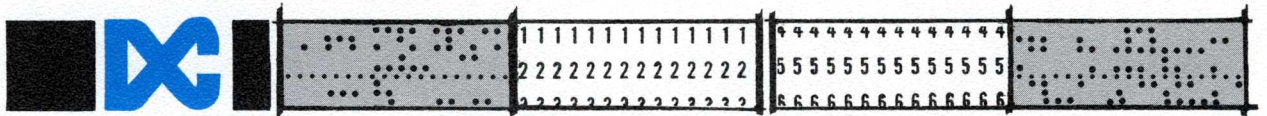


DURA business machines, inc.

Code
Converters



**TAPE-TO-CARD; CARD-TO-TAPE;
OR A COMBINATION UNIT**

DURA

CONVERTERS not only make your Data Processing efficient . . . they often make it possible. Dura's unmatched programs save you costly changes in forms and card format when integrating

ORDER WRITING • TELETYPE TRANSMISSION

PAYABLE AND RECEIVABLE • COMPUTER COMMUNICATIONS

RECORDS • NUMERICAL CONTROL • AUTOMATIC CONTROL

TARY) • AUTOMATIC GRAPHOTYPE CONTROL



CONCEPT SIMPLICITY, SPEED, RELIABILITY AND UNMATCHED PROGRAMMING FLEXIBILITY

Simplicity of Concept — The concept of code conversion is easy to comprehend:

a. Tab card fields to be converted are selected by the front drum program card of the Key punch.

b. Any card columns within the fields which require special programming are defined by codes on the rear program drum card.

c. The conversion from one code to another code, as well as the logic for particular applications, are programmed into the wiring plugboard.

d. Because the programming logic is based on principles similar to unit records equipment (Tabs, Collators, etc.), it can easily be understood by *Non-Technicians*. This means that your personnel will, after a short training period, be able to program your applications.

Speed — Dura Converters are faster than any other equipment

in their price range, at the rate of 100 cards per minute. Tape is converted into tab card format and vice versa into tape.

Reliability — Only quality components, such as plugboards, relays, are used in the manufacture of Dura Converters. Quality components mean: *maximum reliability, minimum maintenance*.

Unmatched Programming Flexibility — Dura Converters offer more programming features than any other converter on the market.

Universal Code Conversion — Universal Code Conversion channel code presents no problem. No exclusive plugboard wiring temporary.

Code Control — Since all codes are programmed on the wiring plugboard they can be used as selector and program pick up.

1.

CONTROL PANEL: A. CARD-TO TAPE, B. TAPE-TO-CARD

Conversion, programming and distribution circuits are packaged in the control panel module. In single units either a card-to-tape or tape-to-card panel is mounted to the Key punch. In combined card-to-tape, tape-to-card units both panels are attached to the Key punch. The portable plugboard sub-module is housed in the control panels to facilitate rapid removal or insertion when changing programs. The removal or insertion of a plugboard is controlled by a pull up lever.

2.

PLUGBOARD (STANDARD 901 PANEL USING SELF CONTACT WIRES —MANUAL OR FIXED)

The portable plugboard provides access to the logic circuits for programming information read by the Key punch (in card-to-tape) or tape reader (in tape-to-card). The programming logic is based on the same principles as used in the control panel wired unit records equipment and therefore can be understood easily by *NON-TECHNICIANS*. After programming, the plugboard can be stored for future use.

Processing System more programming flexibility can be added to existing systems for:

- INVOICING • ACCOUNTS
- OPERATIONS • PERSONNEL
- TACTIC FIRING CONTROL (MILITARY)
- AUTOMATIC CORRESPONDENCE

at 18-20 characters per second. — or tab cards are converted

systems meeting the highest performance requirements of wire circuits and the ruggedness of Dura Converters. And long operating hours, with mini-

flexibility — Dura Converters offer more than any other control-panel-wired

can be put out of or into any 5, 6, 7 or 8 channels through the use of DURA'S modular configurations.

They are available externally on the system and can be utilized to control functions such as

CARD-TO-TAPE



TAPE-TO-CARD



Greater Accuracy — during tab card reading, code validity check detects erroneous codes and automatically stops the converter. Parity check of odd- or even-bit codes are made during tape punching (including 5-channel teletype).

Unmatched Flexibility — Dura's unique programming device permits emission of more codes in any desired sequence or configuration. Up to 72 codes can be emitted by the eight 9-step programs. The execution of program steps and card reading can alternate as desired to facilitate the most demanding program requirements.

Column Code Selection Device — when energized, makes all codes available from 1 to 12 in any desired card column for control purposes.

High Order Zeros Suppression — high order zeros, zeros left of the most significant digit in a card field, are detected and either omitted in output tape punching or converted to spaces.

Consecutive Blank Column Detection Device — this device saves conversion time by skipping over blank columns in name and address, description, and other variable length fields.

Column Split Device — when programmed, this standard feature permits separation of 11 and 12 zone punches from digits 0 to 9 numeric information.

Wiring Template — the Universal Programming Concept is simplified by Dura's wiring template available for all known 5, 6, 7 or 8-channel tape codes which aids the programmer in wiring a desired program. The wiring template provides a visual display of all possible code entries when responding to an output tape.

Selectors — 10 three-position selectors are standard with all Dura Converters. An additional 10 selectors, 2 three-position and 8 two-position, are optional.

Speed — Dura Card-To-Tape Converters convert tab cards 100% faster than conventional converters: 20 codes per second with the 024 Card Punch or 18 codes per second with the 026 Card Punch.

Greater Accuracy — parity checks odd- or even-bit codes during tape reading and automatically stops converter if an erroneous code is detected.

