	0.2(0.25)		0.33(0.2)	0.37(0.3)	0.45(0.4)	0.5(0.45)		0.52(0.45	0.55(0.52	0.6(0.55)	0.65(0.55)	0.7(0.6)	0.75(0.65)	0.8(0.7)		0.9(0.8)	1.0(0.9)		1.1(1.0)	1.2(1.0)	1.26(1.1)	1.3(1.1)	1.4(1.2)		1.5(1.3)	1.8(1.6)	1.9(1.6)	2(1.7)	2.1(1.8)	2.7(2.2)	2.9(2.5)	3.0(2.6)	3.5(3.0)
IHI	75U1-5				125U1-5	120J-3						225JX-7		215JX		200JLC-5	220J-2		220JLC-3				310J-3										
	70J-2				110J-2	135UJ-5								200J-3					240J-5														
	75UJ-2				135UJ-2	120J-2								225JX-5																			
	75UJ-M				135UJ-3	120J-M								200J-2																			
	75UJ-7				110J-H	120J-5								200J-M																			
					120U2-7	135UJ-7								200J-5																			
CAT	307B			311CU	311B	312C		312B			315B			320B	320D RR	320BL	322B	325BL	322BL	325BL			330B		330BL		345C	345C L	345DL		365C L	374DL	385C
	307BSR				313BSR	314CCR		314ELCR			315C			321BLCR	320D-MS	320B LU	322C		325B	325CL			330C		330CL		345D		349EL				390D
	308BCR				313BCR	312-E					315DL			321BCR-TUN	320D RR-MS	320CL	324D		322CL	325DL			330D		330D L		349E						
	307C				313CCR	312-E2					315DLMS			320B U	H318C	320CLU	324E		325C	329DL			336D		336E L-2								
	308CCR				311C U	312C-3					316EL			321BCR	M325D LMH	320L-E			324DL	329D LCR			336D L		336E LH								
	307-EA				313C SR	312C-3-SSS								320C	320D-E	320L-E2			325D	329EL			336E										
	307D				311-E	314C CR-3								320DU	320D RR-E	320D L			329D				336BL										
	308DCR				311-E2	312C-3-MS								318C LN	320D LN	320D L RR			324EL				336E 2										
	308DSR				313C CR-3-SSS	312D								320-E	320D CR	320DL-MS			329E														
	308DCR-2				311WR	312D-MS								320-E2	321DCR	320DL RR-MS																	
	308DSR-2				313DCR	314DCR								321B SR	321DLCR	320D L-E																	
	308ECR				313DCR-MS	312E								321C LCR	320DLN-MS	320D LRR-E																	
	308ESR				313C CR-3	311F								321C CR	320DERP	320BL																	
	308E2CR				313DCR-SSS	312F								M322C MH	320E	320E L-2																	
	308E2SR				314ECR									M325C LMH	320E 2																		
					314ESR									320D																			
神钢	SK60SR	SK70SR-2F			SK115SR	SK135SR	SK125W-3						SK200SR	SK210DD-3	SK235SR-1E	SK225SR		SK230-6	SK230LC-6ES				SK330-6	SK330-8		SK450-6	SK500DLC-8		SK1000DLC-9				
	SK75UR-3	SK75SR-3			SK130UR	SK120-3	SK135SR-2						SK200SR-1S	SK200-3	SK235SR-1ES	SK235SRD-2		SK230-6	SK250LCD-6ES				SK330-6	SK35LC-8		SK450LC-8	SK460-8						
	SK60-3	SK75SRD-3			SK100-3	SK120LC-3	SK135SRLC-2							SK200LC-3	SK235SRL-1E	SK235SRDLC-2		SK230LC-6	SK250-8				SK330LC-8	SK350LC-8		SK430-3	SK480D-8						
