

# ISO 22402-1:2021-11 (E)

## Medium-transfer units for tool interfaces - Part 1: Transfer units for hollow taper shanks in accordance with the ISO 12164 series

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Transfer units for wet machining, types and dimensions .....</b>	<b>1</b>
4.1	Transfer unit for automatic tool change, type A .....	1
4.2	Material and heat treatment .....	3
4.2.1	General .....	3
4.2.2	Hardness .....	3
4.3	Designation .....	3
<b>5</b>	<b>Transfer units for machining with minimum quantity lubrication (MQL), types and dimensions .....</b>	<b>3</b>
5.1	General .....	3
5.2	Transfer unit for automatic tool change .....	4
5.2.1	Transfer unit for automatic tool change, type B and C .....	4
5.2.2	Transfer unit for automatic tool change, Type D, E and F .....	6
5.2.3	Transfer unit, type D .....	6
5.2.4	Transfer unit, type E .....	7
5.2.5	Transfer unit, type F .....	8
5.2.6	Dimensions .....	9
5.3	Transfer units for machining with MQL and manual tool change .....	10
5.3.1	General .....	10
5.3.2	Transfer unit, type G and type H .....	10
5.3.3	Transfer unit with sealing element, type I .....	11
5.3.4	Transfer unit (steel version), type J .....	12
5.3.5	Dimensions .....	13
5.4	Material and heat treatment .....	14
5.4.1	Hardness .....	14
5.4.2	Sealing element .....	14
5.5	Designation .....	14
<b>Annex A (informative) .....</b>		<b>15</b>
<b>Bibliography .....</b>		<b>16</b>