

Professional Finishing Aerospace, Defence, Engineering

Founded in 1947, Amfin has established an enviable reputation as a professional and accomplished metal finishing company. We serve customers in a diverse range of industries including Aerospace, Defence, Medical, General and Specialist Engineering. The newly established Hinckley site benefits from a state of the art surface treatments facility, this is key to our success and excellent working relationship with many of our worldwide customers.



ISO9001:2000 + AS/EN9100
ISO14001:2004



NON DESTRUCTIVE TESTING
(FPI and MPI)
CHEMICAL PROCESSING
COATINGS (Plasma)



Lead-time optimisation

We provide over 40 finishing operations in our facility ensuring we maximise efficiency, reduce costs and minimise all important lead times. This technical capability is important as we work with some of the worlds' leading aerospace manufacturers.

Paramount Customer service

From initial enquiry through to final inspection and delivery your order will be expertly managed through our dedicated MRP/ERP system.

Responsibility to Environment

We acknowledge responsibility to the environment. In line with this concern our latest investments include processing plant that recycles process water, a fully enclosed solvent vapour degreasing facility and a modern extraction system providing a safe environment for both our workforce and our surroundings.

Six Processing Shops, one Site

1. Non Destructive Testing and Etch Inspection
2. Anodising
3. Electro-plating
4. Bonding and Assembly
5. Plasma Spraying
6. Painting and associated Oven Treatments



The comprehensive range of Pre-Treatments, Electroplating, Bonding & Assembly



ABBREVIATIONS

NBA	: Nickel Based Alloys
MA	: Magnesium Alloys
AA	: Aluminium Alloys
TA	: Titanium Alloys
LAS	: Low Alloy Steels
CBA	: Copper based alloys
CRS	: Corrosion Resistant Steels
Comp.	: Composites
Length	: Working Tank Length (mm)
Width	: Working Tank Width (mm)
Depth	: Working Solution Depth (mm)
Lifting	: Manual/Aided Lifting (+SWL) Kg
M	: Manual

Processes & Services

	Materials Amfin Can Process								Tank Sizes			
	NBA	MA	AA	TA	LAS	CBA	CRS	Comp.	Length	Width	Depth	Lifting
PRE-TREATMENTS												
01. Cleaning & Degreasing Using Trichloroethylene Solvent - Hot Liquid & Vapour	✓	✓	✓	✓	✓	✓	✓		2100	1100	900	500
02. Abrasive Blasting	✓	✓	✓	✓	✓	✓	✓		4600	2200	2000	M
03. Semi-Controlled Abrasive Blasting	✓	✓	✓	✓	✓	✓	✓		1500	1000	1000	M
04. Organic Media Blasting	✓	✓	✓	✓	✓	✓	✓	✓	900	600	450	M
05. Acid Descaling Of Austenitic Stainless Steels & Nickel Based Alloys	✓						✓		915	610	800	M
06. Descaling Of Ferritic And Austenitic Stainless Steels & Heat Resisting Alloys	✓				✓		✓		915	610	800	M
07. Alkaline Cleaning & De-rusting	✓			✓	✓		✓		610	610	800	M
08. Cleaning & Degreasing Using Aqueous Media	✓	✓	✓	✓	✓	✓	✓	✓	3650	900	2000	500
09. Descaling Of Copper Based Alloys						✓			915	610	800	M
10. Stripping Of Paint Finishes	✓	✓	✓	✓	✓	✓	✓	✓	800	400	250	M
11. Chemical Removal Of Metallic Contamination (Pickling)	✓		✓	✓	✓		✓		601	610	250	M
12. Cleaning & Degreasing Using Non-Halogenated Organic Solvents	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
13. Plastic media blasting paint stripping	✓	✓	✓	✓	✓	✓	✓	✓				
NON DESTRUCTIVE TESTING & ETCH INSPECTION UPTO NDT LEVEL III												
01. Etching Of Hardened Steel Components					✓				1525	500	1525	500
02. Non-Destructive Magnetic Particle Inspection					✓		✓					
03. Non-Destructive Testing Fluorescent Penetrant Inspection	✓	✓	✓	✓	✓	✓	✓	✓				
04. Visual Inspection	✓	✓	✓	✓	✓	✓	✓	✓				
05. NDT Examination for Land Based & Marine Power Turbines & Related Equipment	✓	✓	✓	✓	✓	✓	✓	✓				
06. Etching Of Nickel Base Steel Alloy Components For Metallurgical Inspection	✓				✓		✓		1525	500	1525	500
07. Etching Of Titanium Alloys				✓					1525	500	1525	500
08. Etching Of Aluminium Alloys			✓						1065	610	800	M
09. Conductivity Testing			✓									
10. Hardness Testing	✓	✓	✓	✓	✓	✓	✓					
11. Tri-acid Etch			✓						1850	700	1950	500
ANODISING & CONVERSION COATINGS												
01. Chromating Of Magnesium Alloys		✓							1830	920	1450	500
02. Alocrom 1200			✓						1830	920	1400	500
03. Alocrom 1000			✓						915	610	800	500
04. Alodine 5200			✓						915	610	800	500
05. Chromic Anodise , Two Tanks			✓						3650	900	2000	500
06. Sulphuric Anodise			✓	✓					3650	900	2000	500
07. Hard Anodising			✓						3650	900	2000	500
08. Tartaric Sulphuric Anodise			✓						3650	900	2000	500

