

International Union of Crystallography

Commission on Crystallographic Apparatus

Index of Crystallographic Supplies: Supplement to the Third Edition (1972)

Edited by REUBEN RUDMAN, *Chemistry Department, Adelphi University, Garden City, New York 11530, USA*

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The Third Edition of the *Index of Crystallographic Supplies* was published in 1972 as a 120-page booklet (including advertisements). The following tables are a *Supplement* to this *Index* and, therefore, should be used in conjunction with the Third Edition.*

The Third Edition consists of two main sections: *Apparatus List* and *List of Manufacturers and Suppliers*. In the first section, the *Apparatus List*, each item of apparatus is followed by a list of keywords which identify those companies listing that item in their product line. The second section is a list of companies, alphabetically arranged according to the keyword. Following each company's name and address is a list of all the sections in the apparatus list in which that company is found.

This *Supplement* follows the same format as the Third Edition, and includes the following information: companies not listed in the Third Edition; change of name, address, or product line; and identification of those companies known to have gone out of business.

Table 1 contains a list of the keywords for every company listed in the Third Edition and this *Supplement*. If the keyword is followed by the number 1 it means that that company returned the recent questionnaire and that the information in the Third Edition remains current. The number 7 indicates that the questionnaire was not returned and no further information is available. The meanings of the other numbers are found in the notes to Table 1.

Table 2(a) is a list of the categories of apparatus that were not included in the Third Edition. Table 2(b) is the *Supplementary Apparatus List* and should be used in conjunction with the *Apparatus List* in the Third Edition.

Table 3 is the *Supplement to the List of Manufacturers and Suppliers* and should be consulted for new addresses and products. In the case of changes in product lines only the additional products have been included in Table 3. This table is therefore also to be used in conjunction with the second section of the Third Edition.

The information included in the Third Edition and in this supplement is based on data furnished by the individual manufacturers. Neither the International Union of Crystallography nor the Commission on Crystallographic Apparatus assumes any responsibility for the accuracy of the information.

Finally, we would like to direct the attention of the crystallographic community to excellent review articles covering specific items of crystallographic apparatus. These articles are prepared by D. Lewis and co-workers and appear from time to time in the *Journal of Physics, E*. For example, see *J. Phys. E.* (1974) **7**, 76 and (1976) **9**, 1036.

The editor acknowledges the assistance and contributions of D. Lewis and the members of this commission.

* Copies of the Third Edition of the *Index of Crystallographic Supplies* are currently available from Bohn, Scheltema and Holkema, Emmalaan 27, Utrecht, The Netherlands and from Polycrystal Book Service, PO Box 11567, Pittsburgh, PA, 15238, USA. Reprints of this Supplement can be obtained from The Executive Secretary, International Union of Crystallography, 13 White Friars, Chester CH1 1NZ, England.

Table 1. *Keywords of all companies listed in the Third Edition and/or the Supplement*

Consult Tables 2 and/or 3 if the keyword is followed by any number other than 1, 6 or 7.

Key

1. Questionnaire returned by company; no change from Third Edition.
2. Product line has been expanded, see Table 2.
3. Change in Address of the Main Office, see Table 3.
4. Change in Branch or Affiliate, see Table 3.
5. First-time listing in the Index, see Tables 2 and 3.
6. Questionnaire returned by Post Office as undeliverable to address found in Third Edition – no forwarding address. Company may be out-of-business.
7. No response was received to the questionnaire; no further information is available.
8. Company out-of-business. See Table 3 for cross-references if business activities were transferred to another company.
9. Company changed name or transferred its business to another firm. See Table 3 for cross-reference.

