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IMPORT ANALYSIS

LOAD CELLS

(FOR WEIGHING SCALES)

JANUARY TO DECEMBER 1984





Government of Canada

Regional Industrial Expansion

Gouvernement du Canada

Expansion industrielle régionale



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Further information available from:

Market Information and Analysis Division Market Development Branch Regional Industrial Expansion Ottawa, Canada, KIA OH5 Tel: (613) 954-4970

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SECTION I - INTRODUCTION

Product Description

A load cell for weighing scales is a device consisting of a strain gauge and recording mechanism. It measures weight by sensing the difference in electrical characteristics in the gauge caused by a change in pressure. The study excludes load cells for purposes other than weighing scales.

Scope of Analysis

This analysis of imports of load cells is based on a detailed examination of Revenue Canada Customs import documents for the period January to December 1984. Load cells are classified to Canadian International Trade Classification import commodity code 709-49-87 "Physical Properties Test/Inspection Equipment Accessories".

Method

The data shown in this analysis were extracted from Revenue Canada Customs documents. These documents provide a description of the products, names of importers and exporters, quantities, dollar values, unit prices, countries of origin, provinces of entry, tariff applications and rates of exchange.

Please note that dollar values shown are based on selling price F.O.B. plant, in Canadian dollars. This selling price represents the value paid by the importer, excluding all freight, packing and insurance costs when specified. All trade discounts when applicable are also deducted from the selling price.

References

- (1) Customs Tariff: Item 44532-1
- (2) Canadian International Trade Classification (Cat. #65-502E, Statistics Canada)
- (3) Imports by Commodities (Cat. #65-007, Statistics Canada) Commodity Code(s) 709-49-87

SECTION II - ANALYSIS AND OBSERVATIONS

Analysis of Imports

Imports of load cells as reported on documents examined for the period January to December 1984, totalled 8,757 units valued at \$3,426,457.

Imports totalling \$970,643, or 28 per cent of the analyzed value, could not be identified as to capacity due to inadequate document description (see Table 1).

SUMMARY OF IMPORTS BY CAPACITY RANGE

Capacity Range	Quant	tity	Va1	lue
(000) Lb.	(No.)	(%)	(\$000)	(%)
.02 to .75	1,271	14	312	9
1 to 2.5	3,295	37	700	20
3 to 7.5	861	10	329	10
10 to 25	770	9	377	11
30 to 45	32	(*)	24	(*)
50 to 75	7 6 8	9	512	15
100 to 500	237	3	201	6
NOT KNOWN	1,523	<u>17</u>	<u>971</u>	_28
TOTAL	8,757	100	3,426	100

The analysis shows load cells up to 7,500 pound capacity accounted for 62 per cent by quantity and 39 per cent of value of total imports.

Fig. 1 shows the largest proportion of imports of load cells by quantity (37 per cent) and by value (20 per cent) belong to the one to 2.5 thousand capacity range. This is particularly true of the one thousand and two thousand capacity scales, as detailed in Table 1.

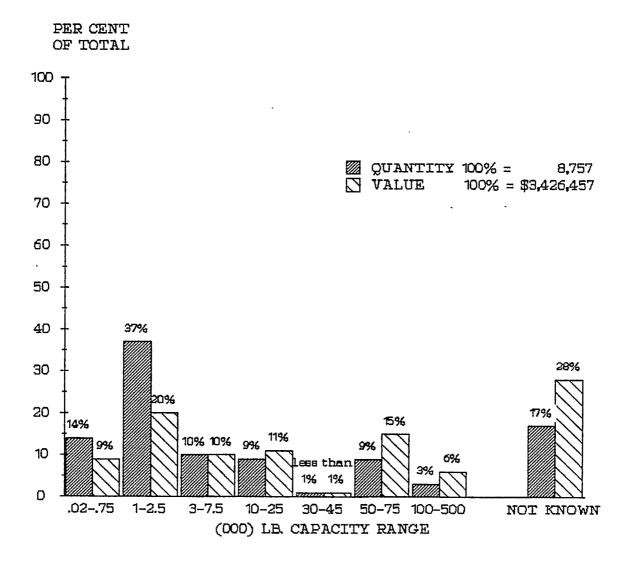
Particularly noteworthy is that the average unit prices fluctuate widely according to capacity of the scales (See Table 1).

The top 13 importers accounted for 8,070 units or 92 per cent of the total quantity (8,757) and \$3,070,775 or 90 per cent of the total value (\$3,426,457). Imports were particularly concentrated amongst the top six importers who accounted for 74 per cent and 66 per cent by quantity and value, respectively, of total imports. For details, see Table 2.

