MERRITT SYNERGY
OPERATOR CHAIR SYSTEMS

J.R. MERRITT CONTROLS
Combining superior comfort and adjustability, the MERITT SYNERGY line of operator chair systems brings ease-of-use and productivity to new heights.

TABLE OF CONTENTS

ADVANTAGES & APPLICATIONS  3
ADJUSTABILITY  4
SEATING & SUSPENSION  5
CONTROL CONSOLES  7
JOYSTICKS & HANDLES  8
FOOTRESTS & SLIDES  9
MODELS & SPECIFICATIONS  10
DIMENSIONAL DRAWINGS  11
ADVANTAGES & APPLICATIONS

The MERRITT SYNERGY chair systems feature a multitude of adjustment capabilities to help optimize comfort and reduce stressful seating positions for operators of all statures, from less than five feet tall to well over six feet in height.

IMPROVED NECK & UPPER BACK SUPPORT

High-resolution joysticks allow finer movement over a wider arc, helping the operator to hit the target with less stress and fewer corrections. Engineered for continual use in a multitude of environments.

HIGH RESOLUTION, PRECISION CONTROL

ADJUSTABILITY

HEADREST
Tilt adjustment 2.4°, tilt 38°

BACKREST
Recline forward 10° and backward 80°

ARMREST
Tilt adjustment, 11 positions, 5-30°

CONSOLES & SEAT
Slide forward and back, in tandem and independently.

SEAT CUSHION
Adjustable fore and aft.

ROTORATION
Entire system rotates up to 270°.

FOOTRESTS
Adjustable, 5 positions.

CONSOLES
Tilt down 20° and up 50°. Slew 5° in and 10° out.

SUSPENSION
Height adjustable to 3.2° and tilt to 14° with additional scissor.

APPLICATIONS

The MERRITT SYNERGY’s consoles, seats, suspension, armrests, and optional footrests offer numerous independent adjustments in a heavy-duty package. The system’s integrity, strength and adjustability make this premium line very popular for all machine and industrial cabin applications. Its versatile design, with many features and options, make the system highly customizable. MERRITT SYNERGY systems are commonly used on Cab Operated Cranes, Pulpits, Mining Dredges, Draglines, Drills, and Maintenance of Way Equipment.

The MERRITT SYNERGY chair systems offer high-resolution, precision control to improve comfort and reduce stress on operators of all statures. The systems feature a multitude of adjustment options, including headrests, backrests, armrests, consoles, and suspension, which can be adjusted independently to accommodate various seating positions. The entire system can rotate up to 270°, providing flexibility and comfort for operators in different environments. MERRITT SYNERGY systems are popular in machine and industrial cabin applications, including Cab Operated Cranes, Pulpits, Mining Dredges, Draglines, Drills, and Maintenance of Way Equipment.
**FEATURES & OPTIONS**

**SEATING & SUSPENSION**

**FEATURES**

**KOENIG SEAT**

The Koenig Operator Seat is a full-body contoured seat for optimum back and lateral stability.

This fully adjustable seat comes standard with highly durable black cloth upholstery, mechanical lumbar support, continuously adjustable recline, foldable backrest, adjustable seat depth and adjustable headrest.

Our leather seat includes all of the standard features above along with an extra upper lumbar tilt adjustment and adjustable side support. Baffles are incorporated into the backrest to allow for increased airflow.

**ACTIMO SEAT**

The Actimo operator seat offers a large range of quick and easily accessible adjustment features to adapt to most individuals in a range of applications. Standard features include mechanical lumbar support and ultra-tough velour or vinyl upholstery along with fore and aft seat slides, backrest tilt, cushion tilt, depth adjustment, document pouch and adjustable headrest.

**ADDITIONAL OPTIONS**

- Armrests with tilt adjust
- 2-point retractable seat belt
- 4-point shoulder harness
- Operator presence switch

**OPTIONS**

**MATERIAL**

- Standard
- Optional*

- Black cloth with smooth backrest
- Black leather with baffles
- Black cloth
- Black leather
- Black vinyl
- Velour

**ADDITIONAL OPTIONS**

- Electric backrest adjustment
- Motor driven seat adjustment
- Operator presence switch
- 2-point retractable seat belt
- 4-point shoulder harness
- Tilt & height adjustable armrests

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*Optional features typically increase production time 4 - 6 weeks. **Heated option includes seat and backrest 12 VDC.
FEATURES & OPTIONS
CONTROL CONSOLES

FEATURES

CONTROL CONSOLES

Customizable consoles feature a full range of adjustability to increase the comfort of your operators. Gas shock assisted tilt and movement capabilities are activated by conveniently located push buttons or levers, simplifying and speeding up the adjustment process. Console mounted armrests with angle adjustment help provide the necessary upper body support for applications when the operator is required to lean forward. Wired to your specifications.

STANDARD 10” CONSOLE
Removable covers that allow 8 buttons and 1 joystick or 6 buttons and 2 joysticks.

STANDARD 12” CONSOLE
Removable covers that allow 14 buttons and 1 joystick or 12 buttons and 2 joysticks.

