



Motion Control Engineering
 Voice: 916 463 9200
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Element Traction Engineering Survey Form

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Doc #: 42-FR-0452 A1 (JER144)
 www.nidec-mce.com

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 these data forms. Accurate, complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.

Note: For any feature, accessory, or provision **NOT** listed, Element Series will not be able to meet the requirements of your application. Please contact your MCE Sales Account Manager for an alternate product price quotation.

Date:	Number of cars:
Job Name: (26 Chars per line)	
Job Location (city and state):	
Contract Date:	
Project Type: <input type="checkbox"/> New construction <input type="checkbox"/> Modernization	
Customer Job #:	PO#:

Delivery Schedule

Control	Delivery Date
Car "___"	_____
Car "___"	_____

Shipping Information

Contact:		
Phone:	Fax:	
Company name and address:		
City	State	Zip Code
Shipping Requirement:		
Advanced Notice: <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours		
Truck w/ Lift Gate: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Contractor Information Check if same as above

Contact:		
Phone:	Fax:	
Email:		
Company name and address:		
City	State	Zip Code

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.

Contact:

Phone:	Fax:
Cell:	
Email:	
Company name:	
Signature:	

Elevator Safety Code Compliance

Accurate information is essential.

North American Compliance: <input type="checkbox"/> U.S. <input type="checkbox"/> Canada
ASME A17.1/B44 Edition: <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) <small>(None for A17.1-2010 and later)</small> <input type="checkbox"/> 2009(b) <input type="checkbox"/> 2005(S) <input type="checkbox"/> 2003(b)
<input type="checkbox"/> ASME A17.1-1996 Addenda: <input type="checkbox"/> 1997(a) <input type="checkbox"/> 1998(b)
Additional state or local code compliance
<input type="checkbox"/> Chicago
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway
<input type="checkbox"/> Maryland
<input type="checkbox"/> Massachusetts (2004)
<input type="checkbox"/> Michigan (NOTE: Detroit not supported.)
<input type="checkbox"/> Nebraska
<input type="checkbox"/> New York City
<input type="checkbox"/> Washington State <input type="checkbox"/> Seattle

Selective Collective (Supports single riser installation only)

Simplex Duplex

Hoistway Configuration, Speed & Capacity

Floor Label*	Landing #	Floor Height	Car ___	Car ___	Lobby Floor	Parking Floor		Fire Service Recall Landing		Car Call Security <input type="checkbox"/> Key Floor Lockout <input type="checkbox"/> Card Reader Dry Contact (24V Contact Rating)	Pit Flood Operation <input type="checkbox"/>	EMT Service <input type="checkbox"/>	
						Main	Alternate	Main	Alternate				
		O.H.	Select floors served:										
	16	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	15	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	14	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	13	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	12	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	11	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	10	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	9	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	8	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	7	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	6	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	5	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	4	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	3	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	1	Pit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Capacity <input type="checkbox"/> lbs <input type="checkbox"/> kg						If no parking floor, car stays at last call answered.		Hoistway Sensor(s) <input type="checkbox"/> Above lowest landing of recall <input type="checkbox"/> At or below lowest landing of recall		Key Floor Lockout Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby		Please indicate lowest landing car can serve in an event of a flood.	Please indicate main EMT return floor.
Car Speed <input type="checkbox"/> fpm <input type="checkbox"/> m/s						<input type="checkbox"/> Park with Doors Open. <input type="checkbox"/> Doors stay open without demand.				Card Reader Override Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby <input type="checkbox"/> None			
Total Car Travel: <input type="checkbox"/> ft <input type="checkbox"/> m						Egress floor ___				<input type="checkbox"/> Independent Service Override			

* Floor Label note: For CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (888)

Line Voltage**3-Phase AC Line Voltage** (actual measured line voltage)

- Symmetrical Grounded Leg Delta
(ISO transformer required)

Choose closest selection below:

- 208 220 240 440
 460 480 575 600
 60 Hz (standard in U.S.) 50 Hz

Emergency Brake (Sheave brake not supported)

ASME A17.1-2000/CSA B44-00 or later requires the addition of an emergency brake on all new traction elevators, per 2.19. Also note that some alterations may trigger the requirement to add an emergency brake as well, depending on the Code edition (e.g., change in type of service, operation or motion control; increase in rated load or speed; changing the location of or replacing the driving machine; or replacing the motion controller).