NOTE: (*) Less than one per cent All figures are rounded

FIGURE I

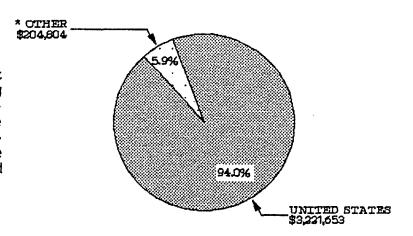
LOAD CELLS IMPORT DISTRIBUTION BY CAPACITY RANGE JANUARY TO DECEMBER 1984



ALL PERCENTAGE FIGURES ARE ROUNDED SOURCE: TABLE 1

FIG.2 - COUNTRY OF ORIGIN

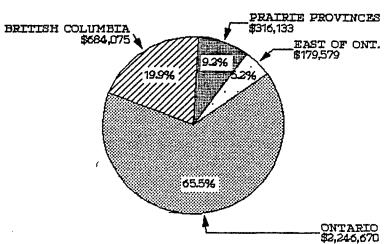
Of the total import market value, shipments originating from the United States accounted for 94 per cent. The remaining countries in descending order of value were Sweden, West Germany, United Kingdom, Japan and Switzerland.



* OTHER: INCLUDES SWEDEN, WEST GERMANY, UNITED KINGDOM, JAPAN & SWITZERLAND SOURCE: OWN SURVEY

FIG.3 - PROVINCE OF ENTRY

Ontario was the major province of entry accounting for 66 per cent of the total value, followed by British Columbia: 20 per cent, Prairie Provinces: nine per cent and provinces East of Ontario: five per cent.



PERCENTAGE OF VALUE 100% = \$3,426,457
PROVINCES EAST OF ONTARIO INCLUDES:
QUEBEC, NOVA SCOTIA, PRINCE EDWARD ISLAND &
NEWFOUNDLAND
PRAIRIE PROVINCES INCLUDES: MANITOBA,
SASKATCHEWAN & ALBERTA

SOURCE: OWN SURVEY

SECTION III - RESULTS

Canadian Importers

Importers of load cells during the period January to December 1984, as indicated in this report, are listed below in alphabetical order.

Name

Accurate & Automatic Scale Co. Ltd. Ametron Ltd. Atomic Energy of Canada Ltd. Aurora Scale Mfg. Ltd. Balances Leduc Thibeault Inc. Barnes Wallace Co. Ltd. Brian Engineering Ltd. Calibration Canada Ltd. Canadian Scale Co. Ltd. Canrep Inc. Canron Inc. Carinal Scale Co. Centoco Manufacturing Ltd. City Wide Scale Co. Ltd. Community and Cultural Affairs Island Compuweight Ltd. Dominion Bridge (see Amca International Ltd. Dow Chemical Canada Ltd. Durham Instruments (Division of Buchan Instruments Inc.) Eastern Scale Manufacturing Fabricated Steel Prod. (see Indal Ltd.) Forest Engineering Research Genstar-Costain Conc Tie Co. Griffiths DM Scales Ltd. Howe Richardson Inc. Industrial Scales Ltd. Industries GLM Inc. Intertechnology Ltd. Interweigh System Inc. Instron Canada Ltd. Kanawha Valley Scale Service C/o SNC Kingsbury Machine Tool Canada Ludwig Engel Canada Ltd. MTS Testing Systems (Canada) Ltd.

Address

Scarborough, Ontario Mississauga, Ontario Pinawa, Manitoba Aurora, Ontario Mercier, Québec Burlington, Ontario Rexdale, Ontario Hamilton, Ontario Toronto, Ontario Montréal, Québec Vancouver, British Columbia Essex, Ontario Tilbury, Ontario Rexdale, Ontario Prince Edward Charlottetown,

Montréal, Québec

Winnipeg, Manitoba Sarnia, Ontario

Pickering, Ontario Toronto, Ontario

Windsor, Ontario
Vancouver, British Columbia
Edmonton, Alberta
Burnaby, British Columbia
Pointe Claire, Québec
Vancouver, British Columbia
Baie Comeau, Québec
Don Mills, Ontario
Scarborough, Ontario
Burlington, Ontario

Hinton, Alberta Burlington, Ontario Guelph, Ontario Brampton, Ontario

Canadian Importers (Cont'd)

Name

M&L Testing Equipment Co. Ltd. Macro Point Ltd. Mantle Ind. Ltd. Masstron Scale Ltd. Master-Dyne Ltd. Matrix Scale Systems Inc. Maxwell Morton and Associates McGregor BH Merrick Canada Ltd. Metro Equipment Canada Ltd. Microdata Canada Inc. Milltronics Ltd. Mott Scale Systems Inc. Newfoundland Scale Co. Ltd. Oneida Canada Ltd. Ontario Hydro Corporation Pacific Industrial Scale Co. Peacock Inc. Peerless Page (Division of Lear Siegler Industries Ltd.) Philips Electronics Ltd. Pioneer Grain Prairie Systems and Equipment Pratt & Whitney Canada Inc. Precision Scale Co. Edmonton Ltd. Precision Spring of Canada Ltd. Procor Ltd. Protech Scale Ltd. Quadra Control & Weight Systems Ltd. Québec Cartier Mining Co. Reliance Electric Ltd. (Division of Toledo Scale Revere Corp. of America Smart Alexander D Ltd. Stel-Tek Ltd. Stelco Inc. Structural Instrumentation Inc. Sullivan Strong Scott Ltd. Superior Scale Co. Ltd. Tahsis Company Ltd. Triton Inc. United Testing Systems Ltd. University of Calgary The Valiant Machine & Tool Inc. Weightech Maritime Ltd. Weldwood of Canada Ltd. Western Scale Co. Ltd. Willer Engineering Ltd.

