

TECHNOLOGY

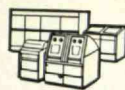
REVIEW

July 1959

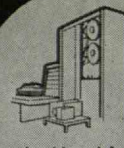


Friden

Teleregister

Companie
De Machine Bull

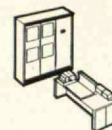
Burroughs 220



Lockheed Acre

GPE Controls
Libratrol - 500

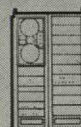
Nortronics Datico

Consolidated
Electrodynamics
Puse

"Secret"



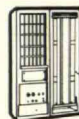
IBM - Sage



Honeywell 3170



"Secret"



Epsco Stardac

General Mills
ApsacLibrascope
LGP-30Stromberg-Carlson
S-C 4000Electronic
Associates
Pace

Bendix Pogo

Remington Rand
Univac IINational
Cash Register
304

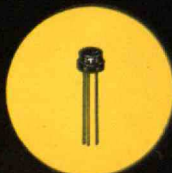
Honeywell 800

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there's
electronics...**

there's Transitron

The heart of each of these computers consists of Transitron semiconductors. They provide the speed and reliability so essential to accurate performance. These machines are the calculating geniuses which guide more and more of the world's business and defense. At Transitron more than 3500 employees work exclusively to develop and produce high quality silicon and germanium semiconductors. In computers — as in missiles, radar, atomic subs, communications, jets, and thousands of other military and commercial applications — wherever there's electronics, there's Transitron, leading the field in advanced semiconductor reliability.

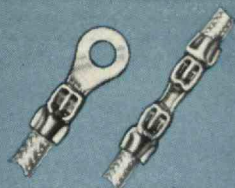
TRANSISTORS • DIODES • RECTIFIERS • REGULATORS • VOLTAGE REFERENCES



Transitron

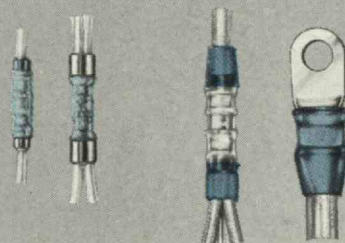
electronic corporation • wakefield, massachusetts





STRATO-THERM TERMINALS AND SPLICES

- up to 1200°F. operating temperature
- solid, stranded or combination conductors
- shock and corrosion resistant
- wire size range 22-10 AWG
- serrated inner barrel for maximum tensile strength



CERTI-SEAL SPLICES AMPLI-NYL TERMINALS AND SPLICES

- combined wire size range 22-2/0 AWG
- exceed millivolt-drop specifications
- finest nylon pre-insulation
- shock and corrosion resistant
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... AMP's product is more than fine circuit terminals . . . more than remarkably precise compression-crimp tooling . . . more than an error free, fast method of attachment.

AMP's product is finished crimp-type terminations on your circuitry wires . . . by the hundreds or millions . . . of the highest reliability . . . performing under gruelling conditions . . . from basic terminals to complete patchcord systems.

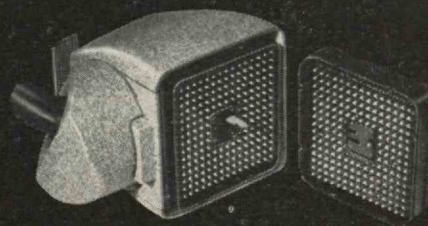


PATCHCORD PROGRAMMING UNITS (Airborne "240" shown)

- universal or shielded systems
- patented wiping action pre-cleans pins and contact springs
- nylon sleeve insulates and firmly seats patchcord pin in board
- contacts have rear board accommodation for taper pins to provide reliable solderless lead terminations

200 CONTACT CABLE CONNECTORS

- extremely reliable disconnect for ground electronic and instrumentation application
- connector can be electrically disengaged without mechanical separation
- five indexed positions to permit strain-free cable exit
- identical inserts and contacts in both halves
- polarized to prevent improper coupling—has numbered cavities to assure proper circuit identification



COMPLETE INFORMATION ON THESE FOUR PRODUCT LINES IS AVAILABLE ON REQUEST.