- Hollister Whitney Rope Gripper (or equivalent)
(Standard 120VAC power supply)

Traction Data**IMPORTANT:** Only AC geared machine with DC brake supported.

- Machine** Existing New
 Ring & Worm Helical
Roping: 1:1 2:1
Brand: _____
Machine Location: Overhead Basement
(Not supported if Machine is >100ft from controller)

- DC Brake** Existing New
Picking: _____ Holding: _____
Coil Resistance: _____
Contact on Brake: N/O N/C

AC Motor

- Brand: _____
HP: _____ Voltage: _____
FLA: _____ # Poles: _____
Sync RPM: _____ FL RPM: _____
Frequency: _____

Variable Voltage Variable Frequency Drive

- Magnetek HPV-900-S2
 KEB F5

Digital Velocity Encoder

- By MCE By Customer
Cable Length: 25' 50' 75'
(Required)
 100'
 By Customer

Traction Features

- Auxiliary Battery Power Supply (MCE TAPS)
(Provide backup power for your AC controller, with sizing up to 30HP applications)
 Suspension-Means Monitoring (req'd for A17.1-2010 and later)
 Steel wire ropes \geq 8mm (Standard)
 Steel wire ropes < 8mm*
 Suspension means other than steel wire ropes *
* For non-standard suspension means, the customer must provide the Broken Suspension Member (2.20.8.2) or Suspension Member Residual Strength (2.20.8.3) monitoring means, including a normally closed contact.

Operating Features

- Earthquake Service**
 Seismic Switch
 By MCE By Customer
 Counterweight Derailment Device
 By MCE By Customer

- Emergency Power Generator**
Simplex Resume operation after recovering to closest floor
Duplex Sequentially lowers both cars to lobby. 3-position
Emergency power/standby switch (Auto / Car A /
Car B) will select which elevator to run.

- Fire Service Operation** (Fire Operation Provided as Standard)
 Additional Phase 1 Recall Switch
 Nudging during Fire Recall

- Inspection/Access Requirements**
 Car Top Inspection Station by MCE (NEMA 1 only)
 In-Car (2-position switch)
 With Up/Down Buttons
 Hoistway Access (2-position switch on COP required)
 Top Bottom

- Load Weigher**
 EMCO Rope Tension Load Weigher (Simplex/Car A)
Number of Ropes 4 5 6 7 8
Roping Diameter: 10mm 1/2"
 9/16" 5/8"
 EMCO Rope Tension Load Weigher (Car B)
Number of Ropes 4 5 6 7 8
Roping Diameter: 10mm 1/2"
 9/16" 5/8"
 Discrete Load Weigher Interface

Hoistway

IMPORTANT: Only NEMA 1 hoistway supported on this product.
Reduced stroke buffers NOT supported.

- Landing System**
Distance Feedback
 LS-EDGE Tape Length Required (ft): _____
Tape Type: Steel (Std.) Stainless Steel
 LS-RAIL (Not recommended on systems with slide guides
due to wheel slip and contaminant issues)

- EEO Limit Switch**
 Mounting Brackets provided by MCE

- Traveling Cable** (Hang Length Maximum 200 ft.)
Cable Length Required (ft): _____
Cable Accessories
 Kellem Grips

Automatic Passenger Style Doors

IMPORTANT: Only fully automatic, horizontally-sliding, passenger-style doors are supported on this product.

