**ET-LC SERIES OPTIONS**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-2107</td>
<td>FLOOD COOLANT SYSTEM  Includes high volume pump and adjustable nozzles.</td>
</tr>
<tr>
<td>OPT-2120</td>
<td>ABRASIVE MATERIAL PROTECTION PACKAGE  This package includes one piece-sealed way covers that protect the ways from abrasive contaminates.  Also includes sealed electrical cabinet with a high efficiency heat exchanger.</td>
</tr>
<tr>
<td>OPT-3100</td>
<td>AUTOMATIC SHIFT  Allows automatic shifting into any of the four speed ranges.</td>
</tr>
<tr>
<td>OPT-9233</td>
<td>ELECTRICAL CABINET AIR CONDITIONER  Replaces standard fan vented cabinet with a sealed cabinet.  Air conditioning unit keeps inside temperature at the desired set temperature regardless of what the outside temperature is.  Recommended for area where ambient temperature exceeds 100 degrees Fahrenheit.</td>
</tr>
<tr>
<td>OPT-2122</td>
<td>FULL MACHINE GUARDING - 60&quot; CENTERS  Includes full wrap around guarding to completely enclose the machine. Long bed length machines include additional doors.</td>
</tr>
<tr>
<td>OPT-2138</td>
<td>FULL MACHINE GUARDING - 80&quot; CENTERS  Includes full wrap around guarding to completely enclose the machine. Long bed length machines include additional doors.</td>
</tr>
<tr>
<td>OPT-2139</td>
<td>FULL MACHINE GUARDING - 120&quot; CENTERS  Includes full wrap around guarding to completely enclose the machine. Long bed length machines include additional doors.</td>
</tr>
<tr>
<td>OPT-2141</td>
<td>FULL MACHINE GUARDING - 160&quot; CENTERS  Includes full wrap around guarding to completely enclose the machine. Long bed length machines include additional doors.</td>
</tr>
<tr>
<td>OPT-2145</td>
<td>FULL MACHINE GUARDING - 200&quot; CENTERS  Includes full wrap around guarding to completely enclose the machine. Long bed length machines include additional doors.</td>
</tr>
</tbody>
</table>

**OPTIONAL TRAVELS & SPINDLE BORES**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-3014</td>
<td>80&quot; CENTER DISTANCE (ET30/40)</td>
</tr>
<tr>
<td>OPT-3016</td>
<td>120&quot; CENTER DISTANCE (ET30/40)</td>
</tr>
<tr>
<td>OPT-3052</td>
<td>160&quot; CENTER DISTANCE (ET30/40)</td>
</tr>
<tr>
<td>OPT-3051</td>
<td>200&quot; CENTER DISTANCE (ET30/40)</td>
</tr>
<tr>
<td>OPT-3021</td>
<td>50 HP HIGH TORQUE SPINDLE MOTOR (ET-30/40) Includes: 50 HP (peak) spindle motor and drive.</td>
</tr>
<tr>
<td>OPT-3019</td>
<td>6&quot; BIG BORE OPTION (ET-30/40) Includes: 6.15&quot; spindle bore, A2-11 spindle nose, 4 speed headstock and 30 HP motor. 1,000 RPM max.</td>
</tr>
<tr>
<td>OPT-3017</td>
<td>9&quot; BIG BORE OPTION (ET-30/40) Includes: 9&quot; spindle bore, A2-15  spindle nose, 4 speed headstock and 50 HP motor. 650 RPM max.  Swing increases to 35° on ET-30.</td>
</tr>
<tr>
<td>OPT-3018</td>
<td>12&quot; BIG BORE OPTION (ET-40) Includes: 12&quot; spindle bore, A2-20  spindle nose, 4 speed headstock and 50 HP motor. 400 RPM max.</td>
</tr>
</tbody>
</table>