ACE 2,3	ADOX 1	AEI 7	AEISC 5
AGFA 1	AIR-PRO 1	AMSON 5	ALTON 3
ANDONIAN 6	ANDREWS 7	ATOMERGIC 7	ATOM-MECH 7
BAIRD 2,3	BARKER 7	BARRAY 2,3	BEAUDOUIN 7
BEEVERS 3	BELCO 2	BERTHOLD 2,3	BHS 5
BICRON 1	BLAKE 2,3	BLISS 6	BRANDENBURG 5
CANBERRA 7	CARBIDE 1	CATALIN 7	CCF 5
CEAV 1	CERAC 7	CHANDOS 5	CGR 7
CHANCE 7	CHEMTREE 7	CIT 5	COLUMBIA 7
CORNING 7	CRESCENT 7	CRYOFAB 7	CRYOGENIC 1
CRYOTECH 7	CRYS-DATA 1	CRYS-STRUC 2,3	CUTROCK 8
DIANO 5	DIGI-LOG 6	DOW 7	DUNLEE 7
DUPONT 7	EALING 1	E & A 8	ECKO 7
EEV 7	ELLIOTT 9	ELSCINT 7	EMI 7
ENRAF 2,3,4	ES 7	ESSEX 5	ESI 5
ESPI 7	ESTRU 5	FERRANIA 1	FRATELLI 7
FUJII 1	GAERTNER 1	GAF 1	GAGNE 6
GALLENKAMP 7	GE 8	GEVAERT 1	GOODFELLOW 2,3
G-RAND 5	GRIAK 2,3	GRIFFIN 7	GUILLEMINOT 1
HARSHAW 7	HIGH-PRES 1	HITACHI 7	HORIBA 5
HUBBARD 7	HUBER 2,4	HUMPHREY 6	IICS 7
ILFORD 1	INCEN-LAR 7	INCEN-RES 7	INST-PHY 3
IPT 3	ISOMET 6	ITAL 5	JCPDS 2
JEM 7	JENAER 7	JEOL 7	JOHNSON 7
JOHN 5	J-P 5	JOYCE 7	KENNARD 7
KEVEX 7	KLINGER 3	KODAK 1	KONISHIROKU 1
KRANTZ 7	KULLNIG 5	KYNOCH 1	LABGEAR 7
LABTRONICS 7	LAKE 5	LEMONT 2,3	LEVYWEST 7
LEYBOLD 7	LND 7	MACHLETT 4	MANLABS 5
MARCO 5	MAR-EL 5	MACKAY 7	MCCRONE 5
McLEAN 8	MDC 5	METALO-GLASS 7	METZ 7
MILLIPORE 1	MINI 5	MMM 7	MRA 5
MRC 2,4	MS 7	MSC 5	MUNKSGAARD 1
NBS 1	NEC 7	NEN 7	NESLAB 2
NIES 1	NORELCO 2,3	NUC-DIODE 7	NUC-EN 7
NUC-SERVICE 7	OFFICINA 2,3	OOSTHOEK 9	OPTRONICS 1
OPTW 7	ORTEC 7	OXFORD 7	PAAR 2

Table 1. (cont.)

PANAX 7	PANMUIR 5	PDSC 6	PERUTZ 7
PHILIPS 2,3	PHOTO-METRIC 7	PICKER 8	PITCHFORD 7
POLAROID 1	POLY-CRYSTAL 1	PRINCETON 3	PYE 7
QUARTZ 7	RADIOCHEM 7	RAEBIGER 3,4	RANK 6
RIGAKU 7	RON-J 6	SAAB 7	SAIP 6
SAPHYMO 7	SECASI 8	SEIFERT 7	SHIMADZU 5
SIEMENS 2,4	SPEX 4	SRI 5	SRM 3
ST JOHN 7	STOE 2,3,4	SUPPER 2	SYLVANIA 1
SYNTEX 2,4	TAYLOR 7	TCE 3	TECH-OPS 9
TELEDYNE 2	TEMPRES 7	TENNELEC 5	THERMAL 5
TOSHIBA 7	TRACERLAB 7	TRACO 7	VICTOREEN 1
V/K 3,4	WALLAC 5	WENZEL 7	WHITHEAR 5
WINDINGS 5	WOOD 1	ZEISS 1	

