




The Motor Technology Standard in Automotive Washer Pumps

JOHNSON MOTOR

Washer Pump Motor Platforms



Customized Washer Pumps



JOHNSON ELECTRIC

"Technology Leadership"

- High power density for compact package
- Quiet operation
- High stall torque for all working conditions

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery




High Power Density Motors for Steering Wheel Locks

JOHNSON MOTOR

Customizable Platforms



APG - LUMBAR SUPPORT

APG - DOOR LOCKS



"Technology Leadership"

- Customizable motion platforms (Power & Pneumatic)
- High power density for compact packaging
- Advanced EMC suppression

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery





Compact Motor Designs for Lumbar Support Systems






Customizable Platforms

Power Density



Torque





"Technology Leadership"


- Customized motion solutions
- High stall torque & low rugging torque
- Advanced EMC suppression

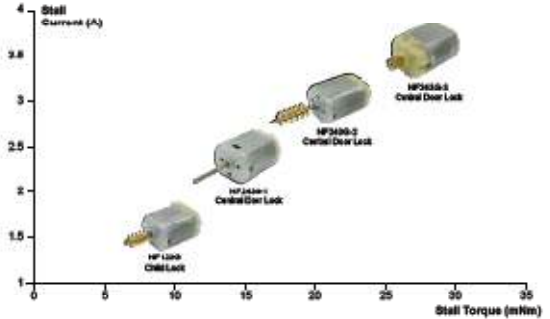
"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery

The Motor Technology Standard for Automotive Door Locks





APG - ACTUATORS

APG - CFM + MOTORS



"Technology Leadership"

- Technology standards
- Compact performance
- Low noise

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery



saia-burgess Actuators for Climate Control



saia-burgess Actuators for Adaptive Lighting



"Technology Leadership"

- Fuel saving (low weight)
- Efficient engine cooling (variable speed)
- Long life (electronic commutation)

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery



Fuel Efficient & Long Life Cooling Fan Modules

GATE



■ Brushless Motors



■ Standard Motors



■ High Power Density Motors



innovating motion

APG - SEAT MOTORS

JOHNSON ELECTRIC

"Technology Leadership"

- Fuel saving (low weight)
- High power density
- Wide torque range

"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery



High Power Density Motors for Seating Systems

JOHNSON MOTOR



■ Motors





■ Systems

APG - ABS MOTORS


JOHNSON ELECTRIC

"Technology Leadership"

- Fuel saving (low weight)
- Compact design
- Wide performance range


"The Safe Choice"

- Reliability designed-in
- Continuous product innovation
- Assurance of supply and delivery




The Safe Choice for Anti-Lock Braking Systems (ABS)


JOHNSON MOTOR



■ Standard
Weight: 950 g



■ Compact
Weight: 650g



■ Power Density
Weight: 168g

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