

L M Ericsson
Automatic
Telephone Exchanges
with Crossbar Switches

Reference List
March 1, 1955

CONTENTS

This reference list comprises tables of ordered and installed L M Ericsson Crossbar Exchanges in all countries except Sweden.

The list is divided into three sections with regard to utility categories:

- I. City Exchanges
- II. Community and Rural Exchanges
- III. Trunk and Toll Exchanges

A short description of the different systems, listed under these headings, is given below under heading SYSTEM.

The tables indicate the country and place for the exchange, type and number of exchanges, number of lines and the year of opening of the exchange. In certain cases the data of the individual exchange is not stated but instead entered under the name of the zone, to which the exchange belongs.

In each section of the list, the number of exchanges and lines are indicated both for each country and for the whole section.

SYSTEM

I. City Exchanges

- ARF 10 is a register controlled system designed for medium-sized and large telephone plants.
- ARF 50 is a system working on a modified step-by-step principle, specially designed for interwork with the German Post Office (Bundespost) step-by-step system. The system is also well adapted for independent exchanges of various sizes.
- ARF 51 has the same features as ARF 50, but is designed for interwork with the British Post Office step-by-step system.
- ARF 90 is a register controlled system specially adapted to the conditions in Rotterdam, Netherlands.

II. Community and Rural Exchanges

- ARK 312 is an exchange type for terminal exchanges with a capacity of up to 60 subscriber's lines.
- ARK 314 is intended for terminal exchanges with a capacity of 60-180 subscriber's lines.
- ARK 315 is intended for terminal exchanges with a capacity from 100 up to about 1200 subscriber's lines.
- ARK 335 is intended for small group and zone centres. The subscriber capacity is about the same as for the type ARK 315.
- ARK 375 is intended for small local exchanges interworking with system ARF 10

III. Trunk, Toll and Transit Exchanges

- ARM 10 is a trunk exchange specially adapted to the conditions in Rotterdam, Netherlands.
- ARM 20 is intended for large and medium-sized trunk exchanges.
- ARM 501 is intended for small toll, trunk and transit exchanges with a capacity of 40 - 200 lines.
- ARM 502 is intended for toll, trunk and transit exchanges with a capacity of 100 - 1600 lines.
- ARK 323 is a transit exchange specially adapted to the conditions in Netherlands.

I. CITY EXCHANGES TYPES ARF 10, 50, 51, 90

Place	Type	Number of Exchanges	Number of Lines	Year of Opening
<u>AUSTRALIA</u>				
Melbourne	ARF 51	1	600	1956
Sydney	ARF 51	1	600	1956
		Total 2	1,200	
<u>BURMA</u>				
Rangoon:				
Main	ARF 10	1	6,000	1957
North	ARF 10	1	2,000	1957
		Total 2	8,000	
<u>DENMARK</u>				
Aalborg	ARF 10	1	20,000	1956
Aarhus:				
Aabyhøj	ARF 10	1	3,000	1953
Braband	ARF 10	1	800	1953
Centrum	ARF 10	1	20,000	1953
Risskov	ARF 10	1	3,000	1953
Skaade	ARF 10	1	1,000	1953
Syd	ARF 10	1	4,000	1953
		6	31,800	
Copenhagen:				
Bagsvaerd	ARF 10	1	5,000	1955
Ballerup	ARF 10	1	3,000	1957
Damsø	ARF 10	1	2,500	1958
Fredriksdal	ARF 10	1	4,000	1954-55
Gentofte	ARF 10	1	6,000	1958
Glostrup	ARF 10	1	5,000	1956
Hvidovre	ARF 10	1	2,000	1957
Hundinge	ARF 10	1	2,000	1958
Kastrup	ARF 10	1	6,000	1954
Lyngby	ARF 10	1	10,000	1956
Naerum	ARF 10	1	2,000	1957
Ryvang	ARF 10	1	2,000	1957
Rødovre	ARF 10	1	6,000	1955
Skodsborg	ARF 10	1	2,000	1957
Søborg	ARF 10	1	2,000	1958
Taastrup	ARF 10	1	3,000	1957
Valby	ARF 10	1	2,000	1953
Vestskel	ARF 10	1	5,000	1954-56
Yrsa	ARF 10	1	5,000	1955
		19	74,500	
Helsingør	ARF 10	1	4,000	1955
Horsens	ARF 10	1	6,000	1954-56
Nykøbing (Falster)	ARF 10	1	4,000	1955
Rudkøbing	ARF 10	1	1,000	1956
Skagen	ARF 10	1	2,000	1956
		Total 31	143,300	
<u>FED. OF RHODESIA AND NYASALAND</u>				
Gatooma	ARF 50	1	1,000	1955

