

Tempotec

Your reliable partner for optical components!



ISO 9001:2008 certified by SGS

Our Mission: Through Continuous Improvement, Technology Advancement, and Employee Development, our Goal is to provide the Highest Quality Products and Service and to create Maximum Value for Our Customers.



Founded

2005-2-17

Location:

Located in Fuzhou, Fujian Province in eastern China,
1 hour flight from Hong Kong or Shanghai, face to face to Taiwan.

Facilities:

Area: 15000ft²

Clean room: 600ft²

Employees

Headcount 70 (mfg 50, eng & ad 20)



2011, By adding more machine and equipments, Tempotec capability is increased much. Annual output more than 500Kpcs.

2010, Annual revenue reach 1 million.

2010-12, Move to the new building. Larger production capability.

2010-8, Pass the audit by SGS for ISO9001:2008 cetificate.

2008-8, Pass the audit by SGS for ISO9001:2000 certificate.

2007-6, Starting to set up complete documents system by ISO requirement.

2005-11, Double sides polishing line is setup.

2005-5, In house coating capability is established.

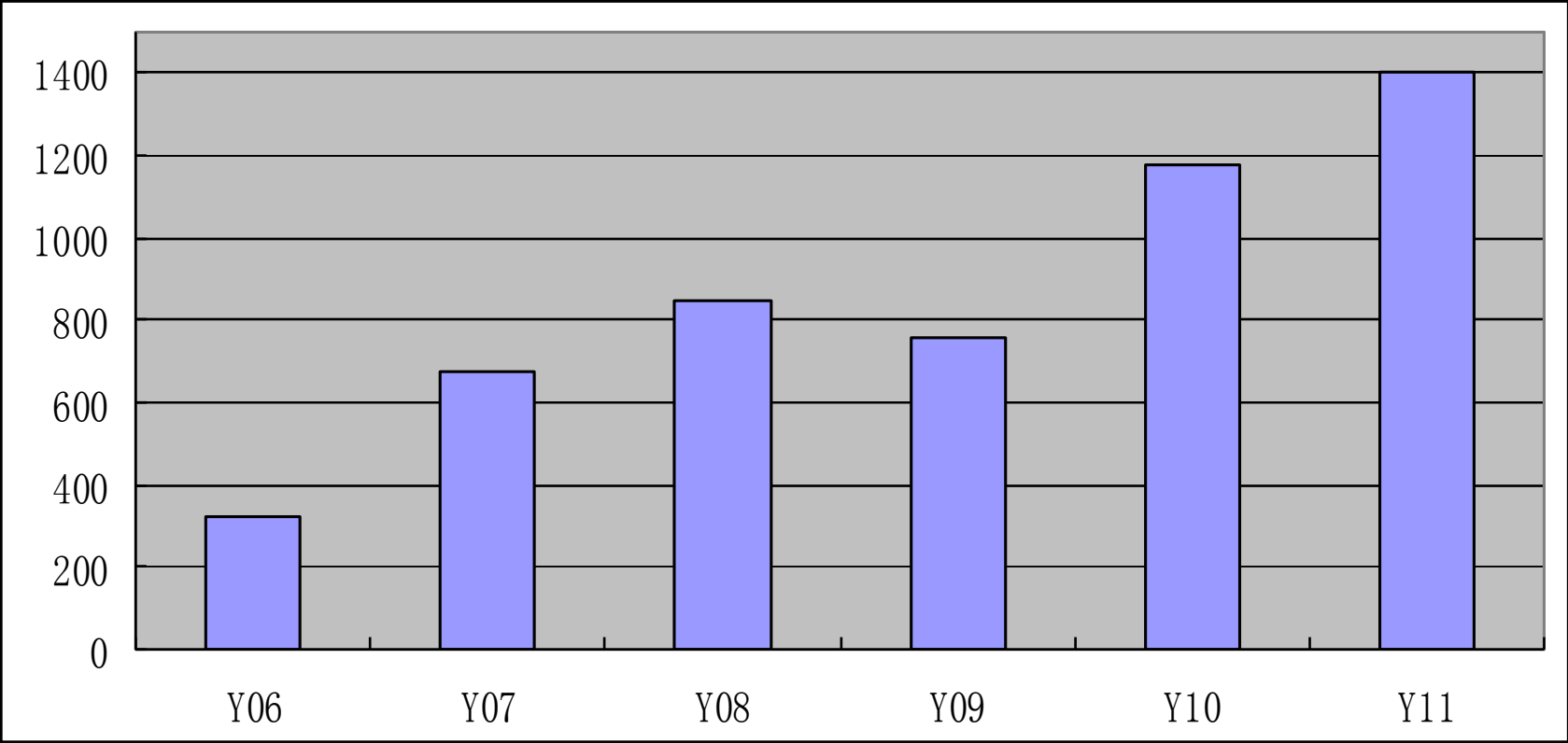
2005-4, Plano optics (windows and prisms) product line set up.

