
Dynaload — Design and construction — Use and maintenance

Dynaload — Conception et construction — Utilisation et maintenance

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	1
5 Relationship with standards	3
6 Design	4
6.1 Preferred sizes	4
6.2 Test tool	4
6.2.1 Type 1: 1 piece — Solid formed tool piece and tool foot	4
6.2.2 Type 2: Two pieces — Tapered end tool piece with a mating tool foot	5
7 Cooling	6
7.1 Low pressure air cooling	6
7.2 Alternative cooling	7
8 Operational features	7
9 Maintenance	8
10 Construction	8
Annex A (informative) Type 1 Single piece square-end Dynaload	10
Annex B (informative) Type 2 Single piece taper-fit Dynaload	12
Annex C (informative) Design and constructional details	14
Annex D (informative) Recoil spring	29
Bibliography	31

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Foreword

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This document was prepared by Technical Committee ISO/TC 118 *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 3, *Pneumatic tools and machines*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The measurement of physical parameters such as noise and vibration from hand-held tools has been the subject of investigation for many years. The means by which these parameters can be obtained have resulted in a number of devices to provide for a "working load" for the tool being investigated.

The resulting data can provide the customer with relevant information using a well-defined method that is both repeatable and reproducible. The last two issues, repeatability and reproducibility, are vital where the data obtained is required to demonstrate compliance with legislative requirements.

The equipment used to provide a "load" against which the hand-held power tool can "work" should be easily constructed from common materials and provide for ease of maintenance. This publication is intended to provide the specifications and guidance for such a loading device.

The information provided is primarily intended to instruct and supplement guidance given in standards for the measurement of noise, vibration of percussive hand-held power tools.

At the time of publication of this guidance document, dynamic loading devices, such as the ones described herein, had been used for many years in conjunction with the testing of percussive power tools. In particular, the vibration test code, ISO 28927-10, specified the use of such loading devices for testing a range of power tools, including chipping hammers, rock drills and concrete breakers. However, since the published standard not specified the design of the loading device in detail, there were inevitably many small differences between the loading devices which were manufactured. The question then arose as to whether these differences affected the measured results of the tests, for which the loading devices were used.

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