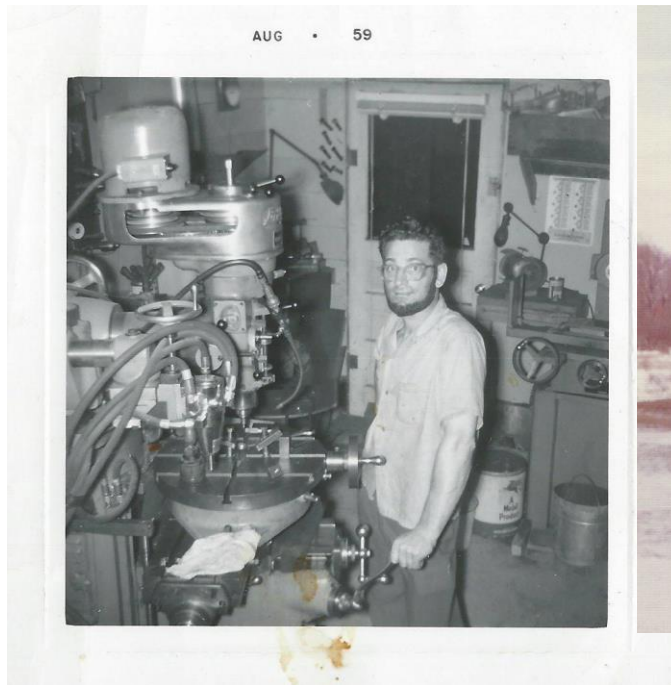


FRANCHINO
MOLD & ENGINEERING

5599 W. GRAND RIVER AVE.

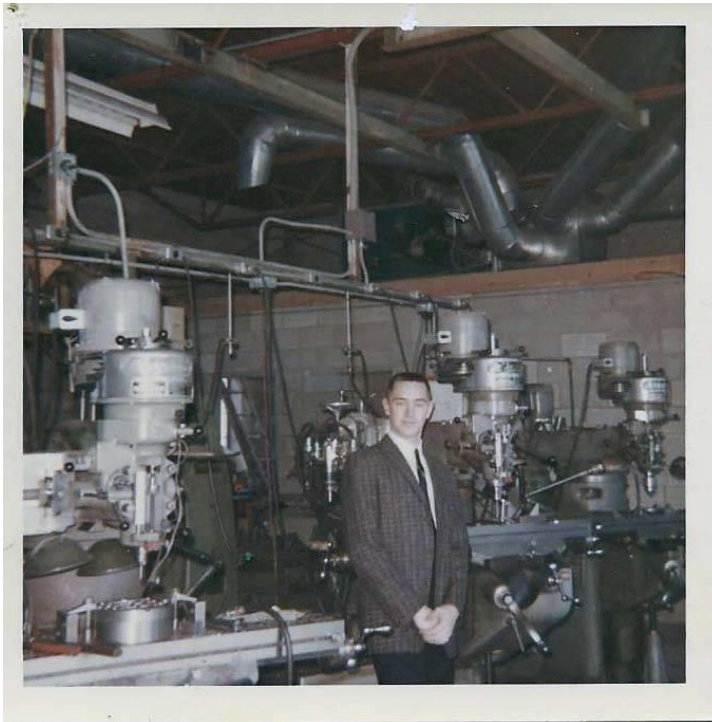
FMEC - History

- Founded in 1955 – celebrating 70 years.
- Richard Franchino (Founder) – Craftsman/Toolmaker



FMEC - History

- Bob Franchino joined in 1974
- Business/Engineering



FMEC – People, Process & Technology

FMEC – What do we do?

- Design & Manufacture complex, highly engineered Die Cast Dies and Plastic Injection Molds
- Die/Mold Repair
- Contract Machining

FMEC – People, Process & Technology

People

- FMEC's #1 Resource
- Attract, train, and retain good people
- Hire for Character
- Train for Skill

FMEC – People, Process & Technology

- FMEC internal Apprenticeship Program



Apprenticeships – CNC Machinist, Moldmaker & Die Welder - Praeco Skills, LLC –
7 current

Educational Benefit – LCC – Manufacturing Engineering Technology – Design or
Machining Associates