Table 2. *Supplementary Product List*

(a) New products, not listed in Third Edition

III. H.	Primary Beam Monitor
J.	Pin-Hole Camera
IV. J.	Position Sensitive Detector
V. D. 2.	Thin Film Camera
G. 3. j	Automatic Sample Changer
VI. B. 10.	Apparatus for Cutting Large Crystals
VII. H.	Collimators
X. D.	Vacuum Chamber
XI. A.	Small-Angle Scattering
D.	X-Ray Texture Camera (for Thin Films)
XII. F.	Crystal-Structure Determination Service
XIII.	Used Equipment – Sales and Service

(b) List of apparatus and manufacturers not listed in the Third Edition. For meaning of Type-of-Apparatus Code see Table 2(a) and the Third Edition.

Type of Apparatus	Keywords
I. A.	G-RAND, MDC, OFFICINA, WALLAC
B. 1.	CHANDOS, CRYS-STRUC, GOODFELLOW, MDC, OFFICINA
2.	BARRAY, CRYS-STRUC, ITAL, MDC, SRI
4.	BARRAY, CRYS-STRUC, ITAL, MDC
C.	J-P, OFFICINA
1.	BERTHOLD, CRYS-STRUC, ESI, G-RAND, ITAL, JOHN, MINI, WALLAC
2.	BERTHOLD, BRANDENBURG, ESI, G-RAND, JOHN, WALLAC
3.	TELEDYNE
II.	CHANDOS, CRYS-STRUC, ESSEX, G-RAND, ITAL, MAR-EL, MDC, OFFICINA, SHIMADZU, SRI, WINDINGS
III. A.	BAIRD
B.	BLAKE, CRYS-STRUC, ITAL, MAR-EL, MDC, OFFICINA
C.	CHANDOS, CRYS-STRUC, ITAL, MAR-EL, OFFICINA
D.	CHANDOS, ITAL, MAR-EL, OFFICINA
E. 1.	BARRAY, CRYS-STRUC
3.	CRYS-STRUC
F.	BLAKE, CHANDOS, G-RAND, HORIBA, HUBER, ITAL, MANLABS, MDC, PAAR

Table 2 (cont.)

