The following is a list of our equipment along with a brief description of their capabilities. Please call Paragon at 616-949-2220 to schedule a tour.

FIDIA Y2G 5 AXIS MILLING MACHINE
Control: Fidia C20 Control (X2)
Spindle:
- 240-24,000 RPM
- 85 HP
- HSK 100: 14,000RPM
- HSK 63: 24,000RPM
Table Size: 720” X 144” (17,000mm X 3,500mm)
Weight Capacity: Unlimited
Travel:
- X - 630” (16,000mm)
- Y - 138” (3500mm)
- Z - 55” (1400mm)
Other Features:
- M&H Digital Probe and Part Verification System
- M&H Work Piece Alignment Probe
- 2x42 Place Tool Changer
- 1200 IPM Feed Rate

FIDIA K414 HI SPEED FINISHER (2)
Control: Fidia C20 Control
Feed Rate: 940 IPM
Spindle:
- 24,000 RPM
- 30-70 HP
Table Size: 98-118” x 196-198” (2489-2997mm X 4978-5029mm)
Travel:
- X - 168” (4267mm)
- Y - 49” (1245mm)
- Z - 55” (1397mm)
Other Features:
- Continuous 5-Axis Head
- 66-72” (1676-1829mm) Daylight under spindle
- 48-84 Station Tool Changer
- Laser Tool Alignment
- Through the spindle cooling (@ 1000 psi)
Weight Capacity: 100,000 lbs (45,359kgs)
TARUS GUN DRILL WITH STS DRILLING SYSTEM (3)
Control: MBX 92 CNC Control
Table Size: 60” x 106” (1524mm x 2692mm)
Travel:
   X - 106-130” (2692-3302mm)
   Y - 60” (1524mm)
   Z - 94”(2388mm)
   W - 30” (762mm)
Featuring auxiliary spindles for tapping and milling
Weight Capacity: 45,000 lbs (20,411 kgs)

TARUS GUN DRILL WITH
INTEGRATED MILLING SPINDLE, TILTING DRILL SLIDE AND
INTEGRATED ROTARY TABLE
Control: CNC Control
Table Size: 60” X 96” (1517mm X 2438mm)
Rotary Table: 360°
Travel:
   W - 96” (2438mm)
   X - 130” (3302mm)
   Y - 62” (1575mm)
   Z - 46” (1168mm)
Featuring auxiliary spindles for tapping and milling
Weight Capacity: 60,000 lbs (27,215 kgs)

TARUS HI SPEED CNC FINISHING MILLS (5)
Control: Lemoine M6
Spindle Speed: 10,000RPM
Spindle Power: 17HP
Feed Rate: 500 IPM
Table Size: 72” x 120” (1828mm x 3049mm)
Travel:
   X - 120” (3048mm)
   Y - 110” (2794mm)
   Z - 48” – 60” (1219mm - 1524mm)
Width Between Columns: 84”-96” (2134mm - 2438mm)
Weight Capacity: 60,000 lbs (27,215 kgs)
DROOP AND REIN & TARUS CNC MILL (4)
Control: Fidia C10 Control
Feed Rate: 200-300 IPM
Spindle:
   3,000-3,150 RPM
   40-75 Hp
Table Size: 48-60” x 96-128”
   (1219-1524mm - 2438-3251mm)
Travel:
   X - 96-120” (2438-3048mm)
   Y - 48-60” (1219-1524mm)
   Z - 48-62” (1219-1575mm)
   W - 8” (203mm)
Weight Capacity: 45,000 lbs (20,411 kgs)

RETRO FITTED TARUS WITH FIDIA 3+2 HEAD
Control: Fidia C20 Control
Spindle:
   240 - 24,000 RPM
Table Size: 72” x 120” (1829mm X 3048mm)
Travel:
   X - 120” (3048mm)
   Y - 110” (2794mm)
   Z - 48” – 60” (1219mm - 1524mm)
   B - +24° / -102°
   C - +180° / -177°
Width Between Columns: 84”-96” (2134mm - 2438mm)
Weight Capacity: 60,000 lbs (27,215kgs)
24 Place Tool Changer
400 IPM Feed Rate

