

# Denford Consumables

## MATERIALS & CONSUMABLES



### WOOD

A range of hardwoods suitable for machining on Denford Routers.

#### American Maple Wood Block

A creamy white hardwood with a close grain and fine, even texture.

Easy to work and finish, without the need for sanding.

Billet size: 160mm x 100mm x 20mm	Each	BI03509D
	Pack of 50	BI03509G



#### Round Pine Billets

Ideal for use with the Rotary Fixture attachments.

Billet size: 65mm Dia. x 150mm Long	Pack of 10	BI03509J
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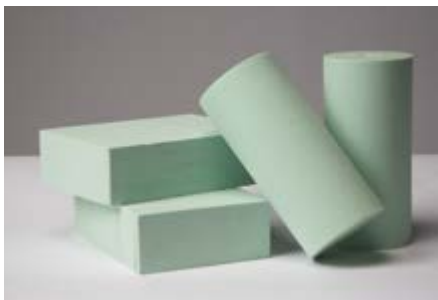
### FOAM

These rigid, closed cell foam blocks are ideal for the rapid machining of parts on the full range of Denford Milling Machines and Routers.

#### High Density Foam

Ideal for most 3D prototyping applications. Offering plenty of surface detail, it is commonly used in moulds for vacuum forming and is also suitable for painting.

Billet size: 150mm x 110mm x 50mm	Each	BI03508
	Pack of 50	BI03508A



Billet size: 70mm Dia. x 150mm long	Each	BI03508DZ
	Pack of 15	BI03508E

Ideal for use with the Denford 4th axis programmable rotary fixture.



**Model Foam**

A low density and low cost foam product with easy machining properties which is particularly suitable for quick 3D realisation of design ideas.

Billet size: 160mm x 100mm x 50mm Each BI03508B



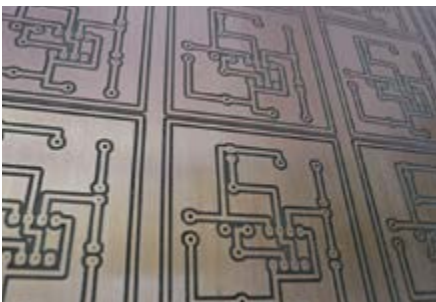
**MODELLING BOARD**

A high density (0.47g/m<sup>3</sup>) board ideal for high definition 3D work.

**Modelling Board**

For prototyping high quality models

Billet Size: 1500mm x 500mm x 50mm Each BI03508K



**PCB BOARD**

Ideal for use in conjunction with VR CNC Milling 5, PCB manufacturing feature.

**Copper Coated Clad PCB Board (Single Sided)**

Size: 233.4mm x 160mm x 1.6mm Each 4X40079



**Photo Resist Coated PCB Board (Single Sided)**

High quality dip coated positive working photoresist. This high resolution photoresist contains a dye which gives a good contrast against the copper allowing boards to be easily inspected at the developing stage. Panels are protected by a specially designed light-proof blue film which allows them to be guillotined without the risk of fracturing the photoresist.

Size: 233.4mm x 160mm x 1.6mm Each 4X40080

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### ALUMINIUM

Free cutting aluminium bars and billets are ideal for producing quick prototypes of metallic components. Easily polished, they yield professional looking component parts.

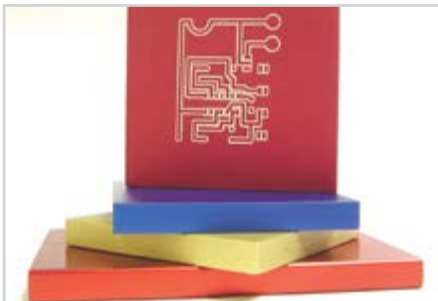
#### Aluminium Bar

Suitable for cutting on Denford Lathes.

Bar Size: 20mm Dia. x 55mm.

Non-Anodised

Each	BI03512A/1
Pack of 50	BI03512A



#### Aluminium Billet

Suitable for cutting on Denford Milling Machines.

Billet Size: 100mm x 100mm x 12mm.