**TOOLPOSTS & TURRETS**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-3015</td>
<td>DORIAN SUPERQUICK #50 TOOL POST (1.25&quot; TOOLING ) Includes: 5 Piece Tool Holder Set, Riser Block, and Installation.</td>
</tr>
<tr>
<td>OPT-3031</td>
<td>TOOLPOST RISER BLOCK FOR ADD-ON TOOLPOST (ET-30/40)</td>
</tr>
<tr>
<td>OPT-3004</td>
<td>4 POSITION ELECTRONIC TOOLPOST Electric driven, 1&quot; tooling.</td>
</tr>
<tr>
<td>OPT-3010</td>
<td>8 STATION BI-DIRECTIONAL AUTOMATIC TURRET (1.0&quot; TOOLING) Turret includes 3 boring blocks with 1.5&quot; bore and 1 facing block.  Includes flood coolant thru turret.</td>
</tr>
</tbody>
</table>
8 STATION BI-DIRECTIONAL AUTOMATIC TURRET (1.25" Tooling)  Turret includes 3 boring blocks with 2" bore and 1 facing block. Includes flood coolant thru turret. Note: Large faceplate used on this turret will reduce available swing.

12 STATION BI-DIRECTIONAL AUTOMATIC TURRET (1.0" Tooling)  Turret includes 3 boring blocks with 2" bore and 1 facing block. Includes flood coolant thru turret. Contact factory.

12 STATION BI-DIRECTIONAL AUTOMATIC TURRET (1.25" Tooling)  Turret includes 3 boring blocks with 2" bore and 1 facing block. Includes flood coolant thru turret. Contact factory.

BORING BLOCK FOR TURRET (1.5" hole)

FACING BLOCK FOR TURRET

HEAVY DUTY CROSS SLIDE MOUNTED BORING BAR BLOCK  4" diameter bar capacity

HEAVY DUTY BORING BAR TRAILER  Separate carriage follows machine carriage and features cross slide with linear ways. Boring bar is first mounted to above listed boring bar block, then rear part of boring bar attached to trailer. Provides incredible rigidity for bar up to 60" length.  4" diameter boring bar capacity.

150 PSI COOLANT THRU TURRET SYSTEM  High pressure, adjustable thru turret coolant system. Includes high volume pump and 10-micron replaceable filter.

LIVE TOOL TURRETS & HOLDERS

The Live Tool Turret package includes a 10 HP live tool spindle motor with rigid tap and a surface transformation feature. This feature provides full milling cycles such as pocketing and contouring to be easily programmed using the conversational menus. These turrets will accept live tooling at any station.

8 STATION BI-DIRECTIONAL LIVE TOOL AUTOMATIC TURRET VDI-40, BMT-45

12 STATION BI-DIRECTIONAL LIVE TOOL AUTOMATIC TURRET VDI-40, BMT-45

Y AXIS LIVE TOOL AUTOMATIC TURRET  BMT-45

C' AXIS CONTOURING AND INDEXING SPINDLE  The 'C' Axis package includes a high torque digital spindle motor and locking disk brake. Heidenhain rotary scale ensures accuracy. Gearbox is maintained for high torque at low speeds. 380-500 VAC only.

C' AXIS CONTOURING AND INDEXING SPINDLE (6" BORE)

C' AXIS CONTOURING AND INDEXING SPINDLE (9" BORE)

C' AXIS CONTOURING AND INDEXING SPINDLE (12" BORE)

LIVE TOOL AXIAL HOLDER VDI-40, BMT-45

LIVE TOOL RADIAL HOLDER VDI-40, BMT-45

STATIC TOOL HOLDERS FOR VDI-40 OR BMT-45

CHIP CONVEYORS

Rear mounted belt type chip conveyor exits outside by tailstock. 40" discharge height clears standard 55-gallon drum.

CHIP CONVEYOR (ET30/40) 60" - 120" CENTERS

CHIP CONVEYOR (ET30/40) 160" - 200" CENTERS

HIGH PRESSURE WASHDOWN PUMP & HOSE  Manually operated hose flushes chips into chip pan or conveyor system.