	H.	G-RAND, NORELCO, PAAR		B.	CRYSTRUC, ITAL
	J.	PAAR		1.	G-RAND, HUBER, OFFICINA
IV.	A.	BLAKE, CRYSTRUC, ITAL, MDC, OFFICINA		2.	G-RAND, OFFICINA, SUPPER
	C.	BLAKE, OFFICINA		3.	SUPPER
	D.	BLAKE, CRYSTRUC, HUBER, ITAL, OFFICINA, STOE		C.	CHANDOS, CRYSTRUC, G-RAND, ITAL, OFFICINA, SRI
	E.	BLAKE, ITAL, MARCO, OFFICINA, SRI, SYNTAX		D.	CHANDOS, CRYSTRUC, G-RAND, ITAL, OFFICINA
	F.	BLAKE, BRANDENBURG, CHANDOS, CRYSTRUC, ESI, G-RAND, HORIBA, ITAL, JOHN, MAR-EL, MDC, MINI, OFFICINA, STOE, TENNELEC, WALLAC		E.	G-RAND
	G.	BRANDENBURG, ESI, G-RAND, HORIBA, ITAL, MDC	VIII.	H.	GRIAK
	H.	BRANDENBURG, CRYSTRUC, ESI, G-RAND, HORIBA, ITAL, J-P, MDC, OFFICINA, STOE, WALLAC		A.	BLAKE, CRYSTRUC, G-RAND, ITAL, MAR-EL, SRI
	J.	G-RAND, MAR-EL, SIEMENS, SYNTAX, TENNELEC		B.	1. b. BLAKE, G-RAND, HUBER, OFFICINA, MDC, STOE
V.	A.	ACE, McCRONE, NORELCO		C.	MAR-EL, OFFICINA
	6.	BLAKE, CRYSTRUC, G-RAND, HUBER, SUPPER, THERMAL		F.	1. G-RAND, ITAL, J-P, MDC, PANMUIR, TENNELEC ITAL, J-P, MDC
	B.	2. CHANDOS, CRYSTRUC, G-RAND, HUBER, ITAL, McCRONE, OFFICINA, SRI, SUPPER	IX.	2.	BAIRD, CRYSTRUC, ESI, G-RAND, HUBER, ITAL, J-P, MAR-EL, MDC, PAAR, STOE
	8.	BLAKE, CRYSTRUC		B.	CRYSTRUC, MDC, NORELCO
	C.	BLAKE, CRYSTRUC, GRIAK, ITAL, OFFICINA	X.	A.	CRYSTRUC, G-RAND, HUBER, LAKE, MRC, OFFICINA, PAAR, PHILIPS, SUPPER
	D.	BLAKE, G-RAND, ITAL, OFFICINA, STOE		B.	CHANDOS, G-RAND, HUBER, ITAL, LEMONT, NESLABS, NORELCO, OFFICINA, PAAR
	2.	HUBER		C.	BLAKE, G-RAND, NESLABS, PAAR
	E.	CHANDOS, CRYSTRUC, G-RAND, ITAL, OFFICINA, STOE		D.	BLAKE, CIT, CRYSTRUC, G-RAND, MRC, MDC, NORELCO, PAAR, PHILIPS, SYNTAX
	F.	CHANDOS, G-RAND, ITAL, OFFICINA, PANMUIR, SHIMADZU	XI.	A.	BLAKE, CHANDOS, G-RAND, HUBER, MAR-EL, McCRONE, MDC, NORELCO, OFFICINA, PAAR
	G.	CHANDOS, CRYSTRUC, G-RAND, ITAL, MAR-EL, McCRONE, OFFICINA, SHIMADZU, STOE		B.	G-RAND, ITAL, MANLABS, MAR-EL, OFFICINA, SHIMADZU
	3. b.	LEMONT		D.	BLAKE, G-RAND, GRIAK, MAR-EL, NORELCO, OFFICINA, SIEMENS, SRI
	j.	MANLABS, NORELCO, PHILIPS, SHIMADZU	XII.	A.	1. AMSOM, BHS, JCPDS
	H.	G-RAND, MDC, NORELCO, PHILIPS		2.	AMSOM, CCF
	J.	G-RAND		B.	BHS, ENRAF, G-RAND, MSC, PAAR, PHILIPS, SIEMENS
VI.	B.	2. ACE, CRYSTRUC, McCRONE, OFFICINA		D.	CHANDOS, ESTRU, ITAL, MRA, MSC, WHITHEAR
	5.	G-RAND		3.	AMSOM
	6.	CHANDOS, CRYSTRUC, G-RAND		E.	3. STOE
	8.	BLAKE, CHANDOS, G-RAND, MDC		4.	BHS
	9.	CRYSTRUC, G-RAND, ITAL, MDC, OFFICINA		F.	KULLNIG, MRC, MSC
	10.	CRYSTRUC, MDC	XIII.		BELCO, BLAKE, ENRAF, G-RAND, MDC, NORELCO, SRI, SUPPER, SYNTAX
VII.	A.	CRYSTRUC, G-RAND, HUBER, ITAL, MANLABS, MDC, OFFICINA, PHILIPS			

