

NASA/MARSHALL SPACE FLIGHT CENTER

JOINT COUNSELING SESSION



HUB Corporation

Hubert Humphrey. President & CEO

March 8, 2023

Background

COMPANY NAME:	HUB Pattern Corporation	ADDRESS:	2113 Salem Avenue, S.W. Roanoke, Virginia 24016
OWNER:	Hubert Humphrey	CONTACT NAME:	Hubert Humphrey
EMAIL:	hub@hubcorp.net	YEARS IN BUSINESS:	50+
CAGE CODE:	4RFL4	DUNS NUMBER:	003122959
WEB SITE:	www.hubcorp.net	NAICS CODES:	332710, 332999, 333511, 333514, 336411, 336611, 541330 , 541990

Business Size & Classifications

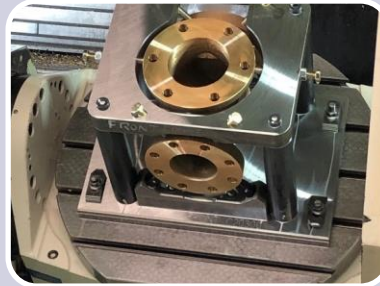
TOTAL EMPLOYEES:	15
AVERAGE SALES:	\$3,500,000 (Range \$2.5-\$5.5MM)

CLASSIFICATIONS (select from list below):	Yes/No
SMALL BUSINESS	Yes
SMALL DISADVANTAGED BUSINESS	Yes
NATIVE AMERICAN-OWNED	No
ALASKAN NATIVE CORPORATION	No
WOMEN OWNED	No
ECONOMICALLY DISADVANTAGED WOMEN OWNED	No
VETERAN-OWNED	No
SERVICE DISABLED VETERAN OWNED	No
HUBZONE CERTIFIED	Yes
8(A) CERTIFIED	No
8(A) EXPIRATION DATE (if applicable)	No

Quality Systems

- **AS 9100D / ISO 9001:2015**
 - Certificate No. US017192 (Valid until 23-Sept-2025)
- **ITAR Registered (M20546)**
- **Joint Certification Program Approval (JCP #77010)**
- **NIST 800:171 / SPRS Assessment**
- **APQP/PPAP Experience**
- **Lean Six Sigma – Black Belt**

Skills & Processes



Composites Tooling

Winder Assays
Slurry Baths and Rollers
Autoclave Tooling Assemblies
Nozzle Assemblies

Electra/Hydro/Mechanical

Gearboxes
Actuator Components
Power Bridge, Bottom Half
Motor Mounting Housing

Machined Parts

5-Axis CNC Milling
CMM Inspection
Turning
Blanchard Grinding

Minor Assembly

Small Subassembly
Air Separation Module
Pneumatic Manifolds w/ Helicoil Inserts
Optical Components for Night Vision

Metals: 4140 Alloy Steel, Aluminum (6061, 7075), 300 Series Stainless Steel, Titanium, Inconel, Monel 400, 15-5PH, 17-4PH, Brass, 1018 Carbon Steel, Invar

Plastics: ABS, HDPE, LDPE, Polycarbonate, Delrin, Ultem, UHMW, Teflon, Nylon, etc.

Additional: Graphite, G10-Garolite, Various Composites

Skills & Processes (Cont.)

Workcenter	QTY	Average Bed Size
5-AXIS	7	31.5 x 27.5 x 20 - Spindle Speed 12000 RPM
4-AXIS	2	22" x 48" + 4 th Spindle Speed 12000 RPM
3-AXIS	11	Largest: 80 X 42 X 31 - Spindle Speed 10000 RPM Average: 42 x 24 x 24 - Spindle Speed 12000 RPM
LATHE – <i>Live Tooling</i>	8	8" DIA - 5000 RPM
COORDINATE MEASUREMENT MACHINES (CMM)	3	5-Axis Renishaw Ph 20 CMM Limits - x 36.4", y 35.6" , z 22.7"
SUPPORTING EQUIPMENT		Flow Bengal 4x4 Waterjet Belmont Mx-140W Sinker EDM Parts Washers (115V, 30 GAL HDPE TANK) Blanchard Grinder Glass Bead Blast Borescope Faro Arm Saws Optical Comparator

Customers



Principle Point(s) of Contact

NAME	TITLE	PHONE	EMAIL
Hubert Humphrey	President & CEO	540-342-3505	hhumphrey@hubcorp.net
Eric Potter	VP of Engineering	540-342-3505	epotter@hubcorp.net
H. Tolison Humphrey	Operations	540-342-3505	thumphrey@hubcorp.net