



**Motion Control Engineering**  
 Voice: 916 463 9200  
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# Motion 2000 Hydraulic Engineering Survey

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Doc #: 42-FR-0456 A2 (JER032)  
 www.nidec-mce.com

## LOGISTICS INFORMATION

**MCE to complete shaded area:**

MCE Job Number:	Date Received:
Job Name:	Job Engineer:

**In order to better serve you and meet your schedule, this form must be completed and signed. Timely delivery and trouble-free installation begins with this data form. Accurate and complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.**

### Job Type

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Federal Government   | <input type="checkbox"/> State Government | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> School or University | <input type="checkbox"/> Courthouse       | <input type="checkbox"/> Hospital         |
| <input type="checkbox"/> Office Building      | <input type="checkbox"/> Private          | <input type="checkbox"/> Jail / Prison    |
| <input type="checkbox"/> Other                |   |   |

### Site & Contact Information

<b>Site Address</b>
<b>Owner Representative</b>
Print Name:
Signature:
Title:
Business Phone:
Cell Phone:
eMail:
Address:

### Consultant Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Form Completed By

Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Contractor Information

Business Name:
Contact Name:
Business Phone:
Cell Phone:
eMail:
Address:

### Shipping Information

<b>Ship To Address:</b>	
Notice Required:	<input type="checkbox"/> 24 hrs <input type="checkbox"/> 48 hrs
Lift Gate Truck Required:	<input type="checkbox"/> Yes <input type="checkbox"/> No



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## LOGISTICS & CODE DATA

### Logistics Information (continued)

#### Delivery & Payment Schedule

Standard MCE terms of payment (net 30 days) apply to your order. If you require special terms of payment, please provide an Alternative Payment Schedule.

Per state tax laws, it is critical that MCE receive exemption or resale certificates prior to the material being shipped and billed. If the job is a tax exempt job, send the exemption certificate with this form. If you are a resale customer and have a resale certificate, please make sure that the MCE accounting department has a copy on file.

Customer Job Number:		
Customer PO Number:		
Job Name:		
Number of cars:		
<b>Control</b>	<b>Delivery Date</b>	<b>Payment Date</b>
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Car " "		
Group " "		

#### Delivery & Payment Schedule

If different payment terms are required, please provide an alternative proposal. Please include specifics of building owner payments and provide a copy of your contract.

Alternative Proposal Provided:  Yes  No  
 Contract Attached:  Yes  No

#### Job Push-Outs and Cancellation

Jobs pushed out by the customer more than 90 days beyond the originally scheduled date may be subject to cancellation charges as follows:

- \* Before engineering commences: 10% of total sales order
- \* After engineering completed: 30% of total sales order
- \* After construction completed: 75% of total sales order

#### Extra Documentation

If this job requires additional engineering drawing packages or additional manuals, please indicate below.

<input type="checkbox"/> Drawing Sets	# Required:
<input type="checkbox"/> Manuals	# Required:

### Elevator Safety Code Compliance

Accurate information is essential. Both hardware and software are affected.

