

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

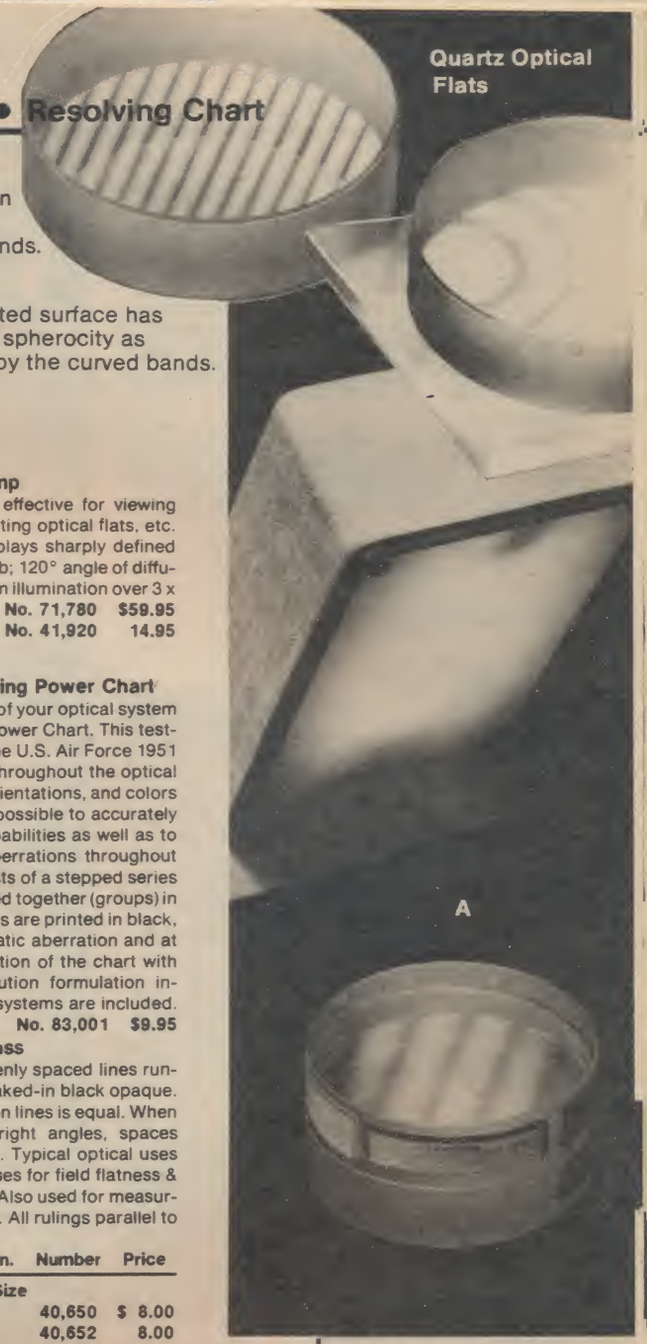
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
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Expert team | Trust guarantee | 100% satisfaction

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Visit our website - *Click HERE*

Optical Flats • Precision Flat Mirrors • Ronchi Rulings • Resolving Chart



Quartz Optical Flats

- **Low Priced**
- **In Stock**
- **Certified Accuracies**
- **Top Quality**
- **American Made**
- **1/10 Wave**

Optical Flat Theory. Whenever light rays from one source are made to travel along two different optical paths and later allowed to recombine, the two rays will interfere with each other to produce observable and measurable interference effects. An optical flat is a precision flat reflecting surface against which the flatness of another surface may be compared.

What An Optical Flat Shows. When an optical flat is placed on a surface to be tested (under monochromatic light), dark and bright lines appear. These are called "interference bands" and are contour maps of the work surface. The amount the bands curve, with reference to distance between them, indicates the amount of flatness error. Straight, parallel, and evenly spaced bands mean the work surface is accurately flat.

Applications. Optical flats are versatile devices for measuring surface flatness of polished areas by determining variations between work surfaces and surface of the optical flat; inspecting gage blocks for wear and accuracy; and testing prisms, filters, optical windows, etc.

Free Optical Flat Booklet by Fred Abbott
This 16-page informative booklet details optical flat theory, use and applications. Included free with every optical flat purchase or yours free just by asking for this booklet.
No. 9880 FREE

Quality Optical Flats

Single surface flats of clear fused quartz with certified optical accuracies of 0.000002" (1/10 wave) or better. The second surface is felt polished for fine viewing of interference patterns. All edges are ground and chamfered. Flats made of quartz are superior due to their very low thermal expansion and have greater resistance to abrasion. Each is interferometrically controlled in production and furnished with a certification of its accuracy.

