Crank Height-Adjustable Base
Installation Instructions
USER MANUAL

Series CR – Crank, Stroke 420
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1 Important Information. SAFETY FIRST!

Your safety and the safety of others are very important. Please familiarize yourself with all instructions and safety warnings before operating the table. Please keep this manual for future reference. 

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this user’s manual. This information alerts you to potential hazards that could hurt you or others. It is not practical or possible to warn you about all the hazards associated with operating or maintaining a table. Please use your own good judgment. 

You will find important safety information in a variety of forms. Safety Messages are preceded by a safety alert symbol ▲ and one of three signal words: DANGER, WARNING, or CAUTION. These safety messages are listed in order of severity, identify the general risks and what actions you are to take to avoid the risks. These signal words mean: 

▲ DANGER - Indicates an imminent hazardous with a high risk of serious injury or death. 
▲ WARNING - Indicates a potentially hazardous situation that if not avoided may could result in serious injury or death. 
▲ CAUTION - Indicates a potential hazardous, which may result in minor or moderate injury. It may also be used to alert against unsafe practices. 

▲ NOTICE - Indicates an alert to call attention to proper assembly instructions or particular operation procedures to assure correct equipment function and to avoid equipment damage or wear. 

The information and specifications included in this manual were in effect at the time of approval for printing. Enwork reserves the right to discontinue or change specifications or design at anytime without notice and without incurring any obligation whatever.
1.1 Important safety instructions.
Read all instructions before using table. Please save these instructions.

⚠️ WARNING - To reduce the risk of injury to persons:

1. This table is not intended for use by children or individuals with a physical or other impairment that may affect the ability to safely operate equipment.
2. Use this table only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
3. Never operate this table if it has a damaged part, if it is not working properly, if it has been dropped or damaged. In the event of any such event please return the table to a service center for examination and repair.
4. Never drop or insert any object into any opening.
5. Do not use outdoors.

⚠️ WARNING - Risk of Injury to Persons:

1. Do not use this table to lift people and do not use the table to lift heavy part or use this table as a platform for storage.
2. Maximum intended load is 130 pounds uniformly distributed (60 kilograms) including the tabletop when adjusting up and down.
3. Maximum intended load is 265 pounds uniformly distributed (120 kilograms) including the tabletop when stationary load.

⚠️ DANGER - Risk of injury, or death:

1. Do not use the desk if it has been dropped or damaged. Contact the manufacturer for examination or repair.
2. It is not allowed to connect self-constructed products or other mechanical device. To prevent damage, use only components recommended by the manufacturing company.

⚠️ WARNING - Risk of injury, or death:

1. During the raising or lowering of the table there exists a risk of squeezing or pinching between the moving desktop and fixed objects.
2. The necessary safety margins depend on the greatest type of injury risk that can be predicted. Where possible small pinch points exist (i.e. fingers) use at least a one inches (2,5 cm) safety margin and for body or head (especially where children may be present) use a minimum of 16 inches (41 cm) count from the floor or from their top of the table feet if that is relevant.
3. During the lowering or rising of the desktop, the operator must ensure that no person or object risk being harmed by the operation.
4. This tag should (at right) be located on the table during the initial installation.
5. Keep children away from moving parts and underneath the table.
6. The intended use of the table is adjusting a work surface between sitting and a standing position. The table is not designed for other uses.
7. The table must only be operated while in an upright position and must under no circumstances be operated while upside down.
8. The table must not be overloaded.
9. The table must be operated in a dry, enclosed space, such as an office or similar, Do not operate outdoors.
10. This table is not intended for use by individuals (including children) with limited physical, sensory or mental abilities or with a lack of experience and/or lack of expertise, unless they are supervised by a person responsible for their safety or have received instructions from that person on how to use the control unit.
11. Children must be supervised at all times to ensure that they do not play with the control unit.
12. The table may not be used to lift people. Do not sit or stand on a table while it is be raised or lowered.
13. The table must not be structurally or technically altered or modified in any way.

1.2 User Information

This column system is rated for commercial use only and is rated for a maximum load of 130 pounds uniformly distributed (60kg) including the tabletop, when adjusting and 265 pounds uniformly distributed (120kg) for stationary load.
1.3 Before you start:
Make sure that there is nothing blocking the travel of the desk in the space where it will operate.

