

TECH BRIEF

Seat Design

Operator environment is key to maximizing productivity and efficiency. While it may not seem like it, well-thought out seat design is crucial to the overall human machine interface (HMI). Here are some important considerations when developing your seat assembly.



Exterior and Other Concerns Before Seat Selection

Visibility & Sight Lines

Account for application specific operator sight lines and required visibility when determining the Seat Index Point (SIP).

Service of Seat/Vehicle

Sufficient access to harnesses, HVAC, & other essential machine components for necessary servicing.

Storage

Locations for operator gear and other basic items, that doesn't impede seat movement or sight lines.

Operator Entry & Egress

Clearance for steering columns, operator consoles, and other controls.

Ergonomics

Keeping operators comfortable with proper angles, control placement, and other application specific ergonomics.

Operational Controls

Proper design and placement of controls to ensure optimum ergonomics, function, efficiency, & performance.

Duty Cycle & Safety

Considering standard operator shifts to set environmental, operational, ergonomic, & safety features.

What works best for your seat assembly?

Style Customizations

Material - *Cloth, Vinyl & Leather are most common*
Seat Back Height - *Low, Mid-Range, High with Headrest*
Recline or Seat Angle
Lumbar Support - *Mechanical or Electric Adjust*
Electrical Control - *Lower Front or Side*
Document Storage
Private Labeling

Seat Adjustment

Swivel Rotational Range
Pod Size Effect on Location - *Armrest or Lower Frame*
Swivel Diameter & Max Load
Maximum Machine Speed
Rail Adjustment - *Single or Dual*
Operator Presence Switch

Mechanical or Air Ride Suspension

Voltage & Compressor Options
Adjustment Controls & Location
Maximum Load of Operator & Structures

Armrest Assembly & Joystick Pods

Standard or Multi-Axis - *For Pivoting Armrests*
Extend/Retraction Capabilities
Raise/Lower Controls
Pod Weight & Effects on Mounting Connection -
Armrest or Lower Frame

Seatbelts

On Highway DOT Requirements
Size - *2" or 3"*
Manual Tension or Retractable
Seat Belt Switch
Multipoint Seatbelt - *3, 4, & 5*

Heating & Cooling

Environmental Concerns
Standard Shift Duration
Heated - *Seat & Lower Back*
Cooled - *Seat Air Flow*



CONTACT

Please visit ADCEquipmentInnovations.com or contact us directly for more information. Our dedicated team of long-term, invested employees look forward to working with you.

7102 Zinser Street
Weston, WI 54476

1-920-975-1200 Main Phone
1-715-355-4440 Main Fax

<http://adcequipmentinnovations.com/>
sales@adcequipment.com Email Us

GS Global Resources
926 Perkins Drive
Mukwonago, WI 53149

1-262-378-5200 Main Phone
1-262-378-5400 Main Fax
1-800-261-8735 Toll Free

GSGR.com
sales@gsgr.com