2005-2, Tempotec is founded under the laws of P.R China.



Revenue

Tempotec Annual revenue chart (unit KUSD)



BK7 optical glass

Fused silica

Crystal quartz

Float glass

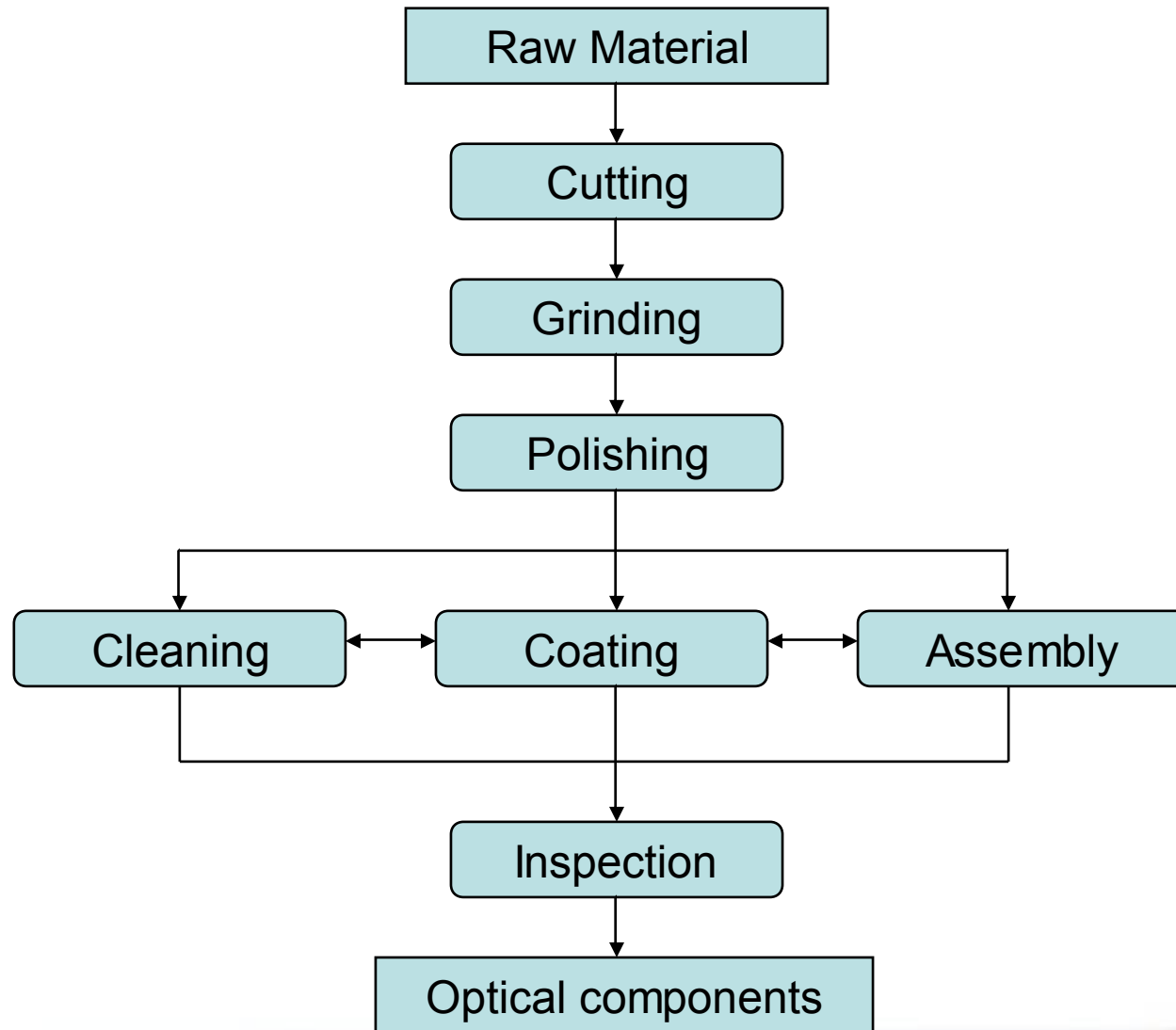
Colored filter glass

Sapphire

Other optical material

Customer provided material is also available.





Optical components manufacturing capability

Dimension Tolerance: *Commonly $\pm 0.1\text{mm}$; Up to $\pm 0.0003\text{mm}$*

Angle Tolerance : *Commonly $\pm 3'$; Up to $\pm 3''$*

Parallelism : *Commonly $\pm 1'$; Up to $\pm 0.5''$*

Flatness : *Commonly $\lambda/4@632.8\text{nm}$; Up to $\lambda/15@632.8\text{nm}$*

Wavefront Distortion : *Commonly $\lambda/4@632.8\text{nm}$; Up to $\lambda/20@632.8\text{nm}$*