Error Correction — error correction procedures are simplified by the ability to stop the converter and add information to the card with the keyboard without losing the sequencing or dropping out of the program.

Special Codes — eleven plugboard entries facilitates punching of special codes (&, -, /, #, (,), @, %, *, □ etc.) without sacrificing any distributors.

Tape Delete Function — this entry, when the converter is in the delete mode, initiates space, release and duplicates keypunch functions.

Wiring Template — the Universal Programming Concept is simplified by Dura's tape-to-card wiring template which aids the programmer in wiring a desired program. The wiring template provides a visual display of all possible code exits when responding to the input tape.

Selectors — 10 three-position selectors are standard with all Dura Converters. An additional 10 three-position selectors are optional.

Speed — 20 codes per second with 024 or 18 codes per second with 026 punch card.

3.

KEYPUNCH

The 024 or 026 Keypunch performs a dual role as an automatic tab card reader for card-to-tape conversion, or as a card punch during tape-to-card conversion. It can also be utilized as a Standard Keypunch.

4.

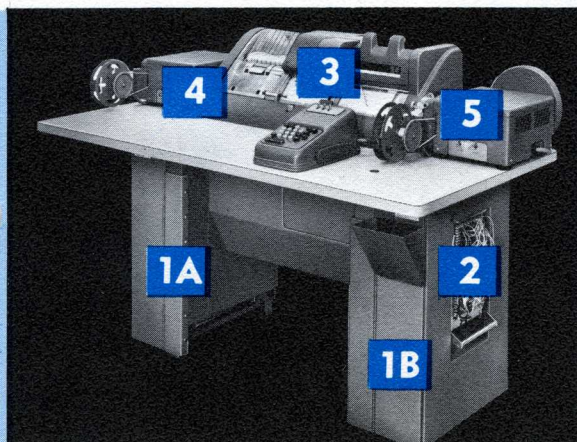
TAPE READER

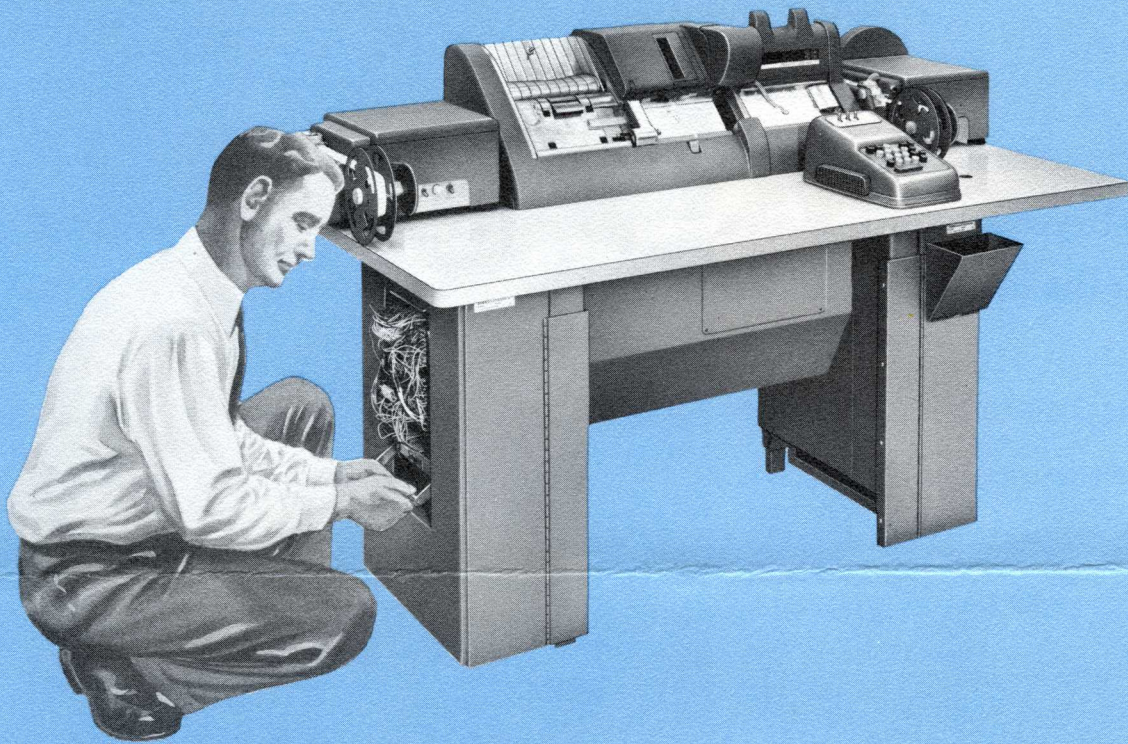
The tape reader accepts any 5, 6, 7 or 8-channel tape (including 5 channel Chadless). Edge card reader is optional.

5.

TAPE PUNCH

This tape punch perforates 5, 6, 7 or 8-channel tape in any code configuration (the edge card punch is optional).





Dura Converters may be installed at your facility utilizing your own or rented 024 or 026 Card Punch as desired.

Dura representatives are specially trained to initially install the equipment, train your personnel, and show how Dura Converters are utilized to fulfill your applications.

Dura Converters and other data processing equipment are available through a network of Dura Sales & Service Centers and branch offices from coast to coast. For additional information write:

DURA business machines, inc.

Home Office: 32200 STEPHENSON HIGHWAY... MADISON HEIGHTS, MICHIGAN

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Dura reserves the right to make changes at any time, without notice, in specifications, equipment, models and prices, and also to discontinue models.

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