I. CITY EXCHANGES TYPES ARF 10, 50, 51, 90

Place	Type	Number of Exchanges	Number of Lines	Year of Opening
<u>FINLAND</u>				
Borgå	ARF 10	1	2.500	1956
Helsinki:				
Baggböle	ARF 50	1	3.000	1957
Centrum	ARF 50	2	15.400	1950-55
Hertonäs	ARF 50	1	3.000	1957
Kottby	ARF 50	1	6.000	1955
Sörnäs	ARF 50	2	15.000	1950-55
Tölö	ARF 50	1	II-GV	
		8	42.400	
		Total 9	44.900	
<u>INDONESIA</u>				
Magelang	ARF 10	1	1.000	1958
Solo	ARF 10	1	3.000	1958
		Total 2	4.000	
<u>MEXICO</u>				
Mexico D. F.	ARF 10 (GT)	1	(400)	1954
<u>NETHERLANDS</u>				
Rotterdam:				
Centrum I	ARF 90	1	9.500	1952
Centrum II	ARF 90	1	10.000	1955-56
Nord I	ARF 90	1	10.000	1954
Nord II	ARF 90	1	10.000	1954-55
West I	ARF 90	1	12.500	1954-55
West II	ARF 90	1	4.000	1954
Zuid II	ARF 90	1	4.000	1955
		Total 7	60.000	
<u>PAKISTAN</u>				
Sukkur	ARF 50	1	1.000	1955
<u>YUGOSLAVIA</u>				
Bitolj	ARF 50	1	500	1955
Nikšić	ARF 50	1	300	1955
Niš	ARF 50	1	1.000	1955
Pula	ARF 50	1	700	1955
Travnik	ARF 50	1	300	1955
Zagreb	ARF 50	1	1.000	1954
Zenica	ARF 50	1	400	1955
		Total 7	4.200	
Grand Total			63	268.000

II. COMMUNITY AND RURAL EXCHANGES TYPES ARK 31, 33, 37

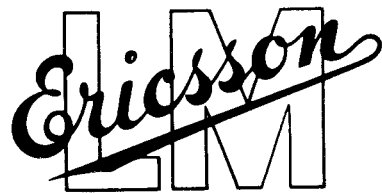
Place	Type	Number of Exchanges	Number of Lines	Year of Opening
<u>ARGENTINE</u>				
Chajari	ARK 335	1	400	1955
Colón	ARK 335	1	300	1955
Metán	ARK 335	1	300	1955
Rio Hondo	ARK 335	1	500	1955
Tunuyán	ARK 335	1	300	1955
Villa Federal	ARK 335	1	300	1955
Villa Monteros	ARK 335	1	400	1955
		Total 7	2.500	
<u>AUSTRALIA</u>				
Melbourne	ARK 314	1	120	1954
<u>BRAZIL</u>				
Iracemapolis	ARK 314	1	60	1953
Muri	ARK 314	1	40	1953
		Total 2	100	
<u>BURMA</u>				
Insein	ARK 375	1	300	1957
<u>DENMARK</u>				
Kirke Vaerløse	ARK 315	1	200	1950
Liseleje	ARK 315	1	400	1951
Hasselager	ARK 375	1	400	1954
		Total 3	1.000	
<u>ETHIOPIA</u>				
Bischoftu	ARK 314	1	60	1955
<u>FINLAND</u>				
Björneborg zone	ARK 312	1	60	1955
Björneborg zone	ARK 335	1	300	1953
Borgå zone	ARK 314	24	1.600	1956-57
Borgå zone	ARK 315	2	260	1956-57
Borgå zone	ARK 335	8	760	1956-57
Forssa zone	ARK 312	3	120	1955
Forssa zone	ARK 314	1	100	1955
Forssa zone	ARK 335	1	200	1956
Jakobstad zone	ARK 314	1	100	1955
Jyväskylä zone	ARK 314	1	100	1955
Kankaanpää zone	ARK 335	1	100	1954
Kimito zone	ARK 314	1	60	1954
Kotka zone	ARK 314	1	120	1955
Kristinestad zone	ARK 312	1	40	1955
Kuopio zone	ARK 312	2	80	1956
Rauma zone	ARK 312	2	100	1955-56
Rauma zone	ARK 314	1	120	1955
Rauma zone	ARK 335	1	260	1956
Ruukki zone	ARK 312	3	140	1955
Ruukki zone	ARK 335	1	80	1955
Salo zone	ARK 312	5	200	1955-56
Salo zone	ARK 335	1	100	1956