<b>Job Location (City/State):</b>	
<b>Contract Date:</b>	
<b>Project Type:</b>	<input type="checkbox"/> New Construction <input type="checkbox"/> Modernization
<b>Elevator Duty:</b>	<input type="checkbox"/> Passenger <input type="checkbox"/> Service <input type="checkbox"/> Freight
<b>Measurements:</b>	<input type="checkbox"/> U.S./Imperial <input type="checkbox"/> S.I./Metric
<b>North American Compliance:</b>	<input type="checkbox"/> U.S. <input type="checkbox"/> Canada
<b>ASME A17.1/B44 Edition:</b>	
<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000	
<b>Addenda/Supplements:</b>	
(None for A17.1-2010 and later) <input type="checkbox"/> 2008(a) <input type="checkbox"/> 2005(a) <input type="checkbox"/> 2002(a) <input type="checkbox"/> 2009(b) <input type="checkbox"/> 2005(S) <input type="checkbox"/> 2003(b)	
<input type="checkbox"/> ASME A17.1-1996/98	
<input type="checkbox"/> ASME A17.1- (Specify edition & addenda)	
<b>International compliance:</b>	
<input type="checkbox"/> Australia AS 1735	
<input type="checkbox"/> EN 81	
<input type="checkbox"/> Other (Specify):	
<b>Additional jurisdictional code compliance:</b>	
<input type="checkbox"/> California medical facility OSHPD Seismic Certification (additional charge for certified cabinet)	
<input type="checkbox"/> Chicago Chapter 18-30	
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway	
<input type="checkbox"/> GSA	
<input type="checkbox"/> Hawaii	
<input type="checkbox"/> Houston, TX <input type="checkbox"/> Existing Door Reopen Button, Fire Phase I	
<input type="checkbox"/> Maryland	
<input type="checkbox"/> Michigan <input type="checkbox"/> Permit/contract date prior to 6/21/2010?	
<input type="checkbox"/> Nebraska	
<input type="checkbox"/> New York City, <input type="checkbox"/> Appendix K <input type="checkbox"/> RS-18	
<input type="checkbox"/> Seattle,	<input type="checkbox"/> Multiple Phase I Switches
<input type="checkbox"/> Washington	# of 3-position: _____ # of 2-position: _____
<input type="checkbox"/> TSSA <input type="checkbox"/> Collapsible Car Top Guard Rail	
<input type="checkbox"/> Additional Compliance Requirements? Explain:	
<b>Job Specification</b>	
Does project have job specifications? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, number of pages: _____	
Have specifications been forwarded to MCE? <input type="checkbox"/> Yes <input type="checkbox"/> No	



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## CONTROL INFORMATION

### Type of Operation

**Simplex**

Parking Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_

If no parking floor, car stays at last call answered.

Selective collective  
 (intermediate floors have two call buttons in hall)

SAPB Single Automatic Pushbutton  
 (intermediate floors have one call button in hall)

SBC Single Button Collective  
 (intermediate floors have one call button in hall)

**Duplex or Group**  
 (provide hoistway and machine room drawings)

Duplex Selective Collective

Group Operation  
 Number of hall call risers per floor:  
 First Parking Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Second Parking Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Third Parking Floor: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 First free car will park at **First Parking** floor.  
 Second free car will park at **Second Parking** floor, etc.  
 If no parking floors, cars stay at last call answered floor.

Swing Car Operation Car(s): \_\_\_\_\_  
 Please describe in special instructions on next page.

Cross Cancellation Panel (existing must be relay logic)  
 (Existing hall P/B schematics are required.)

Cross Registration  
 (Existing hall P/B schematics are required.)

### Fire Service Operation

**Fire Service Phase I**  
 Main Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Doors will open:  Front  Rear  
 Alternate Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
 Doors will open:  Front  Rear  
**NOTE:** For **flood hazard zones**, the designated and alternate fire recall floors should be at or above the base flood elevation.

Additional Fire Phase I main return switch:  
 Switch location: Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Hoistway smoke detectors  
 At or below lower level of recall  
 Above lower level of recall

"Elevator Control Panel" (Chicago "high rise" only)

**Fire Service Phase II**

**Additional Fire Operation Requirements for Nassau County NY, Detroit MI, or GSA/Federal Jurisdictions:**  
 Shunt Trip Delay  
 Heat Detectors: (  MR  HW  Each floor )

### Operating Features

**Attendant Service**  
 Annunciator Panel in car

**Car-to-Lobby Lobby/Floor switch**  
 Location:  Car  Hall  Remote Panel  
 Park with doors:  Open  
 Closed (not recommended if in-car switch)  
 Return Landing#: \_\_\_\_\_ Floor Label: \_\_\_\_\_

