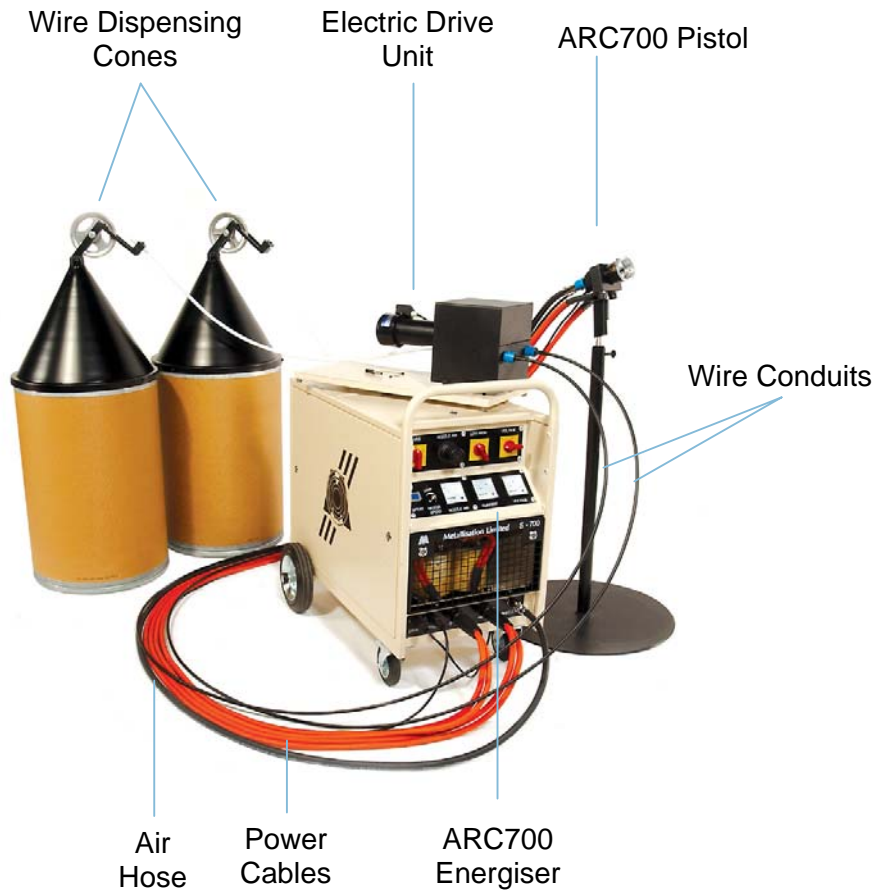


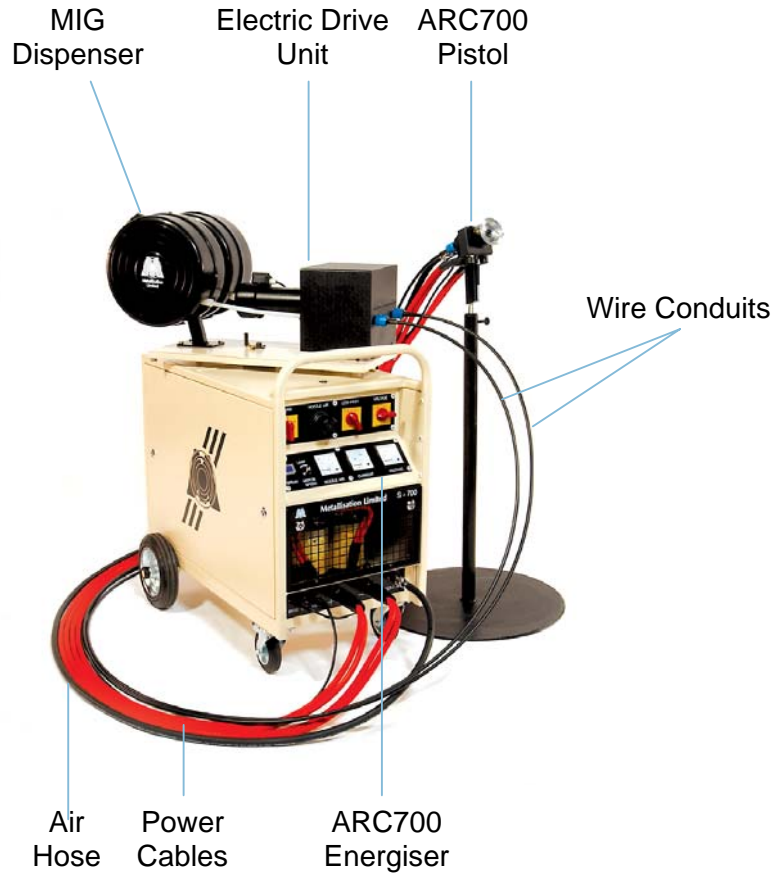
# Equipment Specification

## Arc 701 Spray System (Drum Dispense)



# Equipment Specification

## Arc 701 Spray System (Reel Dispense)



# Equipment Specification

## Arc 701 Spraying with site trolley setup



10m from energiser to wire drive (can be up to 20m)  
5m from wire drive to pistol

## 1 GENERAL

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The following specification covers the standard range of ARC701 Arcspray systems. For the specific offer, please refer to the attached quotation and cross-reference the part numbers for each piece of equipment.

