Pre-Delivery Manual

Ultra-Till (Disc & Coulter)
Series I 3030, 5036, 5042 & 5052
S/N A1096A+

Read the operator’s manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Illustrations may show optional equipment not supplied with standard unit.
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Important Safety Information

Look for Safety Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness.

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Use Adequate Lifting Means

The frame sections and gangs of this machine are extremely heavy. If using multiple lifters, make sure each is rated for at least its share of the load.

Prepare for Emergencies

▲ Be prepared if a fire starts
▲ Keep a first aid kit and fire extinguisher handy.
▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.
Be Familiar with Safety Decals
▲ Read and understand the “Safety Decals” section of the Operators Manual.
▲ Read all instructions noted on the decals.
▲ Keep decals clean. Replace damaged, faded and illegible decals.

Wear Protective Equipment
▲ Wear protective clothing and equipment.
▲ Wear clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
▲ Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection such as earmuffs or earplugs.
▲ Because operating equipment safely requires your full attention, avoid wearing entertainment headphones while operating machinery.

Avoid High Pressure Fluids
Escaping fluid under pressure can penetrate the skin, causing serious injury.
▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
▲ If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.

Use Safety Lights and Devices
Slow-moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
▲ Use flashing warning lights and turn signals whenever driving on public roads.

Use lights and devices provided with implement

Keep Riders Off Machinery
Riders obstruct the operator’s view. Riders could be struck by foreign objects or thrown from the machine.
▲ Never allow children to operate equipment.
▲ Keep all bystanders away from machine during operation.
Shutdown and Storage

▲ Lower implement, put tractor in park, turn off engine, and remove the key.
▲ Secure Ultra-Till using blocks and supports provided.
▲ Detach and store Ultra-Till in an area where children normally do not play.

Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

▲ When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
▲ When removing and installing wheels, use wheel-handling equipment adequate for weight involved.

Safety At All Times

Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.

▲ Be familiar with all machine functions.
▲ Operate machinery from the driver’s seat only.
▲ Do not leave machine unattended with tractor engine running.
▲ Do not stand between the tractor and machine during hitching.
▲ Keep hands, feet and clothing away from power-driven parts.
▲ Wear snug-fitting clothing to avoid entanglement with moving parts.
▲ Watch out for wires, trees, etc., when folding and raising machine. Make sure all persons are clear of working area.
Introduction

The Ultra-Till has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance, and safe operating practices will help the customer get years of satisfactory use from the machine.

Description of Unit

The 3030-UT5052 is a three or five-section seedbed preparation tillage tool. Working width ranges from 30 to 52 feet. The implement is designed to combine discing/slicing, with shallow harrowing in a vertical tillage field operation to smooth, level and incorporate chemicals in a single pre-plant pass.

Models Covered

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Document Family

- 576-026Q Pre-Delivery Manual (this document)
- 576-026P Parts Manual

Tools Required

- Basic Hand Tools
- Torque Wrench
- Fork Truck, Overhead Hoist or Loader

Pre-assembly Checklist

1. Before assembling, read and understand “Important Safety Information” in front part of this manual.
2. Have at least two people on hand while assembling.
3. Make sure area is level and free of obstructions (preferably an open concrete area).
4. Have all major components
5. Have all fasteners and pins shipped with machine.
Using This Manual

This manual was written to help you assemble and prepare the new machine for the customer. The manual includes instructions for assembly and setup. Read this manual and follow the recommendations for safe, efficient and proper assembly and setup.

An operator’s and parts manual is also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the operator’s manual before assembling the machine. Refer to the parts manual for proper part’s identification. As a reference, keep the operator’s and part’s manual on hand while assembling.

The information in this manual is current at printing. Some parts may change to assure top performance.

Definitions

The following terms are used throughout this manual.

NOTICE

A crucial point of information related to the preceding topic. Read and follow the directions to remain safe, avoid serious damage to equipment and ensure desired field results.

Note: Useful information related to the preceding topic.

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated. An orientation rose in some line art illustrations shows the directions of: Up, Back, Left, Down, Front, Right.
Shipping

The Ultra-Till will be shipped pre-assembled as shown.

Refer to Figure 3
• The Ultra-Till will be shipped with shipping stands that will not need to be returned to Great Plains.
• All hydraulics will be connected and purged.

Refer to Figure 4
• Gang assemblies and rolling treader assemblies will be pre-assembled and banded together on pallets.
• Finishing attachments (if equipped), will be pre-assembled and banded to pallet.
Unloading

Be sure the truck is on level ground, preferably concrete.