STEADY & FOLLOW RESTS

STEADY REST ROLLER TYPE  3"-14" CAPACITY (ET-30)

STEADY REST ROLLER TYPE  3"-14" CAPACITY (ET-40)

STEADY REST ROLLER TYPE  14"-20" CAPACITY (ET-30)
OPT-3028  STEADY REST ROLLER TYPE  14"-20" CAPACITY (ET-40)
OPT-3059  FOLLOWING REST BRONZE TYPE  0"-6" CAPACITY (ET-30)
OPT-3035  FOLLOWING REST BRONZE TYPE  0"-6" CAPACITY (ET-40)

**HYDRAULIC STEADY RESTS / FOLLOW RESTS**

OPT-3092  SLU-3  Range: 0.472"-5.984"
OPT-3094  SLU-3.2  Range: 1.968"-7.874"
OPT-3097  SLU-5.1  Range: 3.346"-13.780"
OPT-3098  K-6.1  Range: 8.465"-20.078"

**MANUAL CHUCKS**

OPT-3224  DIRECT MOUNT 16" MANUAL 3 JAW CHUCK
OPT-3225  DIRECT MOUNT 20" MANUAL 3 JAW CHUCK
OPT-3445  DIRECT MOUNT 25" MANUAL 3 JAW CHUCK
OPT-3452  DIRECT MOUNT 32" MANUAL 3 JAW CHUCK
OPT-3453  DIRECT MOUNT 40" MANUAL 3 JAW CHUCK
OPT-3342  ADJUST TRU 16" MANUAL 3 JAW CHUCK (ET-30/40)  5.35" THRU HOLE
OPT-3343  ADJUST TRU 20" MANUAL 3 JAW CHUCK (ET-30/400  7.48" THRU HOLE
OPT-3446  ADJUST TRU 25" MANUAL 3 JAW CHUCK (ET-30/40)  9.92" THRU HOLE
OPT-3232  16" REAR MOUNTED CHUCK FOR 4" SPINDLE BORE  Includes adaptor plate
OPT-3233  20" REAR MOUNTED CHUCK FOR 6" SPINDLE BORE  Includes adaptor plate
OPT-3235  25" REAR MOUNTED CHUCK FOR 9" SPINDLE BORE  Includes adaptor plate
*POR*  ADAPTOR PLATE FOR REAR MOUNTED CHUCK  Multiple sizes and bores available
*POR*  4 JAW, 6 JAW AND SPECIAL CHUCKS AVAILABLE
*POR*  A1 SERIES SPINDLES  A1 series spindles for bolt on chucks
OPT-3208  SOFT JAW SET FOR MANUAL CHUCKS
OPT-3240  30" FACE PLATE

**HYDRAULIC CHUCKS (PROGRAMMABLE WITH FOOT PEDAL)**

OPT-3216  HYDRAULIC 15" 3 JAW CHUCK  3.54" BAR CAPACITY
OPT-3217  HYDRAULIC 18" 3 JAW CHUCK  5.00" BAR CAPACITY
OPT-3250  HYDRAULIC 20" 3 JAW CHUCK  5.00" BAR CAPACITY
OPT-2040  HYDRAULIC 25" 3 JAW CHUCK  5.00" BAR CAPACITY, 9" HOLE AVAILABLE
OPT-3050  HYDRAULIC ACTUATED TAILSTOCK  Requires hydraulic chuck or steady rest option.

**CONTROL OPTIONS - FRYER / SIEMENS 828-HS**

OPT-2146  HANDWHEEL RUN FUNCTION  This feature allows you to control your program execution with the electronic handwheel. Turning the handwheel causes the program to run, with you controlling the feedrate. You can move forwards and even backwards with this handy feature. Designed to make proving-out programs easier with safety and confidence.

OPT-2147  DXF FILE IMPORT FEATURE  Allows you to import DXF files and quickly convert to a conversational program. Automatically create points for drilling operations or contours for milling.
IN-PROCESS PART PROBE MEASUREMENT CYCLES This feature allows you to measure part features during program execution. Can also be used in MDI mode after cutting the part to then measure certain features and display the measurement.

HIGH SPEED NETWORK INTERFACE High speed Ethernet port is the ideal way to connect your machine to your LAN (local area network). Features 10/100 MB/s bandwidth for fast uploads and downloads of part programs. Also features a drip feed option that allows you to run part programs larger than the memory of the machine.

REMOTE MONITORING Allows monitoring of the CNC from any remote location where internet access is available. Check cycle times, spindle load, feedrate override position, program being run and more. (Requires network interface option)

EXPANDED MEMORY 100 MB Standard memory of 6 MB is increased to 100 MB for handling larger CAM programs

RESIDUAL MATERIAL DETECTION This software option allows re-machining of pocket milling contours with a tool smaller than the original tool. The control will remember where material has already been machined and will cut only the residual material.