	SK75UR-2	SK80SR+-3			SK100W-2	SK135SR-1E	SK135SRD-2							SK235SR	SK235SRLC-1ES	HK350W-3		SK230LC-6	SK260D-8				SK330LC-6	SK350D-8		SK430LC-3	SK480LC-8						
	SK80CS	SK80UR-6			SK115SRT	SK135SRLC-1E	SK135SRDLC-2							SK200-6	SK235SRT-1E	SK235SRD-2T		SK230-6E	SK260LC-8				SK330-6E	SK400LC-8		SK450-6S	SK500D-9						
	SK60SR-1E	SK75SR-3F			SK115SR-1E	SK120-2BS	SK135SRD-2T							SK200LC-6	SK235SRT-1ES	SK200H-9		SK230LC-6E	SK250-9				SK330LC-6E	SK330-9		SK480D-6S	SK550DLC-9						
	SK75UR-3E	SK75SR-3E			SK100-2BS	SK120LC-2BS	SK130-8							SK235SRT	SK210D-6ES	SK200-9		SK230-3	SK260D-9				SK310-3	SK350D-9		SK450LC-6S	SK500LC-9						
	SK60-2BS	SK75SRD-3E			SK100-2A	SK120-2A	SK130UR-2							SK200-2BS	SK210LCD-6ES	SK210D-9		SK230LC-3	SK260LC-9				SK310LC-3	SK350LC-9		SK480LCD-6S	SK500DLC-9						
	SK60-2A	SK80UR-6E			SK130UR-1E	SK120LC-2A	SK135SR-2F							SK200LC-2BS	SK235SRD-1ES	SK210HLC-9		SK220-2A	SK260DLC-9				SK310-2A	SK350DLC-9									
	SK70SR-1ES				SK115SRT-1E	SK135SRT-1E	SK165SR-2F							SK200-2A	SK200C-6E	SK225SRLC-3		SK220LC-2A					SK310LC-2A										
	SK75UR-3ES				SK100W-1A	SK135SRLC	SK135SRLC-3							SK200LC-2A	SK235SRLCD-1ES	SK225SRLC-3		SK230-6ES					SK350D-6E										
	SK70SRP1-1ES				SK115SR-1ES	SK135SR-1ES	SK135SR-3							SK200-6E	SK200-8	SK210LC-9		SK250D-6ES					SK350LCD-6E										
	SK70SR-2				SK130UR-1ES	SK135SRD-1ES	SK135SRDLC-3							SK200-6ES	SK210LC-8	SK225SR-3																	
	SK75UR-5				SK115SRP1-1ES	SK135SRD-1ES								SK200LC-6E	SK210D-8	SK235SR-3																	
	SK70SRD-2				SK125SR	SK135SRLCD-1ES								SK200LC-6ES	SK210LC-8	SK235SRDLC-3																	
	SK75+				SK130SR+	SK135SRP1-1ES									SK210D-8P	SK200H-9A																	
	SK80H-2				SK130UR-3	SK135SRT-1ES									SK235SR-2																		
					SK125SR-3	SK135SRP2-1ES									SK145LCD-1ES																		
小松	PC75UU-3	PC78UUT-6			PC128US-1	PC120-6E	PC138US-8		PC158US-2		PC160LC-7			PC228USLJ-1	PC210-6E	PC210-8N1		PC230-6E	PC220-8N1			PC270-7	PC300-7				PC400-7						
	PC75US-3	PC60-7NO			PC128UU-1E	PC120-6ZE	PC120-8				PC160LC-7EO			PC228US-1	PC210LC-6E	PC210LC-8N1		PC220LC-6E	PC220LC-8N1				PC300LC-7				PC400LC-7						
	PC60-7E	PC78UU-6EO			PC100-6E	PC130-6E	PC130-8				PC160LC-8			PC228USLC-1	PC228US-3T	PC228US-3T1		PC230-6E	PC230-8N1				PC350-7				PC450-7						
	PC75UU-3C	PC78US-6NO			PC100-6ZE	PC138US-2	PC138US-2T1				PC170LC-10			PC200-6E	PC228USLC-3T	PC228USLC-3T1		PC230LC-6E	PC230LC-8N1				PC350LC-7				PC450LC-7						
	PC78US-5	PC78US-8			PC100L-6E	PC128US-2T	PC138US-8T							PC200-6ZE	PC228US-3NO	PC200-8EO		PC220-7	PC220-10				PC300-6NO				PC400LC-7EO						