## 2 BENEFITS

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### 2.1 NEW S700 ENERGISER

- 700 Amp continuous operation
- Large 'Site Capable' wheels and rigid handle offers excellent portability on site and in workshop
- Sealed electrical control circuit - reduces dust ingress for added reliability
- Overcurrent limit protection – protects all parts of spray system from over-current
- Clear displays and large controls give ease of operation.
- Easy access energiser panels & external fuse bank for reduced Mean Time to Repair (MTTR).
- Simple design for ease of maintenance
- New wire dispense packaging options allow drive unit to be compactly mounted on the energiser or separately on the floor or site capable trolleys
- When wire drive is energiser mounted, the drive unit can rotate through 180° to follow the operator whilst spraying

### 2.2 NEW 'POWER EXTENSION TROLLEY'

- Power extension trolley designed to allow the energiser to be sited away from the spray job
- 10m extension supplies package as standard, 20m maximum available for certain applications
- Large 'Site Capable' wheels and rigid handle offers excellent portability on site
- Quick release power, air and control couplings allow quick assembly / disassembly of package

## 2.3 GENERAL BENEFITS

- High throughputs of Zinc, Aluminium and Zinc / Aluminium 85/15 – reduces spraying time
- 700 amps continuous operation – reduces spraying time
- Lightweight pistol - reduces operator fatigue
- DC motor drive sealed/lubed for life – greater reliability
- Variable wire speed control – gives variable spray rates
- Soft start for smooth start-ups - reduces electrical loading on components.
- Suitable for anticorrosion wires 2.3mm to 3.17mm (1/8")
- Easy to maintain, less than 3 minutes to change contact tubes and nozzles.
- Push system for a maximum length from dispenser to pistol of 8m (5m from pusher to pistol)
- Power and air supplies packages in 5m and 10m lengths as standard
- Choice of coating textures.
- Low running costs as compared with gas systems.
- Steel reinforced conduits for extended service life.

### 3 ARC700 PISTOL

Part No	Description
<b>ARC700-PISTL</b>	Arc700 Pistol for 3mm and 3.17mm (1/8")
<b>ARC700-PL2.3</b>	Arc700 Pistol for 2.3mm wires



The Pistol has been designed to give consistent high throughputs of anti corrosion materials with high coating quality. It is a lightweight, heavy-duty unit with robust but compact construction.

#### 3.1 TECHNICAL OVERVIEW:

- For spraying Anti-corrosion coatings on large surface areas in the spray shop and onsite environment
- Simple to operate
- CG (constant geometry) head ensuring smooth feed, repeatable wire alignment and no adjustment of contact tubes required
- Lightweight pistol that reduces the operator fatigue
- Closed arc for improved spray conditions and coating quality
- 'Spreader' attachment on pistol gives the option to 'widen' the spray pattern to maximise coverage and help to provide an even coating
- Different sized contact tubes, nozzle and air cap for different wire sizes

### 3.1.1 Technical data:

Description	Characteristics
Maximum Current	700 Amps
Weight	1.95 Kgs
Weight – at a held height of 1.2 M	6.3 Kgs – inc Cables and Hoses
Width	102mm
Length	229mm
Height	203mm

### 3.1.2 Typical performance figures for the ARC700 pistol:

Material	Reference	Wire Diameter	Throughput Kg/hr	Maximum Coverage m <sup>2</sup> /kg/100µm
Zinc	02E	2.3mm (600A)	62	0.82
		3.17mm (700A)	72	
Aluminium & Alloys	01E/17E/25E	2.3mm (700A)	21	2.88
		3.17mm (700A)		
Zinc/Aluminium 85/15	21E	2.3mm (500A)	45	1.00
		3.17mm (700A)	62	

## 4 SUPPLIES PACKAGE

Part No	Description
<b>SUP701E-5M</b>	5M Supplies Package for 3.17mm (1/8")
<b>SUP701E-10M</b>	10M Supplies Package for 3.17mm (1/8")
<b>SUP701E5M23</b>	5M Supplies Package for 2.3mm
<b>SUP701E10M23</b>	10M Supplies Package for 2.3mm
<b>SUP06-EXT10H</b>	10M PET supplies, high power

