

Handbook of **Metric Drive Components**

Precision and Commercial

Catalog 780

CONTENTS		PAGE
Introduction		ii
Part Number Index		ix
Reference Tables		R-1
Technical Section		T-1
SECTION	PRODUCTS	
1	Gears	1-1
2	Belt & Chain Drive Components	2-1
3	Shafting	3-1
4	Shaft Accessories	4-1
5	Bearings	5-1
6	Couplings	6-1
7	Universal Joints	7-1
8	Vibration Mounts	8-1
9	Miscellaneous Components	9-1
10	Hardware	10-1
11	Gearheads & Speed Reducers	11-1
12	Right Angle Drives	12-1
13	Brakes & Clutches	13-1
14	Motors & Gearmotors	14-1
15	Proximity Switches	15-1
Alphabetical Index		A-1

SDPSI

Stock Drive Products / Sterling Instrument



Phone: **516-328-3300** Fax: **516-326-8827** Internet: **www.sdp-si.com**

2101 Jericho Turnpike, Box 5416, New Hyde Park, New York 11042-5416

NOTE: We reserve the right to make changes & corrections without notice. Every effort has been made to provide accurate technical & product information. The company disclaims responsibility for any error or omission regarding technical & product information published.

© 2000 Stock Drive Products, Sterling Instrument / Divisions of Designatronics, Inc.

All rights reserved herein and no portion of this catalog may be reproduced without the prior consent in writing of the company. Printed in Canada



Our first all metric catalog designated as "Handbook 777" was published in 1995. This new "Handbook 780" contains 2,332 new items, greatly enhancing the breadth of our offerings.

Our company started manufacturing and marketing metric components in the early 1970's. Our metric product line increased as the years went by due to the progression of the metrication process within the United States. At this time, we offer in this catalog 21,047 different metric components.

The rapid development of communications via fax and the availability of overnight transportation, in addition to our expanded metric product line, have resulted in a substantial demand for our products worldwide. In addition to the increased domestic demand for metric components, we are servicing the global metric market via a network of foreign distributors. Future development of communication networks and our presence on the Internet will undoubtedly further increase the demand for our services.

Historically, all our Handbooks have contained technical information pertaining to the products featured in the particular catalog. We have chosen to include in this catalog an updated text pertaining to gears – their design and manufacture. This text was chosen in particular since "module", which is the metric unit of measure for gears, differs from the United States measure, which is "Diametral Pitch". A thorough analysis of this subject will greatly contribute to the understanding of the modern theories which define the precise and dependable workings of gears utilized through the centuries.

We have also included several conversion tables which will be helpful to acquaint those who are not familiar with the metric system, and also to serve as a reference to those who frequently come up with inch size dimensions with which they are unfamiliar.

The off-the-shelf availability of our metric components will be welcome news to design engineers who will now be able to purchase standardized parts rather than having to design them from the ground up.

During the last few years, we have added a substantial amount of modern equipment to our machine shop and stocking facilities.

If you wish to obtain more information about our company, its operation and equipment, please request publication D014. For a 784 page Design Handbook, please request Data Book 757.

In addition to our standard products, we can produce economic production runs of special parts to customer prints or to those designs furnished by our application engineers based on customer specifications.

Domestic Sales Conditions

Ordering by phone: Telephone: 516-328-3300

We can give you price and stock status on every catalog item over the phone. For larger production quantities, we can fax you a written quote of price and delivery. Please call us between 9AM and 5PM New York time or fax us anytime. If you prefer, you can contact one of our sales representatives listed on the following pages.

Ordering by fax: Toll Free Fax: 1-800-345-1144 (for orders, only)

Please use our toll free fax number to order. Specify part numbers, quantities, delivery dates needed and method of shipment.

Ordering by Mail:

Mail is sorted, and orders are promptly processed by our Sales Department.

METHODS OF PAYMENT

Open Account Orders:

A minimum order is \$50 plus shipping charges. Orders requiring any type of special handling or certification are subject to additional charge. Terms: Net 30 days, F.O.B. New Hyde Park, NY.

Credit Card Orders:

For your convenience, we accept VISA®, MasterCard®, American Express® and Optima®. You will be billed for merchandise and freight when parts are shipped, subject to credit card approval. A minimum order is \$50 plus shipping charges.