Surface Quality: *Commonly 60-40 scratch and dig; Up to 10-5 scratch and dig*

Retardation Tolerance: *Up to $\lambda/500$*

Production Capability:

Output >350Kpcs optical components in year 2009

Output >500Kpcs optical components in year 2010

Output >500Kpcs optical components in year 2011



Optical coating capability

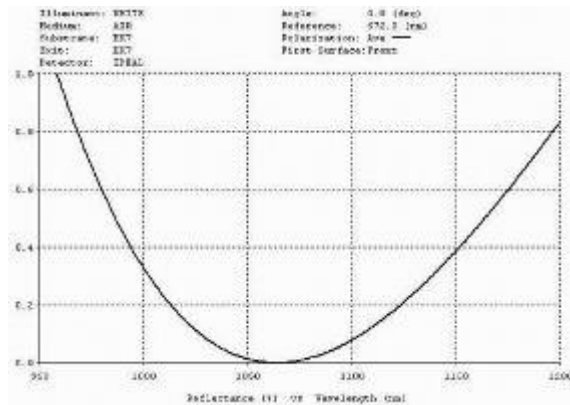


2 domestic coater
500pcs per run (for 1 inch plate)

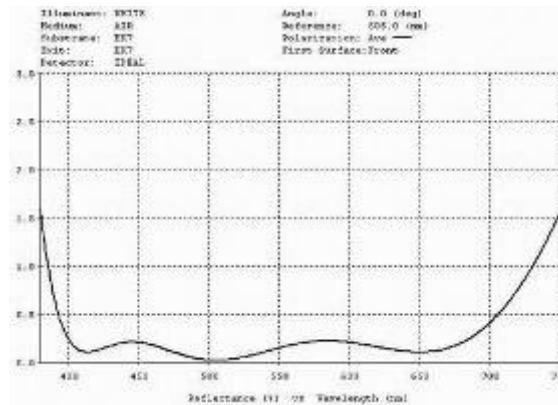
Single Layer MgF2 AR Coating	Multilayer AR Coating
Broadband AR Coating	Metal (Al, Ag or Au) Coating
Multilayer Dielectric HR Coating	Polarizing Beamsplitter Coating
Cut off filter Coating	Bandpass filter coating

