

# Custom Hand Control Solutions

## Push-Pull Hand Control



### Hand Control Industrial

Custom hand controls are available to meet a variety of needs. These levers and joysticks can be used with push-pull controls for many applications including truck mixer, vibrator control, remote valve actuation, drive engagement and automatic pick-up hitch systems.

#### Description:

Custom Hand Control Solutions  
Industrial Push-Pull  
Hand Control

#### Applications:

- See individual hand controls

#### Features:

- See individual hand controls

#### Other Related Products:

- See individual hand controls



*Linking Motion & Control...*

The Tuthill Solution

# Custom Hand Control Solutions

## CH980



### Description:

Single axis hand control for use with push-pull controls, allows easy connection to input end for remote valve actuation, drive engagement, articulation lock and many more.

### Applications:

Boom lock  
Drive engagement  
Remote valve actuation

### Features:

5:1 Mechanical advantage  
For use on LD or MD cable assemblies  
Rugged construction  
Easy grip large molded handle  
Easy mount base

### Other Related Products:

CH900 Series Unistak  
CH980 Series Lever  
CH650 Joystick

### Materials:

Primarily plated steel

## Rack and Pinion Controls

### Description:

A series of direct acting robust lever controls designed for transmission of high linear, push-pull loads, through extended travel options up to 150mm.

### Applications:

Truck mixer  
Vibrator control  
Tandem roller

### Features:

Machined steel rack and pinion internal gearing  
Various friction and detent options available  
High mechanical advantage through varying lever ratios  
Compact enclosed die cast housing  
Various mounting hole configurations

### Other Related Products:

CH770 Double lockable lever  
CH771 Single lockable lever

### Materials:

Matte black finishes available  
Variety of special built features

### Suggested End Fittings:

Suitable for use with Cablecraft® LD and MD push-pull control cables



## CH700 Series

## Valve Lever Single Axis 165-041-002

### Description:

Single axis hand control for use with push-pull controls, allows easy connection to input end for remote valve actuation, drive engagement, articulation lock and many more.

### Applications:

Boom lock  
Drive engagement  
Remote valve actuation

### Features:

5:1 Mechanical advantage  
For use on LD or MD  
cable assemblies  
Rugged construction  
Easy grip large  
molded handle  
Easy mount base

### Other Related Products:

CH900 Series Unistak  
CH980 Series Lever  
CH650 Joystick



## Joystick Multi Axis 165-038-199

### Description:

Multi axis hand control for use with push-pull controls, allows easy connection to input end for remote valve actuation, drive engagement and many more.

### Applications:

Boom lock  
Drive engagement  
Remote valve actuation

### Features:

5:1 Mechanical advantage  
For use on LD or MD  
cable assemblies  
Rugged construction  
Easy grip large molded handle  
Easy mount base

### Other Related Products:

CH900 Series Unistak  
CH980 Series Lever  
CH650 Joystick



## Joystick Assembly Multi Axis CH650

### Description:

Multi axis control lever operator assembly. This control head is designed for independent operation of two hydraulic spool valves.

### Applications:

Remote valve actuation

### Features:

Varied locking functions for cable control  
Simple cable replacement capability  
Robust internal linkages  
Possibility of electronic functions

### Other Related Products:

CH900 Series Unistak  
CH980 Series Lever  
Cablecraft® LD and 4B 1/4" M6 Series Cables

# Custom Hand Control Solutions

## Material

- Zinc Based Die-Cast Body
- Plated Steel Internal/External Components

## Suggested End Fittings

- Rod Ends
- Clevises

## Leverstak CH400

The Leverstak control head is designed to extensively cover the agricultural equipment market. One of its major uses today is in the operating of tractor automatic pick-up hitch systems; also, it can be used as an alternative to the Unistak CH900 system where the "in line" action of the hydraulic spool valve can be maintained. Any number of operators may be secured together by studs which may also be used to mount the control onto the machine.

### Description:

Leverstak hand control

### Applications:

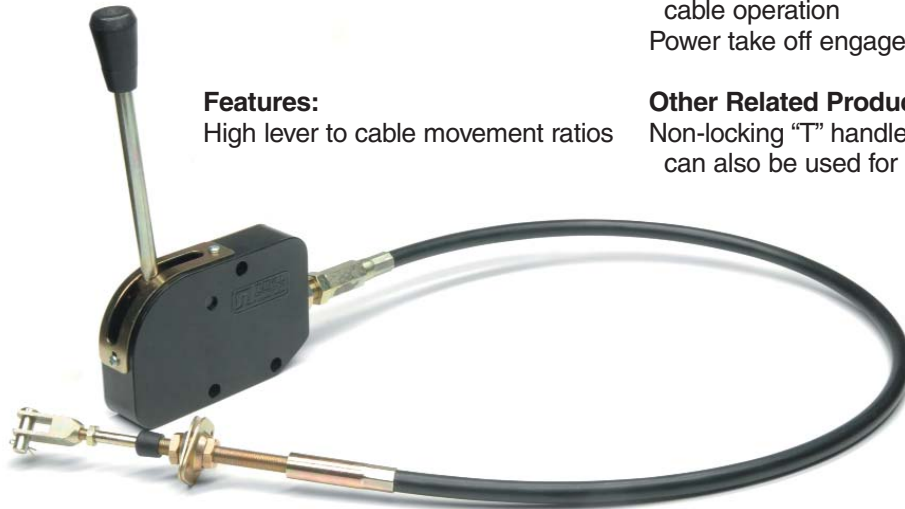
Automatic pick-up hitch release control  
cable operation  
Power take off engagement/disengagement

### Features:

High lever to cable movement ratios

### Other Related Products:

Non-locking "T" handle direct pull cable control can also be used for similar applications



## Direct Lever CH150

An operator to impart light to medium tension or compression (push-pull) loads through flexible or rigid conduits. This lever is designed primarily for P.T.O. applications on commercial and industrial vehicles. It can also be used for gear selection, valve operation and hand throttle applications, as well as many specialist requirements.



- Please refer to the cautions/warnings and appropriate installation usage information in the Technical/Application Data sheet
- For application assistance/technical questions, please contact us at the appropriate location listed below or through our website at [www.tuthillcontrols.com](http://www.tuthillcontrols.com)



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