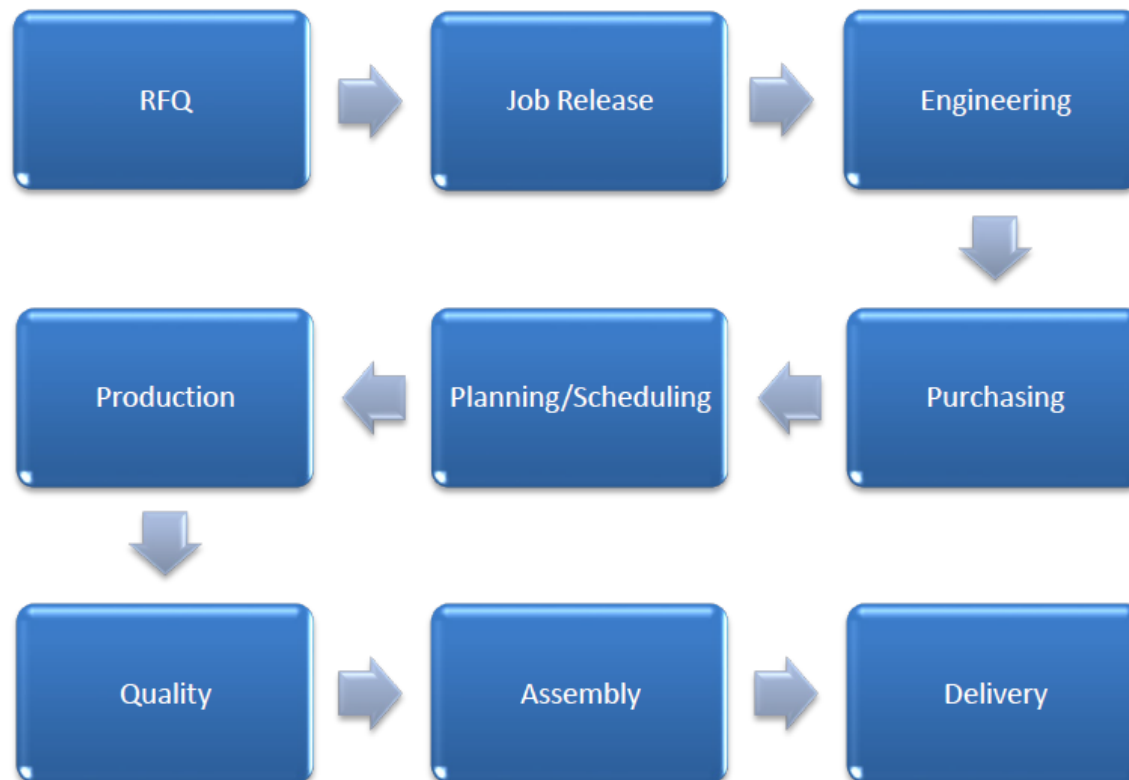
FMEC – People, Process & Technology

Process

- ISO 9001:2015 Certified
- Define a process and follow it
- Refine and change, if needed, for continuous improvement

FMEC – People, Process & Technology

FMEC – Work-Flow



FMEC – People, Process & Technology

Technology

- Without the investment in new technology we have made, we would not be where we are today
- Goal: Find and obtain technology that is advanced, flexible and automated.

FMEC – People, Process & Technology

Who do we do this for?

- Automotive
- Aerospace
- Agricultural
- Consumer Products
- Construction
- Furniture/Household
- Marine/Military
- Material Handling

FMEC – People, Process & Technology

- **90,000 SQ. FT. of Manufacturing**
- **Climate controlled shop**
- **Phase 1 completed 2023. Assembly area 80' x 200' - 80-ton crane capacity with multiple auxiliary cranes. Slide #5**
- **Phase 2 – additional 200' with additional 100-ton crane capacity.**
- **Additional Facility upgrades**

Assembly Area Expansion





- 20,000 Sq. Ft. Assembly area – 80-ton main crane – (4) 25-ton auxiliary cranes
- Phase 2 – add additional 20,000 Sq. Ft. with 100-ton crane capacity



Boring Mills

	x	y	z
OMV Formula	315.00"	98.00"	63.00"
(2)Toshiba	118.10"	78.70"	94.40"
Giddings & Lewis	288.00"	72.00"	60.00"
Parpas	118.00"	98.00"	39.00"
Nomura	118.00"	70.00"	51.00"
Nomura	94.50"	84.00"	60.00"
Wotan	56.00"	51.00"	58.00"



Vertical CNC Mills

	x	y	z
sm mills			
(6) F5 Makino	35.40"	19.70"	17.70"
(2) Miltronics Partner	38.00"	20.00"	24.00"
sm 5-axis			
Hermle C400	336.46"	27.55"	16.60"
Hermle C650	41.33"	35.43"	23.60"
Med Mills			
(4) YCM NSV156-A	60.20"	25.60"	24.00"
YCM XV 1680	64.20"	30.00"	27.60"
(3) FPT Raid XL	79.00"	55.00"	32.00"
(3) Tarus	44.00"	114.00"	120.00"
Large Mills			
SNK	207.00"	146.00"	37.00"
Tarus	120.00"	100.00"	44.00"
(2) Droop & Rein	79.00"	37.00"	36.00"
Zimmerman	98.00"	114.00"	49.00"



EDM

	x	y	z
Makino Wire U6Heat Xtreme	25.60"	117.70"	16.50"
(2) Makino Wire U6 Heat	25.60"	117.70"	16.50"
Ingersol RAM EDM	39.40"	59.40"	27.50"
Makino Wire SP43	17.70"	11.80"	12.60"
Makino Wire SP64	25.60"	15.70"	16.50"
Makino Wire SP64	25.60"	15.70"	12.00"