2 Assembly & Adjustment

2.1 Assembly Instruction
The official assembly instruction will be found with the base components. Make sure to ask your desk vendor for an approved combination of desktop and frame.

2.2 System configuration (example)
The figure below shows the driving assignment for a configuration example. This configuration consists of:

1 Crank
2 Drive shaft
3 Gears

2.3 Adjustments
The table columns, gears and crank are sealed units and have no parts that can be serviced or adjusted by the user. In case of failure or unexpected operation or from maintenance control your vendor and arrange for service by a qualified technician.
3 Operation Instructions

⚠️ CAUTION – Risk of Pinching.
When you change the desktop position (especially without using pinch protection), you must ensure that no people or objects are located in the hazardous area nor may reach into it.

3.1 Basic functions

NOTICE - You must read the user manual carefully before installing or operating the control unit

3.1.1 Upward desktop movement
This function enables you to adjust the desktop upwards. To change its position, proceed as follows:

3.1.2 Downward desktop movement
This function enables you to adjust the desktop downwards. To change its position, proceed as follows:

4 Maintenance & Repairs

4.1 Cleaning, Inspection and Storage
Clean the table frame by wiping it down with a microfiber cloth moistened with a standard household cleaning solution. Never use solvents or abrasive or corrosive compounds.

Products must be cleaned at regular intervals to remove dust and dirt and inspected for mechanical damage, wear and breaks. - worn out parts must be replaced.

4.2 User Maintenance Instructions
Products are closed units and require no internal maintenance.
Columns must be inspected at attachment points, wires, piston rod, and cabinet, check that columns function correctly.

4.3 Repairs
Check all screws and bolts after the first week of use and tighten screws and bolts where necessary to ensure safe operation of the table.

If the table cannot be raised or lowered, check the drive shaft between the gears.

Should the table still not work as intended after taking these measures, please contact your vendor for further assistance. For instructions on the installation and care of the desktop, please follow the instructions from the manufacturer.
5 Appendix

5.1 Dimensions column system: series CR with 420 stroke
SERIES CR – CRANK

Note that these instructions show generic parts. Parts included in individual tables may differ in appearance and functionality but the assembly principle is the same.
ASSEMBLY INSTRUCTION

(Fig. 1) Feet

68003496
Screw Socket Button head UNC 5/16-18x5/8” Zn

(Fig. 2) Crossbars

Loosen screws to adjust crossbar length

68003490
Screw Socket Flat head UNC 5/16-18x1” Zn

Alternative foot types.

On-Foot / OnC (for 2-stage columns)

On-Foot / OffC (for 2-stage columns)

In-Foot / OnC (for 3-stage columns)

In-Foot / OffC (for 3-stage columns)

Adjustable crossbar (Crossbar T)

Fixed crossbar (Crossbar TF)

Holes used for mounting of crossbars on the long side of the house
(For 3-Leg tables only)

Holes used for mounting of crossbars on the short side of the house

Oval hole is only used for drive shaft on 3-leg tables
(Fig. 3) **Sidebars**

- 79100036 Screw Philips Undercut Flat Head 1/4" - 20x5/8" Zn

(Fig. 4) **Bumpers**

- 68003467 Bumper Ø1/2"x1/8" Transparent
- 68003468 Bumper 1/2"x1/2"x1/4" Transparent

Place thin bumpers on tube next to screw hole and next to tube edge.

Place thick bumpers on C-channel next to screw hole.
Adjustable crossbars for 3-column 90° table.

3 regular adjustable crossbars

1 special adjustable crossbar

No additional assembly kit

Fixed crossbars for 3-column 90° table.

3 regular fixed crossbars

1 regular fixed crossbar, 6" shorter than the other three crossbars.