Credit:

New accounts having a satisfactory rating will receive open credit terms; otherwise, initial order may be on a C.O.D. basis pending credit approval. C.O.D. orders are subject to an additional handling charge.

Method of Shipment:

U.P.S., R.P.S., FedEx or as specified by customer.

Returns and Exchanges:

All returns and exchanges must have prior written approval. Returns must be made within 15 days after receipt of material. Returned merchandise will be inspected and a charge made for restocking. No credit will be allowed on used or modified parts, or catalog parts purchased on a quantity basis. Notification of any shortages must be reported within 10 days after receipt of goods.

Note:

Price and specifications are subject to change without notice. Every effort has been made to provide accurate technical and product information. The company disclaims responsibility for any error or omission in the accuracy of the technical and product information published.

SALES IN CALIFORNIA

in Northern California: (Our Office and Distributor)

Western Component Sales North, Inc.
871-F Industrial Road
San Carlos, California 94070
TEL: 650-594-1222 FAX: 650-594-1687

in Southern California: (Our Sales Representative)

Western Automation, Inc.
23011 Moulton Parkway, Unit F-1
Laguna Hills, California 92653
TEL: 949-859-6988 FAX: 949-859-8622



Sales Representatives



ALABAMA

DHR Marketing, Inc.

211 Six Forks Road, Suite 205, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

ARIZONA

Silver Mountain Design Ltd.

1002 East Missouri Avenue, Suite 124 A, Phoenix, AZ 85014
Tel: (602) 277-8898 Fax: (602) 277-8939

ARKANSAS

The Zonk Group, Inc.

990 North Bowser Street, Suite 700,
Richardson, TX 75081
Tel: (972) 238-7651 Fax: (972) 669-2809

CALIFORNIA (North)

Western Component Sales North, Inc.

871-F Industrial Road, San Carlos, CA 94070
Tel: (650) 594-1222 Fax: (650) 595-4298

CALIFORNIA (South)

Western Automation, Inc.

23011 Moulton Parkway, Unit F-1, Laguna Hills, CA 92653
Tel: (949) 859-6988 Fax: (949) 859-8622

COLORADO

Manufacturer's Marketing Corporation

5005 East 39th Ave.
Denver, CO 80207
Tel: (303) 393-6400 Fax: (303) 393-6464

CONNECTICUT

Underwood Sales Corp.

694 Chelmsford Street, Lowell, MA 01851
Tel: (978) 937-0600 Fax: (978) 454-0363

DELAWARE

Imagitron Sales Co., Inc.

1004 Littlestown Pike, Suite D-2, Westminster, MD 21157
Tel: (410) 374-5600 Fax: 410-374-5182

DISTRICT OF COLUMBIA

Imagitron Sales Co., Inc.

1004 Littlestown Pike, Suite D-2, Westminster, MD 21157
Tel: (410) 374-5600 Fax: 410-374-5182

FLORIDA

Tech-Rep Assoc., Inc.

5400 1st Ave., North, St. Petersburg, FL 33710
Tel: (813) 322-1155 Fax: (813) 321-1299

GEORGIA

DHR Marketing, Inc.

211 Six Forks Road, Suite 205, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

IDAHO

Northmar, Inc.

1011 N.E. 69th, Seattle, WA 98115
Tel: (206) 524-5170 Fax: (206) 524-0402

ILLINOIS (North)

Rockford Controls Co.

2451 Wisconsin Avenue, Downers Grove, IL 60515
Tel: (630) 960-2046 Fax: (630) 960-2447

INDIANA (Northwest)

Rockford Controls Co.

2451 Wisconsin Avenue, Downers Grove, IL 60515
Tel: (630) 960-2046 Fax: (630) 960-2447

INDIANA (South)

Rockford Controls Ohio, Inc.

815 W. Liberty, Medina, OH 44256
Tel: (216) 725-3705 Fax: (216) 723-3448

IOWA (East)

Rockford Controls Co.

2451 Wisconsin Avenue, Downers Grove, IL 60515
Tel: (630) 960-2046 Fax: (630) 960-2447

KENTUCKY

Rockford Controls Ohio, Inc.

815 W. Liberty, Medina, OH 44256
Tel: (630) 960-2046 Fax: (330) 723-2012

MAINE

Underwood Sales Corp.