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The comprehensive range of Bonding, Electroplating & Plasma Spraying



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Processes & Services

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BONDING & ASSEMBLY												
01. Adhesive Bonding	✓	✓	✓	✓	✓	✓	✓	✓				
02. Two Part Hot Curing Epoxide Paste Adhesive	✓	✓	✓	✓	✓	✓	✓	✓				
03. One Part Cold Curing Silicone Rubber Adhesive	✓	✓	✓	✓	✓	✓	✓	✓				
04. One Part Hot Curing Epoxide Film Adhesive	✓	✓	✓	✓	✓	✓	✓	✓				
05. One Part Hot Curing Epoxide Supported Film Adhesive	✓	✓	✓	✓	✓	✓	✓	✓				
06. One Part Hot Curing Epoxide Unsupported Film Adhesive	✓	✓	✓	✓	✓	✓	✓	✓				
07. One Part Hot Curing Polyimide Paste Adhesive And Primer	✓	✓	✓	✓	✓	✓	✓	✓				
08. Application Of Filling Sealing And Caulking Compounds	✓	✓	✓	✓	✓	✓	✓	✓				
09. Two Part Heat Curing Epoxide Resin System	✓	✓	✓	✓	✓	✓	✓	✓				
10. One Part Cold Curing silicone Rubber	✓	✓	✓	✓	✓	✓	✓	✓				
11. Organic Based Attrition Coatings	✓	✓	✓	✓	✓	✓	✓	✓				
12. Application Of Carbon/Epoxy Resin Attrition Coating	✓	✓	✓	✓	✓	✓	✓	✓				
13. Talc Filled Attrition Coating NML46	✓	✓	✓	✓	✓	✓	✓	✓				
14. Application Of Ceramic Thermal Insulation Materials	✓	✓	✓	✓	✓	✓	✓	✓				
ELECTROPLATING & OTHER FINISHES												
01. Silver Plating	✓			✓	✓	✓	✓		1800	600	900	300
02. Copper Plating	✓				✓	✓	✓		1800	600	900	300
03. Removal Of White Layer From Nitrided Parts					✓				915	610	800	M
04. Acid Pickling Of Low Alloy And Corrosion Resisting Ferritic Steel					✓		✓		915	610	800	M
05. Passivate Stainless Steel							✓		1220	610	800	M
06. Zinc/Nickel alloy plating	✓				✓	✓	✓		1800	600	900	300
07. Electroless Nickel	✓	✓	✓	✓	✓	✓	✓	✓	730	600	750	M
08. Dull Nickel plating	✓				✓	✓	✓		1800	600	900	300
09. Manganese phosphate					✓				2000	1070	800	500
10. Zinc phosphate					✓				1525	1070	800	500
11. Zinc Plating	✓				✓	✓	✓		1800	600	900	300
PLASMA & THERMAL COATINGS												
01. Plasma Flame Deposition	✓	✓	✓	✓	✓	✓	✓					
02. Flame Deposition Of Abradable Coatings	✓	✓	✓	✓	✓	✓	✓					
03. High Velocity Plasma Flame Deposition	✓	✓	✓	✓	✓	✓	✓					
04. Combustion Flame Deposition	✓	✓	✓	✓	✓	✓	✓					
PROCESS OVENS FOR CURING , STRESS RELIEVING, DE-EMBRITTELEMENT AND BONDING												
01. 3off, Stress Relieving and De-embrittlement oven									1000	1000	1000	M
02. 5off, Paint Curing & Bonding Ovens									2000	2000	3000	M