### 4.1 STANDARD SUPPLIES PACKAGE INCLUDES:



**Power cables**  
2 off



**Air hose**  
1 off



**Wire conduits**  
2 off



**Control cable**  
1 off

#### 4.1.1 Technical overview:

- 5m and 10m supplies package available as standard
- 5m package has all above parts at 5m length
- 10m package has 10m power cables, 10m air hose, 10m control cable and 5m wire conduits
- Other length power, air and control packages are available
- Supplied with all fittings appropriate to connect to 700 Pistol and S700 Energiser
- Quick release power, air and control couplings allow quick assembly / disassembly of package
- Steel reinforced conduits for extended service life

## 4.2 10M POWER PET SUPPLIES, HIGH POWER INCLUDES:



**Power cables**  
**2 off**



**Air hose**  
**1 off**



**Control cable**  
**1 off**

### 4.2.1 Technical overview:

- 10m Power Extension Trolley (PET) supplies package available as standard
- Up to 20m available for certain applications (check with Metallisation)
- Supplied with all fittings appropriate to connect to S700 Energiser and High Power Extension Trolley
- Quick release power, air and control couplings allow quick assembly / disassembly of package

## 5 ENERGISER

Part No	Description
2226	S700 Energiser



The S700 Energiser has been specifically designed for those users who wish to spray large areas at high throughputs of anticorrosion materials.

### 5.1 TECHNICAL OVERVIEW:

- 700 Amp continuous operation (100% duty cycle)
- Large 'Site Capable' wheels and rigid handle offers excellent portability on site and in workshop
- Sealed electrical control circuit - reduces dust ingress for added reliability
- Overcurrent limit protection – protects all parts of spray system from over-current
- Clear displays and large controls give ease of operation.
- Easy access energiser panels & external fuse bank for reduced Mean Time to Repair (MTTR).
- Simple design for ease of maintenance

### 5.1.1 Energiser Specification:

Description	Characteristics
Power Requirements	380/440V 50-60Hz 3 Phase
Fusing Required	45A/Phase (415V input & 35Vdc output)
Max Power Consumption	25 KW @ max 35Vdc
Duty	0-700 Amps @ 100% Duty Cycle
Output Voltage @ 440 Supply Voltage	0-50Vdc (nominal) Switched High/Low & 1 - 5
Air Requirements	1.25 m <sup>3</sup> /min @ 4.5bar (44cfm @ 65psi)
Weight	282 Kgs
Width	665mm
Length	900mm
Height	913mm

## 6 WIRE DRIVE UNIT

Part No	Description
<b>ARC701EDRA32</b>	ARC701 Electric Wire Drive Unit 3.17mm (1/8")
<b>ARC701EDRA23</b>	ARC701 Electric Wire Drive Unit 2.3mm



Drive units shown already fitted to Drive Support Plates (not included with drive unit)

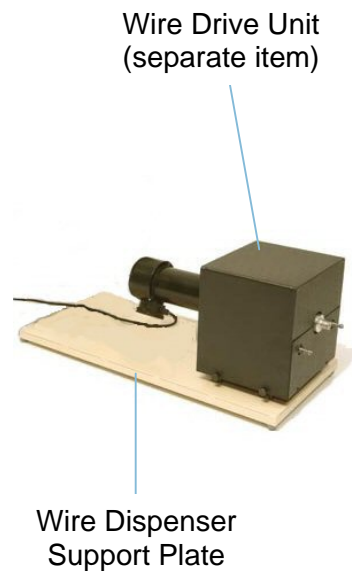
### 6.1 TECHNICAL OVERVIEW:

- New, up-rated drive system for improved reliability of wire drive
- Electric DC Drive Motor, Thyristor Controlled, for smooth wire feed.
- Push mechanism positively drives the wire to the pistol.
- Ease of loading and unloading of wires, using "Quick Fit" couplings on Conduits.
- Rigid construction
- Simple design for ease of maintenance
- Easily adjustable wire tensioners for a consistent feed of different wire sizes and materials
- Different sized drive rollers for 2.3 and 3.17mm materials

## 7 WIRE DISPENSE

### 7.1 WIRE DISPENSING CONES (PULLEY):

Part No	Description
<b>21254</b>	Wire Dispensing Cones
<b>2006-DSP</b>	Wire Dispenser Support Plate



#### 7.1.1 Technical overview:

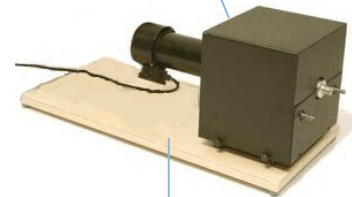
- Suitable for dispensing 3.17mm Zinc and Zinc/Aluminium.
- Specifically designed to suit Arcspraying with the each drum being individually insulated from each other.
- Fitted Pulley to ensure a smooth wire feed to the pistol.
- Rigid construction
- Ease of loading and unloading of the wire.
- To be used with wire dispenser support plate and wire drive unit
- Part number 2006-DSP designed to pivot when energiser mounted, allowing 180° of rotation for increased spraying range and flexibility.