Door Operator		
Manufacturer	Model	Interface
Armor	C4	<input type="checkbox"/> SmarTraq Upgrade Kit
	895	<input type="checkbox"/> Built-In
ECI	1000	<input type="checkbox"/> Built-In
	2000	<input type="checkbox"/> Built-In
	VFE2500	<input type="checkbox"/> Built-In
GAL	MOD (220V only)	<input type="checkbox"/> Built-In
	MODHFL	<input type="checkbox"/> Built-In
	MODP	<input type="checkbox"/> IPC Universal Interface
	MOVFR (220V only)	<input type="checkbox"/> Built-In
Haughton	T	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	T1	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	TH	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
		<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
MCE	SmarTraq	<input type="checkbox"/> Built-In
Montgomery	MAC PMSSC	<input type="checkbox"/> Built-In <input type="checkbox"/> SmarTraq Upgrade Kit
	Old-Style MAC	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
Otis	7300	<input type="checkbox"/> IPC Universal Interface
	7782	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	6970A - Reactance	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	6970A - Resistance	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	OVL (Gear Ratio 6:67.1)	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	OVL (Gear Ratio 11:33.1)	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
		<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
TKE/Dover	052	<input type="checkbox"/> IPC Universal Interface
	DC-62	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	DC-68	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	HD-70	<input type="checkbox"/> IPC Universal Interface
	HD-73	<input type="checkbox"/> IPC Universal Interface
	HD-85	<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-91	<input type="checkbox"/> IPC Universal Interface
	HD-98	<input type="checkbox"/> SmarTraq Upgrade Kit
	HD-LM	<input type="checkbox"/> Built-In
	MKII	<input type="checkbox"/> IPC Universal Interface
Type D	<input type="checkbox"/> IPC Universal Interface	
Westinghouse	A	<input type="checkbox"/> SmarTraq Upgrade Kit
	AA	<input type="checkbox"/> IPC Universal Interface
	B	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	BB	<input type="checkbox"/> IPC Universal Interface
	BB2	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	E	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	E4A	<input type="checkbox"/> IPC Universal Interface
	EZ	<input type="checkbox"/> SmarTraq Upgrade Kit
	HY	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	MG	<input type="checkbox"/> IPC Universal Interface <input type="checkbox"/> SmarTraq Upgrade Kit
	MS	<input type="checkbox"/> IPC Universal Interface

Built-in: Door operator interface is built-in. The controller can interface with the door operator directly.

IPC Universal Interface: Interface with existing operator to open loop. Uses IPC Universal Interface Board.

SmarTraq Upgrade Kit: Upgrades existing door operator to closed loop. Comes with drive interface and motor.

Door Features

- Door Hold Operation (non-fire operation)
 - Switch Button (default hold time = 120 seconds)
- Infrared detector unit/photo eye
 - Cut-out switch in COP
- Nudging Output[†]
 - Buzzer only (doors remain open)
 - Reduced closing torque & buzzer
 - Nudging with stuck photo eye

[†] Buzzers/Lights must be 24VDC

Fixtures

Auxiliary Car Station

- Discrete wiring to main COP board.
- Provide additional serial COP board.

Cab Fan/Light Timing Circuit

Call Registration

- Serial Car Call (standard)
- Serial Hall Call (standard)

Lanterns & Gongs/Chimes

- Car Lanterns[†]
 - Discrete Serial 3-wire Microcom
- Hall Lanterns[†] (Only Serial 3-wire Microcom supported)
- Passing Floor Gong[†]
 - Passing Floor Gong Enable ("S") Button Interface

[†] Buzzers/Lights must be 24VDC

Indicators[†]

- Call Registration Buzzer
- Door Hold Light
- Egress Floor Gong
- In-Service Light
- Security Light

[†] Buzzers/Lights must be 24VDC

Serial Fixture Driver Format (Built into CPU board in controller)

- CE Electronics 3-Wire Microcom
- E-Motive 3-Wire Driver

Serial Fixture Pre-Wire

Ship Serial Boards to fixture manufacture for pre-wire:

Contact Person: _____

Phone#: (____) ____ - ____

- | | | |
|---|----------------------------------|--------------------------------|
| <input type="checkbox"/> C.E. Electronics | <input type="checkbox"/> EPCO | <input type="checkbox"/> Dupar |
| <input type="checkbox"/> Innovation Industries | <input type="checkbox"/> Monitor | <input type="checkbox"/> Mad |
| <input type="checkbox"/> ERM | <input type="checkbox"/> PTL | |
| <input type="checkbox"/> Elevator Contractor Office | | |
| <input type="checkbox"/> Other | | |

Which boards to be sent? COP Hall Station
 Node _____