CUSTOM-SIZED CONSOLE
Custom console with widths available up to 15” wide.

OPTIONS

JOYSTICKS

J.R. Merritt VNSO and VNS2 high-resolution joysticks provide the right combination of low cost of ownership and rugged reliability. See for yourself why J.R. Merritt high-resolution joysticks are the first choice in mission-critical applications where downtime is not an option.

• Single or multi-axis
• Non-contacting and contacting technologies
• Maintained, stepped, spring return, or friction-held handle action
• Drop-in or panel-mounted controllers
• And more

JOYSTICK OPTIONS

VNSO | MULTI AXIS
• Panel mounted
• High-duty cycle applications
• Step, stepless or friction brake
• Supports multiple handle functions & output devices

VCSO | MULTI AXIS
• Compact, panel mounted
• Step, stepless or friction brake
• Supports multiple handle functions & output devices

PRO4 | SINGLE AXIS
• Compact, panel mounted
• Step, stepless or friction brake
• Supports multiple handle functions & output devices

CS1 | MULTI AXIS
• Ultra-compact, panel mounted
• Step, stepless or friction brake
• Supports multiple handle functions & output devices

VISIT JRMERRITT.COM TO SEE OUR FULL LINE OF JOYSTICKS & CONTROLLERS

HANDLES

Multi-function grips put functionality at the operator’s fingertips and provide benefits in efficiency, space and design. We provide standard and custom multi-function grips to personalize your equipment.

Consoles Paint Color
Standard console paint color is light gray. Optional custom colors, including black, are available.
**FEATURES & OPTIONS**

**FOOTRESTS & SLIDES**

**FEATURES & OPTIONS**

**FOOTRESTS**

Footrests turn with the system and are highly adjustable to suit each individual operator and a variety of working positions.
- 2-piece open footrest
- Adjustable 2-piece with hinge for sideways adjustment

**FOOT PEDAL**

Heavy-duty foot pedals are designed with rugged, sealed construction, suitable for precise control in high duty cycle applications.

Available in:
- Proportional
- Step
- On/Off

**FLOOR SLIDES**

Floor slides optimize installation space and provide improved usability for various tasks. Floor slide sections are available in custom lengths up to 6000mm (19’). The stainless steel, roller-action floor slide has a quick release adjustment lever that can be operated while seated.
- Manual or solenoid floor slides
- Various slide ranges available

**SPECIFICATIONS**

**MODELS**

**FSRHD-G**

Heavy-duty, fully adjustable operator armchair system ideal for machine and industrial cabin applications including pulpits, simulators, cranes, mining dredges and shovels. The armchair’s versatile design makes it highly customizable, easy to use, and less bulky than other models. Developed to accommodate operators of different statures in a variety of cabin configurations, the FSRHD-G armchair system has multi-adjustable armrests and footrests.

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**FSRHD-2G**

Building on the attributes of the FSRHD-G, the 2G chair system has been engineered with additional levels of adjustability and ease-of-use to further cater to the needs of equipment operators. The tilt and movement capabilities of the consoles are controlled by conveniently located push buttons or levers, simplifying and speeding up the adjustment process. Featuring a sleek new design, the chair system’s wires and cable routing are fully integrated within the unit.

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**FSRHD-G & FSRHD-2G SPECIFICATIONS W/ KOENIG SEAT**

<table>
<thead>
<tr>
<th><strong>Rotation</strong></th>
<th>270° max</th>
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</thead>
<tbody>
<tr>
<td><strong>Seat Slide</strong></td>
<td>15.6” [400 mm] total adjustment</td>
</tr>
<tr>
<td><strong>Seat &amp; Console Slide Range</strong></td>
<td>7.8” [200 mm]</td>
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<tr>
<td><strong>Backrest Recline</strong></td>
<td>10° (forward) - 0° - 80° (backward)</td>
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<tr>
<td><strong>Seat Cushion Adjustment</strong></td>
<td>Depth: 3.9” [100 mm]</td>
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<tr>
<td><strong>Scissors</strong></td>
<td>Height: adjustable to 9.2” [230 mm] Tilt: adjustable to 14°</td>
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<tr>
<td><strong>Armrests</strong></td>
<td>11 positions, 6° - 30°</td>
</tr>
<tr>
<td><strong>Consoles</strong></td>
<td>Tilt: -20° (down), +50° (up) Slant: 5° in to 10° out</td>
</tr>
<tr>
<td><strong>Headrest</strong></td>
<td>Height adjustment: 2.4” [60mm] Tilt: 38°</td>
</tr>
<tr>
<td><strong>Heavy-Duty Air Suspension</strong></td>
<td>Max Weight: 375 lb [170 kg] Automatic weight adjustment 12-24 VDC models</td>
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SPECIFICATIONS
12" CONSOLE

A DEDICATION TO QUALITY & RELIABILITY
PRODUCTS CUSTOMIZED FOR YOUR APPLICATION
ENGINEERING SUPPORT THAT GOES THE EXTRA STEP

NO MATTER WHAT AXIS WE HAVE YOU COVERED

WANT MORE INFORMATION?

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