AMP INCORPORATED

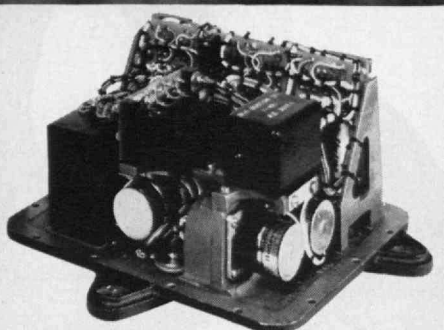
GENERAL OFFICES: HARRISBURG, PENNSYLVANIA

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NEW GLASGOW, NOVA SCOTIA, CANADA



Three Gnat Gyros in Honeywell Three-Axis Turn Rate Transmitter. Size: 8.6" x 6.3" x 5.24". Weight: 5 pounds.



Convair F-106 all-weather jet interceptor incorporates Honeywell Three-Axis Turn Rate Transmitter in flight control damper system

Three-axis control at all speeds and altitudes

The Honeywell Three-Axis Turn Rate Transmitter, featuring three Gnat miniaturized gyros, was selected for the new Convair F-106 "Delta Dart" all-weather jet interceptor. Built into the stability augmentation sub-system of the jet's flight control system, the Transmitter detects rate of turn about the yaw, pitch and roll axes and responds with an output signal whose voltage is proportional to these input rates of turn.

This system is designed to operate under the most severe environmental conditions to which a combat aircraft might be subjected. The Honeywell Gnat Rate Gyros are easily capable of withstanding the severe shock, vibration and temperature requirements of this application and as such are mounted directly upon the base casting without shock mounts to optimize dynamic characteristics of the system.

The electronic portion of the Turn Rate Transmitter amplifies and demodulates the Gyro output signals to provide polarity reversing d-c outputs proportional to the corresponding input rate to each Gyro.

Investigate Honeywell's ability to develop, engineer and produce flight control systems for today's most advanced aircraft and missiles. Write for Bulletin GN to Minneapolis-Honeywell, Boston Division, Dept. 1, 40 Life Street, Boston 35, Mass.