Wavelength: Visible: OK
NIR: OK
UV: OK
DUV: No Capability

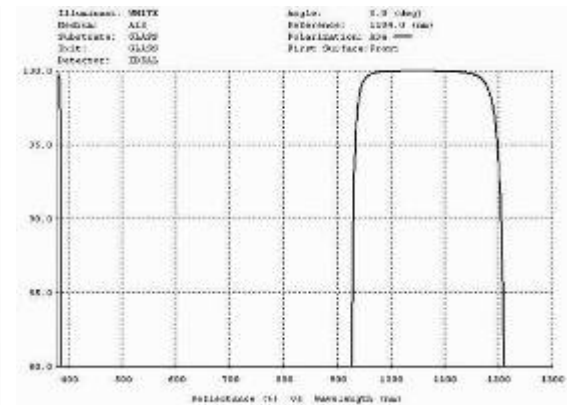
Example Curves:



AR R<0.1%@1064nm



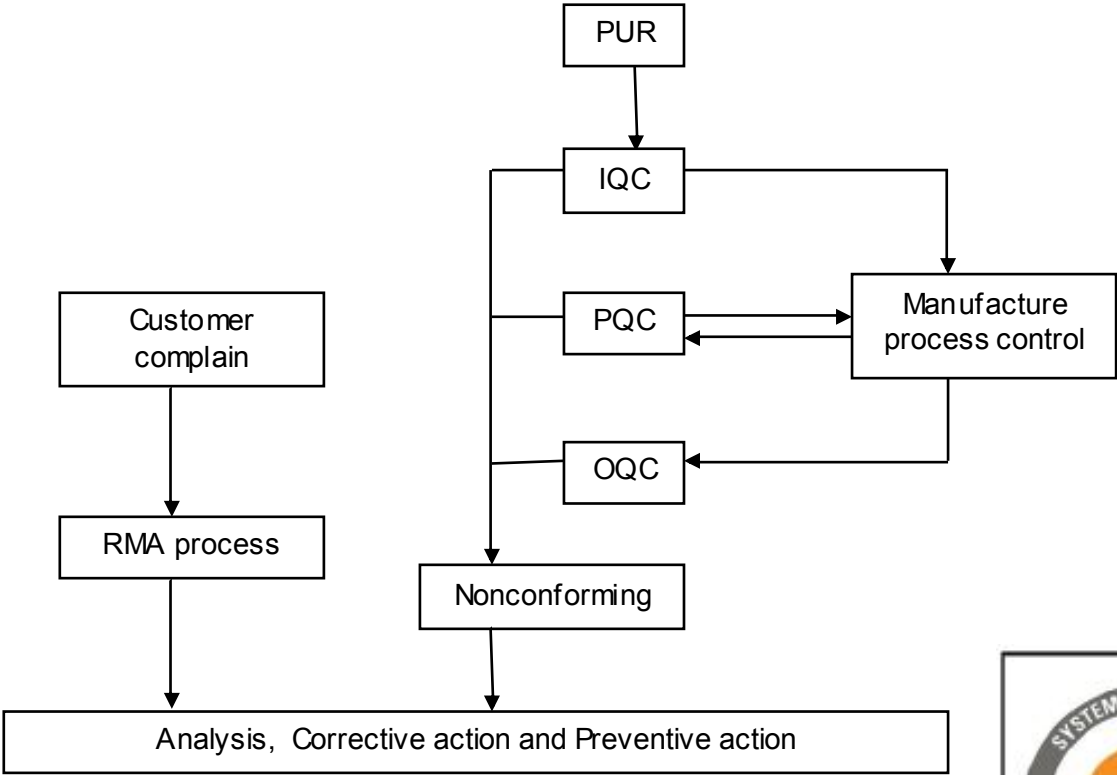
BBAR R<0.5%@400~700nm



HR R>99.8%@1064nm



Quality Control



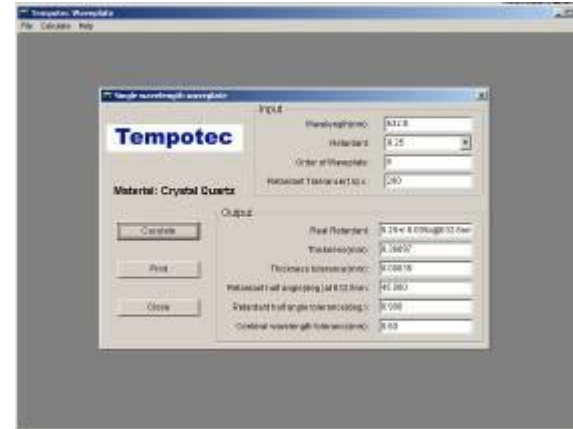
Tempotec is ISO9001:2008 certified by SGS.



Waveplate

- Material: Crystal quartz
- Low order waveplate
- Zero order waveplate
- High precision
- AR coating is available
- Quantity: 500pcs/month (1 inch plate)

Waveplate design software



- Material:Crystal Quartz
- Dimension Tolerance:.....+0.0, -0.2 mm
- Wavefront Distortion:$1/8$ @ 632.8 nm
- Retardation: $\lambda/8, \lambda/4, \lambda/2, \text{ or } \lambda$ (typical)
