

# JOHNSTON & ALLEN ELECTROMAGNET



## GENERAL DESCRIPTION

Magnetic Particle Inspection "Hand-held portable yoke" manufactured to comply with: - EN ISO 9934-3:2002

Models Available	Order Code	Current	Freq	Notes
JAY 230 V AC	JAY 230V	2.0 Amps Max	50/60 Hz	Standard Unit.
JAY 230 V AC + White Light	JAYSON 230V PAL	2.0 Amps Max	50/60 Hz	Permanently attached inspection light
JAY 110 V AC	JAY 110V	3.7 Amps Max	50/60 Hz	Standard Unit
JAY 110 V AC + White Light	JAY 110 V PAL	3.7 Amps Max	50/60 Hz	Permanently attached inspection light
JAY 48 V AC	JAY 48V	16.5 Amps Max	50/60 Hz	Special Order Unit
JAY BI-V 230 & 110 V	JAY Bi Volt	2.0/3.7 Amps Max	50/60 Hz	Interchangeable leads gives the operator choice of desired voltages.
JAY 12V Pulsed DC+Battery Pack + Shoulder Bag	JAY 12V PDC	N/A	N/A	Charge gives 8hrs shift operation Satisfies E-1444-01 DC Lift

## SPECIFICATION

RECOMMENDED POLE SPACINGS	50mm to 180mm
CROSS SECTIONAL DIMENSIONS OF THE POLES	25mm Sq.
CURRENT CONTROL	Fixed Output All Models
DUTY CYCLE	50 %
MAX CURRENT "ON" TIME	5 sec
SURFACE TEMPERATURE OF HANDLE	Less than 40 Deg C at max duty cycle (30 deg C Ambient)
TANGENTIAL FIELD STRENGTH AT 65mm POLE SPACING (110/230)	>/= 7.9kA/m
TANGENTIAL FIELD STRENGTH at 180mm POLE SPACING (110/230)	>/= 2.0 kA/m
OVERALL DIMENSIONS - STANDARD UNIT	Length 220mm Height 175mm (legs straight)
OVERALL DIMENSIONS - WITH LIGHT POD ATTACHMENT	Length 230mm Height 175mm (legs straight)
STANDARD MAINS LEAD LENGTH	4m
JAY MASS - STANDARD UNIT	3.35Kg
JAY MASS - WITH LIGHT POD ATTACHMENT	3.45Kg
JAY - PULSED DC BATTERY PACK	6.00Kg + JAY (3.3Kg)
ENVIRONMENTAL PROTECTION DEGREE (EXCL. BATTERY PACK)	Tested to IP 56
CE CERTIFICATION EN50081-2/1993 and EN55014: 1993	Passed
LIFT CAPACITY - PASSES AMERICAN & EUROPEAN AC AND DC	
LIFT TEST	AC - All Models American E1444-01 4.5 Kg (44N) Europe BS EN ISO 9934-3:2002 4.5 Kg (44N) DC - PDC Model American E1444-01 22.5Kg (220N) European BS EN ISO 9934-3:2002 18Kg (176N)
SAFETY PROTECTION	In built thermal auto re-set cut out PAT Test certificate
"PAL" WHITE LIGHT INTENSITY BETWEEN POLES (LEG SPACING 80mm)	

### TRANSFORMERS

**JAY GO 230V TO 110V STEP DOWN TRANSFORMER**  
BUILT INTEGRALLY INTO A JAY CARRY CASE. IDEAL FOR SITE USE, THE CASE HAS AMPLE ROOM FOR INSPECTION AEROSOLS

### ORDER CODE

JAY GO

**230V TO 110V STEP DOWN (SINGLE SOCKET FOR 1 JAY)**  
INCLUDING ROBUST CARRY CASE AND FUSED PROTECTION

SST

**230V TO 110V STEP DOWN (DOUBLE SOCKET FOR 2 JAYS)**  
INCLUDING ROBUST CARRY CASE AND FUSED PROTECTION

DST

### TEST WEIGHTS

4.5 kg Steel weight with handle	(American and European AC Test)	4.5 Kg Test Weight
18 kg Steel weight with handle	(European DC Check)	18 Kg Test Weight
22.5 kg Steel weight with handle	(American DC Lift Test)	22.5 Kg Test Weight



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technology  
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