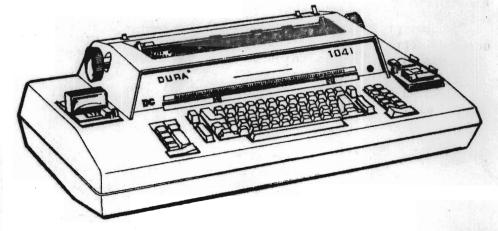# USED COMPUTER I/O DEVICES

All Dura/Itel systems and components are shipped with service literature, (unless otherwise stated). Systems shipments include logic prints, theory of logic, and adjustments for punch and readers. Depending on model ordered there are 113-170 pages of documentation. Using these aids, a person with an electronics background and some mechanical ability will be able to make adjustments when the need may arise and perform routine maintenance.

Dura MACH 10 System includes: 15.4 cps IBM selectric, 30cps paper tape reader, 18cps punch, relay logic. Uses +24v and +115v PB relays (series R10S)

Dura/Itel 1041 System includes: 15.4cps IBM selectric, 30 cps paper tape reader, 18 cps punch with transistorized logic with voltage of +12v,-12v and +24v used.

Itel 815/852 System includes: 15.4cps IBM selectric (some units use I/) selectric), 30cps paper tape reader, 18cps punch, with DTL/TTL logic boards.

Limited warranty on Dura/Itel: Complete as to major parts. Before shipment the following have been checked operationa: Keyboard to printer and punch; reader to printer and punch. If these are not operational on arrival, and there has been no shipping damage, please (1) reseat any loose relays and/or circuit boards, (2) call Kelly Anderson prepaid at (503) 282-3245 for repair instructions, (3) if still non-operational, return machine within 10 days, freight prepaid, for repair in Abbott & Lind shop. No warranty on intermittant failures or mechanical parts.

Select - Refinished and Lubed: Any of the above units can be processed as described below for an additional $250.00. Machines will be chemically cleaned, oiled, greased and basic functions adjusted. New platen and feed roll rubber. Covers painted a plasticized textured blue. 30-day, one-time exchange privilege: If machine fails within 30 days and you are unable to repair it, you may return it to us freight prepaid; we will either repair it or send you a like unit, freight prepaid. Return privilege is void if unit has been modified or incomplete.

Abbott & LIND INC.

1909 N. E. UNION • PORTLAND, OREGON 97212 • 282-3245

DURA/ITEL Specifications:

All systems are similar to photo of MACH 10. Placement
of control switches may vary on some units.

All have 8 level paper tape, unless otherwise stated.
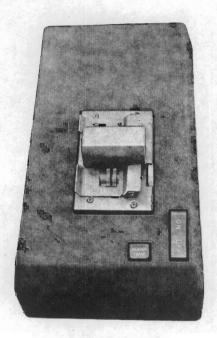Code is selectric: sometimes BCD coded systems available.

	DURA MACH 10 11"	DURA MACH 10 15"	DURA/ITEL 1041 15"
Power requirements at 115vac	200w	200w	230w
Max. paper accomodation	10-3/4"	15-1/4"	15-1/4"
Size: Width	23-1/8"	28"	28"
Depth	15-3/4"	15-3/4"	16"
Height	7-3/4"	7-3/4"	7-3/4"
Weight, plus 25# packaging	50 lbs.	60 lbs.	60 lbs.

Freight cost: Most destinations under $22.00. Example: to
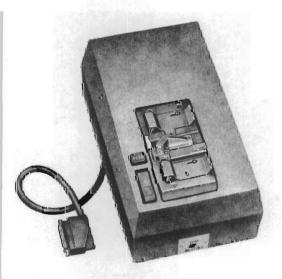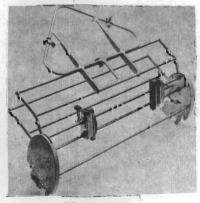Spencerport New York is $21.27 per cwt.

&Abbott LIND INC.

1909 N. E. UNION • PORTLAND, OREGON 97212

Auxiliary Reader

Auxiliary Punch

FORMALINER

USED COMPUTER I/O DEVICES

AUXILIARY PUNCHES AND READERS

MACH 10 AUX READER: (see picture at left). It is a self contained molded metal enclosure. Photo-electric reading with speed of 0-30cps, by external reader clutch signal. Output is 8 bit parallel via a 3 foot cable with Cannon plug #DC-37P. Reader is driven by helical spring clutch using AC motor power supplied thru Cannon plug. Power requirements: 115vac for motor; clutch coil, +125v; photocell transistorized circuits, +35v. Reader has cam switches for timing.

ITEL 1041 AUX READER: Same size as MACH 10 reader. Cannon plug is mounted on back of enclosure, #DC-37P. This unit runs a little quieter than the MACH reader because it uses a belt drive for the clutch instead of a gear drive. Power requirements: Motor, 115vac; Logic, +/-12v; Clutch coil, +24v. Data output is 0/12v.

Size: Height, 4-3/4"; Width, 7½", Length 13"

MACH 10 READER: Just the reader as removed from a system. You supply mechanical power to drive the nylon gear. Or better yet, drive the sprocket feed shaft directly with motor for higher speed operation. Reader has two mounting screws on its side frame for mounting to your supports. Photocells only, dosen't have transistor circuitry, prints are included showing how to develop your own. Photocell output is thru ELCO #8125 32 pin (male) plug.

