Having the right ratio for the right speed at the right time is what transmission technology is all about. And it’s what makes Volvo I-Shift the most advanced — and most fuel efficient — automated manual transmission on the road today.
### FEATURE BENEFIT

- **High Level of Intelligence** - Continuously monitors numerous parameters to predict most optimum operation over next seconds and chooses ratios appropriately.  
  - Saves fuel and improves performance

- **Eco-Roll®** lets the engine drop to idle speed on slight downhill grades unless Eco-Roll® disabled by driver.  
  - Lowers parasitic consumption by up to 30 HP when enabled to save fuel

- **Integrated with I-VEB through Engine Brake Control Stalk**  
  - Outstanding, predictable performance (“Downhill Cruise”)

- **Idle Governor Driving Mode** allows driving slowly (for example, stalled traffic or backing) without cycling clutch.  
  - Provides driver comfort and excellent low speed operation while prolonging clutch life

- **Programmable Kick-Down switch** provides optimum acceleration.  
  - Maximizes driver input into truck performance

- **Programmable Economy and Performance modes available**  
  - Offers a “Dual Personality” transmission with optimized shift points for fuel economy or performance

### FEATURE BENEFIT

- **Informative Driver Display** gives driver extra information.  
  - More satisfying driving experience yields better driver retention

- **Adaptable for vocational and heavy haul applications**  
  - Optional Performance Plus (P+) mode includes functions that adapt gearshifts to off-road conditions and offer extra torque when starting from a standstill

- **Pumped lubrication rather than splash lubrication**  
  - Provides lubrication to where it’s needed, even at low speeds for longer life

- **Two shifters and multiple software feature packages available**  
  - Allows custom-tailoring to the customer’s wants and needs

- **Upgradeability throughout engine’s displacement ratings**  
  - Allows re-programming to any engine rating for maximum resale value

- **Ultra smooth clutch and launch control**  
  - Easy for driver to fully master the vehicle speed in any low speed situation, for example when backing up to a trailer or a loading dock

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### I-Shift Feature Packages

<table>
<thead>
<tr>
<th>Features</th>
<th>Family 1</th>
<th>Family 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ergonomic seat mounted shifter</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Basic Shifter type without manual controls</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Premium Shifter type with manual controls</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Manual gear shifting in Drive mode</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Manual gear shifting in Manual mode</td>
<td>Hold only</td>
<td>X</td>
</tr>
<tr>
<td>Manual selection of start gear</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Idle Governor driving mode</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Manual selection of idle driving gears</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Economy mode</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Performance / Performance Plus (P+) mode</td>
<td>X&lt;sup&gt;a&lt;/sup&gt;</td>
<td>X&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>Kick-Down</td>
<td>X&lt;sup&gt;c&lt;/sup&gt;</td>
<td>X&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td>Eco-Roll®</td>
<td>X&lt;sup&gt;c&lt;/sup&gt;</td>
<td>X&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td>Engine Brake Performance mode</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Auto Neutral when parking brake applied</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Auto Neutral at key-off if gear engaged</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hill Start Assist</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>STD PTO features</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Enhanced PTO features</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

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Functionality of features programmable per customer preference:

- **A** 1. Available  
  2. Available with auto return to Economy  
  3. Available with Performance Bonus Reward  
  4. Not available

- **B** 1. Available  
  2. Available in Economy mode only  
  3. Available with Performance Bonus Reward  
  4. Not available

- **C** 1. Available  
  2. Not available

- **D** 1. The P+ mode includes various functions that adapt gearshifts and gear selection to poor or hilly driving conditions

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**Feature upgradeability**  
- Unlimited within family and between families with gear shifter change

**Engine Torque upgradeability**  
- Unlimited by clutch, transmission and prop shaft

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