**Earthquake Service** (shuts car down at floor)

**Emergency Medical Technician Service (EMT)**  
 Landing #: \_\_\_\_\_ Floor label: \_\_\_\_\_

### Operating Features (continued)

**Emergency Power Generator:** (not battery lowering)  
 Generator voltage same as line voltage?  Yes  No  
 Does same generator power other cars?  Yes  No  
 Number of cars to run at a time:  1  2  3 :

Emer pwr contacts during normal pwr:  Open  Closed

Power pre-transfer contact – 10 sec minimum

Manual Select Switch  
 Number of positions: \_\_\_\_\_ Labels: \_\_\_\_\_  
 Is emergency/standby power selector switch located at the designated level in view of all elevator entrances?  
 Yes  No

**Fan / Light Timer Option**  
 (Turns off in-car fan and light after period of inactivity)

**Flood Operation**  
 Lowest landing that the car can go in an event of a flood:  
 Landing: \_\_\_\_\_ Floor Label: \_\_\_\_\_  
**NOTE:** The designated and alternate fire recall floors should be at or above this level.

**Foldable/Collapsible Cartop Rail**

**Hospital Service (Code Blue):**  
 Landing #s: \_\_\_\_\_ Floor labels: \_\_\_\_\_

**Independent Service**  
 Pre-test switch in Controller

### Inspection/Access Requirements

**Car Top Inspection Station**  Yes  No  
 by MCE (NEMA 1 only)

**Extended Shaft Car Top Inspection**  Yes  No  
 (Bypasses 1<sup>st</sup> set of directional limits to move the car further up the hoistway during car top inspection; 2<sup>nd</sup> set of directional limits required, along with a separate multi-pole switch on car top complying with A17.1, 2.26.4.3; both sets of directional limits must be physical switches.)

**Hoistway Access Operation**  Yes  No  
 Top access switch:  Yes  No  
 Switch location:  Front  Rear  
 Bottom access switch:  Yes  No  
 Switch location:  Front  Rear  
 Select In-car Access (enable) switch type below.

**In-Car Inspection Operation**  Yes  No  
 Using top/bottom car calls or  up/down buttons.  
 Select In-car Inspection switch type below

**In-Car Inspection and/or Access Switch type**  
 (Only for ASME A17.1-2000/CSA B44-00 or later)  
 2-Position Inspection (INSP/NORM) switch  
 2-Position Access (ENABLE/OFF) switch  
 3-Position (INSP/OFF/ACCESS ENABLE) switch

**Load Weighing**  Yes  No  
 (Discrete oil pressure switches for load weighing)

**Monitoring**  
 mView complete in machine room  
 mView interface only to allow future connection  
 iMonitor / iReport, machine room or remote  
 iMon/Report interface only to allow future connection  
 IDS Liftnet interface



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## GENERAL & HYDRAULIC DATA

### Security

#### Car Call Security

- Card reader lockouts (dry contacts)
  - Car call card reader override switch
  - Switch Location: \_\_\_\_\_
- Keyed floor lockout switches
  - Switch location: Car Hall:
  - Number of switches: \_\_\_\_\_
- Floor Lockouts via PC (iMonitor)
- Basic security (enter security code using car call buttons)
  - Enable/disable via:  Key-switch on/off | Location: \_\_\_\_\_
  - 7-Day Timer (hardware)

#### Hall Call Security

- Card reader lockouts (dry contacts)
  - Hall call card reader override switch
  - Single switch overrides all car and hall card readers.
  - Location: \_\_\_\_\_
- Keyed floor lockout switches)
- Floor Lockouts via PC (iMonitor)

#### Bypass Security: (Fire service bypass is standard)

- Independent Service  Attendant Service
- Other: \_\_\_\_\_

### Enclosures

Machine room NEMA rating:  1(std)  12  4  4X

Number of machine rooms: \_\_\_\_\_

- Air conditioned enclosure (recommended for all but NEMA 1)
- Hinged enclosure (additional charge)
- GFCI outlet required in enclosure (added charge)
- Light required in enclosure (added charge)
- Enclosure pedestals required  2 inch  12 inch
- (Not available for OSHPD jobs)
- Machine room space limitations?

