

EQUIPMENT LIST

FOR HELLEBUSCH Tool & Die

NO. OF MACHINES	DESCRIPTION
1	MITSUBISHI FX20K WIRE CUTTING EDM MACHINING CENTER, 19.6" X 13.7" TRAVEL, MAXIMUM WORK PIECE DIMENSIONS 41.3" X 31.4" X 11.6" HEIGHT AND 1,760 LBS.
1	CHARMILLES-ROBOFIL 400 CT-3 WIRE CUTTING EDM MACHINING CENTER, 17.7" X 12.5" X 10.12" TRAVEL, MAXIMUM WORK PIECE DIMENSIONS 28" X 40" X 10.1" HEIGHT AND 1,760 LBS.
1	CHARMILLES-ROBOFORM 40 ELECTRICAL DISCHARGE MACHINE, 128 AMP. POWER SUPPLY, 19.7" X 15.7" TRAVEL, 48" X 32" TANK, MAXIMUM ELECTRODE 220 LBS, MAX. DAYLIGHT UNDER BRIDGE = 19.5", MAXIMUM WORK PIECE DIMENSIONS 39.37" X 27.55" X 14.56" HEIGHT AND 2,200 LBS, 19.5" MAX. DAYLIGHT.
1	CHARMILLES-ROBOFORM 40 ELECTRICAL DISCHARGE MACHINE, 64 AMP. POWER SUPPLY, 19.7" X 15.7" TRAVEL, 48" X 32" TANK, MAXIMUM ELECTRODE 220 LBS, MAX. DAYLIGHT UNDER BRIDGE = 18.5", MAXIMUM WORK PIECE DIMENSIONS 39.37" X 27.55" X 14.56" HEIGHT AND 2,200 LBS, 18.5" MAX. DAYLIGHT.
1	12-2814 DR ELOX ELECTRICAL DISCHARGE MACHINE WITH 100 AMP POWER SUPPLY, 14" X 28" TABLE TRAVEL, 12" RAM TRAVEL, 23" X 50" TANK.
1	OKK MODEL HM-100S HORIZONTAL CNC MACHINING CENTER WITH PALLET CHANGER, CAT 50 TAPER, 60 STATION TOOL CHANGER, 40/33.5 HP, 35 TO 12,000 RPM SPINDLE, 787 IN/MIN MAXIMUM FEED RATE, 5,510 LB. MAXIMUM LOAD ON PALLET, PALLET SIZE 39.4" X 39.4", 1,000 PSI THROUGH THE SPINDLE COOLANT, SPINDLE TRAVEL = 55.12" X 43.31" X 39.37" AND 360 DEGREE ROTATION, MAXIMUM PIECE HEIGHT = 50".
1	FIDIA K199 HIGH SPEED 5-AXIS MACHINING CENTER, 46 HORSEPOWER SPINDLE, 79" X 49" TABLE, 76"(X) X 36"(Y) X 33"(Z) TRAVEL, HSK63A/E SPINDLE, 42 STATION TOOL MAGAZINE, 15,430 LB. TABLE CAPACITY, 24,000 RPM SPINDLE, 1,181 IN/MIN FEED RATE, 880 PSI THROUGH THE SPINDLE COOLANT, DIGITAL INSPECTION PROBE, LASER TOOL PROBE PRE-SET, FIDIA C20 CONTROLLER.
1	MAKINO V56 VERTICAL MACHINING CENTER, SGI-3 CONTROL, 25 HP, 20,000 RPM SPINDLE, 25 STATION TOOL CHANGER, BLUM LASER TOOL SETTER, TABLE TRAVEL 35.4" X 21.6" X 17.7".
1	OKK PCV55, 40 HP, CAT 50 TAPER, VERTICAL MACHINING CENTER WITH GRAPHITE PACKAGE AND 20 STATION TOOL CHANGER, HIGH SPEED CAPABILITIES - 400 IN/MIN. FEED RATE, 13,000 RPM, MAXIMUM TRAVEL 22" X 40" X 20", 22" X 48" TABLE, MAXIMUM WEIGHT 3,900 LBS.
1	OKK PCV55- 30 HP, CAT 50 TAPER, VERTICAL MACHINING CENTER WITH 20 STATION TOOL CHANGER HIGHSPEED CAPABILITIES - 400 IN/MIN. FEED RATE, 10,000 RPM MAX TRAVEL 22" X 40" X 20", 22" X 48" TABLE, 1000 PSI THROUGH THE SPINDLE COOLANT, MAXIMUM WEIGHT 3,900 LBS.
1	OKK VM 5II VERTICAL MACHINING CENTER, 25 HP, CAT 40 TAPER, 20 STATION TOOL CHANGER, 41.34" X 22.05" TABLE, 32.28"(X) X 20.08"(Y) X 20.08"(Z) TRAVEL, 1760 LB. TABLE CAPACITY, 394 IN/MIN. FEED RATE, 20,000 RPM, 1,000 PSI THROUGH-THE-SPINDLE COOLANT, MITSUBISHI CONTROLLER AND RENISHAW LASER SETTER.
1	MAKINO SNC 64, HIGH SPEED VERTICAL MACHINING CENTER, 23" X 15 3/4" X 15 3/4" TRAVEL, 20,000 RPM, 20 HP SPINDLE, 15 STATION TOOL CHANGER, 18" MAXIMUM WORK PIECE HEIGHT.

