

# TAC 50

THYSSENKRUPP ELEVATOR'S MOST ADVANCED ELEVATOR CONTROL SYSTEM

**ThyssenKrupp Elevator**  
Americas Business Unit



ThyssenKrupp

SOPHISTICATED DESIGN



Imagine an elevator control system that is all of these, plus being available for both new installations and modernizations. With ThyssenKrupp Elevator's TAC50® control system, imagination becomes reality.

The TAC50 control system provides the highest degree of flexibility in matching elevator performance to the changing characteristics of passenger demands in tomorrow's buildings.

**The result: exceptional performance year after year.**

INTELLIGENT.  
INNOVATIVE.  
EFFICIENT.  
ACCURATE.  
RELIABLE.  
FLEXIBLE.

## INTELLIGENT.

ThyssenKrupp Elevator's TAC50 digital controller offers precise stops and starts. By using statistical information, the TAC50 provides optimum performance with energy efficiency. Utilizing our state-of-the-art sensitive load-weighing device, the TAC50 controller is able to detect a weight change as slight as 15 lbs. And, the TAC50 knows what percentage of the car's capacity is in use and available. It then responds to provide maximum performance in transporting passengers.

By performing literally thousands of calculations every minute, the controller is able to gather precise conclusions from imprecise information to determine the most efficient way to move passengers. Before the TAC50 assigns a call to any elevator, it analyzes the location of each car, the position of the doors and the number of calls each car must answer. The control system continuously scans all elevator activity and reassigns calls as necessary to reduce passenger wait times.

Using advanced algorithms, the controller considers many possibilities before reaching an operational decision, such as probable stops generated by any given car, the ratio of car weight to number of car calls, building characteristics or observed traffic patterns.





# INNOVATIVE.

ThyssenKrupp's Destination Dispatch® system is just one more intelligent feature available on the TAC50. Whether you choose to have Full or Boost operation, Destination Dispatch reduces overall trip time for passengers by allowing them to designate the floor they want before the elevator actually arrives. A kiosk then directs passengers to the elevator that will get them to their destinations the fastest, reducing trip times and increasing handling capacity by up to 30%.

## **Full Destination Operation**

With Full Destination Operation, kiosks are provided throughout the building for optimum dispatching of passengers — all day, every day. Passengers utilize kiosks rather than typical car and hall fixtures. Destination Dispatch results in increased handling capacity, reduced overall trip times and less crowding in the elevators.

## **Boost Operation**

With Boost Operation, the Destination Dispatch kiosks reside at one or two “main” lobby levels to assist in transporting passengers throughout the building quickly and efficiently during heavy traffic times; such as, early morning arrivals, lunch and afternoon departures. When Destination Dispatch kiosks are not in use, the elevator will operate using optimal Estimated Time of Arrival (ETA) dispatching via typical car and hall signals.

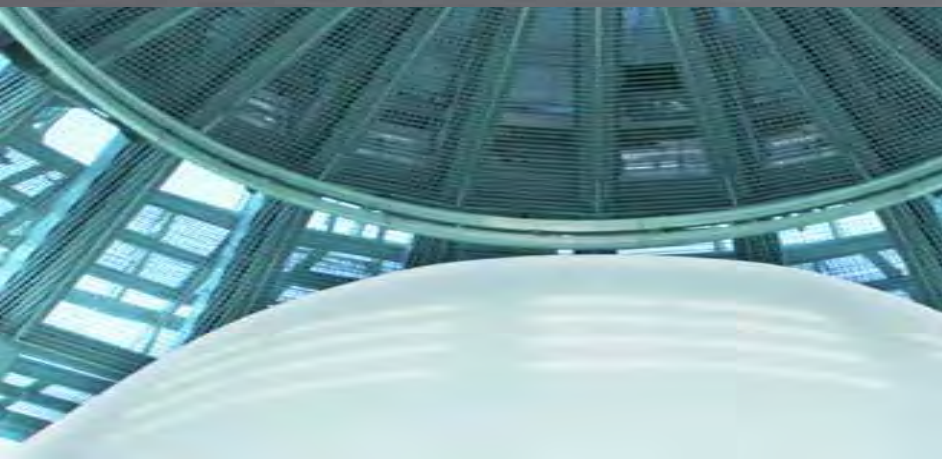
## EFFICIENT.

ThyssenKrupp Elevator utilizes the most sophisticated drive in the industry. Our digital AC drive is a smart, cost-effective solution. It reduces operating costs by maximizing energy efficiency, protects electronic equipment through low harmonic distortion, and eliminates disruption caused by radio frequency interference (RFI). ThyssenKrupp Elevator's superior drive system is regenerative, meaning that it recycles unused electricity. In fact, the system is so energy efficient that its "power factor" approaches 1.0, the perfect operating condition.

Our drive system can actually help to protect sensitive electronic equipment located in the building and meets the IEEE standard. In modern buildings full of sensitive electronic systems, radio frequency interference can lead to major disruptions. Our drive produces so little RFI that it meets or exceeds the established standards in the U.S. and Canada, as well as, the European community. That equates to virtually no disruption to today's most sophisticated technologies.







A tall, dark grey control cabinet for a ThyssenKrupp elevator. The top of the cabinet features a blue horizontal band with the text 'ThyssenKrupp Elevator' and 'TAC 50' in white. To the right of this band is a small white square with the number '1'. On the lower right side of the cabinet, there is a blue warning label with a white triangle containing a lightning bolt, the word 'DANGER' above it, and 'HIGH VOLTAGE' below it. The cabinet is set against a background of vertical blue and green light strips.

