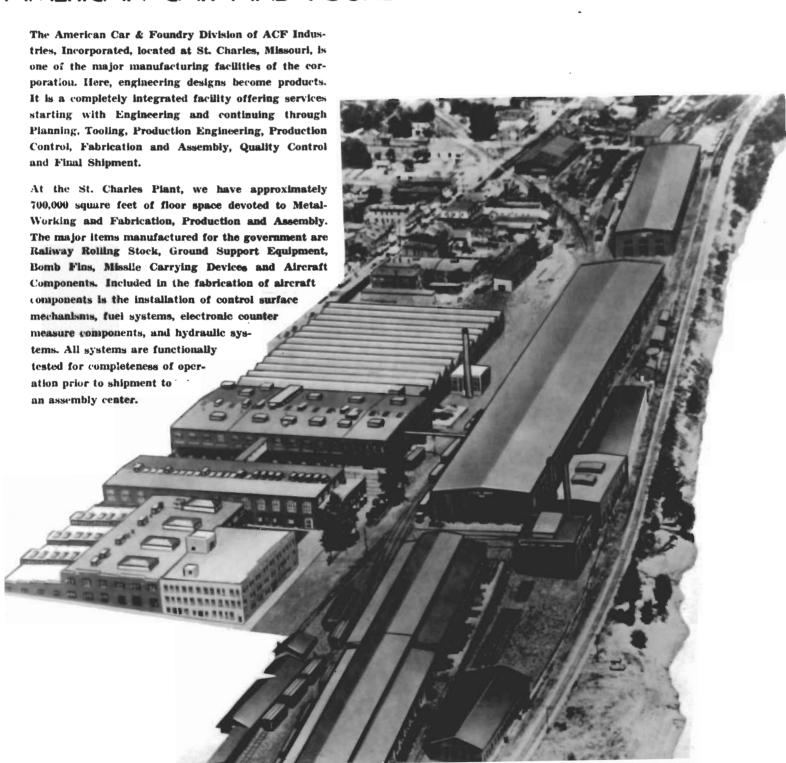
QCf INDUSTRIES

St. Charles, Missouri

AMERICAN CAR AND FOUNDRY DIVISION







PRODUCTION ENGINEERING

FACILITIES...

PLANNING — Here engineers plan the completed product, piece by piece, assembly by assembly. Each part has a scheduled sequence of operations for manufacturing efficiency.



TOOL DESIGN — Experienced tool and die people create tools for efficient and economical manufacturing.

LOFT AND MOCK UP -

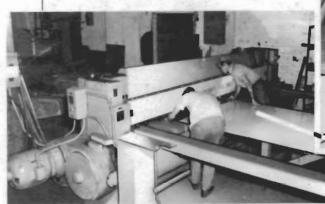
Experienced personnel translate complex designs into detailed layouts onto metal or glass cloth that guide production.



REPRODUCTION IN METAL—Master-drafts accurate to .005 of an inch are drawn on glass cloth and reproduced on aluminum because paper shrinks and expands in heat and cold.



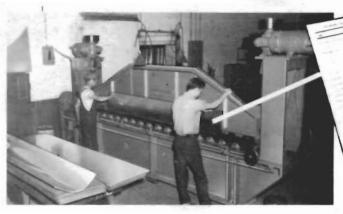
FACILITIES ...



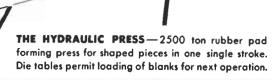
SHEAR DEPARTMENT—Dependable accurate shearing through use of micrometer back gages for economical production.



CONTOUR FORMING—Through use of this equipment complex sheet metal parts and extruded shapes may be formed.

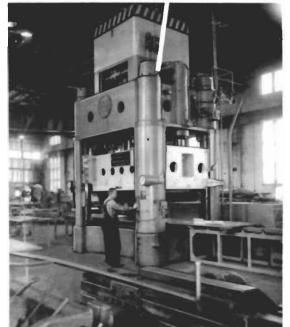


FORMING ROLL—Fast accurate forming of long skin section, leading edges of ailerons, rudder and elevator skins, and many other sheet metal parts of cylindrical or conical shape are accomplished on this machine.





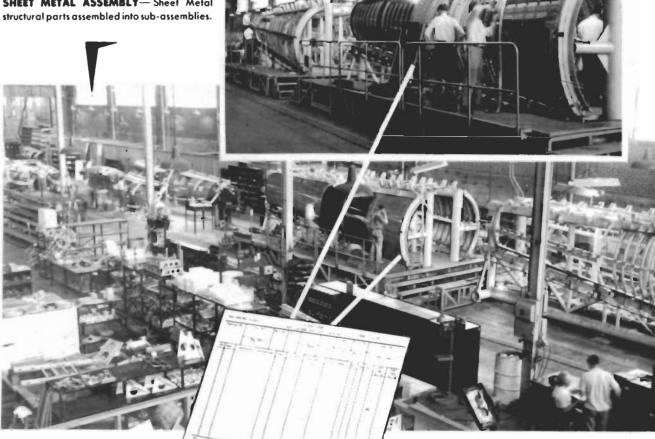
RADIAL ARM ROUTERS—Through use of high speed spindles in routing and drilling, accuracy can be improved at economical costs.





