ISO/TS 13399-70:2016-07 (E)

Cutting tool data representation and exchange - Part 70: Graphical data layout - Layer setting for tool layout

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Termsanddefinitions 1

3 Layer concept 4

4 Structure of the layers 5
4.1 General 5
4.2 Colouring of the layers 5
4.3 Grouping and definition of the layers 6
4.3.1 Grouping 6
4.3.2 Basic layer 6
4.3.3 Tool drawing (main view -- function number 3.0.1) 6
4.3.4 NC-Geometry (CUT, NOCUT -- function number 3.0.2) 8
4.3.5 Extended tool drawing (further views -- function number 3.0.3) 9
4.3.6 Multilingual (global drawing -- function number 3.0.4) 10
4.3.7 Tool reconditioning (supplier specific information -- function number 3.0.5) 12
4.3.8 Machine equipment layout (machining processes -- function number 3.0.6) 13
4.3.9 Drawing frame (multilingual and drawing space -- function number 3.0.7) 15
4.4 Determination of the layer properties 15
4.5 Rules of the layer concept 26

5 Data concept 27
5.1 Origin points and mating points 27
5.1.1 Rotationally symmetric cutting tool assembly 27
5.1.2 Non-rotationally symmetric cutting tool assembly 28
5.2 Rules for the Layer CUT and NOCUT 30
5.3 Rules for the concept of dimensioning 32
5.3.1 General 32
5.3.2 Cutting tool component 32
5.3.3 Cutting tool combination 33

Annex A (informative) Examples of the layer structure 34

Bibliography 49