

# ISO 14649-121:2005-09 (E)

## Industrial automation systems and integration - Physical device control - Data model for computerized numerical controllers - Part 121: Tools for turning machines

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>2</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Tools for turning machines .....</b>	<b>3</b>
4.1	Header and references .....	3
4.2	Turning machine cutting tool .....	5
4.2.1	Cutting edge properties .....	6
4.2.2	Hand of tool type .....	9
4.3	Catalogue of turning tool .....	9
4.3.1	General turning tool .....	9
4.3.2	Turning threading tool .....	10
4.3.3	Grooving tool .....	11
4.3.4	Knurling tool .....	12
4.3.5	User defined turning tool .....	13
	<b>Annex A: (normative) EXPRESS expanded listing .....</b>	<b>14</b>
	<b>Annex B: (informative) EXPRESS-G diagram .....</b>	<b>17</b>
	<b>Index .....</b>	<b>21</b>