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1	MAKINO S56 VERTICAL MACHINING CENTER, HSK 63A TAPER, 20 HP, 20,000 RPM SPINDLE WITH 217 PSI THROUGH THE SPINDLE COOLANT, 35.4" X 19.7" X 17.7" TRAVELS, 39.4" X 19.7" TABLE, 20 STATION TOOL CHANGER, LASER TOOL SETTER, MAKINO PROFESSIONAL 3 CONTROL, MAXIMUM WEIGHT 1,102 LBS.
1	FADAL VMC 4020 VERTICAL MACHINING CENTER, 15 HP, CAT 40 TAPER, 21 STATION TOOL CHANGER, 48" X 20" TABLE, 40"(X) X 20"(Y) X 28"(Z) TRAVEL, 3,641 LB. TABLE CAPACITY, 10,000 RPM, 250 PSI THROUGH-THE-SPINDLE COOLANT.
1	FADAL VMC 4020 VERTICAL MACHINING CENTER, 15 HP, 15,000 RPM SPINDLE, GIBBS CONTROLLER, 21 STATION TOOL CHANGER, 48" X 20" TABLE, 40" X 20" X 20" TRAVEL, 3,641 LB. TABLE CAPACITY.
1	HURCO VMC50 VERTICAL MACHINING CENTER, CAT 40 TAPER, 15 HP, 10,000 RPM SPINDLE, 24 STATION TOOL CHANGER, 26" X 59" TABLE, 24" X 50" X 24" TRAVEL, 300 PSI THROUGH THE SPINDLE COOLANT, 3,000 LB. TABLE CAPACITY.
1	HURCO BMC 4020 MACHINING CENTER 40" X 20" X 24" CUBE, HURCO ULTIMAX TWIN SCREEN CONTROL, 24 STATION TOOL CHANGER, 8,000 RPM.
2	HURCO MODEL VMX42S CNC VERTICAL MACHINING CENTERS, 40 TAPER, 24 HP, 10,000 RPM SPINDLES, WITH 1,000 PSI THROUGH THE SPINDLE COOLANT, 42" X 24" X 24" TRAVELS, 50" X 24" TABLE, 24 STATION TOOL CHANGERS, HURCO ULTIMAX SOFTWARE, WORKLOAD CAPACITIES 3,000 LBS.
1	FADAL VMC 40, 15 HP, VERTICAL MACHINING CENTER, 21 STATION TOOL CHANGER, 22" X 16" X 20", 10,000 RPM, 750 LB. TABLE CAPACITY.
1	4 INCH GIDDINGS & LEWIS, TABLE TYPE HORIZONTAL CNC BORING MILL 48"X, 48"Y, 30"Z, 25 HP VARIABLE SPEED SPINDLE, 1,300 RPM MAX, 3 AXIS SIMULTANEOUS CONTROL, 36" X 62" TABLE, 6,500 LB. TABLE CAPACITY.
1	GIDDINGS & LEWIS RAM 630 HORIZONTAL CNC MACHINING CENTER, DUAL 19"x24" PALLETS, 35.4" X 31.5" X 39.5" TRAVELS, CAT 50 TAPER, 40 STATION TOOL CHANGER, 12,000 RPM SPINDLE, 46.9 HP SPINDLE WITH 850 PSI THROUGH THE SPINDLE COOLANT, ROTARY TABLE WITH 360,000 POSITION INDEXING, FULL 4 TH AXIS.
2	HURCO HAWK 40 CNC, 58" X 13" TABLE, 39.5" X 20" X 24" INCH TRAVEL, 990 LBS. CAPACITY, 5 HORSEPOWER, 3,600 RPM, NUMBER 40 V-FLANGE, ULTIMAX SOFTWARE CENTER, w/3D MOLD, ULTI-POCKET.
1	MAHO 800-P 7 1/2 HP CNC - UNIVERSAL TOOLROOM MILLING AND BORING MACHINE WORKING CAPACITY 31.5" X 17.75" X 19.75", 360 DEGREE ROTARY TABLE, 2,000 RPM MAX. SPINDLE SPEED.
1	REGO-FIX BMT200 BALANCING MACHINE, SINGLE PLANE TOOL BALANCER FOR CAT #50 & CAT #40 TOOL HOLDERS, CAPABLE OF BALANCING TOOL HOLDERS W/TOOL INSTALLED, TO G2.5 OR BETTER UP TO 42,000 RPM.
3	2 HP BRIDGEPORT VERTICAL MILL WITH DIGITAL READOUT MEASUREMENT SYSTEM, 12" X 30" TABLE TRAVEL.
1	ADVANCE CROSS SLIDE ROTARY TABLE, 13" SQUARE.

