

**RDM**

UK's **Nº1**  
industrial ovens manufacturer

**engineering**



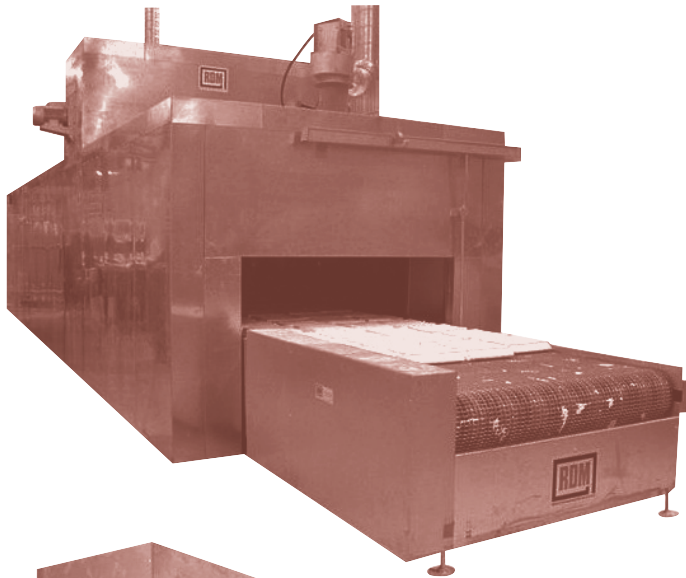
**MINI  
BOX OVENS**

**WALK IN  
OVENS**

**EXTRA HEIGHT  
OVENS**

**TUNNEL  
OVENS**

**CONVEYOR  
OVENS**



**RDM ENGINEERING**

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A division of RDM Industrial Services Ltd.

The *definitive* guide to industrial ovens

OVEN PRICE GUIDE

## Industrial ovens, an introduction.

All RDM Engineering ovens are designed and manufactured using modular principles. This ensures maximum consistency of quality, minimum cost to the customer, rapid production, a vast range of standard oven sizes; yet permits the versatility and flexibility to tailor an individual oven to meet a customer's exact needs. You can specify precisely the oven you need, not simply choose from a list of what is available.

All models in the RDM range can be specified for standard temperature operation or for high-temperature duties. For purposes of discrimination in this guide, standard temperature operation is taken to be up to 250°C; whilst high temperature is assumed to be up to 480°C.

A Box oven is to be a freestanding unit used to heat or cure products in batches. A batch is loaded into the oven; the oven's operational cycle takes place; the batch is unloaded. A single door, pair of doors or multiple doors are all possible, for speedy and simple loading/unloading.

A Tunnel oven describes an oven integrated into a continuous production process, usually implying a conveyor, whether belt type or overhead chain type. Products are carried on the conveyor into the pre-heated oven. During the travel time they are exposed to the constant heat of the oven. The length of the curing cycle dictates the conveyor speed.

A Multi-pass oven is a tunnel oven through which the conveyor system carries the same products several times, in order to achieve the curing time, or in order to carry out cyclical heating and cooling cycles.

All RDM box ovens incorporate a pressurised solvent and fume exhaust system and triple safety control system as standard – automatically to purge newly-painted products of excess paint and solvent vapours prior to the curing cycle beginning.

Explosion-relief panels are standard in all RDM ovens.

Every RDM oven can be specified to operate with a choice of fuels. Electricity, natural or bottled gas and steam are the normal direct-heating options: oil-fired burners offer an extra option for indirect heating using a heat exchanger. Gas is invariably the most cost-efficient fuel source and constant fuel/air ratio ensures the highest thermal efficiency. RDM's optional Cruzeburn digital temperature modulation facility enables users to achieve a greater degree of cyclic flexibility.

RDM's design of forced air circulation ensures the highest standards of consistency within the oven. Normal operational temperatures in RDM ovens are 30 to 400°C, but higher temperatures can be accommodated on request. Every RDM tunnel-oven is fitted with Airsurround seals at each and every aperture.

Standard digital operational controls include: pre-set temperature; timer; thermometer; alarm and emergency stop. Options include fully-automatic process timer; ramping control; 24hr/7 day control; pen recording systems; over-temperature alarm and over-time alarm. Special operational controls and recorders can be provided.

Every RDM oven is fully tested and calibrated before handover takes place. Once properly installed, every oven is guaranteed for 12 months, covering parts and labour.

