

THWAITES + REED®

1740

Thwaites & Reed Clockmakers Ltd

Clockmakers

www.thwaites-reed.co.uk



**Complete
Clock
Management**

Big Ben
maintained for over 30 years
by Thwaites & Reed

Clocks

**New Manufacture
Conservation and Restoration
Maintenance and Servicing
Manufacturers Spare Parts
Modern Designs
Facilities Management
Advice and Inspections**

**Turret
Conservation**



The Great Clock of the Palace of Westminster
(Big Ben)

Commercial



St Pancras Station

**Domestic and
Antique**



Barwise



Thwaites



Elliott

*The Signs
of Quality*



The Thwaites family have been clockmakers since at least the 17th century...

There are Thwaites clock drawings from 1610..... (2006) Geoffrey Buggins MBE Royal Clockmaker (rtd) and family descendant



Editors note : The historic records are now on loan to The London Metropolitan Archives.

Aynsworth Thwaites established his clockmaking firm in 1740, and his first documented major clock was for **Horseguards, London** which was the main clock for London for over 100 years until **Big Ben** was built.



Each year underneath the clock the colourful pageantry of Trooping the Colour takes place on the Queens's Official Birthday in June.

Thwaites became a Freeman of The Clockmakers Company in 1751. His sons established Thwaites & Reed with a relative, George Jeremiah Reed.

In 1790 the Thwaites and Buggins families joined in marriage. Today's world famous business was for many years holders of the Royal Warrant by Queen Elizabeth II.

The Tradition continues for over 30 years we maintained **Big Ben**



Today our clockmakers continue to make domestic and public clocks and provide heritage standards of restoration and maintenance available to everyone



Royal Courts of Justice



Brighton Railway Station

Thwaites & Reed England

1.6.2003



Moorfields Eye Hospital
dedicated by The Queen in the Millenium 2000.

The many Heritage Clocks we made over hundreds of years, gives us unrivalled expertise.



Queen Victoria Building Australia



Congreve Science Museum London



The Presidents House Trinidad



Donde Smithsonian Institute USA

Public and Commercial Clock Services

CUSTOMER CARE

We continue to service clocks we made in 1740 and pride ourselves on our service record and availability.

If you need us

Guaranteed workmanship and new materials for a minimum of one year. Our service contracts are straight forward and give you peace of mind for up to 5 years and can be at a fixed annual rate for Government Departments and Institutions.

Service Contracts

Annual maintenance with regulation for British Summer Time and Greenwich Mean Time.

Emergency Call Outs

24 hour, 7 day a week emergency attendance, should it be required.

All Inclusive Packages

Complete restorations of existing clocks and the installation of new clocks with servicing and financing over 5 years.

TURRET, CHURCH AND PUBLIC CLOCKS

Specialised turret clock restoration and maintenance for mechanical or electric installations, dials and hands in compliance with best practice and the guidelines supported by English Heritage, The National Trust, The UK Institute of Conservation, The Council for the Care of Churches.

Some clocks may have been extensively altered, often electric motors have been connected. We are able to recondition original mechanical parts and later additions to current standards.

Autowinding

It is common for mechanical clocks to be wound by electric motors whilst preserving the mechanical working of the clock. We can design and install autowinds on the endless chain system which has proven longevity and no adverse affects on the integrity of the clock.

Bells

The maintenance of cast bells and the installation of electronic bell broadcastings can be incorporated as part of our service.

Night Silencers

Electric night silencers can be fitted to existing mechanical bell hammers.

Dials

All types of dials and hands can be renovated, re-gilded or painted. Using traditional hand skills we can replicate hands and dials beyond repair.

New build enables us to demonstrate our design capabilities making unique dials.

COMMERCIAL CLOCKS

We are able to design, install and maintain clock systems based on the latest technology, incorporating existing clocks if required, and using our clockmaking skills to provide not just a technology based clock, but one which will also be aesthetically pleasing which is very important for reception areas and where design leaves a good impression.

Synchronous Movements

Relatively inexpensive timekeeping systems using a synchronous mains motor can drive dials up to 10ft. in diameter. These clocks are very reliable time keepers and require minimum maintenance. Provided the mains electricity supply is maintained, the clock will be very accurate.

Quartz Master Clock Systems

These modern systems are ideal for any clock system requiring more than one dial. They are particularly suitable for offices, schools and institutions requiring clocks in many rooms. The system consists of a very accurate Master Clock which impulses to the slave clocks. One master can control many slaves and can also be provided with either battery standby or memory correction feature. Both these ensure that the resetting of clocks due to power failure is a thing of the past and will allow for power failure for up to 24 hours. These units can drive dials of up to 2400mm in diameter and come in a multitude of style and designs.