Address

Hamilton, Ontario Cambridge, Ontario Delta, British Columbia Burlington, Ontario Mississauga, Ontario Mississauga, Ontario Richmond, British Columbia Toronto, Ontario Peterborough, Ontario Richmond, British Columbia Willowdale, Ontario Peterborough, Ontario Brantford, Ontario Paradise, Newfoundland Niagara Falls, Ontario Toronto, Ontario Richmond, British Columbia Ville La Salle, Québec

Penticton, British Columbia Scarborough, Ontario Moosomin, Saskatchewan Saskatoon, Saskatchewan Longueuil, Québec Edmonton, Alberta Kingsville, Ontario Calgary, Alberta Winnipeg, Manitoba Surrey, British Columbia Port Cartier, Québec

Mississauga, Ontario Toronto, Ontario Markham, Ontario Stoney Creek, Ontario Edmonton, Alberta Kelowna, British Columbia St. Marys, Ontario Winnipeg, Manitoba Vancouver, British Columbia Lachine, Québec Concord, Ontario Calgary, Alberta Windsor, Ontario Dartmouth, Nova Scotia Vancouver, British Columbia Port Coquitlam, British Columbia Willowdale, Ontario

Foreign Exporters to Canada

Major exporters to Canada of load cells shown in this report are listed in descending order of dollar value. These exporters accounted for 89 per cent of the total analyzed value of \$3,426,457.

Name

Toledo Scale (Division of
Reliance Electric Co.)
Transducers Inc.
Sensortronics, Inc.
Revere Corp. of America
Structural Instrumentation Inc.
Daytronic Corp.
AB Bofors Elektronik
Hottinger Baldwin Measurements Inc.
Lodec Inc.

Address

Columbus, OH Cerritos, CA	United United	
Covina, ĆA	United	States
Wallingford, CT Tuckwila, WA	United United	
Miamisburg, OH Bofors	United Sweden	States
Framingham, MA	United	
Lynnwood WA	United	States

Canadian Production

According to Statistics Canada, load cells are made in Canada. However, for reasons of confidentiality, separate data on production or shipments by Canadian manufacturers are not available.

TABLE 1

IMPORTS OF LOAD CELLS - BY CAPACITY

JANUARY TO DECEMBER 1984

Capacity (000) Lb.	Quantity (No.)	Value (\$)	Average Unit Price (\$)
.02 .05 .075 and .1 .2 .3 and .4 .5 and .75 1 1.5 2 2.5 3 4 5 and 7.5 10 11, 15 and 20 22 and 25 30 40 and 45 50 60 and 75 100 200 300 and 500 Not Known	26 100 192 161 34 758 1,061 58 1,961 215 30 51 780 485 183 102 21 11 353 415 113 99 25 1,523	6,488 25,770 51,314 45,624 19,445 163,619 253,607 15,605 358,385 72,916 16,527 31,798 280,255 183,531 108,944 84,082 15,499 8,948 207,500 305,001 95,616 82,380 22,960 970,643	250 258 267 283 572 216 239 269 183 339 551 623 359 378 595 824 738 813 588 735 846 832 918 637
TOTAL	8,757	3,426,457	

TABLE 2

IMPORT MARKET CONCENTRATION

<u>Importers</u>	Cumulative Quantity (No.)	% of Total Quantity	Cumulative Value (\$)	% of Total Value
Top 3	5,480	63	1,532,736	45
Top 6	6,496	74	2,276,916	66
Top 13	8,070	92	3,070,775	90

Top importers are importers with the largest imports by dollar value.

NOTE: Percentage figures are rounded

Canadian and Foreign Tariffs

Canada

Load cells included in this analysis were dutiable under the following most commonly applied tariff item.

		British		Most		General
		Prefer-		Favoured		Prefer-
Tari ff		ential	U.K. &	Nation	General	ential
Item	Description	Tariff	Ireland	Tariff	Tariff	Tariff
						

44532-1 Electrical instruments and apparatus of precision of a class or kind not made in Canada, viz.:--Meters or gauges for indicating and/or recording altitude, amperes, comparisons, capacity, density, depth, distance, electrolysis, flux, force, frequency, humidity, inductance, liquid levels, ohms, operation, power factor, pressure, space, speed, stress, thrust, synchronism. temperature, time, volume, volts. watts, weight;

complete parts thereof....1984 Free Free 2.8% 30% Free

Tariff Arrangements and Foreign Countries of Exports:

Most favoured nation: Japan, Sweden, Switzerland, United Kingdom, United States, and West Germany

Tariff items and rates of duty are subject to change and need to be verified by direct reference to:

Tariff Programs
Revenue Canada
Customs and Excise
Ottawa, Ontario
K1A OL5
Tel: (613) 996-9474

Foreign Countries

Inquiries concerning tariffs and other government trade regulations in foreign countries should be directed to:

Info Export
Export Programs and Services Bureau
External Affairs Canada
Ottawa, Ontario
K1A OG2
Tel: (613) 993-6435

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