Gun Drills

	x	y	z	Depth
(2)Tarus	96.00"	60.00"	84.00"	84.00"
Tarus	106.00"	60.00"	84.00"	84.00"
(2)Tarus	96.00"	48.00"	54.00"	54.00"

Spotting Press

	l	w	stroke
(2) Reis	70.00"	60.00"	70.00"
Verson	100.00"	80.00"	48.00"
Verson	200.00"	100.00"	60.00"

CAD/CAM

21 Workstations, encompassing:
 Unigraphics with Mold Wizard
 Solid Works
 Kubotek (Cadkey)
 Autocad
 WorkNC
 Tebis
 Lemoine
 Mastercam Partmaker
 Translate files in almost all formats



Grinders

	l	w
Blanchard	60.00"	--
Chevalier	40.00"	16.00"
Okamoto	80.00"	20.00"
Chevalier GR	18.00"	6.00"

Lathes

	x	z
(2) Hurco TMX10i Lathe	9.15"	26.00"

Materials Handling

17 cranes, with capacity up to 80 tons



Welding

	Weld type
Miller Syncrowave 500	Tig Welder
Miller Dynasty 350	Tig Welder
Miller Deltaweld 452	Mig Welder
Lase One by SST	Microwelder
Miller Invision 450	Mig Welder
Miller 800	T4F Diesel Welder

Inspection

(2) ROMER (7 Axis) Absolute
 Portable CMM with laser scanner
 Arm Wenzel Stationary CMM
 ATOS Q 12M



Transportation

Vehicles with up to 48,000 haul weight

Expanding Our Capacity With The New 5-Axis Bridge Type Machining Center

- ✓ Complete with standard equipment and Heidenhain iTNC640 control
- ✓ X/Y/Z: 3,000/2,000/850 mm
- ✓ 15,000 RPM | HSK100A | 60 TOOLS ATC
- ✓ Dist. Bet. Column: 1,500 mm

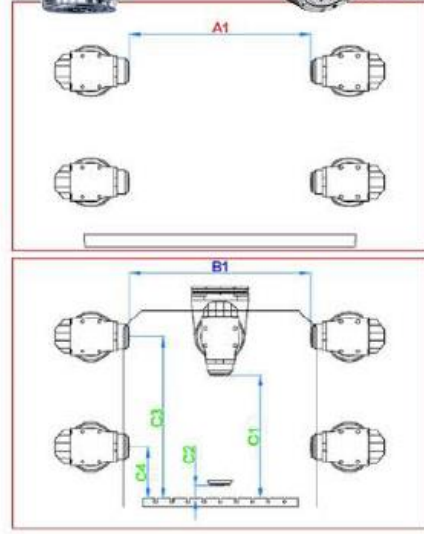


APEC MT-1530-5L

CONTACT US
517.321.5609



MT1530
AGA Mono type 2-axis milling head with AGA
HSK100A 15.000 rpm



Model	1530-5S
X-axis	
X mm	3,000
A1 mm	2,320
Y-axis	
Y mm	2,000
B1 mm	1,320
Z-axis	
Z mm	850
C1 mm	910
C2 mm	60
C3 mm	1,250
C4 mm	400

ATOS Q 12M

Measuring area 100 x 70 – 500 x 370 12 million points per scan



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a ZEISS company

THE NEW ATOS COMPACT CLASS

Quality starts
with a Q.
An ATOS Q.

FRANCHINO
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5 Axis Mill 315 x 98 x 63 – Spindles: 20k 5-axis, 5k straight, 6k 5-axis.
Unlimited weight