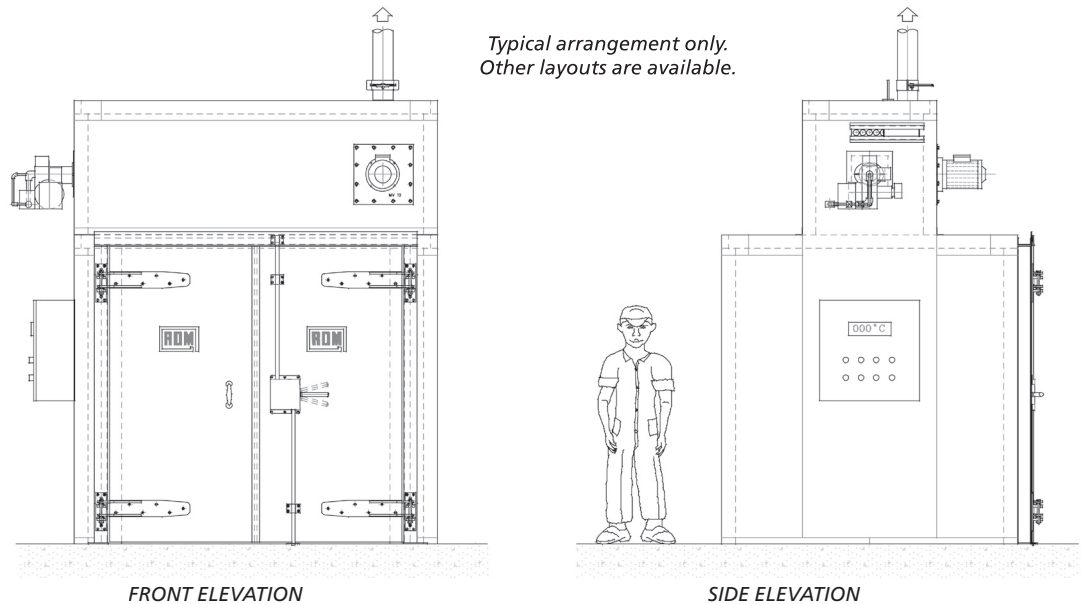


## Standard Box Oven Range

2.2m and 2.4m interior headroom

### NOTES:

- Remember ovens of any size can be produced by our modular technology.
- These box ovens are supplied in modular form and are assembled, wired and tested on site.
- All RDM ovens include a pressurised solvent and fume exhaust system and triple safety control system as standard.



STANDARD MODELS UP TO 250°C. Versions up to 500°C are available.

Model	Internal sizes (Metres)			Prices in £ Sterling		Extra for	Extra for
	Height	Depth	Width	*Gas	Electric	Doors at rear	400mm taller
mar211	2.2	1.0	1.0	£11,998	£13,698	£1,250	£240
mar2151	2.2	1.5	1.0	£12,350	£13,990	£1,250	£300
mar21515	2.2	1.5	1.5	£12,990	£14,690	£1,600	£360
mar221	2.2	2.0	1.0	£12,705	£14,398	£1,250	£360
mar2215	2.2	2.0	1.5	£13,368	£15,068	£1,600	£420
mar222	2.2	2.0	2.0	£13,990	£15,690	£1,800	£480
mar2325	2.2	3.0	2.5	£14,998	£16,927	£1,900	£660
mar232	2.2	3.0	2.0	£14,780	£16,708	£1,800	£600
mar233	2.2	3.0	3.0	£16,250	£17,999	£2,500	£720
mar242	2.2	4.0	2.0	£15,890	£17,818	£1,800	£720
mar243	2.2	4.0	3.0	£16,950	£18,878	£2,500	£840

\*Steam or Oil Heating available.

**On Site Installation Package.** The price includes assembly of the equipment on a suitable, smooth, level and clear site; the supply and fitting of Duct work to suit a roof height of up to 6 metres. We also include full Electrical interwiring from the locally mounted Control Panel up to the Motors, Burners/Heaters, Probes and Pressure Switches etc. The price includes commissioning, testing and providing Certification of Performance.

**Optional additional features.** (Special control systems are also available.)

Fully automatic process run timer with alarm   **£240**

24 Hour 7 Day start up timer   **£298**

6 channel paperless data logger 6100E   **£1,980**

CRUZEBURN digital temperature modulation   **£1,990** (Gas versions. Electric P.O.A.)

Site delivery at added cost.

Standard Warranty, 12 Months 'No Quibble'. Prices exclude VAT.