1 additional assembly kit
(Fig. 7) 3-Column 120° Adjustable Crossbars

Adjustable crossbars for 3-column 120° table.
4 regular adjustable crossbars
2 Brackets
68005095 Bracket 120° Outer
68005096 Bracket 120° Inner

(Fig. 8) 3-Column 120° Fixed Crossbars

Fixed crossbars for 3-column 120° table.
4 regular fixed crossbars
2 Brackets
68005095 Bracket 120° Outer
68005096 Bracket 120° Inner
ASSEMBLY INSTRUCTION

(Fig. 8) Mounting of gears and drive shafts

1. Fit Gearbox Flex with correct side facing up (see below) on actuator shaft.
2. Insert plastic slide bearing into drive shaft hole of plastic adapter fitted in house.
3. Insert hex rod with grooves through plastic adapter, slide bearing and gearbox flex.
   NOTE: Make sure hex rod is pushed all the way into the gearbox. Groove should become visible.
4. Snap retaining washer into groove in hex rod to lock assembly in place.
5. Push worm gear (from crank arm assembly) onto the hex bar on either right or left side of the table.

Hex Bar with grooves always fit into Gearbox Flex. Groove closest to end always goes into the gear.
When two aluminum tubes are used, push tubes as far as possible towards houses.

Push O-rings toward inside edges to fix aluminum tubes in place.

When one aluminum tube is used, push O-ring toward outside edges to fix aluminum tube in place.

Drive shaft alternative with **two** aluminum tubes.
68004171
68004172
68004173

Drive shaft alternative with **one** aluminum tube.
68004170

*(Fig. 9) Mounting of gears and drive shafts*
(Fig. 10 a) **Assembly of crank arm**

![Diagram of crank arm assembly]

The worm gear should be inserted on the hex rod prior to mounting of drive shafts. Locate the worm gear next to the motor house at desired column. It does not need to be fastened.

(Fig. 10 b)

![Diagram of worm gear]

Insert hex rod (included in crank arm assembly) into the worm gear with one small locking ring on each side. Do not tighten the locking rings at this point.

(Fig. 10 c)

![Diagram of small locking rings]

Attach the large locking ring on the aluminum tube of the crank arm assembly. Lock it tightly with Allen key 3¾ inch from the crank arm as shown on illustration.

The mounting angle must be inserted between the handle and the locking ring.
Mount the aluminum tube onto the hex rod.
Attach the mounting angle with wood screws underneath the worktop 3¾" from the worktop edge.

With the mounting angle fixed in place push the crank arm handle against the angle.
Then push the hex rod as far as it goes into the aluminum tube.
Lock the small locking rings tight with Allen key.
Three different gear boxes are used:

The Gearbox Flex AC has one drive shaft outlet. The two sides are named A & C. The vertical rotation is reversed when the gearbox is turned upside down. The A-side is the side with screws. The C-side is the side without screws.

2-column tables only use Gearbox Flex AC

The Gearbox Flex BD has two drive shaft outlets placed in 90°. The two sides are named B & D. The vertical rotation is reversed when the gearbox is turned upside down. The B-side is the side with screws. The D-side is the side without screws.

The Gearbox Flex BD is used on the middle column of a 3-column 90° table.

The Gearbox Flex EF has two drive shaft outlets placed in 180°. The two sides are named E & F. The vertical rotation is reversed when the gearbox is turned upside down. The E-side is the side with screws. The F-side is the side without screws.

The Gearbox Flex EF is used on the middle column of a 3-column 120° table.

The actuators always go **DOWN** at a **CW** rotation.

The actuators always go **UP** at a **CCW** rotation. Hence must all gearboxes (Gearbox Flex) connected to a table frame turn in a unison direction.
The worm gear is placed on the side of the table where the crank handle should be. It is placed on the hex bar that is attached to the Gearbox Flex. The worm gear should be placed immediately outside the house. It does not need to be fastened.

The worm gear can be placed either way on the hex bar. The action remains the same.

Normally, the action of the crank arm should operate in the following manner:

**CW turn** = table going **UP**

**CCW turn** = table going **DOWN**

To achieve this on a 2-column table the Gearbox Flex must be placed with the A-side facing up on the right column and the C-side facing up on the left column.

The crank arm can then be placed on preferred side of the table (right or left).
3-Column Table 90°

Normally, the action of the crank arm should operate in the following manner:

**CW** turn = table going **UP**

**CCW** turn = table going **DOWN**

On a 3-column table every other Gearbox Flex must be placed with the “opposite” side up. That is, every other gear must have the side with the screws facing up. This means that the gears on both outer columns will be facing the same way.

As a gear with two drive shaft outlets is needed on the middle column, the Gearbox Flex BD must be used here.

