

		Applicable part		Functional classification		Application example	
Parts can move relative to each other	Clearance fit	H6	H9	Part which accommodates a particularly wide gap, or a moving part which requires a gap Part which accommodates a wide gap to facilitate assembly Part which requires an appropriate gap even at high temperatures	Part which for functional reasons requires a large gap (Expands. Large positional error.) Long fitting length Cost needs to be reduced.) Manufacturing cost) Maintenance cost	Piston ring and piston ring groove Fitting by means of a loose set pin	Application example
		H7	H8	Part which accommodates a fairly wide gap, or a moving part which requires a gap Fairly wide gap and well lubricated bearing Bearing subjected to high temperature, high speed, and high load (high-degree forced lubrication)			
Parts cannot move relative to each other.	Transition fit	H6	H7	Part which provides an appropriate clearance and permits movement (high-quality fitting). Regular normal-temperature bearing lubricated with grease or oil	Regular rotating or sliding part (Must be well lubricated.) Regular fitting part (is often disassembled)	Crank web and pin bearing (side) Exhaust valve box and spring bearing sliding part Piston ring and piston ring groove	Application example
		H5	H6	Continuously rotating part of a precision machine under light load Fitting with a narrow gap and which permits movement (spigot, positioning) High-precision sliding part			
Parts cannot move relative to each other.	Interference fit	H5	H7	Fitting which allows movement by hand when a lubricant is used (high-quality positioning) Special high-precision sliding part Unimportant stationary part	Part requiring precision motion with almost no gap	Link device pin and lever Key and key groove Precision control valve rod Guide liter-pin (j6)	Application example
		H5	H8	Installation part which is compatible with a very small tightening interference High-precision positioning which locks both parts in place while unit is in use Fitting which can be assembled/disassembled using a wooden or lead hammer			
Parts cannot move relative to each other.	Interference fit	H5	H6	Fitting which requires an iron hammer or hand press for assembly/disassembly (A key or other device is required in order to prevent inter-part shaft rotation.) Precision positioning	Fitting force alone is insufficient for transmitting force Difficult to disassemble without damaging the part.	Governor path and pin Fitting of gear rim and boss	Application example
		H5	H6	Assembly/disassembly are the same as the above. Precision positioning which permits no gap at all			
Parts cannot move relative to each other.	Interference fit	H5	H6	Fitting which requires considerable force for assembly/disassembly Precision stationary fitting (A key or other device is required for high-torque transmission purposes.)	Fitting force along is sufficient for transmitting small force	Reamer bolt Dowel pin MSTM (m6) Fitting of hydraulic device pistons and shafts Fitting of coupling flange and shaft	Application example
		H5	H6	Fitting which requires large force for assembly/disassembly (A key or other device is required for high-torque transmission purposes.) However, only light press-fitting force is required for press-fitting when both parts are non-ferrous parts. Fabricated using the standard press-fitting for fastening a ferrous part to a ferrous, bronze, or copper part			
Parts cannot move relative to each other.	Interference fit	H5	H6	Assembly/disassembly are the same as the above. Shrinkage press fitting, cold press fitting or forced press fitting is required for large parts	Difficult to disassemble without damaging the part.	Reamer bolt Dowel pin MSTM (m6) Fitting of hydraulic device pistons and shafts Fitting of coupling flange and shaft	Application example
		H5	H6	Permanent assembly in which parts are both tightly fastened together and will not be disassembled, and which requires shrinkage press fitting, cold press fitting, or forced press fitting. For light alloys, only ordinary press fitting is required.			
Parts cannot move relative to each other.	Interference fit	H5	H6	Assembly/disassembly are the same as the above. Shrinkage press fitting, cold press fitting or forced press fitting is required for large parts	Difficult to disassemble without damaging the part.	Reamer bolt Dowel pin MSTM (m6) Fitting of hydraulic device pistons and shafts Fitting of coupling flange and shaft	Application example
		H5	H6	Permanent assembly in which parts are both tightly fastened together and will not be disassembled, and which requires shrinkage press fitting, cold press fitting, or forced press fitting. For light alloys, only ordinary press fitting is required.			

☞ The items printed in red in the Application example are press die parts presented in this catalog.