FACILITIES...

SHEET METAL ASSEMBLY-Sheet Metal



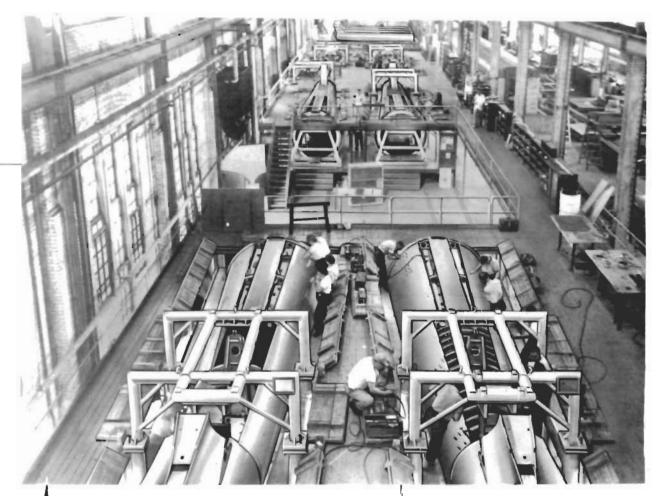
WIRE HARNESS DEPARTMENT - Miles of wiring are marked, plugs attached, routed, assembled into bundles and checked for continuity.



MACHINE SHOP -- This well equipped machine shop provides complete facilities for quantity production of machined parts of all types.



FACILITIES...



View of final assembly line of aftfuselages of the B-47"Strato-jet" Bomber.

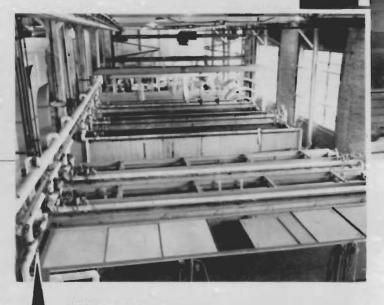
■ Completed ACF-built tuselage att section of B-47 bomber is joined to rest of aircraft at giant Douglas plant in Tulsa, Oklahoma.







FACILITIES ...



HEAT TREATING SECTION —
A complete facility for heat treating non-ferrous metals.

SPECIAL FINISHES SECTION—This unit provided complete facilities for applying corrosion resistant finishes to metals.

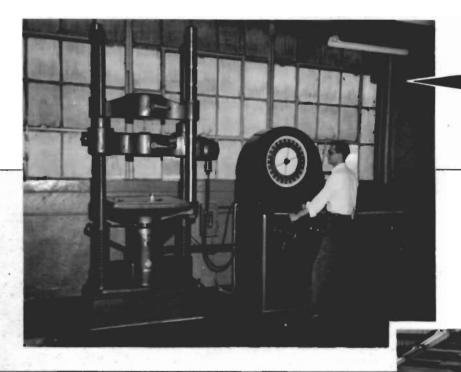
HEAT TREAT SECTION—A complete facility for heat treating metals other than non-ferrous.

PAINTING SECTION—Complete conveyorized paint facilities for spray and dip painting.









TESTING SECTION—Complete facilities for testing of metals to determine physical properties.

CHEMICAL LABORATORY-Contains complete facilities for analysis of metals, metal treatment processes, plostics, etc.

METALLURGICAL LABORATORY—Complete facilities for the analysis of metals; view showing microscopic study of structure of metals or alloys.





FACILITIES...



INSTRUMENT LABORATORY—This laboratory is supplied with filtered air and contains complete facilities for the assembly and testing of precision instruments.



ENVIRONMENTAL TEST CHAMBER—A piece of equipment is being tested in a climate chamber to determine its resistance to salt spray.

INSTRUMENT CALIBRATION LABORA-

TORY — All precision instruments are calibrated and tested under controlled conditions.



HYDRAULIC TEST STAND — At this stand hydraulic pumps and motors undergo operational tests. The use of this equipment detects even slight defects, which may cause system failures, so they may be eliminated.



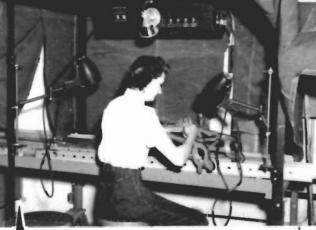
INSPECTION FACILITIES ...



RECEIVING INSPECTION — All Parts and material flow through this section to insure that specifications and drawing tolerances are to acceptable standards.



PARTS INSPECTION — All in process parts are inspected to A.C.f. standards and checked to insure quality in finished product.



ZYGLO INSPECTION — Non-ferrous castings and structural parts are Zyglo inspected to assure quality of product.





TOOL AND GAGE CONTROL — Through use of optical comparator gages are inspected for acceptable tolerances.

MAGNAFLUX INSPECTION — Examination of castings and structual parts assures quality in finished products.



FACILITIES

COMPLETE STAFF of Tool, Die, Jig and Fixture Designers together with experienced Template Makers, Tool and Die Makers, Jig and Fixture Builders and sufficient floor space are available for your tooling program.