Table 3. *Supplementary List of Manufacturers and Suppliers*

ACE	USA	Ace Plastic Co. Inc. 91-30 Van Wyck Expwy, Jamaica, NY 11435	V. A; VI. B
AEISC	USA	AEI Scientific Apparatus 500 Executive Blvd., Elmsford, NY 10523 (914) 592-4620	
AMSOM	USA	Amsom Program Tracor Jitco, Inc., 1776 E. Jefferson St., Rockville, MD 20852	XII. A, D
ALTON	UK	Alton Educational Models Cross and Company, Blackmoor, Liss, Hants., GU 33 6AA	
BAIRD	USA	Baird-Atomic, Inc. 125 Middlesex Turnpike, Bedford, Mass. 01730, (617) 276-6204	III. A; IX. A.
BARRAY	USA	Bar-Ray Products, Inc. 209-25 St., Brooklyn, NY 11232 (212) 965-7009	I. B; III. E.
BEEVERS	UK	Beevers Miniature Models Simon Square Centre, Pleasance, Edinburgh EH4 9HW, Scotland 031-667-6503	I. B; III. E.
BELCO	USA		XIII
BERTHOLD	Germany	Laboratorium Prof. Dr. Berthold Calmbacher Strasse 22, D-7547 Wildbad-1, Baden-Württemberg 070 81/3981	I. C.
BHS	Netherlands	Bohn, Scheltema & Holkema Emmalaan 27, Utrecht	XII. A, B, E.
BLAKE	USA	Blake Industries, Inc. 660 Jerusalem Road, Scotch Plains, NJ 07076 (201) 233-7240	III. B, F; IV. A, C, D, E, F; V. A, B, C, D; VI. B; VIII. A, B; X. C, D; XI. A, D; XIII.
BRANDENBURG	UK	Brandenburg Limited 939 London Road, Thornton Heath, Surrey CR4 6JE 01-689-0441	I. C; IV. F, G, H.
CCF	USA	Cambridge Crystal File Data Tape Computer Search Dr. K. K. Taylor, Chemistry Department, Brookhaven National Laboratory, Upton, NY 11973 (516) 345-4379	XII. A.
CHANDOS	UK	Chandos Intercontinental Chandos Works, High Street, New Mills Nr. Stockport, Cheshire SK12 4AN 0663 (New Mills, Derbyshire)-44344	I. B; II; III. C, D, F; IV. F; V. B, E, F, G; VI. B; VII. C, D; X. B; XI. A; XII. D.
CIT	France	CIT-Alcatel-Division Vide et Mécanique 41 Rue Perier, 92541 Montrouge Cedex 657.11.06	X. D.
	USA	Alcatel Vacuum Products 7 Pond Street, Hanover, Mass. 02339, (617) 826-4511	
CRYS-STRUC	UK	Crystal Structures, Ltd. Tunbridge Lane, Bottisham, Cambridge CB5 9EA 0223 (Cambridge)-811451/2	I. B, C; II; III. B, C, E; IV. A, D, F, H; V. A, B, C, E, G; VI. B; VII. A, B, C, D; VIII. A; IX. A, B; X. A, B.
CUTROCK DIANO	USA	See WHITHEAR Diano Corporation 8 Commonwealth Ave., Woburn, MA 01801 (617) 935-4310	
ELLIOTT ENRAF	Netherlands	See MAR-EL N. V. Verenigde Instrumentent fabrieken Enraf-Nonius Rontgenweg 1, Delft 015-56 92 30	XII. B; XIII.
	Denmark	Enraf-Nonius Scandinavia A/S Danasvej 2, 1910 Copenhagen V (01) - 245021	
	France	Enraf-Nonius France S. A., 3 Rue Troyon, 75017 Paris (01) - 754-3511	
	Germany	Enraf-Nonius GmbH, 565 Solingen-1, Postfach 101011 (02122) 15015	

Table 3 (cont.)