Non-Anodised

Each	BI03511
Pack of 50	BI03511B

Red-Anodised

Each	BI03511A
Pack of 50	BI03511C



### EXTRUDED ACRYLIC SHEET

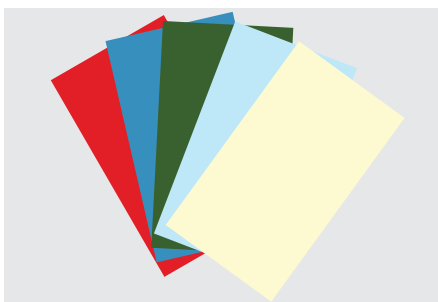
Excellent thermoforming characteristics enabling the production of intricate, delicate shapes.

30 off 3mm **Red** 600mm x 300mm.

BI03523

30 off 3mm **Yellow** 600mm x 300mm.

BI03523A



### CAST ACRYLIC SHEETS

High quality, perfect surface finish and superb optical qualities.

30 off 3mm **Red** 600mm x 300mm.

BI03522

30 off 3mm **Blue** 600mm x 300mm.

BI03522A

30 off 3mm **Green** 600mm x 300mm.

BI03522B

30 off 3mm **Transparent Blue** 600mm x 300mm.

BI03522C

30 off 3mm **Transparent Yellow** 600mm x 300mm.

BI03522D



### HIGH IMPACT POLYSTYRENE

Rigid, easy cutting thermoplastic used for 2D projects. Can be quickly "layered" in different colours to produce low cost nameplates etc. Easily held on temporary machine tables using heavy duty double sided tape.

Billet Size: 160mm x 90mm x 2mm.

White

Pack of 50	BI03501F
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Multi-Coloured

Pack of 50	BI03501
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## ACRYLIC RODS

- 1 metre x 6mm dia. fluorescent round – **Red.**
- 1 metre x 6mm dia. fluorescent round – **Yellow.**
- 1 metre x 6mm dia. fluorescent round – **Green.**
- 1 metre x 6mm dia. fluorescent round – **Blue.**
- 1 metre x 6mm dia. round – **Clear.**

BI03524  
 BI03524A  
 BI03524B  
 BI03524C  
 BI03524D



## DOUBLE SIDED TAPE

**Heavy Duty**  
 Size: 25mm x 33m

Pack of 10 BI03502A

# Denford Consumables

## TOOLING, CONSUMABLES & CURRICULUM PACKAGES



### TOOLING PACKAGES

#### Recommended Router Tooling Package

B100846

##### For all Routers:

- 1/8" Dia x 1/4" Shank 2 Flute Cutter
- 1/8" Dia x 1/4" Shank Ball Nose Cutter
- 1/4" Dia x 1/4" Shank 2 Flute Cutter
- 1/4" Dia x 1/4" Shank Ball Nose Cutter
- 60 Degree V Cutter x 1/4" Shank



#### Set of Quick Change Toolholders & Collet

B100846SRH

##### For Compact 1000, Router 2600 and Router 6600:

- 10mm Collet for Kress Motor
- Quick Change Holder 1/4" ID 10mm Shank x 5
- Quick Change Holder 1/8" ID 10mm Shank



#### Set of Quick Change Toolholders & Collet

B100846PRH

##### For Compact 1000 Pro, Router 2600 Pro and Router 6600 Pro:

- 9-10mm Dia Collet to suit ER20 Collet Chuck
- Quick Change Holder 1/4" ID 10mm Shank x 5
- Quick Change Holder 1/8" ID 10mm Shank



#### Quick Change Router Tooling Package - Imperial

MRTPO3

##### For Compact 1000, Router 2600 and Router 6600:

- 10mm Router Collet for Kress Motor
- 1/4" ID Reducing Bush 10mm Shank x 2
- 1/8" ID Reducing Bush 10mm Shank
- 1/64" Engraving Cutter 1/8" Shank 45 Degrees
- 5/32" 2 Flute Cutter 1/4" Shank
- 1/4" Dia Ball Nose L/S 2 Flute Cutter (Solid Carbide)