Centering components:
The Ultra-Till is very heavy, be sure and use 2, 8000# fork trucks to unload machine. Be sure and center fork truck or chains (overhead hoist) on components so they won’t slide and cause injury.

Unload Smaller Items First
Unloading the Ultra-Till is a potentially dangerous operation.
Reduce risk and complications by first unloading
1. the gangs and finishing attachments
2. the misc. boxes
3. the Ultra-Till
   (described in the next section)

Unload Ultra-Till
4. Place these components well out of the maneuvering area needed for unloading the Ultra-Till.
5. Double-check that all chains and tie-down straps have been released and stowed.
6. Set parking brake on trailer tractor.
7. Slowly lift the Ultra-Till off trailer bed using two fork lifts.
8. Stop lifting about 12” above the bed.
9. Have the truck driver slowly pull the trailer straight out from under the Ultra-Till.
10. Making sure to keep level from front to back and side to side, slowly lower the Ultra-Till.
11. Lower the Ultra-Till down until the shipping stands are about 12” off ground.
12. Remove shipping stands.
13. Remove tongue jack from field positions and put in storage position with foot of jack towards ground.
14. Slowly lower Ultra-Till until it resting on the center transport tires and front tongue jack.

Unpacking Boxes
Note: Position boxes in area that you can maneuver components up to machine to assembly.
15. Carefully remove banding from boxes.
16. Carefully remove banding from gangs and finishing reels.
17. Locate and identify all components before assembling.

Assembly and Setup Assistance
To order additional copies of pre-delivery instructions or operators and parts manuals, write to the following address. Include model numbers in all correspondence. If you do not understand any part of this manual or have the assembly or setup questions, assistance is available. Contact:

Product Support
Great Plains Mfg. Inc., Service Department
PO Box 5060
Salina, KS 67402-5060
(800)255-9215
gp_web_cs@greatplainsmfg.com
Assembly

Disc or Coulter Gangs

Note: When machine is unloaded from truck, hook machine to a tractor and be sure hose ends are clean and hook them to tractor so machine can be raised or lowered to ease the assembly process. Remove wing fold pins and carefully unfold wings to install wing gangs. See layout section for proper location of gang assemblies. The gangs will be marked on end blade with part number and location. The disc or coulter gangs are installed the same way. Coulter gangs are shown.

Refer to Figure 5

18. Remove bolts and pins from shipping locations shown. Carefully move gang assemblies ① to proper location and lower machine down until holes are properly aligned in gang hanger ②. Secure front with 1 x 5 1/2 pins ③, 3/8 x 2 1/4 hex bolts ④ and 3/8 top lock nuts.

19. Attach rear 3/4 x 2 1/2 pins ⑤, 3/4 flat washer ⑥ and 1/8 x 1 1/2 cotter pins.

20. Tightened all bolts to specs, see “Torque Values Chart” on page 13 and bend cotter pins.

Figure 5
Disc or Coulter Gangs
Rolling Harrow

Note: See layout section for proper location of rolling harrow assemblies. The rolling harrow assemblies ⬇️ will be marked on the rolling spike tube with part number. The mounting arms and slide bracket mounts ⬆️ will be shipped pre-assembled in correct locations on machine. The rolling harrow will be shipped pre-assembled on pallet with ball joint brackets assembled. Remove wing fold pins and unfold wings to install wing rolling harrow assemblies.

Refer to Figure 6

21. Remove 1 1/8 x 4 hex bolts ☼, from slide brackets ⬆️. Loosen u-bolts ❗️ on the ball joint brackets ❗️ & ❗️ and set the X dimension on the ball joint bracket ❗️ shown in layout section. Leave the ball joint bracket ❗️ loose for now, as it will have to be slid to location when mounting rolling harrow assemblies ⬇️.

22. Carefully move rolling harrow assemblies ⬇️ to proper location and lower machine down until holes are properly aligned (slide ball joint bracket ⬆️ as needed), in bracket mounts ⬆️.

23. Re-install the 1 1/8 x 4 hex bolts ☼, secure with 1 1/8 lock washer and 1 1/8 nut.

24. Repeat same procedure for all rolling harrow assemblies ⬇️.

25. Tightened all bolts to specs, See “Torque Values Chart” on page 13.

Figure 6
Rolling Harrow
Lights

Refer to Figure 7

26. The left hand and right hand light bracket assemblies will be shipped in proper location but will need turned around. Loosen the 1/2 x 1 set screw from light bracket tube and slide light bracket up and rotate 180 degrees and slide light bracket back down in bracket tube.