Indicate maximum space available for enclosure. Otherwise, MCE will select the enclosure based on job requirements. (Consider also limitations of entry halls and doors.)

\_\_\_\_ H x \_\_\_\_ W x \_\_\_\_ D

### Line Voltage

(actual measured line voltage) Choose closest below.

- 600  575  480  460  440  415
- 380  240  230  220  208  200
- 115  Other:

- AC 3 Phase (standard)  AC 2 Phase  AC Single Phase
- AC 3 phase (grounded leg delta configuration)\*

\* ATL motor starting only, unless isolation transformer used.

- 60 Hz (standard in U.S.)  50 Hz

Available Fault Current from AC Feed (kA): \_\_\_\_\_

Standard controller SCCR (Short Circuit Current Rating) is typically 5-10kA. If available fault current exceeds 10kA and cannot be reduced, please notify MCE for a quote.

### Motor Starting

(All MCE starters include Reverse Phase Sensor)

- Solid State  3/9 Lead Motor  6/12 Lead Motor (standard)

WYE-DELTA

ATL (Across the Line)

Customer supplied starter  
(Interface charges apply. Indicate type of starter above.)

Brand: \_\_\_\_\_ Model: \_\_\_\_\_

Remote

In MCE controller

MCE to install (customer shipping to MCE)

Customer to install (provide location/dimension sketch)

Additional charges will apply if coil voltage other than 120VAC.

### Hydraulic Data

#### Pump Motor(s)

New by MCE (Complete pump unit data form)

New  Existing

HP: \_\_\_\_\_ Motor brand: \_\_\_\_\_

Full load amps (MCE will estimate if blank): \_\_\_\_\_

Starts per hour:  80 (std)  120 (requires larger starter)

Multiple Motors (complete only for 2 or more motors)

Number of motors:  2  3  4

Number of disconnects:  1  2  3  4

Starting:  Sequential (recommended)  Simultaneous

Single motor operation if abnormal conditions

### Valve(s)

Brand  Maxton  Blain  EECO

TKE/Dover  Bucher (Beringer)

Other (specify): \_\_\_\_\_

Model: \_\_\_\_\_

Number of valves:  1 (standard)  2  3  4

Coils per valve:  1  2  3  4 (standard)  5

Voltage:  120VAC (standard)

Other (additional charge): V= \_\_\_\_\_

### Hydraulic Features

Battery Powered Lowering

By MCE

Other: \_\_\_\_\_ (electrical schematic required)

Life Jacket Interface

Low Oil Switch

Oil Tank Temperature Shutdown Switch

Pressure Switch Interface

(required when top of cylinder is above top of storage tank)

Resynchronous circuit for telescopic or dual pistons

Roped Hydro

Governor Set (electrical schematic required)

Governor Set/Reset

Coil Voltage: \_\_\_\_\_

**Door Information**

**Car Gate**

- Automatic passenger style doors
- Powered freight style doors
- Manual doors
- Other:

Gate Release Solenoid (not standard)  Yes  No

Voltage: \_\_\_\_\_  3-Phase AC  1-Phase AC  DC

Fuse:  2A  3A  Other: \_\_\_\_\_

**Hoistway Doors**

- Automatic passenger style doors
- Powered freight style doors
- Manual doors (complete below)
- Other: \_\_\_\_\_ (complete below)

Interlocks:

Closed contact  Yes  No

Locked contact  Yes  No

Door locking cam

Retiring (not driven by automatic passenger style car gate)

Voltage:  3-Ph AC  1-Ph AC  DC

Fuse:  2A  3A  Other:

Fixed cam

Bar lock (manually operated)

Mechanical

(Driven by automatic passenger style car gate)

