ISO/TS 13399-403:2018 (E)

Cutting tool data representation and exchange — Part 403: Creation and exchange of 3D models — Modelling of driven tool units

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Abbreviated terms

5 Starting elements, coordinate systems, planes

5.1 General
5.2 Reference system (PCS)
5.3 Adjustment coordinate system at workpiece side
5.3.1 General
5.3.2 Designation of coordinate systems at workpiece side
5.3.3 Arrangement of coordinate system at workpiece side
5.3.4 Arrangement of coordinate system at workpiece side for coolant supply
5.4 Mounting coordinate system

6 Design of the model

6.1 General
6.2 Assembly parts relevant for collision
6.2.1 General
6.2.2 Coolant supply pipe

7 Driven tool unit of straight design (ISYC: 403-01)

7.1 General
7.2 Basic body
7.3 Assembled driven tool unit of straight design

8 Driven tool unit with straight offset design (ISYC: 403-02)

8.1 General
8.2 Basic body
8.3 Assembled driven tool unit of straight offset design

9 Driven tool unit with rotatable design about the y-axis (ISYC: 403-03)

9.1 General
9.2 Basic body
9.3 Assembled driven tool unit, rotatable about the y-axis

10 Driven tool unit with rotatable design about the z-axis (ISYC: 403-04)

10.1 General
10.2 Basic body
10.3 Assembled driven tool unit rotatable about the z-axis

11 Driven tool unit with 90° output design (ISYC: 403-05)

11.1 General
11.2 Basic body

12 Driven tool unit of a 90° reverse position output design (ISYC: 403-06)

12.1 General
12.2 Basic body

13 Driven tool unit of a 90° output design allowing rotation about z-axis (ISYC: 403-07)

13.1 General
13.2 Basic body

14 Driven tool unit of fixed angular output design (ISYC: 403-08)

14.1 General
14.2 Basic body

15 Driven tool unit of fixed angular and negative offset output design (ISYC: 403#09)

15.1 General
15.2 Basic body

16 Driven tool unit of straight design with multiple outputs (ISYC: 403-10)

16.1 General
16.2 Basic body

17 Driven tool unit of straight offset design with multiple outputs (ISYC: 403-11)

17.1 General
17.2 Basic body

18 Driven tool unit of 90° design with multiple outputs (ISYC: 403-12)

18.1 General
18.2 Basic body

19 Driven tool unit of 90° dual output design (ISYC: 403-13)

19.1 General
19.2 Basic body

20 Driven tool unit of transverse shaft output design (ISYC: 403-14)

20.1 General
20.2 Basic body

21 Driven tool unit of longitudinal shaft output design (ISYC: 403-15)

21.1 General
21.2 Basic body

22 Driven tool unit of straight and 90° output design (ISYC: 403-16)

22.1 General
22.2 Basic body

23 Design of details

23.1 Basics for modelling
23.2 Contact/clamping surfaces – orientation
23.3 Chamfers and roundings

24 Data exchange model

Annex A (informative) Nominal dimensions

Page count: 34