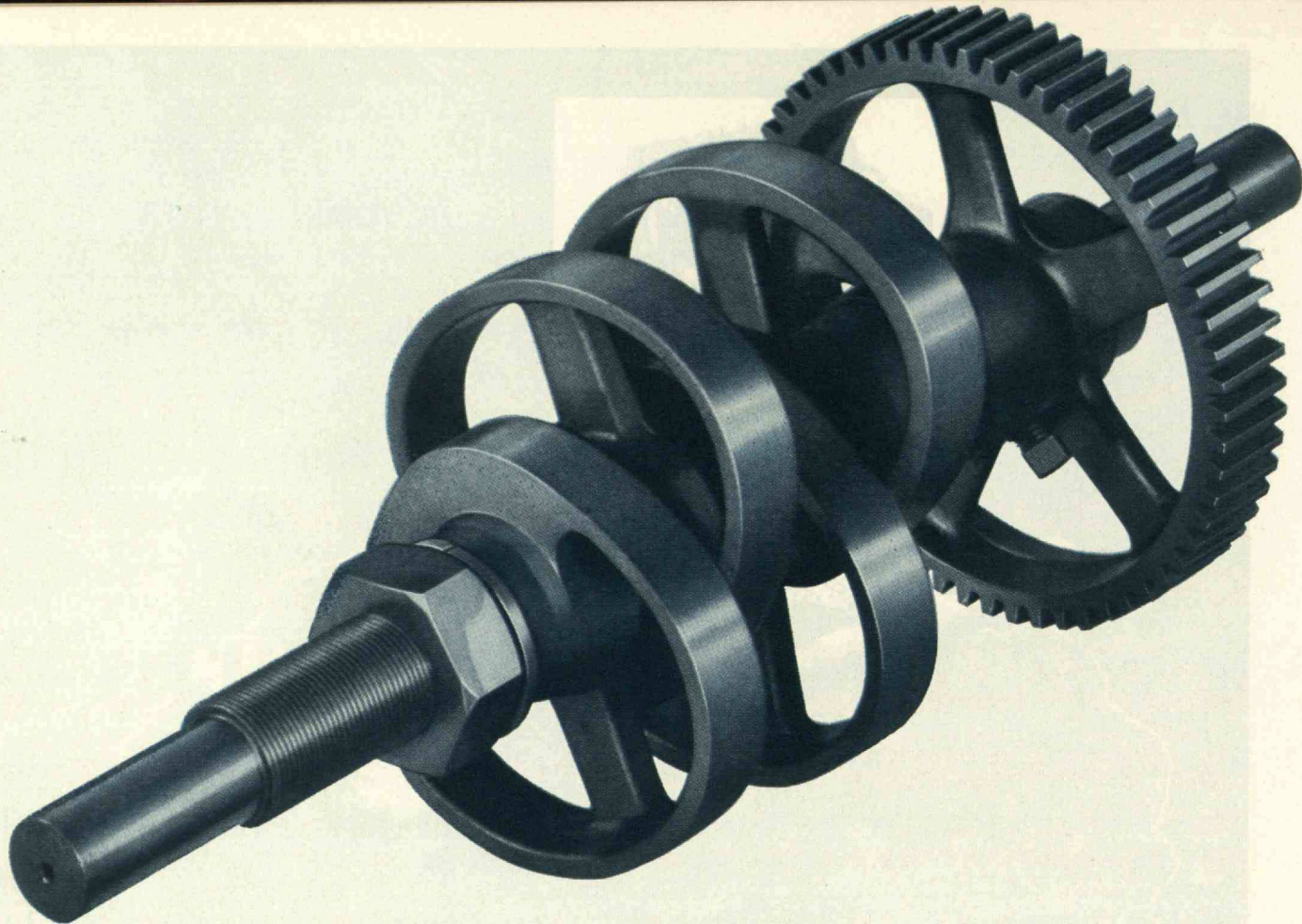


Gnat Rate Gyro shown 1/2 size. Weight: 3.8 ounces.

Honeywell



Military Products Group

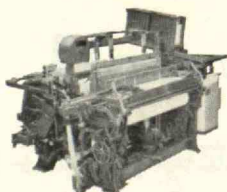


Dependability is built into Draper looms . . . part by part

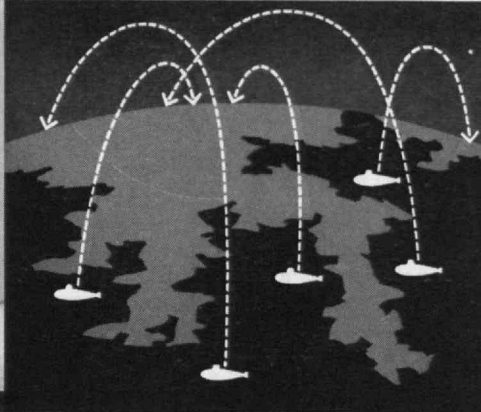
Regardless of size, shape or location, each part is engineered and manufactured to precise tolerances. As a result, *Draper* has become the accepted name for quality and dependability throughout the textile industry.



DRAPER CORPORATION



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ATLANTA, GA.
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STRATEGIC IMPORTANCE of Polaris is seen in this symbolic map showing possible launching sites. Every major body of water on earth is potential site for Polaris. 1500-mile range covers most of world's land area.



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Another example of diversified work available to engineers at SPERRY

Sperry offers you the kind of work engineers thrive on — big assignments, interesting, important, diversified. Assignments connected with world-famous projects like the Polaris Missile. Launching a missile at a distant target from a maneuvering atomic sub presents extraordinary navigation problems. Location of the sub must be known precisely. To provide exact navigation data, Sperry is developing for the Navy advanced electronic and gyroscopic systems that will stabilize the sub, continuously establish its precise position and true speed, and feed target data automatically into the missile's guidance system.

That's the kind of assignment you will get, at Sperry. The kind of assignment that puts you side-by-side with some of America's foremost engineers. The kind of assignment that not only offers you a good job *now*, but also exceptional opportunity for advancement. Sperry engineers are career engineers. They grow with the firm — and Sperry has a remarkable record of almost a half century of continuous growth! No wonder most of our top men are engineers who have worked their way up. Our present production and future potential are both at record levels. Check Sperry — now!

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An Announcement

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The Components Department — gyroscopes, accelerometers, and auxiliary controls of exceptional reliability

The Central Manufacturing Department — precision contract production.

We of the Military Products Division are proud of our history of association with the Institute, and welcome this opportunity to congratulate Dr. Stratton and wish him and M.I.T. success in continuing leadership.