ThyssenKrupp Elevator  
**TAC 50**

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ThyssenKrupp Elevator has the technology to monitor the vital signs of your elevator system 24/7 via any of our optional systems. From our Intelligent Monitoring System (IMS), to VISTA Remote Monitoring to VIEW, tracking is easy.

## ACCURATE.

### **IMS™**

With IMS, you can see real-time traffic group dispatching and status displayed, as well as, perform real-time traffic analysis. IMS also stores all historical elevator traffic data to allow for fast traffic analysis when needed. With the proper IMS equipment, you can view all of this information from anywhere in your building.

### **VISTA Remote Monitoring®**

Available exclusively from ThyssenKrupp Elevator, VISTA Remote Monitoring is an innovative service feature for control systems that monitors the performance of your elevators around the clock, every second of every day.

This remote monitoring operation is the next best thing to having a trained service technician on your premises 24/7.

A communications device, installed inside your elevator controller, relays an ongoing stream of information to ITS-America's® SoundNet® Call Center. Critical events are immediately forwarded to your local office where appropriate action can be taken.

### **VIEW®**

The diagnostic tools designed by ITS-Americas are used to transmit comprehensive service data to VIEW, a secure website that enables you to monitor your service activity anytime and from anywhere in the world, with just a few clicks of a mouse. You are able to sign in and VIEW specific maintenance information and customize the reports that you want to see.

Whether you manage a single property with two elevators or a dozen multi-building complexes all over the continent, VIEW will make it simple for you to know exactly what is going on with your elevators.

## RELIABLE.

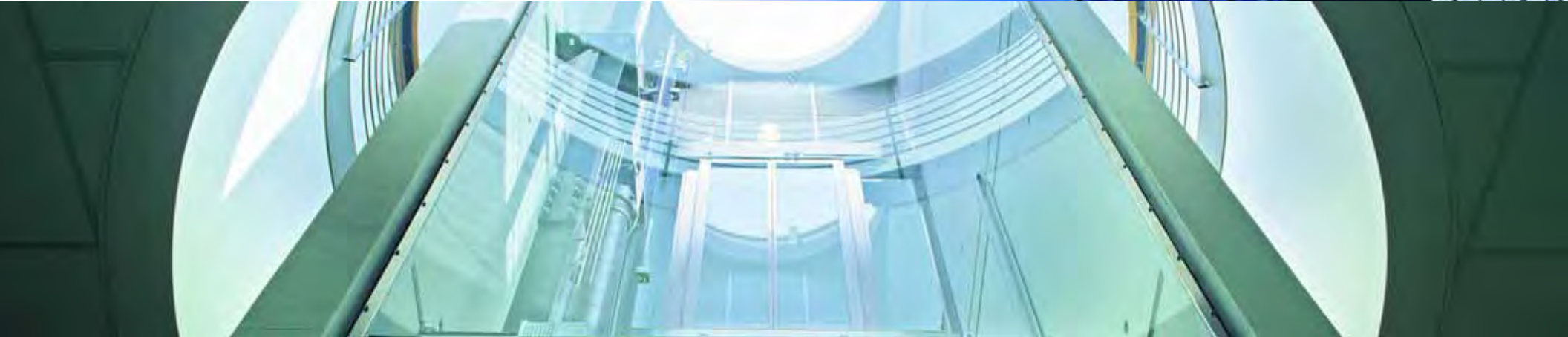
The TAC50 control system uses rugged CANBUS technology which is durable, flexible and adaptable. CANBUS has been proven to be superior technology because of its ability to function in difficult electrical environments.

But the real importance of CANBUS technology is that it has excellent real-time, error detection and fault confinement capabilities.

CANBUS uses fewer wires and electronics are fully interchangeable, creating a flexible system for simple future upgrades.







## FLEXIBLE.

ThyssenKrupp's TAC50 control system offers various flexible programming operations for transporting passengers day in and day out. With ANSI A17.1 code compliant features, such as fire service, emergency personnel get passengers out of the building quickly and safely.

Other passenger life-saving operations, such as Code Blue, hospital emergency service and infant security can be added to meet the specific needs of your project. And, in the event of a power failure, the TAC50 has options to utilize the building's standby power generator, which ensures a safe and immediate exit for passengers during emergencies.

## OPENING POSSIBILITIES FOR THE FUTURE.

Upgrading to a TAC50 can improve the performance of your traction elevators, even if they are just a few years old. Our team of modernization professionals can recommend the right TAC50 system for you. Features such as cross-cancellation and the flexibility to retain existing equipment makes a TAC50 modernization nearly seamless.

With no obligation, we'll survey your existing elevator operations and recommend specific options, which can help improve the performance of your elevators.

TAC50 allows changes to features or options without requiring replacements of costly components. For future equipment or performance upgrades,

a technician installs new software and immediately updates your TAC50 control system.

The TAC50 control system can be designed for up to a 10-car group operation and can handle either passenger or freight elevator applications.





**INTELLIGENT. INNOVATIVE. EFFICIENT. ACCURATE. RELIABLE. FLEXIBLE.**

**Why choose a  
ThyssenKrupp TAC50?**

ThyssenKrupp Elevator continues to set standards so stringent that no one comes close to providing more reliable and durable products. With an extensive background of the latest computerized technologies applied to elevator systems, ThyssenKrupp Elevators' engineers can determine the most logical system to meet the expected requirements for your building and provide flexibility for the unexpected.

With ThyssenKrupp Elevators' TAC50 controller, hoisting equipment, cabs and accessory items, you get the finest elevator system available. Let us help you plan your vertical transportation equipment for maximum efficiency and economy.

**Contact your local TKE representative toll free at 877-230-0303 and step into the future of elevator controls.**



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