Kererence noie					Տ	Shaft tolerance	olera		range class	ass						11.1						HOIE	TOTELAL	פפומות	Hole tolerance range class					
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Note: *Exceptions for these fittings may arise depending on the dimensional sectioning scheme. 1.2 Correlation of tolerance ranges in fitting with the regularly used hole adopted as reference	for these	ittings may	y arise	depen n fitti	ing v	on the	dime.	regular	l sectionii	ng schem	e. Idopted	as refe	rence	5		Note: *Exceptions for these fittings may arise depending on the dimensional sectioning scheme. 2.2 Correlation of tolerance ranges in fitting with the regularly used shaft adopted as reference	or these	e fitting	s may	arise de Jes in	ppending fitting	g on th	the re	sional sect gularly t	oning sch	eme.	d as 1	efere	ince	
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Fitting	Clearance fit	Transition fit	7.3 - 50 10	tit esolට ලූ	learan	Clearance fit Sliding fit	Transition fit Striking		Dress of the second bornon of the second beautiful to	11:5 1102 0000 1	Clearance fit	+	Clearance fit	Clearance fit	Fitting	Clearance fit Transition fit	tit əsolƏ	fiparance fit	Clearance fit		Transition fit		Close fit		Clearance fit	Clearance fit			Clearance fit	
Shaft tolerance range class	f6 g5 g6 h5 h6	js5 js6 k5 k6 m5 m6	m5 m6 n6	n6 p6 e7 f6 f7 g6 h6 h7	16 f7 gt	6 h6 h7	<u>'&</u>	js7 k6 m6 n6 p	p6 r6 s6 t6	9x 9n	d9 e8 e9 f7 f8 h7	18 h7 h8 c9 d8 d9 g8 e9 h8 h9	19 g8 e9 t	18 h9 b9 c9 d9	d9 Hatetderans ranged as	M6 JS6 K5	M6 N6 P6	F6 F7 G6 G7 H6 H7	G7H6H7	7 JSGUST KG	JS6JS7 K6 K7M6M7N6N7		P6 P7 R7 S7 T7 U7 X7	77 U7 X7 E7	E7 F7 F8 H7 H8 D	D8D9E8E9F8	F8 H8 H9 B10 C9 C10 D8 D9 D10 E8 E9 H8 H9	C9 C10 D8	D9010E	8 E9 H8
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Application example	Piston ring and piston ring groove Fitting by means of a loose set pin	Crank web and pin bearing (side) Exhaust valve box and spring bearing sliding part Piston ring and piston ring groove	Fitting of exhaust valve seat Main bearing for crankshaft Regular sliding part stripper bolt MSB (e9)	Part where a cooled exhaust valve box is inserted Regular shaft and bushing Link device lever and bushing	Link device pin and lever Key and key groove Precision control valve rod Guide lifter pin (g6)	Fitting of rim and boss Fitting of gears in a precision gear device Dowel pin MSTH (h7)	Fitting two coupling flanges Governor path and pin Fitting of gear rim and boss	Fitting of gear pump shaft and casing Reamer bolt	Reamer bolt Dowel pin MSTM (m6) Fastening of hydraulic device pistons and shafts Fitting of coupling flange and shaft	Fitting of flexible shaft coupling and gear (passive side) Precision fitting Punch SPAS, etc. (m5) Insertion of suction valve and valve guide Die MHD, etc. (m5)	insertion of suction valve and valve guide Straight die MSD, etc. (n5) Fixing a gear and shaft together (small torque) Dowel pin MST (p6) Flexible coupling shaft and gear (drive side)	Coupling and shaft	Fitting and fixing a bearing bushing	Insertion of suction valve and valve seat	Fixing a coupling flange and shaft together (large torque)	Fixing a drive gear rim and boss together	Fitting and fixing a bearing bushing
Functional classification	ons requires a large gap sitional error.					FITT FITT FITT FITT FITT FITT FITT FITT	Fitting force alone is insufficient for	transmitting force	Reg Fas Fitt	along is	sufficient for Insert transmitting small Fixin force	loo		<u>∞</u>	transmitting Fixir		##
Functional	Part which for functional reas Expands. Large po Long fitting length	Cost needs to be reduced Manufacturing cost Maintenance cost	Regular rotating or sliding part (Must be well lubricated.)	Regular fitting part (is often disassembled)	Part requiring precision motion with almost no gap			Difficult to disassemble without damaging the part.				Difficult to	disassemble without damaging	the part.			
Applicable part	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 accommodates a wide gap, or which requires a wide gap	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)	Fitting which provides an appropriate clearance and permits movement (high-quality fitting). Regular normal-temperature bearing lubricated with grease or oil	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	Fitting which allows movement by hand when a lubricant is used (high-quality positioning) Special high-precision sliding part Unimportant stationary part	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	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	Assembly/disassembly are the same as the above. Precision positioning which permits no gap at all	Fitting which requires considerable force for assembly/disassembly Precision stationary fitting (A key or other device is required for high-torque transmission purposes.)	Fitting which requires large force for assembly diseasembly (Akey or other device) is equired to high-horque transmission purposes.) However, only light press-fitting force is required for press-fitting when both parts are non-ferrous parts. Fastened using the standard press-fitting for fastening a ferrous part to a ferrous, bronze, or copper part	Assembly/disassembly are the same as the above. Shrinkage press fitting, cold press fitting or forced press fitting is required for large parts		ent 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.	or The items
Н9	60	6p	69			64											
Н8		6p	e8	f7 f8		h7 h8											
Н7			e7	47	96	94	9sí	k6	9ш	911	9d	J.	9s	16	9	2	9x
9Н				£	95	h5	h5 h6	js5	χ ₅	m5	n5 n6	p5	τ̄Σ				
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	191		ve relative		ьq		+!!			evitsler evo	om tonnso :	Parts cannot Interference fit					

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