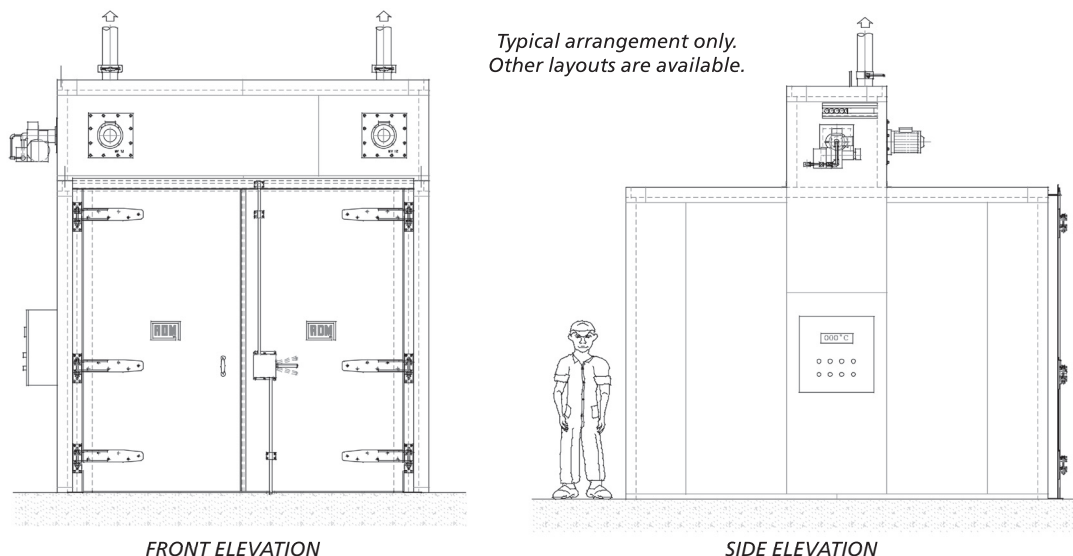
## Extra-Height Box Oven range

3m and 3.4m interior headroom

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### NOTES:

- Remember ovens of any size can be produced by our modular technology.
- These box ovens are supplied in modular form and are assembled, wired and tested on site.
- All RDM ovens include a pressurised solvent and fume exhaust system and triple safety control system as standard.



STANDARD MODELS UP TO 250°C. Versions up to 500°C are available.

Model	Internal sizes (Metres)			Prices in £ Sterling		Extra for	Extra for
	Height	Depth	Width	*Gas	Electric	Doors at rear	400mm taller
sat3215	3.0	2.0	1.5	£14,998	£16,996	£2,200	£560
sat322	3.0	2.0	2.0	£15,950	£17,840	£2,500	£640
sat2315	3.0	3.0	1.5	£15,996	£17,920	£2,200	£720
sat232	3.0	3.0	2.0	£16,750	£18,630	£2,500	£800
sat333	3.0	3.0	3.0	£18,760	£20,550	£2,900	£960
sat342	3.0	4.0	2.0	£18,750	£21,250	£2,500	£960
sat343	3.0	4.0	3.0	£20,480	£22,960	£2,900	£1,120
sat344	3.0	4.0	4.0	£22,560	£24,990	£3,300	£1,280
sat353	3.0	5.0	3.0	£21,940	£24,440	£2,900	£1,280
sat354	3.0	5.0	4.0	£23,960	£26,460	£3,300	£1,440
sat355	3.0	5.0	5.0	£25,899	£28,550	£3,900	£1,600

\*Steam or Oil Heating available.

**On Site Installation Package.** The price includes assembly of the equipment on a suitable, smooth, level and clear site; the supply and fitting of Duct work to suit a roof height of up to 6 metres. We also include full Electrical interwiring from the locally mounted Control Panel up to the Motors, Burners/Heaters, Probes and Pressure Switches etc. The price includes commissioning, testing and providing Certification of Performance.