27. Tighten 1/2 x 1 set screw.
**Heavy Reel (optional)**

Note: It is very important to install the reel assembly in the order shown below and go to the rolling harrow placement drawing, see “Layout Section” of this manual for proper dimensions where it is marked xxx in drawing below. The reel arm assemblies ① dimensions are coming off of rear tube of drag frame to side of plate of reel arm assemblies ①. The reel tube assemblies ③ are dimensioned off of end of reel tube to side of plate on reel arm assembly ③ (dimensions in layout drawings may come off either end of tube). For complete parts breakdown see “Attachment Section” of Parts Manual.

Refer to Figure 8

28. Install mounting reel arm assemblies ① in position shown in reel following rolling harrow placement drawing with 5/8 x 3 1/32 x 4 1/2 u-bolts ②, 5/8 lock washers and 5/8 nuts. Torque u-bolts to 150ft-lb.

29. Attach reel tube assemblies ③ in direction shown in circle and place them in position shown (with arrow towards machine) with 5/8 x 2 17/32 x 3 1/2 u-bolts ④, secure with 5/8 lock washers and 5/8 nuts. Torque u-bolts to 150ft-lb.

30. Check to see that all bolts have been tightened to specs, See “Torque Values Chart” on page 13.
A-Frame Hitch (optional)

Refer to Figure 9

31. Attach a-frame hitch (1) to rear of center frame with 5/8 x 4 1/32 x 4 1/4 u-bolts (2), 5/8 lock washers and 5/8 nuts.

32. Hitch will have either the flex slide assembly (3) or the rigid slide assembly (4). There will be a 3/4 x 1 1/2 hex bolt (5) and 3/4 jam nut in front hole of assembly to keep the slide assembly from sliding clear out.

33. Tighten all bolts to specs, See “Torque Values Chart” on page 13.

Heavy Duty Hitch Extension (optional)

Refer to Figure 10

34. Attach extension tubes (1) to center frame with top and bottom plates (2), middle plate (3), secure with 3/4 x 10 hex bolts, 3/4 lock washers and 3/4 nuts.

35. Attach 51” cross bar (5) with 5/8 x 4 1/32 x 4 1/4 u-bolts (6), 5/8 lock washers and 5/8 nuts.

36. Tighten all bolts to specs, See “Torque Values Chart” on page 13.

Completing Setup

37. The SMV sign will be shipped with cardboard. Remove cardboard before transporting the machine.

38. Once the options are installed, fold the Ultra-Till to check for clearance and interferences. Slowly fold Ultra-Till while watching that hoses and wiring harnesses do not become pinched or kinked while watching for interferences.

Note: Double check that all bolts are tightened to specs, See “Torque Values Chart” on page 13. Consult the operating instructions, “Operator’s Manual”, for the first time field adjustments before going to the field.
### Torque Values Chart

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<td></td>
<td>1880</td>
<td>1380</td>
<td>2960</td>
</tr>
</tbody>
</table>

- a. in-tpi = nominal thread diameter in inches-threads per inch
- b. N·m = newton-meters
- c. mm x pitch = nominal thread diameter in mm x thread pitch
- d. ft-lb = foot pounds

Torque tolerance +0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Disc or Coulter Gang Bolt Torque 1 1/2"-6 650-750 Foot-pounds (175 lbs on 4’ cheater).
# Tire Inflation and Warranty

## Tire Inflation Chart

<table>
<thead>
<tr>
<th>Wheel</th>
<th>Tire Size</th>
<th>Inflation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge Wheel</td>
<td>6.70L-15” 4-ply</td>
<td>32 psi (221 kPa)</td>
</tr>
<tr>
<td>Gauge Wheel</td>
<td>7.50x10” 10-ply</td>
<td>80 psi (552 kPa)</td>
</tr>
<tr>
<td>Transport/Center</td>
<td>11L x 15SL 8-Ply</td>
<td>36 psi (248 kPa)</td>
</tr>
<tr>
<td>Transport/Center</td>
<td>11L x 15” Load F</td>
<td>90 psi (621 kPa)</td>
</tr>
<tr>
<td>Transport/Center</td>
<td>12.5L x Load F</td>
<td>90 psi (621 kPa)</td>
</tr>
<tr>
<td>Transport/Center</td>
<td>380/55R x 16.5</td>
<td>73 psi (503 kPa)</td>
</tr>
</tbody>
</table>