As opposed to a 2-column table, the side on which the crank arm is placed has importance on a 3-column table.

The correct placement is as follows:

Crank arm on the **left side** = **CBC**

Crank arm on the **right side** = **ADA**

3-Column Table 120°

Same principle as for a 3-column 90° table apply also for a 3-column 120° table.
## Drive Shaft Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>68004170</td>
<td>Drive Shaft Kit c/c 26”-40” / OH 31”-45”</td>
</tr>
<tr>
<td>68004171</td>
<td>Drive Shaft Kit c/c 38”-64” / OH 43”-69”</td>
</tr>
<tr>
<td>68004172</td>
<td>Drive Shaft Kit c/c 58”-84” / OH 63”-89”</td>
</tr>
<tr>
<td>68004173</td>
<td>Drive Shaft Kit 120° c/c 26”-40” / OH 31”-45”</td>
</tr>
</tbody>
</table>

**Drive Shaft Kit 68004170**

- Used for OH 39” - OH 45”
- Used for OH 31” - OH 38”

**Drive Shaft Kit 68004171**

- Used for OH 57” - OH 69”
- Used for OH 43” - OH 57”

**Drive Shaft Kit 68004172**

- Complete kit is used

**Drive Shaft Kit 68004173**

- Complete kit is used
**ASSEMBLY INSTRUCTION**

**Crank Arm Kits**

<table>
<thead>
<tr>
<th></th>
<th>24&quot; C-Leg</th>
<th>30&quot; C-Leg</th>
<th>30&quot; T-Leg</th>
</tr>
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<tbody>
<tr>
<td>68004148</td>
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<td></td>
<td>1</td>
</tr>
<tr>
<td>68004149</td>
<td></td>
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<td></td>
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</tbody>
</table>

Crank Arm Kit 68004148  X = 14\"-18\"

Crank Arm Kit 68004149  X = 15\"-24\"

**User Manual Series CR**

User manual should be left on the table after completed installation.
ASSEMBLY INSTRUCTION

ASSEMBLY PROCEDURE

Fig. 1 FEET
Assemble the feet on the columns.
Tighten screws firmly.
**IMPORTANT:**
Make sure the correct screws are used. Using too long screws may destroy internal parts in the column.

Fig. 2 CROSSBARS
Attach the crossbars on the long side of the houses.
Tighten screws firmly.
Loosen the button head screws on the crossbars and adjust the frame to desired width.
Fasten the screws on the crossbars.

Fig. 3 SIDEBARS
Fasten sidebars in threaded holes on top of crossbars with flathead screws.
Two types of sidebars exist, symmetrical for T-leg tables and right/left-handed for C-leg tables.

Fig. 4 BUMPERS
The worktop is resting on the sidebars and on self-adhesive rubber bumpers placed on the crossbars. The bumpers should be placed as close to the fixing screws for the worktop as possible to keep the worktop from bending.
The rubber bumpers come in two thicknesses. The thicker ones are used on the C-channel. On fixed crossbars the thick bumpers are not used.

WORKTOP
Two sizes of wood screws for the worktop are included in the assembly kit.
68005206 Wood Screw Button head 8x3/4” Zn
68005207 Wood screw Flathead 10x2-3/8” Zn
The shorter screws through sidebars. The longer screws through crossbars.

**IMPORTANT:**
These wood screws require a minimum of 1” thick worktop.

Fig. 5 3-COLUMN 90⁰ TABLE, ADJUSTABLE CROSSBARS
3 regular adjustable crossbars and 1 special adjustable crossbar with an angled C-channel are used.

Fig. 6 3-COLUMN 90⁰ TABLE, FIXED CROSSBARS
3 regular fixed crossbars together with 1 regular fixed crossbar 6” shorter than the other three are used.
The assembly procedure is the same as for a 2-column table with the exception that the angled C-channel mounts to the middle house with one extra-long screw 1-3/8”.
An alternative foot, shaped as a spacer, may be used on the middle column.

Fig. 7-8 3-COLUMN 120⁰ TABLE
4 regular adjustable or fixed crossbars are used together with two 120⁰ brackets that attaches to the middle column.
The assembly procedure is the same as for a 2-column table. The 120⁰ brackets are attached with bolts and nuts.