- Retardation Tolerance: up to $\lambda/500$
- Wavelength Range:240-2100 nm
- Parallelism: Up to 1 arc second
- Surface Quality: 20-10 scratch and dig (typical)



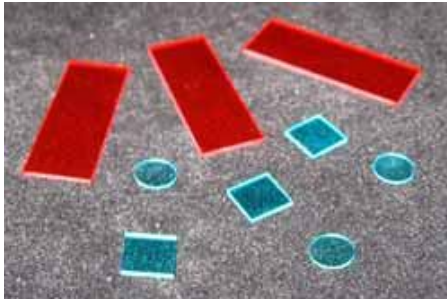
Optical Windows



Commercial or precision grade
Circular or Square
Size: 2mm ~ 200mm
Mass production capability
AR coating is available
Quantity: 15K per month

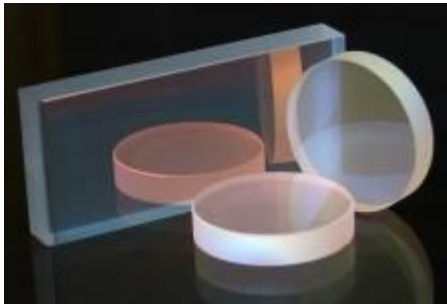
Material: BK7, Fused Silica, Float Glass, sapphire, MgF2
Diameter tolerance: +0.0/-0.1mm
Thickness tolerance: +/-0.2mm
Clear aperture: >80%
Parallelism: < 20 arc seconds
Surface quality: 60-40 (Typical) up to 10-5 scratch and dig
Wavefront distortion: L/4 (Typical) up to L/10@632.8nm
Protective Bevel