	UK	Enraf-Nonius, Ltd. High View House, 165 Station Road, Edgware, Middx. 01-952-1643	
	USA	Enraf-Nonius Service Co. 390 Central Avenue, Bohemia, NY 11716 (516) 589-2886 Sales: Kratos, Inc. AEI Sci. Instrum. 4075 Ruffin Road, San Diego, CA 92123 (714) 292-0925	
ESI	UK	ESI Nuclear Klempfern House, Holmesdale Road, Reigate, Surrey 07372 (Reigate) 49263	I. C; IV. F, G, H.
ESSEX	UK	Essex X-Ray and HT Equipment Co., Ltd. 17 Iliffe Yard, London SE17 3QA 01-703-3392	II.
ESTRU	Portugal	Estrutural Rua Almeida e Sousa 14-1ºE., Lisbon 3	XII. D.
GE		See DIANO	
GOODFELLOW	UK	Goodfellow Metals Cambridge, Ltd. Cambridge Science Park, Milton Road, Cambridge CB4 4DS 0223 (Cambridge)-69671	I. B.
G-RAND	USA	General Rand Corp 1081 Route 22, Bridgewater, NJ 08807 (201) 526-8511	I. A, C; II; III. F, H; IV. F, G, H, J; V. A, B, D, E, F, G, H, J; VI. B; VII. A, B, C, D, E; VIII. A, B, F; IX. A; X. A, B, C, D; XI. A, B, D; XII. B; XIII.
GRIAK	USA	Griak Scientific Co. P.O. Box 16, Waltham, Mass. 02154 (617) 893-7530	VII. H; XI. D.
HORIBA	Japan	Horiba, Ltd 2 Miyano Higashi Kisshom, Minami-Ku, Kyoto (075) 313-8121	III. F; IV. F, G, H.
	Germany	Horiba GmbH D-6000 Frankfurt/Main, 50 Zeilweg 9 0611-58-1034, 2057	
	USA	Horiba Instruments, Inc. 1021 Duryea Avenue, Irvine, CA 92714 (714) 540-7874	
HUBER	Germany USA & Canada Others	Address Unchanged See BLAKE Closest Siemens representative	III. F; IV. D; V. A, B, D; VII. A, B; VIII. B; IX. A; X. A, B; XI. A.
INST-PHY	UK	Institute of Physics, Publishing Division Techno House, Redcliffe Way, Bristol BS1 6NX 0272-297481	
IPT	Sweden	IPT Instrumentproduct Box 57, S 17222 Sundbyberg 08-291031	
ITAL	Italy	ITAL Structures Via S. Anna 6, 38066 Riva del Garda (Trento) 0464/53426	I. B, C; II; III. B, C, D, F; IV. A, D, E, F, G, H; V. B, C, D, E, F, G; VI. B; VII. A, B, C, D. VIII. A, F; IX. A, B; XI. B; XII. D.
JCPDS	USA		XII. A.
JOHN	USA	Wm. B. Johnson and Associates, Inc. Research Park, Montville, NJ 07045 (201) 334-9222	I. C; IV. F.
J-P	UK	J & P Engineering (Reading) Ltd. Portman House, Cardiff Road, Reading RG1 8JF Reading 598544	I. C; IV. H; VIII. F; IX. A.
JOYCE	UK USA	Address Unchanged see MARCO	

Table 3 (cont.)

