

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