Zimmerman 5 Axis Gantry Mill 114 x 98 x 49 – 15,000 RPM



- Hermle C650 5 Axis Machining Center with 14 Pallets changer



We offer unmatched onsite service to our customers



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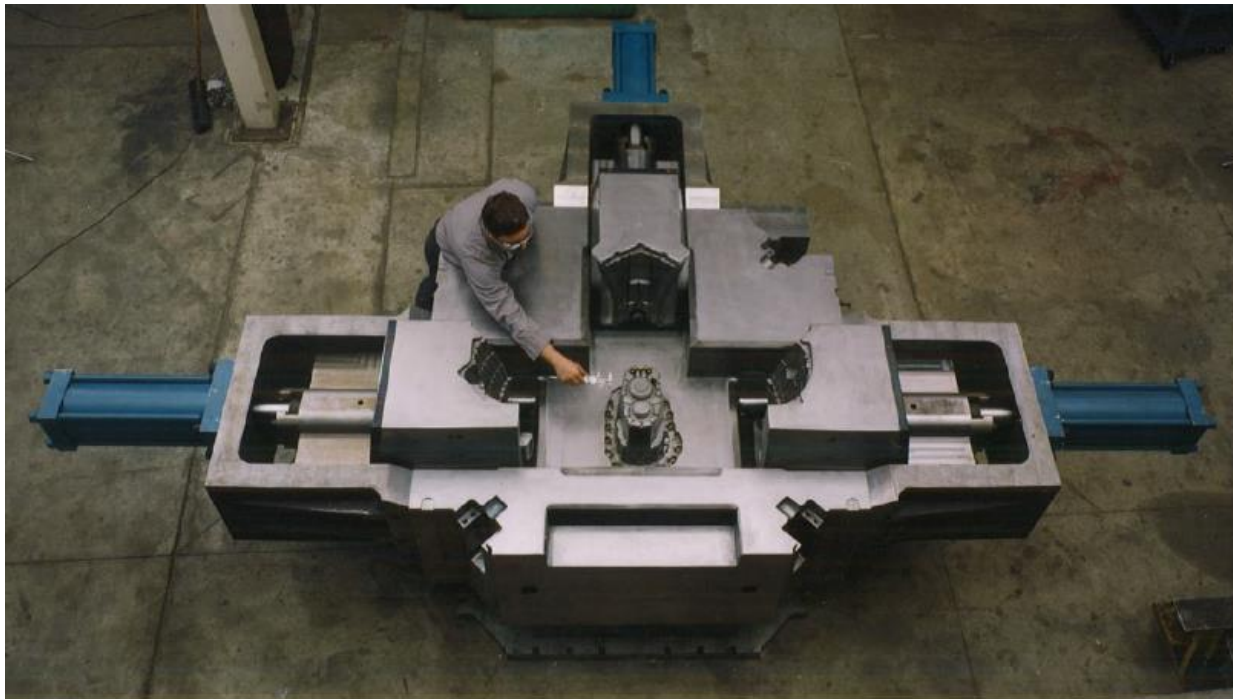
FMEC – People, Process & Technology

- Die Cast Dies – GM 6L50 Transmission Case



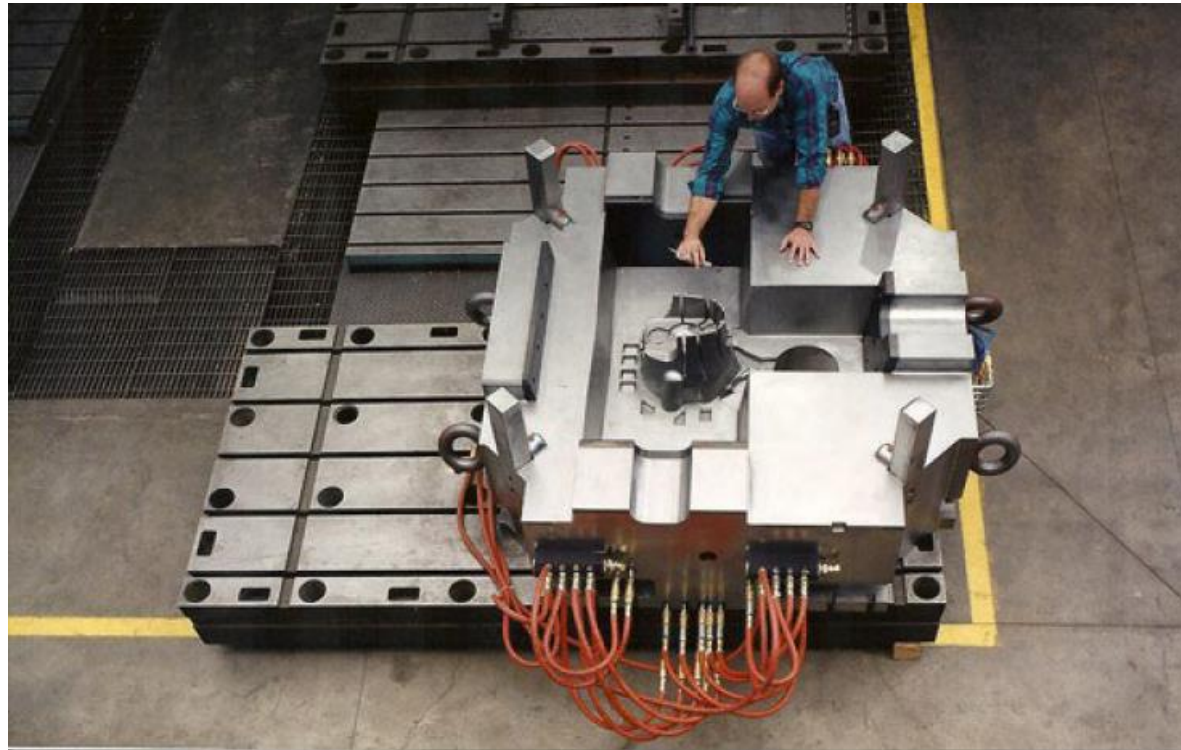
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- Die Cast Dies – Truck Transmission Case