Filter

Bandpass filter
Colored glass filter
Birefringent filter
Size: 2mm ~ 200mm



Mirror

Dielectric coated Mirror
Metal coated mirror



Beamsplitter

Beamsplitter plate
Beamsplitter cube
Polarizing beamsplitter



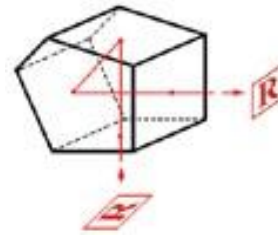
High Quality
Fast Delivery



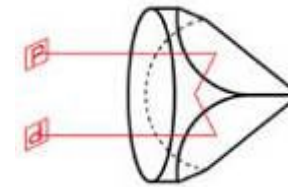
Best Service
Competitive Price



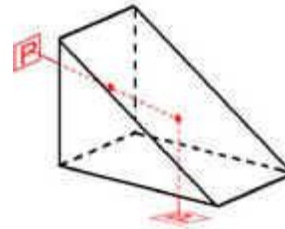
Prisms



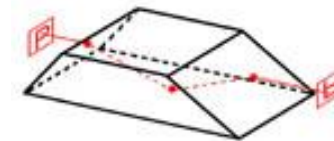
Penta



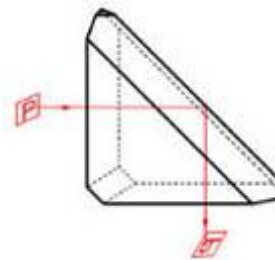
Corner cube



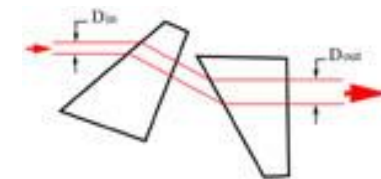
Right angle



Dove



Roof



Anamorphic

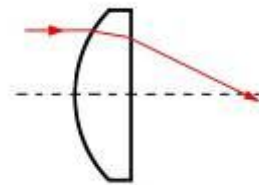
Typical specifications:

Material: BK7 glass or UV fused silica
Dimension Tolerance: +0.0, -0.2 mm
Clear Aperture: >80%
Beam deviation: 3', 1' or 30"
Flatness: $\lambda/2$ @632.8 nm
Surface Quality: 60-40 scratch and dig
Protective Bevel
Coating is available

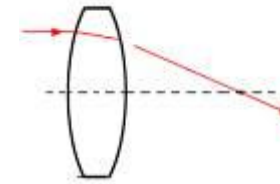
High Quality
Fast Delivery

Best Service
Competitive Price

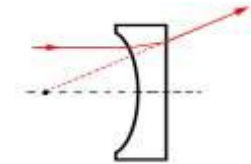
Lenses



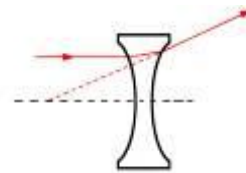
Plano convex



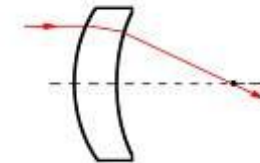
Double convex



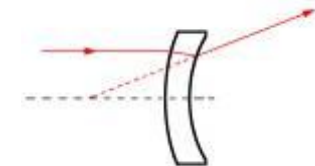
Plano concave



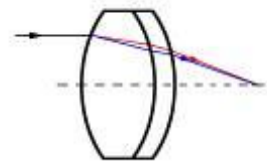
Double concave



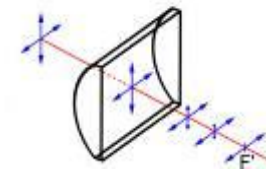
Positive Meniscus



Negative Meniscus



Achromatic



Cylindrical



Mount

Typical specifications:

Material: BK7 or Fused silica

Diameter Tolerance: +0.0, -0.15mm

Paraxial Focal Length: $\pm 2\%$

Centration: 3 arc minutes

Clear Aperture: $>80\%$

Surface Irregularity: $1/4 @ 632.8\text{nm}$

Surface Quality: 60-40 scratch and dig

AR coating is available

High Quality
Fast Delivery

Best Service
Competitive Price

Surveying Instruments

Laser

Medical instruments

Graphics

Display

Telecom

Electronics

Research



*High Quality
Fast Delivery*



*Best Service
Competitive Price*



Short Delivery

Customer Service

Quality

Innovation

Low Cost



Tempotec

Your reliable partner for optical components!

Thanks!