Radio Control

This feature is available on Quartz Master Clocks and individual clock units It provides long wave reception of time signals which correct the clock and maintain remarkable accuracy. Specialised units with battery lives rated for 5 years are available for inaccessible

clocks. Global Positioning Signals in place of long wave time signals are available for sites which cannot receive the radio signals.

SERVICES TO FACILITIES MANAGERS AND MAIN CONTRACTORS

Turnkey Service.

New Build or Refurbishment.

Full clock and system design, mechanical and electrical specifications, including all procurement, fabrication, and installation.

Warranted servicing, planned maintenance and inspection.

Stable costs including fixed price 5 year contracts.

Clock Facilities Management

For single or multiple sites where it is important that clocks are synchronised and well maintained, we offer a tailor made contract incorporating planned maintenance, on-call or on-site clock engineers and comprehensive work-shop and technical backup.

Conservation and Restoration.

We comply with the guidelines on conservation of clocks published by The Council for the Care of Churches, The UK Institute of Conservation and English Heritage, and fully support the conventions of The Venice Charter.

Sub Contracts

Health & Safety compliance with your health & safety requirements, in addition to our own, which include Risk Assessments
Safe Work Methods
Full Personal Protection Equipment
COSHH Observance
CONDAM Supervision
Personnel Training
Contract Terms
Security cleared own trained personnel
CISs567ICTA 1998 out of scope

Thwaites & Reed

Tel: 0845 230 1740

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TRADITIONAL AND MODERN

NEW DESIGN

Modern GRP low maintenance dials with electronic drive



London Design Studio

GRP self coloured dial with an electric movement



Ministry of Defence

Steel twin dial cantilevered advertising feature fully installed with a low maintenance electric movement



Professional offices

RESTORATION

Traditional hand made dial with hand cut hour and minute hands to be fitted onto an antique movement



British Museum

A total restoration of a cantilevered drum clock



High Street Jewellers in a Conservation Area

Exceptional Quality conservation of a complicated mechanical movement



Royal Courts of Justice

MAINTENANCE

On or Off Site repairs and maintenance with call out and full cover for good timekeeping



Mechanical Flatbed

Late 20th C type found in Churches and Conservation listed buildings

English Heritage Grade 1 Conservation



HM Customs & Excise

Annual maintenance (before repair!)



Royal National Lifeboat Institute

Automata three dial clock with chime and strike mechanism. Now a landmark clock.



Fortnum & Mason

Automatic winding of gravity weight turret clocks.

Thwaites & Reed have made bespoke electric autowinders for many years, and before that had mechanical devices to make winding heavy weights easier.



DESIGN

Our unique Climbing Monkey design has proven longevity, with 30 year old installations still operating smoothly. This design operates on the principle of continuous power provided by a motor climbing a continuous loop of chain. It replicates the gentle power which original weights provided to the clock. There is no known case of this type of autowind damaging original mechanisms. It has the additional benefit of providing limited power reserve in the event of an interruption of the electricity supply and only requiring a simple annual service.

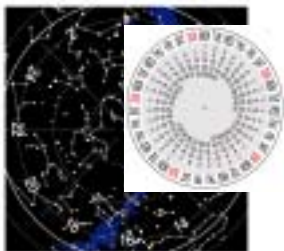
Night Silencers for bells are often installed with autowinders

FABRICATION and INSTALLATION



Design from Concepts.

From rough sketches or undimensioned drawings, these are worked up into prototypes and then into working mechanical parts ready for installation into clocks.



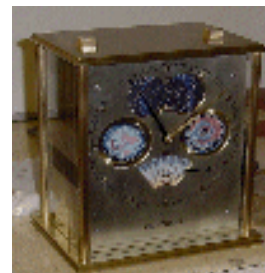
Thwaites & Reed have made bespoke clocks since they began in 1740.



Clocks with many complications are possible, and Thwaites & Reed can offer practical advice and skills to provide manufacturing specifications to establish the manufacturing process and cost.



BESPOKE CLOCKMAKING



MASTERPIECE DOMESTIC CLOCKS

Popular Elliott Styles



1016



chinoiserie
lacquer



5453



402

Popular Thwaites & Reed Styles



Original cal 21
Barwise
carriage clock



Mechanical
timepieces in high
quality brass and
gold plated cases



Skeleton Condliffe
pendulum strike

As early as 1610 Thwaites were designing clocks and from an early time specialised in making clocks for many famous contemporaries, including Ellicott, Perigal, Dutton, Vulliamy, Grant, and Earnshaw. Today that tradition continues with Thwaites & Reed servicing the needs of many well known UK jewellers and international designer collections such as the Franklin Mint and Asprey Garrards.

A comprehensive repair service from routine maintenance to full conservation is available for all types of quality clocks and antiques.

Past Commissions and Designs