**Optional additional features.** (Special control systems are also available.)

Fully automatic process run timer with alarm	£240
24 Hour 7 Day start up timer	£298
6 channel paperless data logger 6100E	£1,980
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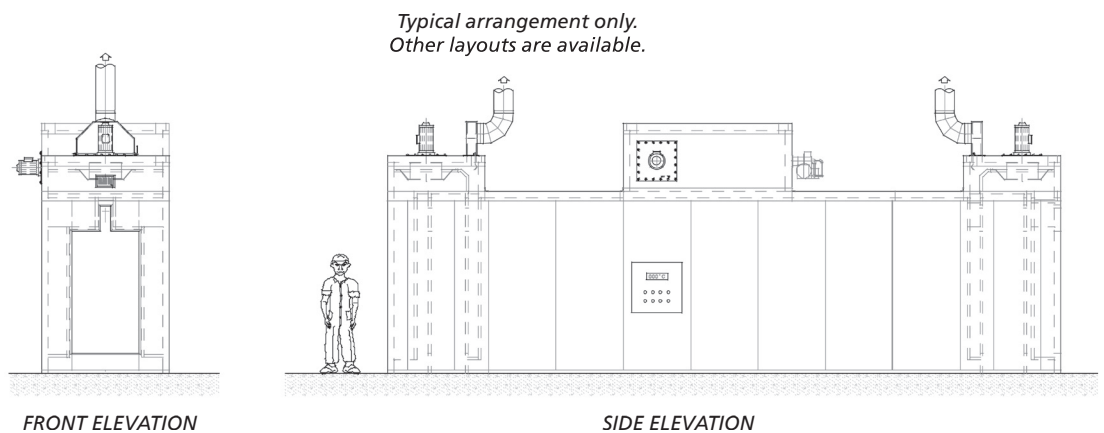
THE DEFINITIVE GUIDE TO  
**OVENS**  
FROM



## Single Pass Conveyor Tunnel Oven Range

### NOTES:

- THE PRICE EXCLUDES THE CONVEYOR, WHICH MUST BE PRICED SEPARATELY.
- Remember ovens of any size can be produced by our modular technology.
- Tunnel ovens are supplied in modular form and are assembled, wired and tested on site.
- All RDM conveyor ovens include a full AIRSURROUND air seal system at each aperture.
- All RDM ovens include a pressurised solvent and fume exhaust system and triple safety control system as standard.



STANDARD MODELS UP TO 225°C. Versions up to 350°C are available.

Model	Internal sizes (Mtrs)			Prices in £ Sterling	
	Height	Depth	Width	*Gas	Electric
jup261	2.4	6.0	1.0	£21,990	Prices upon application.
jup281	2.4	8.0	1.0	£23,850	
jup2101	2.4	10.0	1.5	£27,490	
jup2141	2.4	14.0	1.5	£29,991	
jup2181	2.4	18.0	1.5	£35,960	
jup2101	2.4	22.0	1.5	£40,250	
jup361	3.0	6.0	1.0	£24,491	
jup381	3.0	8.0	1.0	£26,343	
jup3101	3.0	10.0	1.5	£29,745	
jup3141	3.0	14.0	1.5	£36,860	
jup3181	3.0	18.0	1.5	£40,992	
jup3201	3.0	22.0	1.5	£46,990	

\*Steam or Oil Heating available.

**On Site Installation Package.** The price includes assembly of the equipment on a suitable, smooth, level and clear site; the supply and fitting of Duct work to suit a roof height of up to 6 metres. We also include full Electrical interwiring from the locally mounted Control Panel up to the Motors, Burners/Heaters, Probes and Pressure Switches etc. The price includes commissioning, testing and providing Certification of Performance.

**Optional additional features.** (Special control systems are also available.)

24 Hour 7 Day start up timer **£298**  
 6 channel paperless data logger 6100E **£1,980**  
 CRUZEBURN digital temperature modulation **£2,250** (Gas versions. Electric P.O.A.)

Site delivery at added cost.

Standard Warranty, 12 Months 'No Quibble'. Prices exclude VAT.

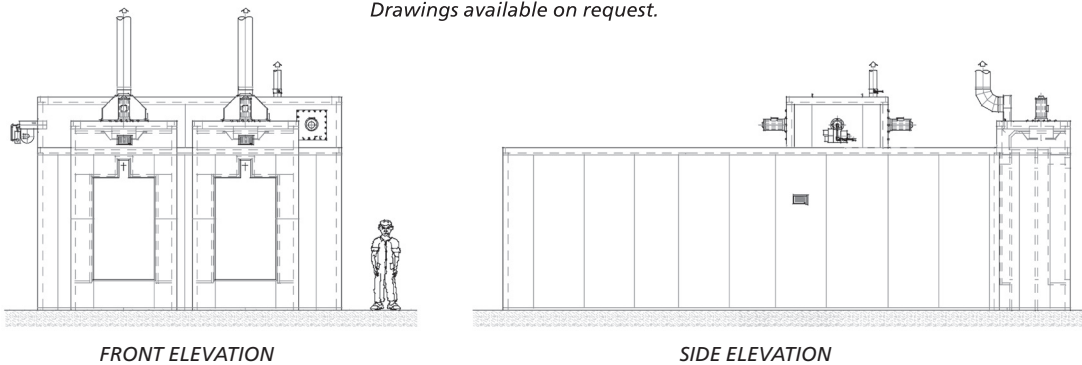
## Multi-Pass Conveyor Tunnel Oven range

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### NOTES:

- THE PRICE EXCLUDES THE CONVEYOR, WHICH MUST BE PRICED SEPARATELY.
- Remember ovens of any size can be produced by our modular technology.
- Supplied in modular form and are assembled, wired and tested on site.
- All RDM Conveyor ovens include a full AIRSURROUND air seal system at each aperture.
- All RDM ovens include a pressurised solvent and fume exhaust system and triple safety control system as standard.