FMEC – People, Process & Technology

- Die Cast Dies – Truck Transmission Case



FMEC – People, Process & Technology

- Die Cast Dies – Transmission Case





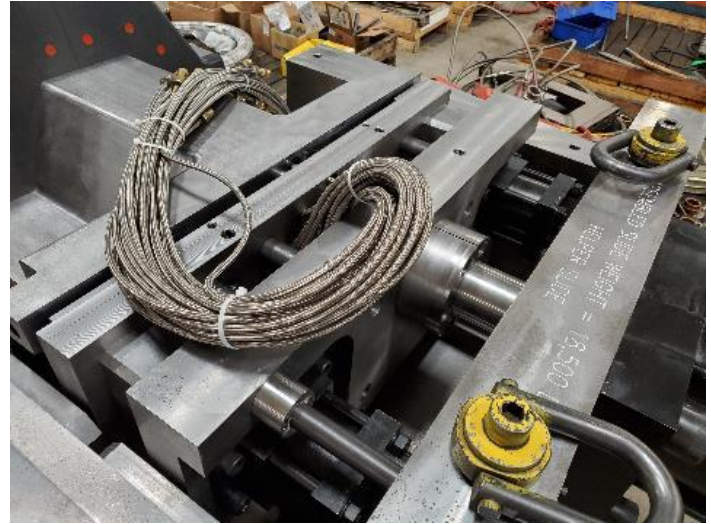
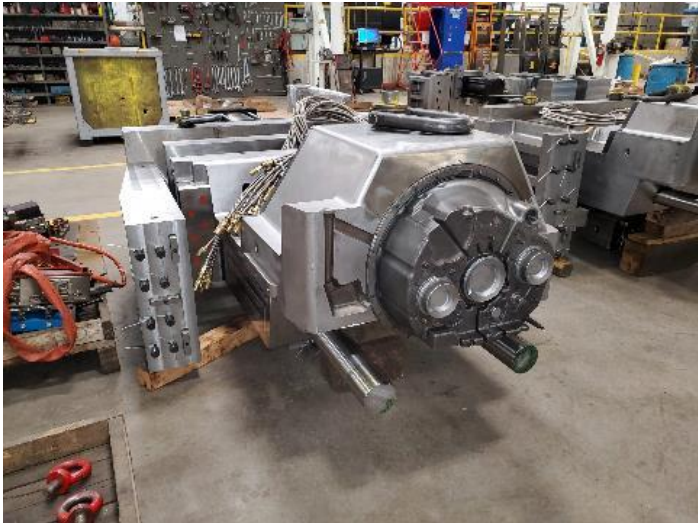
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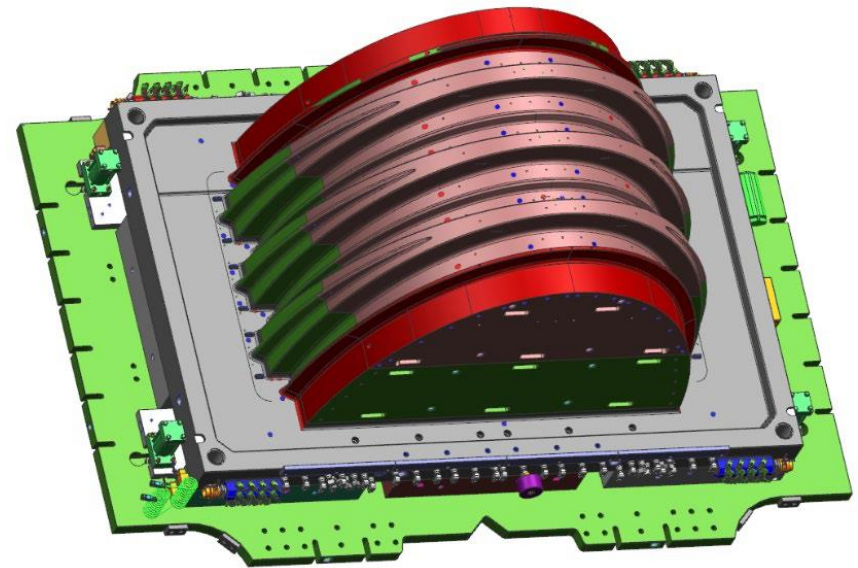
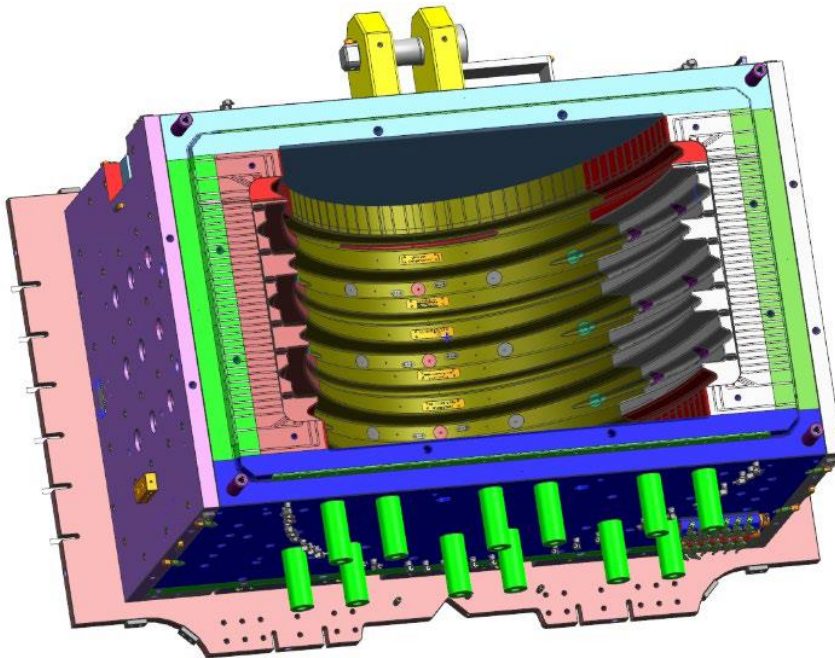




