

Symbol	Typ	Titel
B	Sektion	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
B25	Klasse	HAND TOOLS; PORTABLE POWER-DRIVEN TOOLS; HANDLES FOR HAND IMPLEMENTS; WORKSHOP EQUIPMENT; MANIPULATORS
B25J	Unterklasse	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]
B25J 1/00	Hauptgruppe	Manipulators positioned in space by hand (of master-slave type B25J 3/00; micromanipulators B25J 7/00)
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
B25J 3/00	Hauptgruppe	Manipulators of master-slave type, i.e. both controlling unit and controlled unit perform corresponding spatial movements
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)
B25J 5/00	Hauptgruppe	Manipulators mounted on wheels or on carriages (B25J 1/00 takes precedence; programme-controlled manipulators B25J 9/00)
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
B25J 7/00	Hauptgruppe	Micromanipulators
B25J 9/00	Hauptgruppe	Programme-controlled manipulators
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]
B25J 11/00	Hauptgruppe	Manipulators not otherwise provided for
B25J 13/00	Hauptgruppe	Controls for manipulators (programme controls B25J 9/16) [4]
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]
B25J 15/00	Hauptgruppe	Gripping heads
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]
B25J 17/00	Hauptgruppe	Joints
B25J 17/02	1-Punkt Untergruppe	. Wrist joints
B25J 18/00	Hauptgruppe	Arms [4]
B25J 18/02	1-Punkt Untergruppe	. extensible [4]
B25J 18/04	2-Punkt Untergruppe	. . rotatable [4]
B25J 18/06	1-Punkt Untergruppe	. flexible [4]
B25J 19/00	Hauptgruppe	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)
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]
B25J 21/00	Hauptgruppe	Chambers provided with manipulation devices (constructional features of the mounting of the manipulator in the wall B25J 1/08)
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