PARPAS ML 100 Horiz. 3D Mill
Control: Fidia C20 Control
Spindle:
   4,000 RPM
Table Size: 98” x 236” (2489mm x 6045mm)
Travel:
   X - 236” (5994mm)
   Y - 118” (2997mm)
   Z - 18” x 22” (457mm x 559mm)
472 IPM Feed Rate
Other Features:
   Roughing Head
   Rotating Conical Head
   60 Station Tool Changer
   Laser Alignment
Weight Capacity 100,000 lbs+ (45,359 kgs+)
GIDDINGS AND LEWIS BORING MILL
MODEL 450
Control: Siemens Sinumerik 840D CNC Ctrl.
Feed Rate: 400 IPM
Spindle:
  2500 RPM
  50 HP
  6” (152mm) Bar
Travel:
  X - 120” (3556mm)
  Y - 92” (2337mm)
  Z - 48” (1219mm)
  W - 47” (1194mm)
Weight Capacity: 45,000 lbs (20,411 kgs)

GIDDINGS AND LEWIS BORING MILL
MODEL 455
Control: Numeristation 8000H Ctrl.
Feed Rate: 500 IPM
Spindle:
  2500 RPM
  75 HP
  6” (152mm) Bar
Travel:
  X - 140” (3607mm)
  Y - 102” (2591mm)
  Z - 49” (1245mm)
  W - 59” (1499mm)
120 Position Tool Changer
Weight Capacity: 60,000 lbs (27,215 kgs)

MAG (GIDDINGS AND LEWIS) RT 1600
HORIZONTAL BORING MILL WITH ROTARY TABLE
Control: Siemens Sinumerik 840D CNC Ctrl.
Feed Rate: 709 IPM
Table Size: 63” x 98” (1600mm x 2500mm)
Spindle:
  3500 RPM
  74 HP
  6” (152mm) Bar
Travel:
  X - 142” (3607mm)
  Y - 102” (2591mm)
  Z - 49” (1245mm)
  W - 59” (1499mm)
120 Position Tool Changer
Weight Capacity: 55,100 lbs (25,000 kgs)
**TOSHIBA BTD 13 P7 PLANE TABLE**
BORING MILL
Control: Fidia C10 Control
Spindle:
  - 25 HP
  - 5" (127mm) Bar
Travel:
  - X - 157" (3988mm)
  - Y - 96" (2438mm)
  - Z - 50" (1270mm)
  - W - 36" (914mm)
Weight Capacity: 44,000 lbs (19,958 kgs)

**TOSHIBA BTD 11 R3 ROTARY TABLE**
BORING MILL
Control: Tosnuc 3 CNC Control
Feed Rate: 400 IPM
Spindle:
  - 18 HP
  - 5" (127mm) Bar
Travel:
  - X - 72" (1829mm)
  - Y - 60" (1524mm)
  - Z - 60" (1524mm)
  - W - 36" (914mm)
Through the spindle cooling (@ 100 psi)
Weight Capacity: 20,000 lbs (9,071 kgs)

**GIDDINGS AND LEWIS**
BORING MILL
Control: Siemens 800D Ctrl.
Feed Rate: 400 IPM
Spindle:
  - 2500 RPM
  - 75 HP
  - 6" (152mm) Bar
Travel:
  - X - 216" (5486mm)
  - Y - 96" (2438mm)
  - Z - 48" (1219mm)
  - W - 30" (7062mm)
Weight Capacity: 100,000 lbs+ (45,359 kgs)
DVC-4025B DOUBLE COLUMN VERTICAL MACHINING CENTER
Control: YCM MXP200i
Feed Rate: 500 IPM
Spindle:
  - 4,500 RPM CAT 50 Spindle
  - 25 HP
Table Size: 161” X 94” (4260mm X 1500mm)
Travel:
  - X - 157” (4000mm)
  - Y - 94” (1600mm)
  - Z - 30” (760mm)
Other Features:
  - Laser Alignment
  - Chip Blaster DC30