694 Chelmsford Street, Lowell, MA 01851
Tel: (508) 256-8191 Fax: (508) 529-0363

MARYLAND

Imagitron Sales Co., Inc.

3102 S. Main Street, Manchester, MD 21102
Tel: (410) 374-5600 Fax: 410-374-5888

MASSACHUSETTS

Underwood Sales Corp.

694 Chelmsford Street, Lowell, MA 01851
Tel: (508) 256-8191 Fax: (508) 529-0363

MICHIGAN

R.C. Nordstrom & Co.

28545 Greenfield Road, Suite 102,
Southfield, MI 48076
Tel: (248) 559-7373 Fax: (248) 559-0075

MINNESOTA

Northstar Motion & Control, Inc.

7480 Pinehurst Road, Saint Paul, MN 55115
Tel: (612) 770-5311 Fax: (612) 770-7534

MISSISSIPPI

DHR Marketing, Inc.

211 Six Forks Road, Suite 105, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

MONTANA

Northmar, Inc.

1011 N.E. 69th, Seattle, WA 98115
Tel: (206) 524-5170 Fax: (206) 524-0402

NEBRASKA

Manufacturer's Marketing Corporation

7220 W. Jefferson Avenue, Suite 406,
Denver, CO 80235-2016
Tel: (303) 985-2008 Fax: (303) 985-2141

NEVADA

Western Component Sales North, Inc.

871-F Industrial Road, San Carlos, CA 94070
Tel: (650) 594-1222 Fax: (650) 595-4298



Sales Representatives



NEW HAMPSHIRE

Underwood Sales Corp.
694 Chelmsford Street, Lowell, MA 01851
Tel: (508) 256-8191 Fax: (508) 529-0363

NEW JERSEY (North)

Pacnet Engineering
300 Northern Boulevard, Great Neck, NY 11021
Tel: (516) 482-4678 Fax: (516) 482-4131

NEW JERSEY (South)

Imagitron Sales Co., Inc.
3102 S. Main Street, Manchester, MD 21102
Tel: (410) 374-5600 Fax: 410-374-5888

NEW MEXICO

Manufacturer's Marketing Corporation
7220 W. Jefferson Avenue, Suite 406,
Denver, CO 80235-2016
Tel: (303) 985-2008 Fax: (303) 985-2141

NEW YORK CITY (Metropolitan Area)

Pacnet Engineering
300 Northern Boulevard, Great Neck, NY 11021
Tel: (516) 482-4678 Fax: (516) 482-4131

NEW YORK STATE

(Excluding N.Y.C. Metropolitan Area)
KLM - Garner, Inc.
4779 Clinton Street, Clark Mills, NY 13321
Tel: (315) 853-6126 Fax: (315) 853-3011

NORTH CAROLINA

DHR Marketing, Inc.
211 Six Forks Road, Suite 105, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

NORTH DAKOTA

Northstar Motion & Control, Inc.
7480 Pinehurst Road, Saint Paul, MN 55115
Tel: (612) 770-5311 Fax: (612) 770-7534

OHIO

Rockford Controls Ohio, Inc.
815 W. Liberty, Medina, OH 44256
Tel: (330) 723-3540 Fax: (330) 723-2012

OKLAHOMA

The Zonk Group, Inc.
990 North Bowser Street, Suite 700,
Richardson, TX 75081
Tel: (972) 238-7651 Fax: (972) 669-2809

OREGON

Northmar, Inc.
1011 N.E. 69th, Seattle, WA 98115
Tel: (206) 524-5170 Fax: (206) 524-0402

PENNSYLVANIA (East)

Imagitron Sales Co., Inc.
3102 S. Main Street, Manchester, MD 21102
Tel: (410) 374-5600 Fax: 410-374-5888

PENNSYLVANIA (West)

Rockford Controls Ohio, Inc.
815 W. Liberty, Medina, OH 44256
Tel: (330) 723-3540 Fax: (330) 723-2012

RHODE ISLAND

Underwood Sales Corp.
694 Chelmsford Street, Lowell, MA 01851
Tel: (508) 256-8191 Fax: (508) 529-0363

SOUTH CAROLINA

DHR Marketing, Inc.
211 Six Forks Road, Suite 105, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

