

Symbol	Typ	Titel
<b>B</b>	<b>Sektion</b>	<b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>
<b>B25</b>	<b>Klasse</b>	<b>HAND TOOLS; PORTABLE POWER-DRIVEN TOOLS; HANDLES FOR HAND IMPLEMENTS; WORKSHOP EQUIPMENT; MANIPULATORS</b>
<b>B25J</b>	<b>Unterklasse</b>	<b>MANIPULATORS; CHAMBERS PROVIDED WITH MANIPULATION DEVICES (robotic devices for individually picking fruits, vegetables, hops or the like A01D 46/30; needle manipulators for surgery A61B 17/062; manipulators associated with rolling mills B21B 39/20; manipulators associated with forging machines B21J 13/10; means for holding wheels or parts thereof B60B 30/00; cranes B66C; arrangements for handling fuel or other materials which are used within nuclear reactors G21C 19/00; structural combination of manipulators with cells or rooms shielded against radiation G21F 7/06) [5]</b>
<b>B25J 1/00</b>	<b>Hauptgruppe</b>	<b>Manipulators positioned in space by hand (of master-slave type B25J 3/00; micromanipulators B25J 7/00)</b>
B25J 1/02	1-Punkt Untergruppe	. articulated or flexible
B25J 1/04	1-Punkt Untergruppe	. rigid, e.g. shelf-reachers
B25J 1/06	1-Punkt Untergruppe	. of the lazy-tongs type
B25J 1/08	1-Punkt Untergruppe	. movably mounted in a wall
B25J 1/10	2-Punkt Untergruppe	.. Sleeve and pivot mountings therefor
B25J 1/12	1-Punkt Untergruppe	. having means for attachment to a support stand
<b>B25J 3/00</b>	<b>Hauptgruppe</b>	<b>Manipulators of master-slave type, i.e. both controlling unit and controlled unit perform corresponding spatial movements</b>
B25J 3/02	1-Punkt Untergruppe	. involving a parallelogram coupling of the master and slave units (pantographic instruments B43L 13/00)
B25J 3/04	1-Punkt Untergruppe	. involving servo mechanisms (servo-actuated heads B25J 15/02)
<b>B25J 5/00</b>	<b>Hauptgruppe</b>	<b>Manipulators mounted on wheels or on carriages (B25J 1/00 takes precedence; programme-controlled manipulators B25J 9/00)</b>
B25J 5/02	1-Punkt Untergruppe	. travelling along a guideway
B25J 5/04	2-Punkt Untergruppe	.. wherein the guideway is also moved, e.g. travelling crane bridge type
B25J 5/06	1-Punkt Untergruppe	. Manipulators combined with a control cab for the operator
<b>B25J 7/00</b>	<b>Hauptgruppe</b>	<b>Micromanipulators</b>
<b>B25J 9/00</b>	<b>Hauptgruppe</b>	<b>Programme-controlled manipulators</b>
B25J 9/02	1-Punkt Untergruppe	. characterised by movement of the arms, e.g. cartesian co-ordinate type (B25J 9/06 takes precedence) [4]
B25J 9/04	2-Punkt Untergruppe	.. by rotating at least one arm, excluding the head movement itself, e.g. cylindrical co-ordinate type or polar co-ordinate type [4]
B25J 9/06	1-Punkt Untergruppe	. characterised by multi-articulated arms [4]
B25J 9/08	1-Punkt Untergruppe	. characterised by modular constructions [4]
B25J 9/10	1-Punkt Untergruppe	. characterised by positioning means for manipulator elements [4]
B25J 9/12	2-Punkt Untergruppe	.. electric [4]
B25J 9/14	2-Punkt Untergruppe	.. fluid [4]
B25J 9/16	1-Punkt Untergruppe	. Programme controls (total factory control, i.e. centrally controlling a plurality of machines, G05B 19/418) [4]

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B25J 9/18	2-Punkt Untergruppe	... electric [4]
B25J 9/20	2-Punkt Untergruppe	... fluidic [4]
B25J 9/22	2-Punkt Untergruppe	... Recording or playback systems (in general G05B 19/42) [4]
<b>B25J 11/00</b>	<b>Hauptgruppe</b>	<b>Manipulators not otherwise provided for</b>
<b>B25J 13/00</b>	<b>Hauptgruppe</b>	<b>Controls for manipulators (programme controls B25J 9/16) [4]</b>
B25J 13/02	1-Punkt Untergruppe	. Hand grip control means
B25J 13/04	1-Punkt Untergruppe	. Foot-operated control means
B25J 13/06	1-Punkt Untergruppe	. Control stands, e.g. consoles, switchboards
B25J 13/08	1-Punkt Untergruppe	. by means of sensing devices, e.g. viewing or touching devices [4]
<b>B25J 15/00</b>	<b>Hauptgruppe</b>	<b>Gripping heads</b>
B25J 15/02	1-Punkt Untergruppe	. servo-actuated
B25J 15/04	1-Punkt Untergruppe	. with provision for the remote detachment or exchange of the head or parts thereof
B25J 15/06	1-Punkt Untergruppe	. with vacuum or magnetic holding means
B25J 15/08	1-Punkt Untergruppe	. having finger members (B25J 15/02, B25J 15/04 take precedence) [4]
B25J 15/10	2-Punkt Untergruppe	... with three or more finger members [4]
B25J 15/12	2-Punkt Untergruppe	... with flexible finger members [4]
<b>B25J 17/00</b>	<b>Hauptgruppe</b>	<b>Joints</b>
B25J 17/02	1-Punkt Untergruppe	. Wrist joints
<b>B25J 18/00</b>	<b>Hauptgruppe</b>	<b>Arms [4]</b>
B25J 18/02	1-Punkt Untergruppe	. extensible [4]
B25J 18/04	2-Punkt Untergruppe	... rotatable [4]
B25J 18/06	1-Punkt Untergruppe	. flexible [4]
<b>B25J 19/00</b>	<b>Hauptgruppe</b>	<b>Accessories fitted to manipulators, e.g. for monitoring, for viewing; Safety devices combined with or specially adapted for use in connection with manipulators (safety devices in general F16P; protection against radiation in general G21F)</b>
B25J 19/02	1-Punkt Untergruppe	. Sensing devices [4]
B25J 19/04	2-Punkt Untergruppe	... Viewing devices [4]
B25J 19/06	1-Punkt Untergruppe	. Safety devices [4]
<b>B25J 21/00</b>	<b>Hauptgruppe</b>	<b>Chambers provided with manipulation devices (constructional features of the mounting of the manipulator in the wall B25J 1/08)</b>
B25J 21/02	1-Punkt Untergruppe	. Glove-boxes, i.e. chambers in which manipulations are performed by the human hands in gloves built into the chamber walls; Gloves therefor