



Motion Control Engineering
 Voice: 916 463 9200
 Fax: 916 463 9201

Motion 2000 Hydraulic Engineering Survey

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Doc #: 42-FR-0456 A9 (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 begin 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"/> DoD / UFGS
(TSSA Cert. Req'd) | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> School or University | <input type="checkbox"/> Office Building | <input type="checkbox"/> State Government |
| <input type="checkbox"/> Hospital | <input type="checkbox"/> Other | <input type="checkbox"/> Courthouse |
| <input type="checkbox"/> Jail / Prison | | <input type="checkbox"/> Private |

Site & Contact Information

Site Address

Owner Representative

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

Ship to Address:	
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:		
Control	Delivery Date	Payment Date
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.

Job Location (City/State):	
Contract Date:	
Project Type:	<input type="checkbox"/> New Construction <input type="checkbox"/> Modernization
Elevator Duty:	<input type="checkbox"/> Passenger <input type="checkbox"/> Service <input type="checkbox"/> Freight
Measurements:	<input type="checkbox"/> U.S./Imperial <input type="checkbox"/> S.I./Metric
North American Compliance: <input type="checkbox"/> U.S. <input type="checkbox"/> Canada	
ASME A17.1/B44 Edition: <input type="checkbox"/> 2019	
<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000	
Addenda/Supplements: <input type="checkbox"/> 2008(a) <input type="checkbox"/> 2005(a) <input type="checkbox"/> 2002(a)	
(None for A17.1-2010 and later) <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)	
International compliance:	
<input type="checkbox"/> Australia AS 1735	
<input type="checkbox"/> EN 81	
<input type="checkbox"/> Other (Specify):	
Additional jurisdictional code compliance:	
<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"/> Massachusetts	
<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, NY <input type="checkbox"/> Appendix K <input type="checkbox"/> RS-18	
<input type="checkbox"/> Seattle, Washington	<input type="checkbox"/> Multiple Phase I Switches
<input type="checkbox"/> Washington State	# of 3-position: _____ # of 2-position: _____ sws: _____
<input type="checkbox"/> TSSA <input type="checkbox"/> Collapsible Car Top Guard Rail	
<input type="checkbox"/> UFGS Specs Specify Branch:	
<input type="checkbox"/> Additional Compliance Requirements? Explain:	
Job Specification	
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	

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
 Fire Service Access Elevator(s)? _____ (list)

Additional Fire Operation Requirements for 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

Sabbath Operation

Inspection/Access Requirements

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

Extended Shaft Car Top Inspection Yes No
 (Bypasses 1st set of directional limits to move the car further up the hoistway during car top inspection; 2nd 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.

Other Power Related Features

- Brown Out Circuit
- TVSS Surge Suppressor

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: _____

Viscosity Control

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
 (nonsolid 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/MODCT/
 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
			Check front and rear floor openings below							
	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: _____

EEO 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)