SOUTH DAKOTA

Northstar Motion & Control, Inc.
7480 Pinehurst Road, Saint Paul, MN 55115
Tel: (612) 770-5311 Fax: (612) 770-7534

TENNESSEE

DHR Marketing, Inc.
211 Six Forks Road, Suite 105, Raleigh, NC 27603
Tel: (919) 829-1970 Fax: (919) 829-1906

TEXAS

The Zonk Group, Inc.
990 North Bowser Street, Suite 700,
Richardson, TX 75081
Tel: (972) 238-7651 Fax: (972) 669-2809

UTAH

Manufacturer's Marketing Corporation
7220 W. Jefferson Avenue, Suite 406,
Denver, CO 80235-2016
Tel: (303) 985-2008 Fax: (303) 985-2141

VERMONT

Underwood Sales Corp.
694 Chelmsford Street, Lowell, MA 01851
Tel: (508) 256-8191 Fax: (508) 529-0363

VIRGINIA

Imagitron Sales Co., Inc.
3102 S. Main Street, Manchester, MD 21102
Tel: (410) 374-5600 Fax: (410) 374-5888

WASHINGTON

Northmar, Inc.
1011 N.E. 69th, Seattle, WA 98115
Tel: (206) 524-5170 Fax: (206) 524-0402

WEST VIRGINIA

Rockford Controls Ohio, Inc.
815 W. Liberty, Medina, OH 44256
Tel: (303) 723-3540 Fax: (330) 723-2012

WISCONSIN (South)

Rockford Controls Co.
2451 Wisconsin Avenue, Downers Grove, IL 60515
Tel: (630) 960-2046 Fax: (630) 960-2447

WISCONSIN (West)

Northstar Motion & Control, Inc.
7480 Pinehurst Road, Saint Paul, MN 55115
Tel: (612) 770-5311 Fax: (612) 770-7534

WYOMING

Manufacturer's Marketing Corporation
7220 W. Jefferson Avenue, Suite 406,
Denver, CO 80235-2016
Tel: (303) 985-2008 Fax: (303) 985-2141

International Sales Conditions

All international purchase orders for products should be directed to your nearest international distributor shown on the next page or:

DESIGNATRONICS FOREIGN SALES CORPORATION

2101 Jericho Turnpike, Box 5416,
New Hyde Park, New York 11042-5416

TEL: 516-328-3300 FAX: 516-326-8827

Minimum order:

\$75 with a \$10 charge for our standard export handling; i.e., \$85 minimum billing.
If the order exceeds \$100, there is no export handling charge made.

Large quantity order:

Considerable discounts are made available for large quantity orders.
Please request a quote for price and delivery.

METHODS OF PAYMENT

Open Account Orders:

If you have an open account, we will ship and bill you, net 30 days,
F.O.B. New Hyde Park, NY.

Credit Card Orders:

For your convenience, we accept VISA®, MasterCard®, American Express®
and Optima®. You will be billed for merchandise and freight when parts are shipped,
subject to credit card approval. A minimum order is \$85 plus shipping charges.

Credit:

Purchase orders accompanied by Bank References will be shipped on open credit
terms. Otherwise, an irrevocable letter of credit or prepayment is requested.

Method of Shipment:

U.P.S., FedEx or Air Parcel Post as specified by customer.

Returns and Exchanges:

All returns and exchanges must have prior written approval. Returns must be made
within 15 days after receipt of material. Returned merchandise will be inspected and
a charge made for restocking. No credit will be allowed on used or modified parts, or
catalog parts purchased on a quantity basis. Notification of any shortages must be
reported within 10 days after receipt of goods.

Note:

Price and specifications are subject to change without notice. Every effort has been
made to provide accurate technical and product information. The company disclaims
responsibility for any error or omission in the accuracy of the technical and product
information published.