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NO. OF MACHINES	DESCRIPTION
1	HARRISON CNC LATHE, 13" DIA. SWING, 50" BETWEEN CENTERS, 2500 RPM, 10 HP SPINDLE.
1	15" DIA. SWING X 36" LEBLOND MAKINO MANUAL LATHE, 1300 RPM.
1	DOALL 18" BAND SAW.
1	13" X 36" CLAUSING LATHE.
1	16" X 32" OKAMOTO SURFACE GRINDER.
2	12" X 24" OKAMOTO SURFACE GRINDER.
3	6" X 18" OKAMOTO SURFACE GRINDER.
1	ALEXANDER SINGLE FLUTE CUTTER GRINDER (SPECIAL CUTTERS) 5/8 DIA. CAPACITY.
1	DOALL HORIZONTAL CUT OFF SAW - 10" DIAMETER BAND.
1	18" ROCKWELL BAND SAW.
1	12" X 36" RADIAL ARM DRILL PRESS, 24.4" X-TRAVEL, 25.5" Z-TRAVEL.
1	4", 1 HP, DRILL PRESS.
1	5", 3/4 HP, TABLE TYPE, CLAUSING DRILL PRESS.
1	25-TON ARBOR PRESS.
1	1 HP ROCKWELL 12" DISC SANDER.
1	3 H.P. ROCKWELL 12" DISC SANDER.
1	1 ¼" CAPACITY PORTABLE DRILL PRESS WITH MAGNETIC BASE.
1	DAREX DRILL SHARPENER.
1	GRAYMILLS LIFT CLEAN AGITATING AQUEOUS PARTS WASHER, 700 LB. CAPACITY, 37"X42"X36" DEEP TANK.
1	IPSCO PCO-2 PIN CUTTING AND GRINDING MACHINE.
1	ACCU-FINISH SERIES II, TOOL SHARPENING/GRINDING SYSTEM, Ø 6" X Ø ½" DIAMOND GRINDING/LAPPING WHEEL, FULLY ADJUSTABLE TABLE AND VARIOUS WORK HOLDING FIXTURES.

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NO. OF MACHINES	DESCRIPTION
SAMPLING	
1	350 TON PLASTIC INJECTION MOLDING MACHINE, DISTANCE BETWEEN TIE-BARS FROM SIDE 23.5" AND FROM TOP 27", PLATENS 38" (HORIZONTAL) X 36" (VERTICAL).
1	150 TON REED PLASTIC INJECTION MOLDING MACHINE.
4	100 TON REED PLASTIC INJECTION MOLDING MACHINE.
1	8 STATION ROTARY INDEXING PLASTIC INJECTION MOLDING MACHINE.
HEAT TREATING	
1	ELECTRIC HEAT TREAT FURNACE 12" X 12" X 18" CAPACITY, CONTROLLED NITROGEN ATMOSPHERE.
1	ELECTRIC TEMPERING FURNACE 12" X 12" X 18" CAPACITY.
STRESS RELIEVING	
1	GAS TEMPERING, STRESS RELIEVING FURNACE 30" X 30" X 48" (MAXIMUM DIMENSIONS OF WORKPIECE), 2,000 lb. CAPACITY, 1,000° F. MAXIMUM TEMP.
INSPECTION	
1	MITUTOYO BHN 706-DCC CMM, 28" X 24" X 18" MEASURING ENVELOPE, 1,100 POUND CAPACITY, PH9 ARTICULATING PROBE HEAD, SOFTWARE-MITUTOYO GEOPAK, STATPAK, AND SCANPAK FOR REVERSE ENGINEERING.
1	FARO ARM PORTABLE CMM MACHINE, 4 FT. RANGE WITH MICRO PROCESSOR AND CAD SOFTWARE.
1	CORDAX 1805 CMM, WITH MP-30 COMPUTER PROCESSOR, 1,100 POUND CAPACITY.
1	36" X 60" SURFACE PLATE, TOOL ROOM GRADE.
1	74" X 41" SURFACE PLATE, INSPECTION GRADE.
2	24" X 36" SURFACE PLATE, INSPECTION GRADE.
1	24" X 36" SURFACE PLATE, TOOL ROOM GRADE.
2	HEIGHT GAUGES - GAUGE BLOCKS, GAUGE PINS, TEST INDICATORS, ETC.
1	OPTICAL COMPARATOR WITH MICROPROCESSOR.
1	ROCKWELL HARDNESS TESTER.
1	EQUOTIP, PORTABLE HARDNESS TESTER.

