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Foundations For Dynamic

Equipment Inti

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FOUNDATIONS FOR DYNAMIC  
EQUIPMENT kinematics of a slider crank  
mechanism driven by, or driving, a  
rotating crankshaft. Individual inertia  
forces from each cylinder and each

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throw are inherently unbalanced with dominant frequencies at one and two times the rotational frequency (Fig. 2.2).

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Technical Discussion of Dynamic  
Foundation in Soil • Model, Equations •  
Example Calculations and

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Recommendations 4. References - ACI  
Committee 351, Books 5. Closing &  
Questions 9 . Types of Foundations For  
Equipment 1. Not Dynamic (Inertial  
Forces are Not Significant) 2.  
Foundations for Dynamic Sources a)  
Isolated b) On ground 3 ...

### **Foundations for Dynamic and**

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**Sensitive Equipment**

ACI 351.3R 04 Foundations for Dynamic  
Equipment

**(PDF) ACI 351.3R 04 Foundations  
for Dynamic Equipment ...**

construction, repair, and upgrade of  
dynamic equipmenp t foundations. For  
the purposes of this document, dynamic



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equipment includes the following: 1. Rotating machinery; 2. Reciprocating machinery; and 3. Impact or impulsive machinery. 1.4—Notation [C] = damping matrix [K] = stiffness matrix [K\*] = impedance with respect to CG [k] = reduced stiffness matrix

## **351.3R-04 Foundations for Dynamic**

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### **Equipment**

dynamic equipment foundations by industry practitioners. 1.3—Scope This document is limited in scope to the engineering, construction, repair, and upgrade of concrete foundations for dynamic equipment. For the purposes of this document, dynamic equipment includes the following: a) Rotating

# Bookmark File PDF Foundations For Dynamic Equipment Inti machinery b) Reciprocating machinery

## **351.3R-18: Report on Foundations for Dynamic Equipment**

Foundations for Dynamic Equipment ACI  
351.3R-04 This report presents to  
industry practitioners the various design  
criteria and methods and procedures of  
analysis, design, and construction

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## **Foundations for Dynamic Equipment - ResearchGate**

High Strain Dynamic Testing. When a hammer or drop weight strikes the top of a foundation, a compressive stress wave travels down its shaft at a speed  $c$ , which is a function of the elastic

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modulus  $E$  and mass density. The impact induces a force  $F$  and a particle velocity  $v$  at the top of the foundation.

### **About Dynamic Foundation Testing | Pile Dynamics**

My company uses an old design guide to engineer foundations for dynamic equipment. The design guide assumes

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the foundation is rigid. To make the assumption that the foundation is rigid, the guide recommends providing a foundation thickness greater than or equal to 2'-0" plus the longest mat dimension divided by 30 ( $2+L/30$ ).

### **Rigid Foundations for Dynamic Equipment - Structural ...**

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I am designing a foundation for a 130,000 lb compressor with dynamic loads. The foot print of the equipment is over a 30X40 ft. area. It will have a separate mat foundation below it. I have done some research and it appears to me a dynamic load such as this requires a special analysis to calculate the deflections based on the dynamics.

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### **Dynamic Loaded Machine Foundation - Foundation engineering ...**

Dynamic foundation design – an integral element of a vibration mitigation strategy. Lower maintenance costs and improved safety –properly designed foundations reduce stresses on bearings.



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Reduced failure of auxiliary equipment including small-bore attachments. Examples of foundation design and dynamic analysis.

### **Foundation Design and Dynamic Analysis | Vibration ...**

The design of machine foundations is a trail-and-error procedure involving three

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interrelated steps. (Gazetas and Roesset, 1979): 1) Establishment of desired foundation performance (design criteria), 2) Determination of magnitude and characteristics of the dynamic loading,

## **DESIGN CHARTS FOR MACHINE FOUNDATIONS**

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Soil dynamics is the branch of soil mechanics which deals with the behavior of soil and foundations under dynamic loads. Operation of rotary machines or hammers, and earthquake ground motions constitute a class of dynamic loads that usually challenge engineers in their design of different kinds of foundations.

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### **Design of Foundations for Dynamic Loads (70172016)**

The design of a machine foundation is more complex than that of a foundation which supports only static loads. In machine foundations, the designer must consider, in addition to the static loads,

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**(PDF) DESIGN CHARTS FOR  
MACHINE FOUNDATIONS**

Machine foundations require a special consideration because they transmit dynamic loads to soil in addition to static loads due to weight of foundation, machine and accessories. The dynamic load due to operation of the machine is generally small compared to the static

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weight of machine and the supporting foundation.

### **FOUNDATIONS FOR VIBRATING MACHINES**

Foundations for electrical equipment, such as trans- formers, power circuit breakers, and other more massive energized equipment, are typically

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designed for (1) dead loads, (2) seismic loads, (3) erection loads (i.e., jacking), and (4) operating loads. These foundations are typically slabs on grade, or slabs on piles.

### **351.2R-94 Foundations for Static Equipment**

Designing these dynamic foundations

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requires a series of static and dynamic analyses to meet the vibration requirement of the equipment and any seismic requirements of the local building codes. This article researches and compares different modeling methods, and then proposes an efficient approach for their design in high seismic regions.



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### **Design of Foundations for Large Dynamic Equipment in a ...**

For dynamic foundation, epoxy grout should be used Anchor bolts should be as long as possible so that the anchoring forces are distributed lower in the foundation or ideally into concrete mat below the foundation pier

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### **Foundation Design for Vibrating Machines**

At Dynamic Screen Printing Supply, we work hard to make sure you get all of the screen printing supplies for your shop. Select anything and everything from manual screen printing presses, automatic screen printing presses,

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screen printing conveyor dryers, flash units, exposure units, plastisol ink, water based ink, ink removers, squeegees ...

### **Screen Printing Supplies, Equipment & Kits | Dynamic Supply**

351.3R-18: Report on Foundations for  
Dynamic Equipment Currency Display  
US Dollar \$ Canadian Dollar C\$ Mexican

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Peso \$ Australian Dollar \$ Baht ฿  
Brazilian Real R\$ Bulgarian Lev лв Czech  
Koruna Kč Danish Krone kr Euro € Forint  
Ft Hong Kong Dollar HK\$ Iceland Krona  
kr Indian Rupee Rs.

### **351.3R-18: Report on Foundations for Dynamic Equipment**

A comparison of amplitude criteria and

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several discussions of different practices and approaches can be found in ACI 351.3R, Foundations for Dynamic Equipment. With an update of the American Concrete Institute (ACI) report in progress, this paper provides updated comparative data between selected currently published and company specifications.

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