**Door Features**

Infrared detector unit/photo eye

Cut-out switch in COP

Anti-Nuisance

Mechanical safety edge

Heavy doors at landings (list landings): \_\_\_\_\_

Dual door operators on same side for wide opening

Cartop door open/close buttons  
 (non solid state door operators)

Door Hold Operation (non-fire operation)

Switch  Button (max hold = 120 seconds)

Nudging

Reduced torque with buzzer

Buzzer only

Ignore photo eye after \_\_\_\_\_ seconds

If safety edge or door open button activated, doors should:

Stop  Re-open  Other: \_\_\_\_\_

**Sketch or Special Instructions**

**Automatic Passenger Style Doors**

**MCE**

SmarTraq Complete (Complete SmarTraq data forms)

SmarTraq Upgrade

(Upgrades existing operator to closed loop. Mark existing model below.)

**GAL**

MOVFR I

MOVFR II

Voltage:  220VAC  110VAC  
 (220 is default if no selection made)

MOMVC/MOHVC

MOM/MOH

MOD (230V)

MOSVCL

MOD (115V)

MOPM-P/MOPM-PL

MODHA

MOCT/MOCTA/MOCT/  
 MOMCT/MOHCT

MODVC/MODHVC

Motor Voltage:  220  110

MOA

Logic Voltage:  220  110

**MAC/Kone**

PM-SSC/104 Board

MAC (old style)

AMD/Kone

**TKE/Dover**

HD03M

HDLM

HD68/70/73/91

HD98/85 (Requires SmarTraq upgrade kit)

**Otis**

6970A – Resistance

6970A – Reactance

7300

A7770A

7782AA

OVL

iMotion 1 & 2

AT400

**ECI**

895/1000

VFE2500

2000

Voltage:  220VAC  115VAC  
 (220 is default if no selection made)

**Other**

IPC Encore (closed loop)

Mitsubishi LV1/4K

Delco (closed loop)

Schindler QKS 14 & 15

Atlantic/Vertisys Model:

Other (wiring diagram required):

**Powered Freight Style Doors**

**Door Controller Model**

Peelle

New

Existing

**Model:**

(electrical schematic required)

Courion

New

Existing

**Model:**

(electrical schematic required)

EMS

New

Existing

**Model:**

(electrical schematic required)

Other

New

Existing

**Model:**

(electrical schematic required)

**Door Operation (freight only)**

Opening:  Automatic  Momentary pressure

Closing:  Automatic  Momentary pressure

Constant pressure

Fire Ph. I Closing:  Automatic  Momentary pressure

Constant pressure





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## LANDINGS & OPENINGS

Floor Label*	Landing #	Floor Height	Car		Car		Car		Car	
			F	R	F	R	F	R	F	R
			<b>Check front and rear floor openings below</b>							
	16	overhead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	15	15-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	14	14-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	13	13-14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	12	12-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	11	11-12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10	10-11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9	9-10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8	8-9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7	7-8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6	6-7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5	5-6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4	4-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3	3-4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2	2-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1	1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Pit								
Capacity: <input type="checkbox"/> lbs <input type="checkbox"/> kg										
Up Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s										
Down Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s										
Total Travel: <input type="checkbox"/> ft <input type="checkbox"/> m										

\* Floor Label note: If using CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (BBB)

**Hoistway NEMA Rating:**  1 (standard)  12  4  4X

**Number of Hoistways:** \_\_\_\_\_

**EECO Hoistway Limit Switches** (Note: Only two mechanical limit switches are required with LS-EDGE landing system)

**MCE Landing System:**

Tape (LS-EDGE) Tape length \_\_\_\_\_ Tape Type:  Steel (Std.)  Stainless Steel

Tape (LS-QUITE) Hoistway NEMA 1 only Tape length \_\_\_\_\_ Tape Type:  Steel (Std.)  Stainless Steel

Vane (LS-STAN)

Rail (lbs):  8 – 12  15 – 18.5  22.5 – 30

**Customer Supplied Landing System**

**Traveling Cable** (Note: Separate form required)