KLINGER	USA	Klinger Educational Products Corp. 83-40 Parsons Blvd., Jamaica, NY 11432 (212) 297-8080	
KULLNIG	USA	Kullnig Laboratories R. D. 1, Nassau, NY 12123 (518) 766-3827	XII. F.
LAKE	USA	Lake Shore Cryotronics, Inc. 9631 Sandrock Road, Eden, NY 14057 (716) 992-3411	X. A.
	UK	Cryophysics Ltd. Thor Works, Henley Road, Berinsfield, Oxon 0865-340257	
	France	Cryophysics SA 3 rue Antoine Coypel, 78 Versailles (1) 950 65 78	
	Germany	Cryophysics GmbH Butzbacher Str. 6, 61 Darmstadt (6151) 7 60 51	
	Switzerland	Cryophysics SA 39, rue Rothschild, 1202 Geneva (22) 32 95 20	
LEMONT	USA	LeMont Scientific Inc. 1359 E. College Ave., State College, Pa 16801 (814) 238-8403	V. G; X. B.
MACHLETT	USA	Address Unchanged	
	Canada	Machlett Canada Ltd. 721 Petrolia Road, Downsview, Ontario M3J2N6 (416) 661-5858	
MANLABS	USA	MANLABS, Inc. 21 Erie St., Cambridge, Mass. 02139 (617) 491-2900	III. F; V. G; VII. A; XI. B.
MARCO	USA	Marco Scientific 1031 H East Duane Ave, Sunnyvale, CA 94086 (408) 739-9418	IV. E.
MAR-EL	UK	Marconi-Elliott Avionic Systems, Ltd. Elstree Way, Borehamwood, Hertfordshire WD6 1RX 01-953-2030	II; III. B, C, D; IV. F, J; V. G; VIII. A, C; IX. A; XI. A, B, D.
	USA	Diano Corporation 8 Commonwealth Avenue, Woburn, Mass. 01801	
	FRANCE	Cambridge Instruments Co., s.a.r.l. Centre d'Affaires, Paris Nord, B202-93153, Le Blanc Mesnil 010 331 931 01 34	
	GERMANY	Marconi Elektronik GmbH 6 Frankfurt/Main 70, Gartenstrasse 112 010 49 611 632028	
	UK	McCrone Research Associates Ltd. 2 McCrone Mews, Belsize Lane, London NW3 01-435 2282	
McCRONE	UK	See PANMUIR	V. A, B, G; VI. B; XI. A.
McLEAN	UK	See PANMUIR	
MDC	USA	Molecular Data Corporation 2869 Scarborough Road, Cleveland, OH 44118 (216) 932-4718	I. A, B; II; III. B, F; IV. A, G, H; V. H; VI; VII. A; VIII. B, F; IX. A, B, C; X. D; XI. A; XIII.
MINI	UK	Mini-Instruments Ltd. 8 Station Industrial Estate, Burnham-on-Crouch Essex, CMO 8RN 0621-783282	I. C; IV. F.
MRA	USA	MRA Corporation 466 Blue Hill Ave., Boston, Mass. 02121 (617) 442-2266	XII. D.
MRC	USA	See footnote* at end of table	X. A, D; XII. F.
MSC	USA	Molecular Structure Corporation P.O. Box DF, College Station, Texas 77840 (713) 693-9729	XII. B, D, F.
NESLABS	USA		X. B, C.

Table 3 (cont.)

NORELCO	USA	Philips Electronics Instruments 85 McKee Drive, Mahwah, NJ 07430 (201) 529-3800	V. G; XI. A.
OOSTHOEK OFFICINA	Netherlands Italy	See BHS Officina Elettrotecnica Di Tenno Apparecchi Scientifici Piazza Castello, 1, Tenno (Trento) 38060 0464-58623	I. A, B, C; II; III. B, C, D; IV. A, C, D, E, F, H; V. B, C, D, E, F, G; VI. B; VII. A, B, C, D; VIII. B, C; X. A, B; XI. A, B, D.
PAAR	Austria		III. F, H, J; IX. A; X. A, B, C, D; XI. A; XII. B.
PANMUIR	UK	Panmuir Instruments 31 The Broadway, Thatcham, Berkshire Thatcham 64890	V. G; VIII. F.
PHILIPS	Netherlands	N. V. Philips' Gloeilampen fabrieken Scientific & Industrial Equipment Division Lelyweg 1, Almelo 05490-18291 (Telex: 44191)	V. G, H; VII. A; X. A, D; XII. B.
	Others	Offices in 63 Countries – See footnote* at end of table	
	USA	See NORELCO	
PICKER	USA	Service and Parts for Picker Systems Ronald E. Stevens Analytical Instruments Co., 1358 South Robb Ct., Lakewood, CO 80226, USA (303) 988-0573	
PRINCETON	USA	Princeton Gamma-Tech, Inc. Washington St., Rocky Hill, NJ 08553 (609) 924-7310	
RAEBIGER	Germany	Paul Raebiger Flankenschanze 30–36, 100 Berlin 20 (030) 3335902	
	Japan	Address Unchanged	
	Sweden	Kebo AB S 16391 Spanga 08-76000 20	
	UK	Pantak (EMI) Ltd. Vale Road, Windsor SL 4 5JP, Berks. Windsor 55611	
	USA	see G-RAND	
SHIMADZU	Japan	Shimadzu Seisakusho Ltd. 1 Nishinokyo-Kuwabaracho, Nakagyo-ku, Kyoto 075-811-1111	II; V, F, G; XI. B.
	Germany	Shimadzu (Europa) GmbH 4000 Düsseldorf 1, Postfach 2706, Georg-Glockstr. 14 (0211) 841-9111	
	USA	Shimadzu GDNA 16921 S. Western Ave., Suite 102, Gardena, CA. 90247 (213) 321-9428	
SIEMENS	Germany	Address Unchanged	IV. J; XI. D; XII. B.
	Others	83 Branches & Foreign Affiliates – see footnote* at end of table	
	USA	Siemens Corporation 1 Computer Drive, Cherry Hill, NJ 08002 (609) 424-9212	
SPEX	USA	Address Unchanged	
	Germany	Spex Industries GmbH 7 Stuttgart 40, Weikersheimerstr. 15 (0711) 871240	
SRI	USA	Scientific Resources, Inc. 3300 Commercial Ave., Northbrook, Ill. 60062 (312) 489-2920	I. B; II; IV. E; V. B; VII. C; VIII. A; XI. D; XIII.
SRM	USA	Science Related Materials 10 S. Locust, Janesville, Wis. 53545 (608) 754-2118	