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The comprehensive range of Paintings & Associate Oven Treatments



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	NBA	MA	AA	TA	LAS	CBA	CRS	Comp.	Length	Width	Depth	Lifting
PAINTING												
01. Application Of Thermal Barrier Coating	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
02. Organic Barrier Coatings	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
03. PTFE Dispersion	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
04. Graphite Dry Film Lubricant	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
05. Application Of Air Curing Graphite Dry Film Lubricant	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
06. Mica Filled Coating	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
07. High Heat Resisting Aluminium Stoving Enamel	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
08. Heat Resistant ES Coating	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
09. Application Of High Temperature Aluminium Silicone Enamel	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
10. Ceramic Coatings	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
11. Application Of Heat Cured Epoxy Paint Systems	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
12. Application Of Polyimide Coatings	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
13. Application Of PRC-Desoto. Two Part Epoxy Paint Systems	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
14. High Temperature Marking Paints	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
15. Application Of Day Glo Inspection Aid Paint	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
16. Application Of Two Pack Epoxy Paint To Cold Thrust Reverser Cascades	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
17. Application Of Stoving Epoxy Varnish Erosion Resistant Coating	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
18. Application Of Fluorocarbon Resin Teflon "S" (Du Pont)	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
19. Application Of Indestructible Paint Co. Ltd. Two Part Epoxy Paint Systems	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
20. Application Of Polyurethane Elastomer By Spraying And Brushing Procedures	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
21. Application Of A Bonded Calcium Fluoride/Graphite Dry Film Lubricant	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
22. Application Of Intumescent Paint	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
23. Two Part Epoxy/Polyurethane Paint System	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
24. Application Of Phosphate Bonded DFL Maximum Operating Temperature 400°C	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
25. Application Of High Temperature Dry Film Lubricant	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
26. Application Of Molybdenum Disulphide Dry Film Lubricant	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
27. Sacrificial Coatings	✓				✓		✓		9000	3000	3000	1000
28. Application Of Sacrificial Corrosion Resistant Coatings	✓				✓		✓		9000	3000	3000	1000
29. Application Of Sacrificial Corrosion Resistant (Thin) Coatings	✓				✓		✓		9000	3000	3000	1000
30. Organic Sacrificial Corrosion Resistant Coating	✓				✓		✓		9000	3000	3000	1000
31. Application Of Sealcoat	✓				✓		✓		9000	3000	3000	1000
32. Application Of Sacrificial Corrosion Resistant Sealed Smooth Coatings	✓				✓		✓		9000	3000	3000	1000
33. Application Of Two Part Protective Polyurethane Coatings To Rubber Surfaces								✓	9000	3000	3000	1000
34. Application Of Protective Finishes To Ground Support Equipment	✓	✓	✓	✓	✓	✓	✓	✓	9000	3000	3000	1000
OTHER CAPABILITY												
01. Corrosion Protection Of Components During Manufacture And Storage	✓	✓	✓	✓	✓	✓	✓					
02. Removal of Encapsulation from Metal Parts	✓		✓	✓	✓		✓					

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