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accurate to 1 second in 12 days



TIMES MODEL TS-3 CHRONOMETER

Program timer, pulse generator and clock. Timing assemblies, driven by the clock motor, provide momentary contact closings at rate of

• ONCE A SECOND • ONCE A MINUTE • ONCE AN HOUR

also optional frequency or pulse outputs as specified in range between 10 and 1000 cps.

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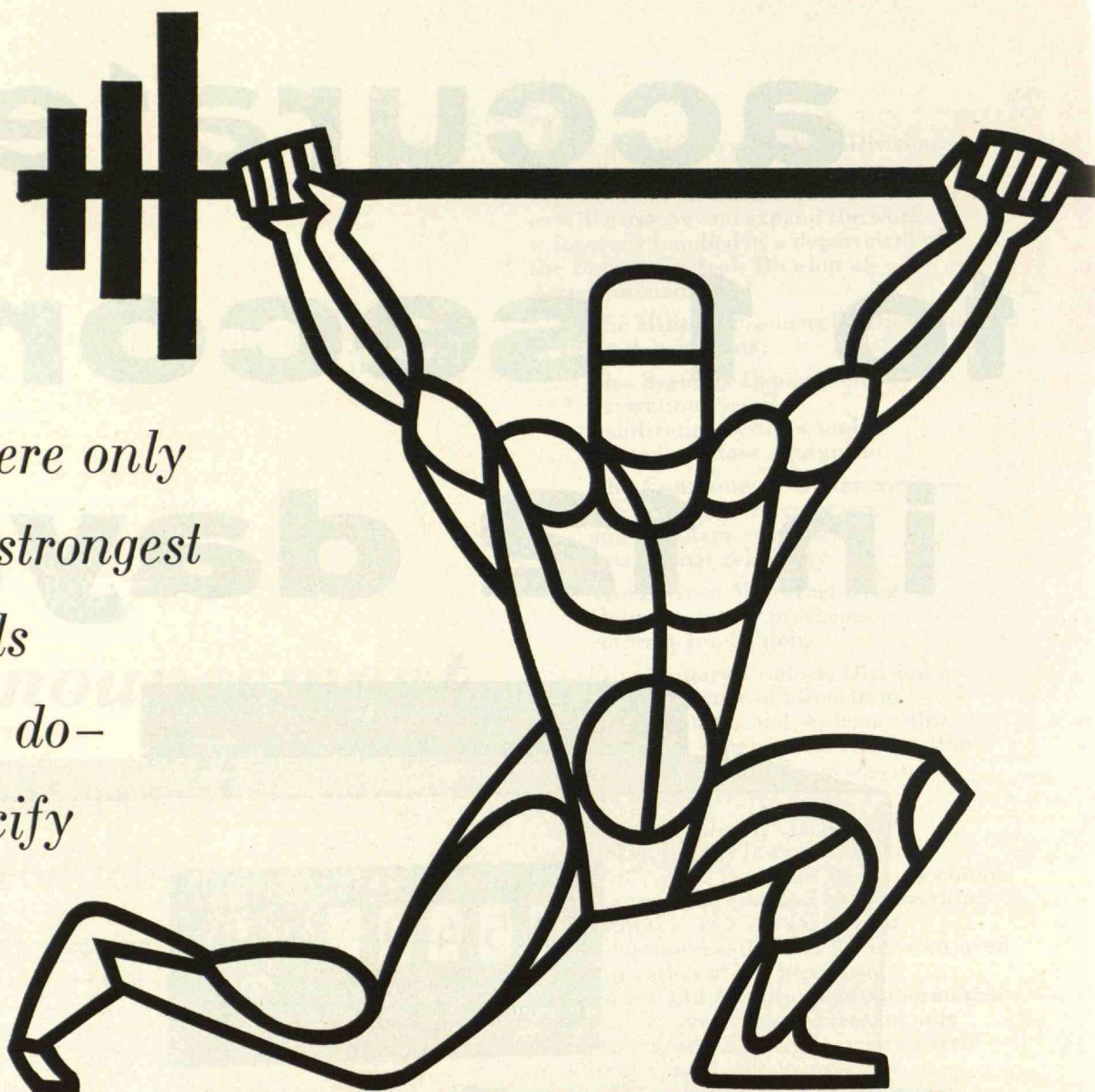
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