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FMEC – People, Process & Technology

- Plastic Injection Molds – Storm water retention chamber



FMEC – People, Process & Technology

- Plastic Injection Molds – Storm water retention chamber



FMEC – People, Process & Technology

- Plastic Injection Molds – Storm water retention chamber



FMEC – People, Process & Technology

- Plastic Injection Molds – Septic Tank Systems



FMEC – People, Process & Technology

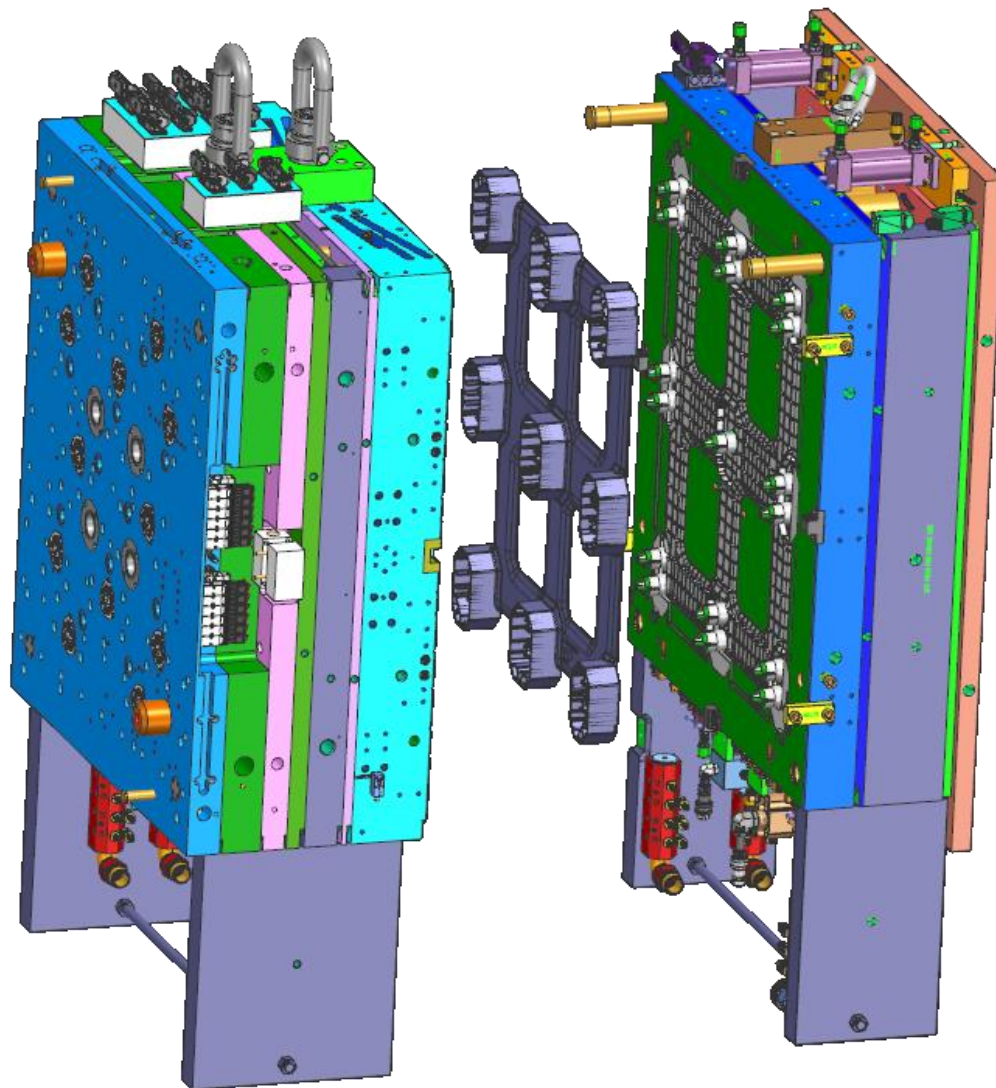
- Plastic Injection Molds – Septic Tank Systems