## 7.2 TWO TIER WIRE DISPENSER:

Part No	Description
<b>2006-2T</b>	Arc170 2 tier wire coil dispenser (Includes ARC170-DSP)
<b>2006-DSP</b>	Wire Dispenser Support Plate



Wire Drive Unit  
(separate item)



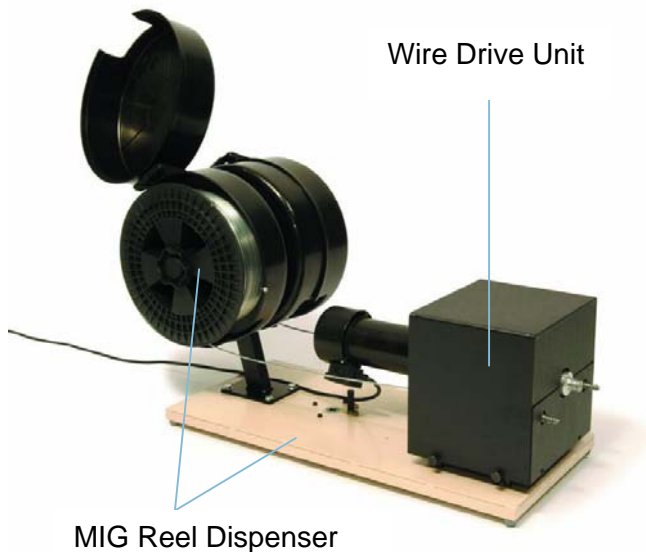
Wire Dispenser  
Support Plate

### 7.2.1 Technical Overview:

- Specifically designed to suit Arcspraying with the each coil being individually insulated from each other
- Zinc, Aluminium and Zinc/ Aluminium available in Coil for 2.3mm and 3.17mm(1/8")
- Variable brake tension to ensure wire does not uncoil
- Designed to ensure a smooth wire feed to the pistol
- Dust Cover included
- Lower tier swings out for Ease of loading and unloading of the Coils.
- Castors fitted to the bottom of the dispenser
- Part number 2006-2T includes drive support plate
- Part number 2006-DSP offered for users who already have their own wire dispensers
- Part number 2006-DSP designed to pivot when energiser mounted, allowing 180° of rotation for increased spraying range and flexibility.

### 7.3 MIG REEL WIRE DISPENSER:

Part No	Description
2006-MIG	Wire Dispenser MIG ID Spools



The wire is dispensed in MIG Reels and is shown with the wire drive unit fitted and one dust cover open.

#### 7.3.1 Technical overview:

- Specifically designed to suit Arcspraying with the MIG reels being individually insulated from each other.
- Variable brake tension to ensure wire does not uncoil.
- MIG reel dust cover to ensure more consistent spraying.
- Zinc, Aluminium and Zinc/ Aluminium available on MIG for 2.3mm and 3.17mm(1/8”).
- Designed to ensure a smooth wire feed to the pistol.
- Designed to pivot allowing 180° of rotation for increased spraying range and flexibility.

## 7.4 HIGH POWER EXTENSION TROLLEY

Part No	Description
<b>2006-PETH</b>	High power extension trolley



Front view



With MIG Dispenser Fitted



Rear view

### 7.4.1 Technical overview

- Power extension trolley designed to allow the energiser to be sited away from the spray job
- Large 'Site Capable' wheels and rigid handle offers excellent portability on site
- Quick release power, air and control couplings allow quick assembly / disassembly of package
- Drive support plate bolts to trolley

## 8 TOOL KIT AND ACCESSORIES

### 8.1 TOOL KIT:

Appropriate hand tools are supplied with the Arcspray system along with an operating manual.

### 8.2 ACCESSORIES:

Part No	Description
<b>ARC701-2.3CK</b>	Arc701 3.17mm (1/8") to 2.3mm Conversion Kit
<b>ARC701-1/8CK</b>	Arc701 2.3mm to 3.17mm (1/8") Conversion Kit

- Conversion Kits include all required Driver Rollers, Nozzle, Aircap, Contact Tubes and Wire conduits