#### Quick Change Router Tooling Package - Imperial

MRTPO4

##### For Compact 1000 Pro, Router 2600 Pro and Router 6600 Pro:

- 9-10mm Dia Collet to Suit ER 20 Collet Chuck
- 1/4" ID Reducing Bush 10mm Shank x 2
- 1/8" ID Reducing Bush 10mm Shank
- 1/64" Engraving Cutter 1/8" Shank 45 Degrees
- 5/32" 2 Flute Cutter 1/4" Shank
- 1/4" Dia Ball Nose L/S 2 Flute Cutter (Solid Carbide)



**Micromill Quick Change Tooling Package - Imperial**

MMTP01

**Quick Change Tooling Package:**

- 1 x 1/8" Dia Toolholder
- 2 x 1/4" Dia Toolholder
- 1/64" Carbide Engraving Cutter 1/8" shank
- 1/8" Dia H.S.S. Slot Drill 1/4" Shank
- 1/4" Dia H.S.S. Slot Drill 1/4" Shank



**Micromill Quick Change Tooling Package - Metric**

BIO0811TP

**Quick Change Tooling Package:**

- 3 x 6mm Dia Toolholders
- 2mm Dia H.S.S. Slot Drill
- 4mm Dia H.S.S. Slot Drill
- 6mm Dia H.S.S. Slot Drill

Supplied as standard with Micromill Pro



**VMC 1300/Pro Tools and Toolholders**

VMC/0500RT

**Recommended Set of Tools:**

- 2mm Ball Nose, 2mm, 4mm & 6mm Slot Drills,
- 20mm End Mill

**Recommended Set of Toolholders:**

- 2 x 6mm & 1 x 20mm Sidelock Holders,
- 2 x ER32 Collet Chucks with 2 x 6-7mm Collets,
- 1 x ER32 Collet Spanner
- 1 x Hook Spanner to grip spindle while tightening collets

VMC/0500RH



**Microturn Tooling Package**

MT1/0100B

**Recommended Tool Post and Tooling Package:**

- Quick Change Tool Post + 3 Toolholders,
- Quick Change Carbide Insert Turning Toolholder and Pack of 10 Inserts,
- Parting Off Tool Blade,
- 1/4" Brazed Carbide Tipped Left Handed Cutting Tool

Supplied as standard with Microturn Pro



**Turn 270 Pro Comprehensive Tooling Package**

TRNCTP

**Comprehensive Tooling Package:**

- LH Turning Tool 12mm Shank,
- Pack of 10 Inserts for LH/RH Turning Tools,
- Pack of 10 Inserts for Parting Off Tool,
- External Threading Tool 12mm Shank with 10 Inserts,
- Boring Bar 8mm Shank with 10 Inserts
- 5mm Centre Drill
- 2 Stub Drills (5mm & 10mm)



# Denford Consumables

## TOOLING, CONSUMABLES & CURRICULUM PACKAGES



### CONSUMABLES PACKAGES

#### F1 Model Block Car Kit

N13226F1M01

Includes 4 x F1 Class Wheels, 1 x Sandpaper, 2 x Screw Eyes, 2 x F1 Axles, 4 x Axle Bushes, 1 x F1 Model Block



#### 50 Student Lithophane Consumables Package

CPLITHO

Cast Acrylic Sheet: 3mm Sky Blue 100 x 100mm x 50  
 Cast Acrylic Sheet: 3mm White 100 x 100mm x 50  
 Double Sided Tape x 2  
 1/8" ID Reducing Bush 10mm Shank  
 Engraving Cutter 0.4mm (1/64") 1/8" Shank 45 Degree x 2  
 MDF Billet 5" x 8" x 5/8" (cut to size) x 2



#### Router Curriculum Consumables Package

CPR01

10 Hour 50 Student

MDF Billet 5" x 8" x 5/8" x 150  
 MDF Billet 4" x 4" x 5/8" x 150  
 Green Golf Tee (Pack of 250)  
 Red Golf Tee (Pack of 250)