FIDIA K199 HIGH SPEED 5 AXIS MILLING MACHINE
Control: Fidia C20 Control
Spindle:
  - 24,000 RPM
  - 72 HP
Travel:
  - X - 71” (1800mm)
  - Y - 35” (900mm)
  - Z - 33” (850mm)
Other Features:
  - Continuous 5-axis
  - 24 Place Tool Changer
  - 1188 IPM Feed Rate
  - Renishaw Part Probing System

OKK MODEL MCV 1260 & VM7
Control: Mitsubishi Neomatic 635V
Spindle:
  - 13,000 RPM
20-40 Station Tool Changer
Travel:
  - X - 61-85” (1549-2159mm)
  - Y - 29-50” (737-1270mm)
  - Z - 30” (762mm)
Through the spindle cooling (@ 300-10000 psi)
Laser Tool Alignment
Weight Capacity: 3,500-17,000 lbs (1,587-7,711kgs)
DEA COORDINATE MEASURING MACHINES
(DELTA 3406 CNC)
CNC Controlled
  Software: DMIS
  Travel:
    X - 128" (3250mm)
    Y - 72" (1830mm)
    Z - 54" (1370mm)
Manual
  Software: Toutor
  Travel:
    X - 104" (2640mm)
    Y - 56" (1420mm)
    Z - 40" (1016mm)

Makino a61 NX Horizontal Machining Center
Control: Pro 5 Control
  Spindle: 14,000 RPM
  133 Station Tool Changer
  Travel:
    X - 28" (711mm)
    Y - 28" (711mm)
    Z - 28" (711mm)
  Through the spindle cooling (@ 1000 psi)
Weight Capacity: 1,100 lbs (499 kgs)

Gantry 2000 Sinker EDM
Control: Pro 5 Control
  Spindle: 20 RPM
  20 Station Tool Changer
  Travel:
    X - 61" (1549mm)
    Y - 108" (2743mm)
    Z - 39" (990mm)
Weight Capacity: 66,000 lbs (29,937 kgs)
HPM 3000-400/600 MK II
INJECTION MOLDING MACHINE
Command 90 CNC Control
8 Zone Water Mold Cooling
Valve Gate Controller
Conair Franklin Material Dryers
82 Zone Hot Runner Control

DAKE SPOTTING PRESSES
(300, 200, 150 TON)
300 Ton Dimensions
  Height: 100” (2540mm)
  Front to Back: 80” (2032mm)
  Left to Right: 127” (3226mm)
200 Ton Dimensions
  Height: 90” (2286mm)
  Front to Back: 48” (1219mm)
  Left to Right: 72” (1828mm)
150 Ton Dimensions
  Height: 60” (1524mm)
  Front to Back: 52” (1321mm)
  Left to Right: 80” (2032mm)

WILLIAMS, WHITE & CO.
3000 TON HYDRAULIC PRESS
Hydrostatic Leveling
Single Front Exiting Rolling Bolster
144” X 108” (3657mm - 2743mm) Die Space
OTHER MACHINES & EQUIPMENT

13 DEMAG HOISTS 25-50 TONS
5 LATHES 10”-21”
9 MILLING MACHINES
1 MAAS VR6A RADIAL DRILLING MACHINE
1 WELLSAW MODEL 1000 CUT OFF SAW WITH 8” X 18” CAPACITY
6 MILLER WELDERS

5 HI-POWER GRINDING MACHINES
2 SG-6 UNIVERSAL CUTTER GRINDING MACHINES
CREATIVE EVOLUTIONS GRAPHITE CUTTING MACHINE
HURCO BMC 50P
1 OVEN 150”L X 68”W X 72”H