International Distributors and Sales Representatives



AUSTRALIA

MBA Miniature Bearings Australia Pty. Ltd.
3 Cracknell Rd. (Chardons Cnr.)
P.O. Box 123
Annerly Q1D 4103, Australia
Phone: 61-7-3217-1488
Fax: 61-7-3217-1544
Email: sales@minibearing.com.au

BELGIUM

Amelco Transmissie N.V.
1932 St. Stevens Woluwe, Belgium
Phone: 32-2-7204981
Fax: 32-2-7208101

CANADA

CT & M Marketing
127 Larkin Ave., Markham,
Ontario L3P-4Y4, Canada
Phone: (905)-471-4939
Fax: (905)-472-4904
Email: sales@ctm.ca

DENMARK

Jens S. A-S
Brogrenen 5
DK-2635 Ishøj, Denmark
Phone: 43-73-83-33
Fax: 43-73-19-11

FRANCE

Prud'Homme Transmissions
66 Rue de St. Denis
BP 73 - 93302 Aubervilliers Cedex, France
Phone: 33-1-48-11-46-00
Fax: 33-1-48-34-49-49

GERMANY

Licelcomp GmbH
Electronic Components
Postfach 1208
52538 Selfkant (Post Gangelt), Germany
Phone: 49-2456-5102-0
Fax: 49-2456-5102-25

GREAT BRITAIN

Davall Stock Gears
Welham Green, Hatfield
Hertfordshire AL9 7JB, England
Phone: 44-01-1707-272722
Fax: 44-01-1707-268536
Email: davall@dial.pipex.com

HUNGARY

BDI Hungary Ltd.
Iparcikk Kereskedelmi Kft.
1046. Budapest, Fóti ut. 141.,
37. épület, Hungary
Phone: 36-1-369-6547
Fax: 36-1-369-4310
Email: bdi-hun@elender.hu

ISRAEL

Aerniv Agencies Ltd.
33 Sokolov Street
Ramat Hasharon 47236, Israel
Phone: 972-3-540-1115
Fax: 972-3-540-1119

NETHERLANDS

Caldic Techniek B.V.
P.O. Box 660
3000 AR Rotterdam, Netherlands
Phone: 31-10-41-56622
Fax: 31-10-43-78810
Email: vgc@worldonline.nl

NORWAY

Jens S. A-S
Nesvien 11, N-1344 Haslum, Norway
Phone: 47-67-53-3888
Fax: 47-67-53-5416

SINGAPORE, MALAYSIA & THAILAND

Plant & Mill Supplies PTE Ltd.
4 Loyang Street
Loyang Industrial Estate
Singapore 508839
Phone: 65-542-4211
Fax: 65-542-1318
Email: pmsupp@pacific.net

SLOVAKIA

BDI spol. s r.o.
960 01 Zvolen, Buzulucka 3., Slovakia
Phone: 42-855-321-552
Fax: 42-855-321-545

SWEDEN

Ingfa. Källving AB
Head Office: Rommevägen 160
S-781 93 Borlänge, Sweden
Phone: 46-243-34-190
Fax: 46-243-34-322

How to use the Index

There are two ways to access the information on parts you are looking for, as shown below:

METHOD 1: IF YOU KNOW THE PART NUMBER

The **Part Number Index**, starting at page ix, will direct you to the appropriate section and catalog page. Match the part number as closely to one of the entries in the **Part Number Index**. The dots denote variable characters on the page. Then, go to the section and the page number indicated. Often, the series will continue on to the facing page.

Example:

Code	Page	Code	Page
A 1A 4MY06020	1-109	S10A12M...	2-122
A 1A12MHR...	1-101	S10A13M...	2-126
A 1B 1MY040..	1-16	S10A14M...	2-128
A 1B 1MY050..	1-17	S10A15M...	2-124
A 1B 1MY080..	1-18	S10C00M...	1-127
A 1B 1MYK05...	1-28	S10CCPM...	1-14
A 1B 1MYKH7...	1-30	S10S05M...	1-4
A 1B 2MY04...	1-23	S10S08M...	1-6

Part Number Series

Section – Page Number

METHOD 2: IF YOU KNOW THE NAME OF THE ITEM

The Alphabetical Index is at the end of this catalog. We have tried to make as many entries as possible to make it easier for you to find the products you are looking for. Consequently, the same page may be referenced under several headings.

Example:

Catalog Item	Page
DRUM DIALS	
Clockwise Engraved	10-37
Counterclockwise Engraved	10-38
DUAL DRIVES	
Heavy Duty	12-11
Light Duty	12-10
E	
E-RINGS External, DIN 6799	10-28
ENDLESS BELTS, ROUND	
For Linear Bearings	2-154
2, 3, 4 & 5 mm Diameters	2-155

Product Name

Section – Page Number