## Tire Warranty Information

All tires are warranted by the original manufacturer of the tire. Tire warranty information is found in the brochures included with your Operator's and Parts Manuals or online at the manufacturer's web sites listed below. For assistance or information, contact your nearest Authorized Farm Tire Retailer.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Web site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firestone</td>
<td><a href="http://www.firestoneag.com">www.firestoneag.com</a></td>
</tr>
<tr>
<td>Gleason</td>
<td><a href="http://www.gleasonwheel.com">www.gleasonwheel.com</a></td>
</tr>
<tr>
<td>Titan</td>
<td><a href="http://www.titan-intl.com">www.titan-intl.com</a></td>
</tr>
<tr>
<td>Galaxy</td>
<td><a href="http://www.atgtire.com">www.atgtire.com</a></td>
</tr>
<tr>
<td>BKT</td>
<td><a href="http://www.bkt-tire.com">www.bkt-tire.com</a></td>
</tr>
</tbody>
</table>
Hydraulic Connectors and Torque

Refer to Figure 11 (a hypothetical fitting)

Leave any protective caps in place until immediately prior to making a connection.

1. **NPT** - National Pipe Thread
   Note tapered threads, no cone/flare, and no O-ring.
   Apply liquid pipe sealant for hydraulic applications.
   Do not use tape sealant, which can clog a filter and/or plug an orifice.

2. **JIC** - Joint Industry Conference (SAE J514)
   Note straight threads ④ and the 37° cone ⑤ on “M” fittings (or 37° flare on “F” fittings).
   Use no sealants (tape or liquid) on JIC fittings.

3. **ORB** - O-Ring Boss (SAE J514)
   Note straight threads ⑥ and elastomer O-Ring ⑦.
   Prior to installation, to prevent abrasion during tightening, lubricate O-Ring with clean hydraulic fluid.
   Use no sealants (tape or liquid) on ORB fittings.

ORB fittings that need orientation, such as the ell depicted, also have a washer ⑧ and jam nut ⑨ (“adjustable thread port stud”). Back jam nut away from washer. Thread fitting into receptacle until O-Ring contacts seat. Unscrew fitting to desired orientation. Tighten jam nut to torque specification.

### Fittings Torque Values

<table>
<thead>
<tr>
<th>Dash Size</th>
<th>Fitting</th>
<th>N-m</th>
<th>Ft-Lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4</td>
<td>1/4-18 NPT</td>
<td>1.5-3.0 turns past finger tight</td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 JIC</td>
<td>19-20</td>
<td>14-15</td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 ORB w/jam nut</td>
<td>12-16</td>
<td>9-12</td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 ORB straight</td>
<td>19-26</td>
<td>14-19</td>
</tr>
<tr>
<td>-6</td>
<td>5/16-18 JIC</td>
<td>24-27</td>
<td>18-20</td>
</tr>
<tr>
<td>-6</td>
<td>5/16-18 ORB w/jam nut</td>
<td>16-22</td>
<td>12-16</td>
</tr>
<tr>
<td>-6</td>
<td>5/16-18 ORB straight</td>
<td>24-33</td>
<td>18-24</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 JIC</td>
<td>37-53</td>
<td>27-39</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB w/jam nut</td>
<td>27-41</td>
<td>20-30</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB straight</td>
<td>37-58</td>
<td>27-43</td>
</tr>
</tbody>
</table>
UT3030 Machine Layout, Disc
UT3030 Machine Layout, Disc
UT5036 Machine Layout, Disc
UT5036 Machine Layout, Disc
UT5042 Machine Layout, Disc
UT5042 Machine Layout, Disc
UT5052 Machine Layout, Disc
UT5052 Machine Layout, Disc

[Diagram of UT5052 machine layout with various parts labeled, such as L-Brackets, 8 Blade Gang, 9 Blade Gang, Gang Hanger, Gang Depth Indicator, etc.]
UT5052 Machine Layout, Disc
UT3030 Machine Layout, Coulter
UT3030 Machine Layout, Coulter
UT5036 Machine Layout, Coulter
UT5042 Machine Layout, Coulter

[Diagram of machine layout with various components labeled, including leading edge, trailing edge, feather wheel location, and different gang hangers.]
UT5042 Machine Layout, Coulter
UT5042 Machine Layout, Coulter
UT5052 Machine Layout, Coulter
UT5052 Machine Layout, Coulter
UT5052 Machine Layout, Coulter
### 5, 6 Blade Disc Gang Identification