II. COMMUNITY AND RURAL EXCHANGES TYPES ARK 31, 33, 37

Place	Type	Number of Exchanges	Number of Lines	Year of Opening
Seinäjoki zone	ARK 314	3	360	1953-55
Toijala zone	ARK 312	1	40	1955
Uleåborg zone	ARK 312	2	80	1955
Uleåborg zone	ARK 314	1	120	1955
Vaasa zone	ARK 314	1	100	1955
Vaasa zone	ARK 315	1	200	1953
Åbo zone	ARK 312	11	540	1955-56
Åbo zone	ARK 314	5	460	1955-56
Åbo zone	ARK 315	2	400	1956
Åbo zone	ARK 335	1	400	1956
Åland zone	ARK 312	1	40	1955
Åland zone	ARK 314	5	380	1952-56
Åland zone	ARK 335	4	700	1954-56
		Total	101	8,820
<u>INDIA</u>				
Jabalpur	ARK 314	1	60	1954
Kamptee	ARK 314	1	60	1954
		Total	2	120
<u>ITALY</u>				
FATME, Rome	ARK 314	1	60	1954
Legnago zone	ARK 312	4	80	1954
Legnago zone	ARK 314	4	200	1954
Legnago zone	ARK 335	3	500	1954
Padova zone	ARK 312	4	100	1955
Padova zone	ARK 314	1	100	1955
Padova zone	ARK 315	3	660	1955
Venezia zone	ARK 312	4	80	1956
Venezia zone	ARK 314	1	40	1956
Venezia zone	ARK 335	1	200	1956
Verona zone	ARK 312	22	540	1955
Verona zone	ARK 314	13	1,000	1955
Verona zone	ARK 315	3	500	1955
Verona zone	ARK 335	12	2,100	1955
Vicenza zone	ARK 312	2	40	1955
Vicenza zone	ARK 314	1	60	1955
Vicenza zone	ARK 335	1	400	1955
		Total	80	6,660
<u>NETHERLANDS</u>				
Middelharnis sector	ARK 315	9	2,600	1952-53
Spijkenisse sector	ARK 315	10	3,400	1954-55
		Total	19	6,000
<u>POLAND</u>				
-	ARK 315	2	1,000	1952
Grand Total		219	26,680	