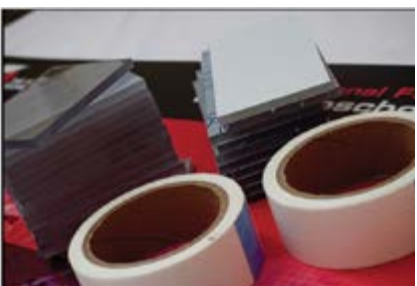


#### Turning Curriculum Consumables Package

CPTURN01

10 Hour 50 Student

Aluminium Bar 20mm Dia x 55mm Non-Anodised  
 (Pack of 50) x 3



#### Milling Consumables Package

CPMILLO1

10 Hour 50 Student

Acrylic Billet 6" x 2.75" x 0.25" x 50  
 Acrylic Billet 4" x 2.75" x 0.25" x 150  
 Double Sided Tape x 2



**Milling Consumables Package**

30 Hour 50 Student

CPMILLO2

Protofoam Billet 3" x 2.75" x 0.75" x 150  
 Protofoam Billet 1" x 1" x 1" x 50  
 Double Sided Tape x 3



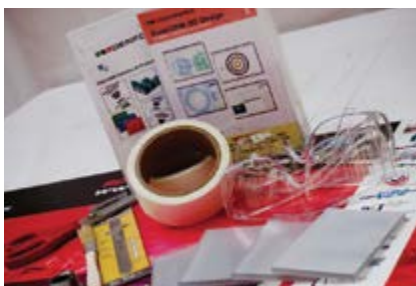
**Milling Consumables Package**

40 Hour 50 Student

CPMILLO3

Acrylic Billet 6" x 2.75" x 0.25" x 50  
 Acrylic Billet 4" x 2.75" x 0.25" x 400  
 Protofoam Billet 3" x 2.75" x 0.75" x 150  
 Protofoam Billet 1" x 1" x 1" x 50  
 Double Sided Tape x 5

**CURRICULUM PACKAGES**



**10 Hour Milling Curriculum and Consumables**

Milling Curriculum CD (10 Hour)  
 QuickCAM 2D Design (site licence)  
 CNC Milling Basics Software  
 Consumables Package 10 Hour Milling (50 Student)  
 Engraving Cutter 0.4mm (1/64") 1/8" Shank 45 Degree  
 Toolholder 1/8" Dia Bore  
 Swarf Brush, Scissors, Safety Glasses x 2, 6" Steel Ruler

PKM10



**30 Hour Milling Curriculum and Consumables**

Milling Curriculum CD (30 Hour)  
 CNC Milling Basics Software  
 Consumables Package 30 Hour Milling (50 Student)  
 Milling Vice  
 Swarf Brush, Scissors, Safety Glasses x 2, 6" Steel Ruler  
 3" Engineers Square, Ball Pein Hammer 1/4oz

PKM30



**40 Hour Milling Curriculum and Consumables**

Milling Curriculum CD (10 Hour)  
 Milling Curriculum CD (30 Hour)  
 CNC Milling Basics Software  
 Consumables Package 10 Hour Milling (50 Student)  
 Consumables Package 30 Hour Milling (50 Student)  
 Milling Vice  
 Swarf Brush, Scissors, Safety Glasses x 2, 6" Steel Ruler  
 3" Engineers Square, Ball Pein Hammer 1/4oz

PKM40



# Denford Consumables

## TOOLING, CONSUMABLES & CURRICULUM PACKAGES



### **10 Hour Router Curriculum and Consumables**

PKR10

Router Curriculum CD (10 Hour)  
DXF Graphics CD (10 Hour Curriculum)  
QuickCAM 2D Design (site licence)  
Consumables Package 10 Hour Router (50 Students)  
5/32" Dia. 1/4" Shank Router Plunge Bit  
Safety Glasses x 2



### **10 Hour Turning Curriculum and Consumables**

PKT10

Turning Curriculum CD (10 Hour)  
QuickTURN 2D Design (site licence)  
Consumables Package 10 Hour Turning (50 Students)  
Swarf Brush  
6" Steel Ruler  
Safety Glasses x 2



## **MANUFACTURING PACKAGE**

### **F1 in Schools Car Manufacturing Package**

MPF101

F1 Model Block Car Kit x 25 Sets  
F1 in Schools Car Manufacturing Fixture  
Dust Pro 50 Extraction Unit **110v**  
Virtual Wind Tunnel Software (single seat)  
QuickCam Pro (site licence)  
1/4" Dia Ball Nose L/S 2 Flute Cutter (Solid Carbide)  
Paint Stand x 2, Safety Glasses x 2