Dia.	Thickness ±.040"	Wave	Number	Price
1"	½"	1/10	1913	$ 33.95
2	½	1/10	1914	59.95
3	¾	1/10	1915	89.95
4	¾	1/10	1611	179.95
6	1	1/10	1612	379.95

Precision Flat Mirrors

• Aluminized Optical Flats

Made from high quality optical flats, these mirrors have the same guaranteed accuracies as our quartz optical flats . . . 0.000002" (1/10 wave) or better. These flats are aluminized and then overcoated. Exceptionally good for laser applications and holography, also in telescopes, siderostats, coelostats, and as reflectors for autocollimating photographic lenses and telescope lenses. Instructions included.

Number	Price	Dia.	Thick. ±0.040"	Wave
1919	$ 39.95	1"	½"	1/10
1920	64.95	2	½	1/10
1921	99.95	3	⅝	1/10
1615	209.95	4	¾	1/10
1616	419.95	6	1	1/10

Elliptical Mirrors
Telescope quality 1/8 wave flat mirrors

Number	Price	Minor Axis	Thickness
30,836	$ 7.95	⅞"	¼"
30,260	6.95	1 1/16"	¼"
30,205	7.95	1¼"	⅜"
30,258	13.95	1½"	⅜"
30,840	24.95	1⅞"	⅜"
41,131	39.95	2¼"	⅜"
42,583	43.95	2⅝"	⅜"
42,584	56.95	3"	⅜"

Contact our National Sales Department for quantity pricing on mirrors listed above.

(A) Low-Cost Monochromatic Lamp

Portable 20 lumen light source. Very effective for viewing Brewster's Fringes, Newton's rings, testing optical flats, etc. Green filtered gas discharge lamp displays sharply defined interference fringes. 1200 starts per bulb; 120° angle of diffusion, 4 watts, 5460A wavelength, uniform illumination over 3 x 5" window; 115V AC. **No. 71,780 $59.95**
Replacement Bulb No. 41,920 14.95

(B) The Edmund Scientific Resolving Power Chart

Test the total performance capabilities of your optical system with the Edmund Scientific Resolving Power Chart. This testing pattern contains reproductions of the U.S. Air Force 1951 Test Pattern that is now the standard throughout the optical industry. The several sizes, positions, orientations, and colors of the 25 individual charts will make it possible to accurately assess your system's performance capabilities as well as to determine the effects of chromatic aberrations throughout the field of view. The USAF chart consists of a stepped series of three bar patterns (elements) arranged together (groups) in an orderly sequence. These test patterns are printed in black, red, yellow, and blue to test for chromatic aberration and at 90° for testing astigmatism. A description of the chart with standard resolution values and resolution formulation instructions for cameras and telescopic systems are included. 36" x 24" in size. **No. 83,001 $9.95**

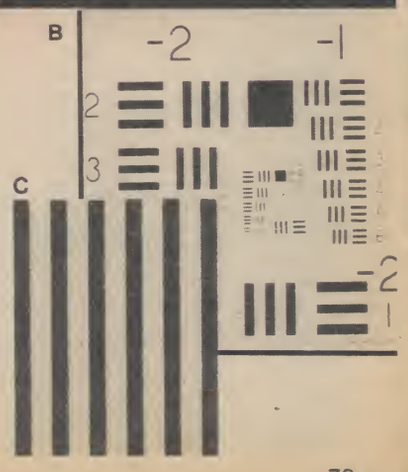
(C) Ronchi Rulings Etched On Glass

Ronchi rulings are glass plates with evenly spaced lines running parallel to each other, filled with baked-in black opaque. Each line width and space width between lines is equal. When 2 rulings are placed in contact at right angles, spaces between lines become perfect squares. Typical optical uses include: making light gates; testing lenses for field flatness & as a wavelength scale in spectroscopy. Also used for measuring and calibrating microscopes in labs. All rulings parallel to the edge of the plate.

Lines/In.	Number	Price	Lines/In.	Number	Price
1 x 1" Size			**2 x 2" Size**		
50	30,511	$2.05	50	40,650	$ 8.00
80	30,512	2.05	80	40,652	8.00
100	30,513	2.05	100	40,654	8.00
133	30,514	2.95	133	40,656	11.50
150	30,515	2.95	150	40,658	11.50
200	30,516	2.95	200	40,660	11.50
250	30,517	4.25	250	40,662	16.00
300	30,518	4.25	300	40,664	16.00
4 x 4" Size			**6 x 6" Size**		
50	40,651	$27.25	50	40,668	$61.25
80	40,653	27.25	80	40,669	61.25
100	40,655	27.25	100	40,670	61.25
133	40,657	38.95	133	40,671	86.25
150	40,659	38.95	150	40,672	86.25
200	40,661	38.95	200	40,673	86.25
250	40,663	54.50			
300	40,665	54.50			

Originals! 500 Line Ronchi Rulings

Original masters, metallic filled on 1 x 2" glass, ¼" thick! 50-50 ratio of black to clear, parallel to 1" edge, one line every 0.002", accurate to 0.0002". Slightly out of specs (less than 0.0001"), ordinarily worth much more. **No. 40,737 $45.00**



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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