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NO. OF MACHINES	DESCRIPTION
WELDING	
1	MILLER 250 SYNCROWAVE, 300 AMP TIG WELDER, 240v.
1	AIRCO 58 AMP MIG WELDER.
1	THERMAL DYNAMICS MICRO WELDER.
1	NOVA TECH, INC. MICRO WELDER WITH OLYMPUS SZ61 STEREO MICROSCOPE, MICROSCOPE STAND, 40,000 FOOT CANDLE RING LIGHT AND 0.1-100 AMP WELDLOGIC PRECISION PULSE POWER SUPPLY.
1	LOOKTECH CO. LTD, MODEL SPD 2000 II MOLD DOCTOR, ELECTRO-SPARK SURFACE DEPOSITION AND HARDENING MACHINE, 120 V.
1	LINCOLN 225 AMP ARC-WELDER.
ASSEMBLY	
1	40 TON, WALTER REIS HYDRAULIC SPOTTING PRESS, 35" X 47" PLATENS (DIE SIZE THRU THE BARS), Ø4" TIE BARS, TOP PLATEN SWIVELS 90°, BOTTOM PLATEN SLIDES OUT AND PIVOTS UP.
1	3 TON HYDRAULIC SPOTTING PRESS, 17" X 29" THRU THE BARS, 2" TIE BARS.
ENGINEERING	
3	FILE SERVERS, 400GB WORK IN PROCESS, 400GB ARCHIVE/INTRANET, 600 GB ONLINE BACKUP ON A 100 MB WIRED AND WIRELESS LAN
13	PC BASED ENGINEERING STATIONS WITH VARYING SOFTWARE AVAILABLE.
7	PC BASED CUTTER PATH PROGRAMMING STATIONS
	3-DIMENSIONAL CAD-CAM SYSTEM CAPABLE OF TRANSFERRING CUSTOMER CAD DATA TO OUR MOLD DESIGN AND CAM SURFACING DATA TO OUR MACHINING CENTERS USING THE FOLLOWING SOFTWARE:
	CADKEY, PRO-E, SOLIDWORKS, UNIGRAPHICS NX3, FAST SURF, FAST SOLIDS, AUTOCAD, MECHANICAL DESKTOP, MASTER CAM, WORK NC, SDRC CAMAND, SOLUTIONS 3000, PROSPECTOR, ULTRAPATH II PLUS ASSORTED MODEL VIEWERS.
2	HP 750C, E-SIZE ROLL COLOR INKJET PLOTTERS.
1	48" WIDE BLACK LINE COPIER.
OFFICE	
12	STATIONS, EPICOR E-MANUFACTURING "VANTAGE" MANUFACTURING CONTROL AND ACCOUNTING SOFTWARE.
INTERNET	
2	SERVERS, LINUX WEB/MAIL/FTP CAPABLE OF HANDLING LARGE FILES (1 GB), LINUX FIREWALL/ROUTER.

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NO. OF MACHINES	DESCRIPTION
	LIFTING
2	2-TON BRIDGE CRANES 22 FT X 120 FT
1	6 TON BRIDGE CRANE 40 FT X 90 FT
1	2,700 LB. YALE MODEL 587 FORK LIFT
1	4,500 LB. CLARK FORK LIFT.
1	5,000 LB. KALAMAR FORK LIFT
1	8,000 LB. KALAMAR FORK LIFT
1	15,300 LB. HYSTER MODEL S150 FORK LIFT.
	SERVICE
1	2001 FORD F-250 HEAVY-DUTY PICKUP TRUCK
1	1990 GMC TOPKICK BOX TRUCK, 25,900 LB. GVWR.
1	2002 CADILLAC, COMPANY CAR.
1	2003 FORD EXPLORER, COMPANY CAR.