Table 3 (cont.)

STOE	Germany	Stoe & Cie, GmbH Hilpertstr. 10, P.O. Box 4110, D-6100 Darmstadt 1 (06151) 891225	IV. D, F, H; V. D, E G; VIII. B; IX. A; XII. E.
	UK	Stoe & Cie, GmbH Sinclair House, The Avenue, Ealing London, W 13	
SUPPER SYNTEX	USA	Address Unchanged	V. A, B; VII. B; X. A; XIII.
	USA	Jasco/Syntex	IV. E, J.
	Japan	Shin-Nichibo Building, 1-2-1, Sarugaku-Cho, Chiyoda-Ku, Tokyo 101	
	Sweden	Syntex Analytical Instruments AB Norrgardsvägen 101, 18400 Åkersberga 0764/63500	
	Switzerland	Scintag Morgenstrasse 27, 8620 Wetzikon	
TCE	UK	Centronic-20th Century Electronics Ltd. King Henry's Drive, New Addington, Croydon CR9 0BG 0689 (Lodge Hill)-42121/9 See MARCO	
TECH-OPS TELEDYNE	USA		I. C.
TENNELEC	USA	Tennelec, Inc. 601 Turnpike, Oak Ridge, Tenn. (615) 483-8404	IV. F, J; VIII. F.
	Others	See footnote* at end of table	
THERMAL	UK	Thermal Syndicate, Ltd. P.O. Box 6, Neptune Road, Wallsend, Tyne & Wear, NE28 6DG 0632 (Wallsend)-625311	V. A.
	Germany	Thermal Quarz-Schmelze GmbH 62 Wiesbaden 12, PO Box 129389	
	USA	Thermal American Fused Quartz Co. Montville, NJ 07045	
V/K	USSR	V/O Techsnabexport Smolenskaya-Sennaya 32/34, Moscow 1212000	
	Germany	Kurt Mitterfellner GmbH Scientific & Industrial Equipment D 6455 Erlensee, Kastellstr. 5, West Germany	
WALLAC	Finland	Wallac Oy Vähäheikkiläntie 37, 20810 Turku 81 921-359300	I. A, C; IV. F, H.
WHITHEAR	UK	Whithear Lapidary Co. 35 Manor Way, North Harrow HA2 6BZ, Middlesex 01-863-1919	XII. D.
WINDINGS	UK	Windings Ltd. 3 Chapel Lane, Arnold. Nottingham NG5 7DR Nottingham 268341	II.

* Many branches and/or affiliates; contact main office for complete list.