III. TRUNK, TOLL AND TRANSIT EXCHANGES TYPES ARM 10, 20, 50, ARK 32

Place	Type	Number of Exchanges	Switch Capacity	Year of Opening
<u>DENMARK</u>				
Aalborg	ARM 20	1	to be specified later	1956
Aarhus	ARM 20	1	3.300	1953
Helsingør	ARM 20	1	800	1955
Horsens	ARM 20	1	1.200	1956
Nykøbing (Falster)	ARM 20	1	800	1955
Rudkøbing	ARM 20	1	200	1956
Skagen	ARM 20	1	100	1956
		Total 7	6.400	
			(excl. 1 exchange)	
<u>FINLAND</u>				
Borgå	ARM 501	1	200	1955
Ekenäs	ARM 501	1	120	1955
Forssa	ARM 501	1	80	1954
Jyväskylä	ARM 501	1	40	1955
Kankaanpää	ARM 501	1	40	1954
Kuopio	ARM 501	1	40	1955
Mariehamn	ARM 501	1	80	1955
Pieksämäki	ARM 501	1	40	1954
Uleåborg	ARM 501	1	80	1955
Åbo	ARM 501	1	120	1954
		Total 10	840	
<u>ITALY</u>				
Bergamo	ARM 501	1	40	1955
Brescia	ARM 501	1	40	1955
Chioggia	ARM 501	1	80	1955
Cittadella	ARM 501	1	120	1955
Cremona	ARM 501	1	40	1955
Legnago	ARM 501	1	160	1954
Mantova	ARM 501	1	40	1955
Novarra	ARM 501	1	40	1955
Padova	ARM 502	1	200	1955
S. Bonifacio	ARM 501	1	120	1955
Treviso	ARM 501	1	80	1955
Venezia Centro	ARM 502	1	400	1956
Venezia Mestre	ARM 502	1	600	1956
Verona	ARM 502	1	600	1955
		Total 14	2.560	
<u>NETHERLANDS</u>				
Middelharnis sector	ARK 323	1	320	1952
Spijkenisse sector	ARK 323	1	320	1954-55
Rotterdam (DCI, II, III)	ARM 10	1	3.335	1952-54
		Total 3	3.975	
Grand Total 34			13.775	
			(excl. 1 exchange)	



ADDENDUM TO

L M Ericsson Automatic Telephone Exchange
with Crossbar Switches

Reference List

March 1, 1955

During the period 1.3.1955 to 31.8.1955, the following orders have been received in addition to those shown in the above reference list.

I. City Exchanges of Type ARF 10, 50, 51, 90

	Type	Number of exchanges	No. of lines	Year of opening
<u>Denmark</u>				
Odense	ARF 10	1	1000	1957
<u>Finland</u>				
Helsinki:				
Centrum	ARF 50	ext.	1000	1957
Degerö	ARF 50	"	1000	1957
Malm	ARF 50	1	2000	1957
Meilans	ARF 50	1	6000	1957
Sörnäs	ARF 50	ext.	1000	1957
Karis	ARF 10	1	1000	1957
<u>Irland</u>				
Limerick	ARF 51	1	2000	1957
<u>Mexico</u>				
Vera Cruz	ARF 10	1	5000	1957
<u>Yugoslavia</u>				
Kraljevo	ARF 50	1	600	1957
Kronski Venac	ARF 50	1	2000	1957
Pescenia	ARF 50	ext.	1000	1957
Rakovica	ARF 50	1	600	1957
Trnje	ARF 50	1	2000	1957

II. Community and Rural Exchanges, types ARK 31, 33, 37

	Type	Number of exchanges	No. of lines	Year of opening
<u>Finland</u>				
Borgå zone	ARK 314	3	220	1957
	ARK 315	1	140	1957
Ekenäs zone	ARK 312	1	40	1957
	ARK 314	2	100	1957
Forssa zone	ARK 312	3	160	1956
	ARK 314	-	20	1955
Jakobstad zone	ARK 314	1	60	1956
Jyväskylä zone	ARK 314	1	100	1956
Kimito	ARK 312	1	40	1956
Kokkola	ARK 312	-	20	1955
Ranma	ARK 314	2	300	1956
Vasa	ARK 312	1	40	1956
	ARK 314	1	120	1956
Åbo	ARK 314	1	160	1955
	ARK 315	1	500	1957
		<u>19</u>	<u>2020</u>	

III. Trunk, Toll and Transit Exchanges, types ARM 10, 20, 50, ARK 32

<u>Finland</u>				
Helsingfors	ARM 20	1	2600	1957 - 59
Hämeenlinna	ARM 20	1	600	1957 - 59
Jockis	ARM 501	1	40	1957
Lahti	ARM 20	1	600	1957 - 59
Seinäjoki	ARM 501	1	80	1957
Tammerfors	ARM 20	1	1000	1957 - 59
	ARM 501	1	160	1957
Vasa	ARM 501	1	80	1957
Åbo	ARM 501	-	80	1957