EXTENDED OPERATOR FUNCTIONS Includes additional part probing cycles, teach function, the ability to save tool data and tool offset data, save MDI programs and other features

SIEMENS OFFLINE PROGRAMMING SOFTWARE Easy-to-use software package that installs on a standard desktop PC and duplicates the control functions. Allows full programming and part program verification. Single package for lathe and mill. Windows 7-10 compatible.

SIEMENS TOUCH 2300 CNC CONTROL UPGRADE The 2300 CNC is based on the powerful Siemens 840D platform. This control features a 19” touch screen display, 5 axis expandable and advanced operator functions. Includes Handwheel run and Run verify features as well as probe cycles. Software options for this control are slightly different than the 828-HS control. Contact the factory for additional information.

SPARE “M” FUNCTION Use to connect remote devices like indexers, shuttles, clamps, etc.

CONTROL OPTIONS - FANUC 0i TF

FANUC 0i TF CNC

USB PORT FOR MEMORY STICK DEVICES

HIGH SPEED ETHERNET NETWORK PORT (100 MB/SEC)

REMOTE ELECTRONIC HANDWHEEL WITH AXIS AND RESOLUTION SELECT

2 MB PROGRAM STORAGE MEMORY UPGRADE (512K STANDARD)

WORK OFFSETS – 48 PAIR STANDARD

FANUC SPECIAL OPTIONS Fryer offers all Fanuc available options. Many of these options offer special features and performance and should be discussed with the factory.

PROBES

MARPOSS PART PROBE SYSTEM Wireless lathe part probe installs in turret for automatic measurement of part features. Requires Siemens In-process probe cycle option.

MARPOSS AUTOMATIC TOOL PRE-SETTER Motorized arm type pre-setter swings into position for automatically setting length and diameter offsets. Price on request due to chuck diameter selected.

TOOLING PACKAGES

LATHE TOOLING PACKAGE (1”) (1) 80° Diamond Holder, (10) Inserts, (1) 55° Diamond Holder, (10) Inserts, (1) 35° Diamond Holder, (10) Inserts, (1) OD Threading Holder, (10) Threading Inserts, (1) ID Threading Holder, (10) Threading Inserts, (1) Trigon Tool Holder, (10) Inserts, (1) Boring Bar, (10) Inserts, (1) Boring Bar, (10) Inserts, (1) Cut off Tool, (1) Cut Off Tool Block, (2) Cut Off Blade, (10) inserts Straight, (10) inserts Radius, (10) Inserts, (1) Insert Extractor (Boring bar adapter sleeves not included.)

LATHE TOOLING PACKAGE (1.25”) (1) 80° Diamond Holder, (10) Inserts, (1) 55° Diamond Holder, (10) Inserts, (1) 35° Diamond Holder, (10) Inserts, (1) OD Threading Holder, (10) Threading Inserts, (1) ID Threading Holder, (10) Threading Inserts, (1) Trigon Tool Holder, (10) Inserts, (1) Boring Bar, (10) Inserts, (1) Boring Bar, (10) Inserts, (1) Cut off Tool, (1) Cut Off Tool Block, (2) Cut Off Blade, (10) inserts Straight, (10) inserts Radius, (10) Inserts, (1) Insert Extractor (Boring bar adapter sleeves not included.)
## FACTORY SERVICES

<table>
<thead>
<tr>
<th>Code</th>
<th>Service Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-9000</td>
<td>FACTORY SET-UP &amp; TRAINING AT YOUR FACILITY</td>
<td>3 Days Contiguous US only; includes travel expenses.</td>
</tr>
<tr>
<td>OPT-9998</td>
<td>TRAINING ONLY -- 1 DAY</td>
<td>Expenses and travel time additional.</td>
</tr>
<tr>
<td>OPT-8999</td>
<td>RUN-OFF AT FACTORY</td>
<td></td>
</tr>
</tbody>
</table>

## ELECTRICAL OPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Option Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-3308</td>
<td>380-500 VAC 3 PHASE POWER (208-250 VAC standard)</td>
<td>Specify required voltage at time of order.</td>
</tr>
</tbody>
</table>

*rev. 031321*