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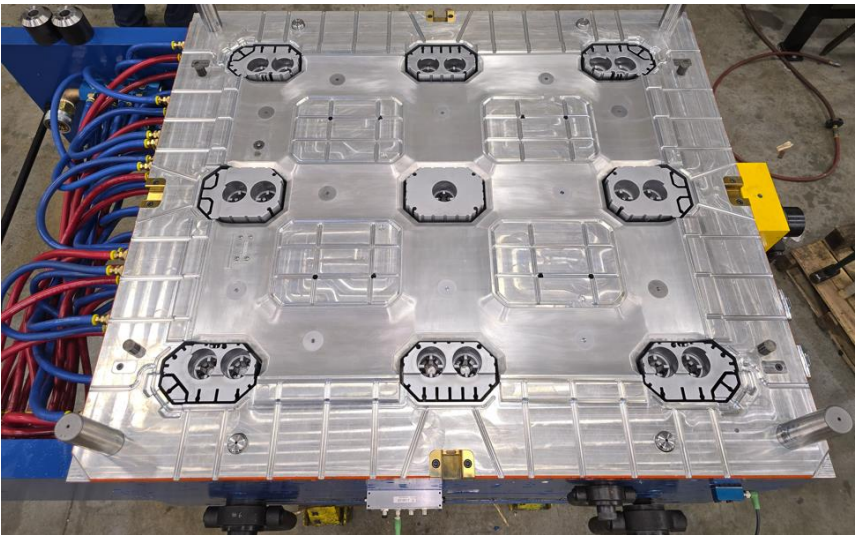
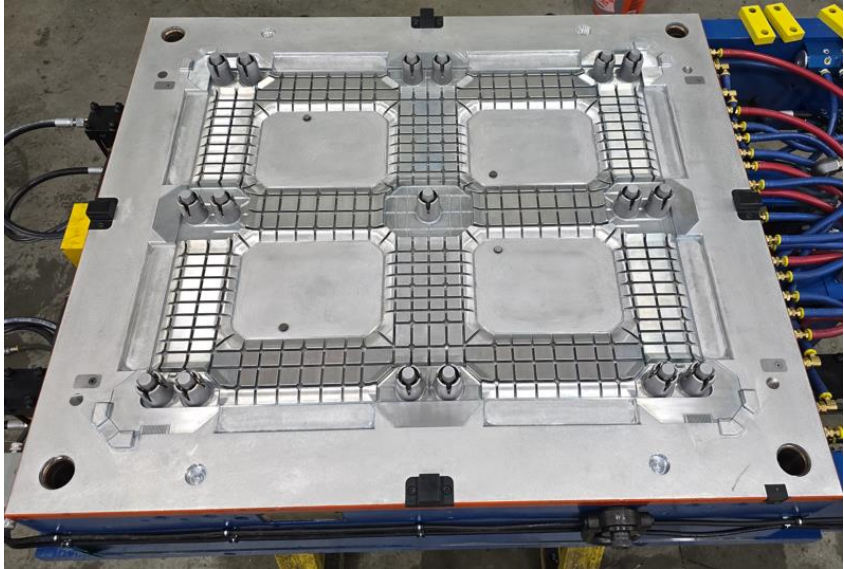
- Plastic Injection Molds – Septic Tank Systems