<table>
<thead>
<tr>
<th>Left Hand Assy.</th>
<th>Right Hand Assy.</th>
<th># Blades Used On:</th>
</tr>
</thead>
<tbody>
<tr>
<td>577-066L</td>
<td>577-067L</td>
<td>5-Blade UT5042D</td>
</tr>
<tr>
<td>577-068L</td>
<td>577-069L</td>
<td>5-Blade UT5048D</td>
</tr>
<tr>
<td>577-148L</td>
<td>577-149L</td>
<td>6-Blade UT5036D</td>
</tr>
<tr>
<td>577-070L</td>
<td>577-071L</td>
<td>6-Blade UT5036D</td>
</tr>
<tr>
<td>577-074L</td>
<td>577-075L</td>
<td>6-Blade UT5052D</td>
</tr>
<tr>
<td>577-086L</td>
<td>577-087L</td>
<td></td>
</tr>
</tbody>
</table>

* Denotes 18” Blade
### 7, 8, 9 Blade Disc Gang Identification

<table>
<thead>
<tr>
<th># Blades Used On</th>
<th>Left Hand Assy.</th>
<th>Right Hand Assy.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7-Blade</strong></td>
<td><img src="image" alt="40534 577-076L" /></td>
<td><img src="image" alt="40534 577-077L" /></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="40534 577-078L" /></td>
<td><img src="image" alt="40534 577-079L" /></td>
</tr>
<tr>
<td><img src="image" alt="40534 577-080L" /></td>
<td><img src="image" alt="40534 577-081L" /></td>
<td><img src="image" alt="40534 577-082L" /></td>
</tr>
<tr>
<td><img src="image" alt="40534 577-083L" /></td>
<td><img src="image" alt="40534 577-084L" /></td>
<td><img src="image" alt="40534 577-085L" /></td>
</tr>
<tr>
<td><img src="image" alt="40534 577-086L" /></td>
<td><img src="image" alt="40534 577-087L" /></td>
<td><img src="image" alt="40534 577-087L" /></td>
</tr>
</tbody>
</table>

* Denotes 18” Blade
5, 6, 7 Blade Coulter Gang Identification

<table>
<thead>
<tr>
<th># Blades Used On:</th>
<th>Left Hand Assy.</th>
<th>Right Hand Assy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Blade</td>
<td>577-048L Turbo</td>
<td>577-049L Turbo</td>
</tr>
<tr>
<td></td>
<td>577-127L Ripple</td>
<td>577-128L Ripple</td>
</tr>
<tr>
<td>6-Blade</td>
<td>577-050L Turbo</td>
<td>577-051L Turbo</td>
</tr>
<tr>
<td></td>
<td>577-129L Ripple</td>
<td>577-130L Ripple</td>
</tr>
<tr>
<td>6-Blade</td>
<td>577-062L Turbo</td>
<td>577-063L Turbo</td>
</tr>
<tr>
<td></td>
<td>577-141L Ripple</td>
<td>577-142L Ripple</td>
</tr>
<tr>
<td>7-Blade</td>
<td>577-052L Turbo</td>
<td>577-053L Turbo</td>
</tr>
<tr>
<td></td>
<td>577-131L Ripple</td>
<td>577-132L Ripple</td>
</tr>
<tr>
<td>7-Blade</td>
<td>577-056L Turbo</td>
<td>577-057L Turbo</td>
</tr>
<tr>
<td></td>
<td>577-135L Ripple</td>
<td>577-136L Ripple</td>
</tr>
</tbody>
</table>
7, 8, 9 Blade Coulter Gang Identification

**Left Hand Assy.**

- 577-064L Turbo
- 577-143L Ripple

- 577-054L Turbo
- 577-133L Ripple

- 577-058L Turbo
- 577-137L Ripple

- 577-072L Turbo
- 577-145L Ripple

**Right Hand Assy.**

- 577-065L Turbo
- 577-144L Ripple

- 577-055L Turbo
- 577-134L Ripple

- 577-059L Turbo
- 577-138L Ripple

- 577-073L Turbo
- 577-146L Ripple

**# Blades Used On:**

- **7-Blade**
  - UT5036C

- **7-Blade**
  - UT5052C

- **8-Blade**
  - UT3030C
  - UT5042C
  - UT5048C
  - UT5052C

- **8-Blade**
  - UT5048C
  - UT5052C

- **9-Blade**
  - UT5048C
  - UT5052C
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