*Typical arrangement only.  
Other layouts are available.  
Drawings available on request.*



STANDARD MODELS UP TO 225°C. Versions up to 350°C are available.

Model	Internal sizes (Metres)			Prices in £ Sterling	
	Height	Depth	Width	*Gas	Electric
nep261	2.4	4.0	3.0	£24,360	Prices upon application.
nep281	2.4	6.0	3.0	£26,890	
nep2101	2.4	8.0	3.0	£30,955	
nep2141	2.4	10.0	4.0	£34,690	
nep361	3.0	6.0	3.0	£28,790	
nep381	3.0	8.0	3.0	£33,670	
nep3101	3.0	10.0	4.0	£40,960	

\*Steam or Oil Heating available.

**On Site Installation Package.** The price includes assembly of the equipment on a suitable, smooth, level and clear site; the supply and fitting of Duct work to suit a roof height of up to 6 metres. We also include full Electrical interwiring from the locally mounted Control Panel up to the Motors, Burners/Heaters, Probes and Pressure Switches etc. The price includes commissioning, testing and providing Certification of Performance.

**Optional additional features.** (Special control systems are also available.)

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 6 channel paperless data logger 6100E **£1,980**  
 CRUZEBURN digital temperature modulation **£2,250** (Gas versions. Electric P.O.A.)  
 Site delivery at added cost.  
 Standard Warranty, 12 Months 'No Quibble'. Prices exclude VAT.

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 FROM



## Designed & Built to Work for You

### SAFETY AND QUALITY

The majority of the oven roof area comprises special panelwork which is specifically designed to disintegrate harmlessly and vent to atmosphere should an explosion occur within the oven. RDM employ a unique CNC manufacturing technique whereby the necessary perforations are punched directly into the inner skins using an aesthetic 45mm hexaform tool.

Oven doors are of double-skinned steel construction with mineral wool filling. They sit in a deep frame to prevent heat escape. The doors incorporate very robust cast hinges with bearings and a locking bar mechanism with external and internal safety handles.

Ovens with vertical lift doors have kick-out emergency escape panels.

Heating is via integrated fully-insulated heater boxes. The fully insulated heater box prevents radiated heat from being projected into the oven or factory areas in any uncontrolled manner.

An independent auxiliary temperature controller is fitted to all RDM ovens and is set as an over-temperature safety cut-out.

A powerful, fully-adjustable, fan-pressurised, fume exhaust and solvent evaporation system is supplied as standard.

All RDM ovens are designed and built to ISO 9001 and carry the CE Mark.

### CONSTRUCTION

All modular panels are manufactured from double-skinned galvanised steel, with mineral-wool insulation fill for the highest thermal performance. Stainless steel or Aludip panels can be specified as an option.

Access/loading doors can be located for the customer's convenience. Similarly, hatches, viewing panels, etc can be fitted if required.

Choice of oven size is dictated by the product size and volume of throughput. An oversize oven is uneconomic in fuel consumption. Similarly an oversize burner fitted with a bigger fan is going to use more fuel than the correct unit.

### INSTALLATION

Care must be taken to provide ample safe space around the oven for operators and trolleys loaded with product. The oven location must provide safe clearance with all doors fully open.

Ducting and pipework must comply with all current regulations, including Environmental Protection law.

RDM can provide a full installation and commissioning service. Our **On-Site Installation Package** covers all aspects including assembly onto a suitably-prepared site, oven/motor wiring, duct work (up to 6 metres roof height), commissioning and testing, as well as an authenticated Certificate of Performance.

### SERVICING AND MAINTENANCE

RDM will be pleased to service and maintain your oven on a regular basis. Please ask for details. Where companies prefer to carry out their own work, it is important to note that regular oven servicing is vital, especially on matters of safety and on the question of product quality if the oven is being used to cure wet paint or powder coated items. Slight variations in temperature inside the oven space can result in poor paint finish. Only regular attention to burners, fans and vents can ensure sustained high quality.



ISO 9001: 2008 Certificate No. 1919/99



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· ON-SITE ASSESSMENTS · HEALTH & SAFETY TRAINING · MACHINE GUARDING · DRIVLOC™ MOTOR BRAKING ·

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