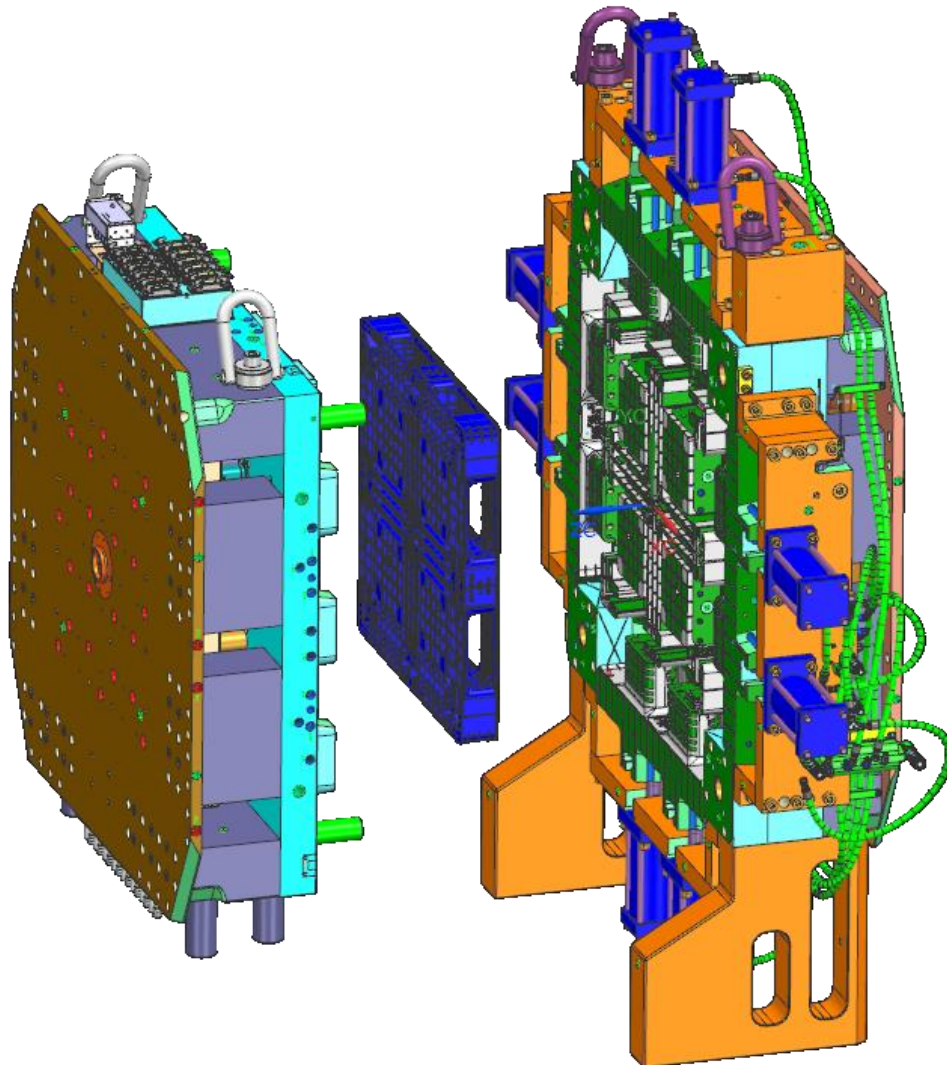




Single Cavity Stringer Mold

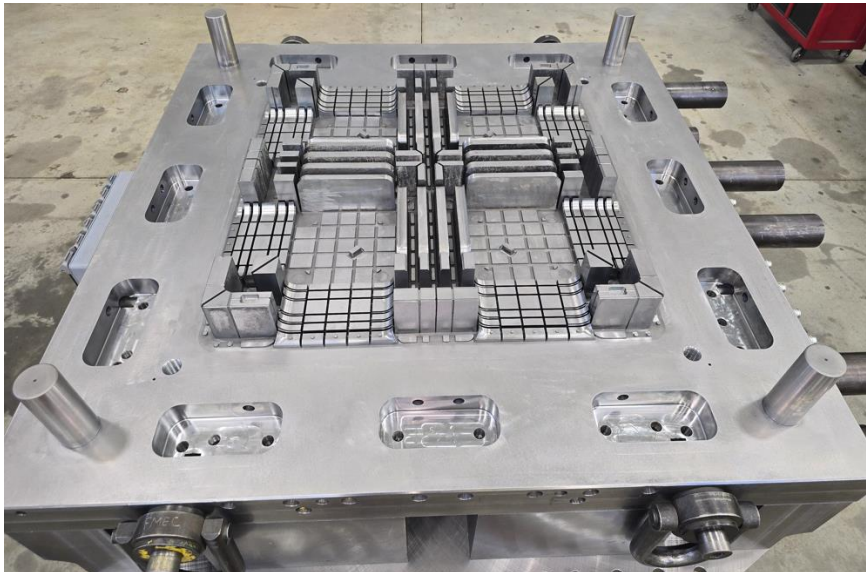
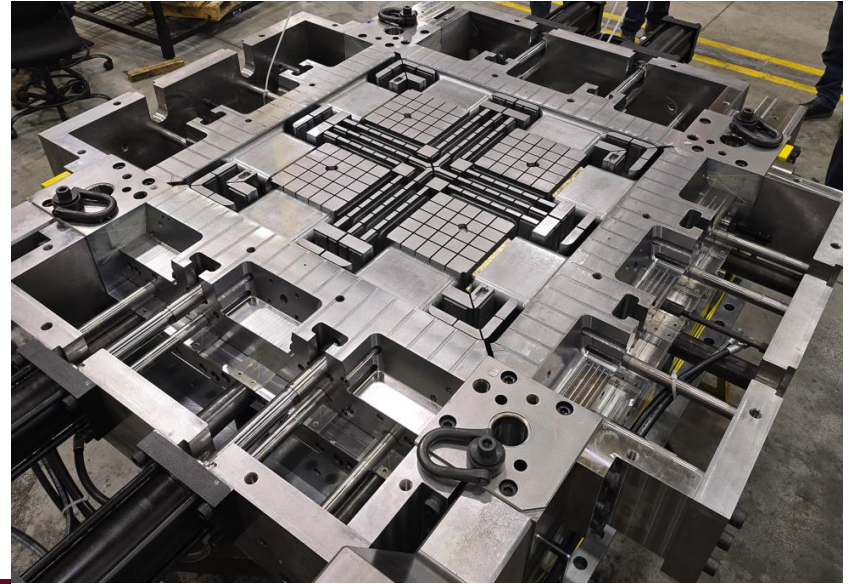
Single Cavity Stringer Mold





Single Cavity Pallet Mold

Single Cavity Pallet Mold



Synergies

- Family owned and operated - 70 years of experience - Tooling design, Build, Engineering changes and Repair.
- Value Relationships
 - Customer service
 - Innovative design solutions
 - Quality
 - Reliable delivery commitments
 - Competitive cost structure
- One stop service
 - Diecast
 - Injection molds
 - Stamping tooling
 - Custom Contract Machining
- Committed to continue investing in People, Process and Technology



Thank you for your time!

We welcome your questions.