*   *   *

MACH 10 AUX PUNCH: 8 level, in same type and size enclosure as the readers 0-18cps. Power requirements: punch coils and clutch coil, +125v; Motor, 115vac. Connection is made via Cannon DC25P.

ITEL 1041 AUX PUNCH 8 level, in same type and size enclosure as the readers. Power requirements: Logic, /+12v, +24v: motor, 115vac. 0-18cps.
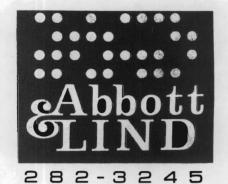
MACH 10 PUNCH: Punch only as removed from a system. 8 level tape. Requires +115v to operate clutch and punch coils. Connection is thru ELCO #8125 32 pin (male) plug. Has two mounting screws on side frame (see enclosed photo of punch only). Includes schematics. You supply motor to operate. Also great for parts if you already have a punch. 0-18cps.

*   *   *

FORMALINER: Feed your fanfold paper using one of these units. Fits 15" platens. Includes platen extensions. Is driven from supplied gear for the right side of your platen.

K-10 Interfaces MACH 10 to TTL levels

K-1041 Interfaces ITEL 1041 to TTL levels

Abbott & LIND

282-3245

The interface is basically a voltage level converter with the signals from the K-1041 terminating through a five foot cable, so that you may use the correct connector to wire into your parallel interface board of your uP system. Signal lines include: 8 parallel input data, 8 parallel output data, 2 handshake, 2 status. Power is supplied from Dura/Itel system, 2 lines. Code conversion is through software not included. Board comes with metal enclosure and includes installation instructions for wiring to your system.

* *

Codes used by DURA/ITEL SYSTEMS

MACH 10 SELECTRIC

STD. CHANNEL NO. (8 7 6 5 4 • 3 2 1)	L.C.	U.C.
	a	A
	b	B
	c	C
	d	D
	e	E
	f	F
	g	G
	h	H
	i	I
	j	J
	k	K
	l	L
	m	M
	n	N
	o	O
	p	P
	q	Q
	r	R
	s	S
	t	T
	u	U
	v	V
	w	W
	x	X
	y	Y
	z	Z
	1	(
	2	@
	3	#
	4	$
	5	%
	6	¢
	7	&
	8	*
	9	(
	0	)
	,	,
	.	.
	;	:
	-	—
	/	?
	!	•
	'	"
	=	+
	STOP CODE	
	CARRIER RETURN	
	SPACE BAR	
	UPPER CASE	
	LOWER CASE	
	BACKSPACE	
	TAB	
	DELETE	
	NONPRINT	
	PRINT RESTORE	
	SKIP RESTORE	
	PUNCH ON	
	PUNCH OFF	
	1st LINE/DURA FEED/INDEX	

103-1064

MACH 10 B.C.D.

STD. CHANNEL NO. (8 7 6 5 4 • 3 2 1)	L.C.	U.C.
	0	b
	1	
	2	
	3	
	4	:
	5	@
	6	∨
	7	>
	8	
	9	
	A	
	B	
	C	
	D	(
	E	⌑
	F	≠
	G	<
	H	
	I	
	J	
	K	
	L	
	M	)
	N	*
	O	∆
	P	;
	Q	
	R	
	S	
	T	
	U	=
	V	%
	W	"
	X	'
	Y	
	Z	
	-	
	/	
	$	
	,	
	.	∨
	&	&
	#	—
	*	¢
	STOP	
	BACKSPACE	
	UPPER CASE	
	LOWER CASE	
	DELETE	
	CARRIER RETURN	
	SPACE	
	TAB	
	NONPRINT	
	PRINT RESTORE	
	SKIP STOP RESTORE	
	FIRST LINE	
	PUNCH ON	
	PUNCH 2 ON	
	PUNCH OFF	
	TRANSFER READ	

USED COMPUTER I/O DEVICES

DURA/ITEL   PRICE

DURA MACH 10	11" platen	$ 825.00
DURA MACH 10	15" platen	925.00
DURA/ITEL 1041	15" platen	1250.00
ITEL 815/852	15" platen	1350.00
DURA MACH 10 AUX READER		65.00
DURA/ITEL 1041 AUX READER		85.00
DURA MACH 10 READER ONLY		45.00
DURA MACH 10 AUX PUNCH		75.00
DURA/ITEL 1041 AUX PUNCY		75.00
DURA MACH 10 PUNCH ONLY		55.00
FORMALINER		75.00

FRIDEN FLEXOWRITER

Model FL	With 6 level paper tape punch and reader	200.00
Model SFD	With 8 level paper tape punch and reader	600.00
Model 2201	15" platen, table, tape winder, has program panel and 13 program keys	800.00

KELLY INTERFACE (new)

	KIT	ASSEMBLED
K-10 Interfaces MACH 10 to TTL levels	$159.00	$250.00
K-1041 Interfaces ITEL 1041 to TTL levels	129.00	225.00

NEED PARTS?

We have a full line of new and used Dura/Itel parts available
to those who have purchased machines from us. $10.00 minimum
order, BAC payment only. Orders only accepted with part numbers.

All Merchandise:

F.O.B. Abbott & Lind Inc.
C.O.D. orders require 50% deposit
BankAmericard orders accepted, freight collect.
Stock subject to prior sale
Prices subject to change without notice, please get
current prices when ordering.