	PC60-7C	PC78UU-8			PC128UU-1S	PC138US-2EO	PC138US-8NM							PC200LC-6E	PC228USLC-3NO	PC228US-8		PC220LC-7	PC220LC-10				PC300LC-6NO				PC450-7EO						
	PC70-7C	PC78US-8NM			PC128US-2	PC130-6EO	PC138US-10							PC210-6E	PC200-6SE	PC228USLC-8E		PC230-7	PC230-10				PC350-6NO				PC450LC-7EO						
	PC75UUT-3	PC60-8			PC128US-2EO	PC130-6EO	PC138US-10							PC210-6DE	PC200LC-6SE	PC200LC-8EO		PC230LC-7	PC230LC-10				PC300LC-7EO				PC400-7EO						
	PC75UUT-3C	PC78US-10			PC128UU-2EO	PC138US-2E1	PC138US-10NM							PC210LC-6E	PW200-7	HB205-1		PC220-8	PC220-11				PC350-7EO				PC400-8						
	PC78UU-6	PC78UU-10			PC128US-2E1	PC128US-2T1								PC228US-2	PC200-7N1	HB215LC-1		PC220LC-8	PC220LC-11				PC350LC-7EO				PC400LC-8						
	PC70-7E				PC128US-8									PC228USLC-2	PC210-7N1	PC200-10		PC230-8	PC230-11				PC300-7EO				PC450-8						
					PC128UU-8									PC228US-1T	PC200LC-7N1	PC200LC-10		PC230LC-8	PC230LC-11				PC300-8				PC450LC-8						
					PC128US-10									PC228USLC-3	PC210LC-7N1	PC210-10		PC220-8NO					PC300LC-8				PC400-10						
														PC228USLC-3	PC200-8	PC210LC-10		PC220LC-8NO					PC350-8				PC400LC-10						
														PC200LC-7	PC200LC-8	HB205-2							PC350LC-8				PC450-10						
														PC200-7	PC210-8	PC228US-10							PC300-10				PC450LC-10						
														PC210-7	PC210LC-8	PC228USLC-10							PC300LC-10				PC400-11						
														PC210LC-7	PC228US-3EO	HB215-2							PC350-10				PC400LC-11						
														PC200-6E	PC228USLC-3EO	HB215LC-2							PC350LC-10				PC450-11						
														PC200LC-6E	PC200-8N1	PC200E-10											PC450LC-11						
															PC200LC-8N1	PC200ILC-10																	
SUMITOMO	SH60-2				SH100-2	SH120-2	SH120-1B							SH215U-2	SH215UTN-2		SH200LC-3	SH220-2		SH220LC-2			SH300-2B	SH330-3B	SH330LC-2B	SH400-3							
	SH60X-2				SH100LL-2	SH120CT-2	SH120TN-2							SH200-2	SH225XTN-3		SH200LC-5	SH220-3		SH220LC-3			SH350HD-2B	SH330LC-5		SH450HD-3							
	SH70U-2				SH100CT-2	SH120LV-2	SH120-5							SH200LC-2	SH200-1B		SH210LCD-5			SH240-3			SH300-3	SH330-5		SH450HD-3B							
	SH75X-2				SH135U-2	SH120-3	SH135X-3B							SH200HD-2	SH200-5		SH200LC-6			SH240-5			SH330-3	SH350HD-5		SH460HD-5							
	SH75X-3				SH135X-2	SH120SS-3	SH120-6							SH200CT-2	SH225X-3B		SH235XLC-6			SH250-6			SH350HD-3	SH350HD-6		SH480LHD-5							
	SH60X-2				SH125X-3	SH135X-3	SH135X-6							SH215X-2	SH210D-5		SH200HB-6						SH330LC-3	SH330-6		SH600LHD-5							
	SH75-1B				SH145U-1B	SH135XTN-3								SH200-3	SH200-6								SH300TN-2B	SH330LC-6		SH470HD-6							
	SH75X-3B				SH100-1B									SH200HD-3	SH235X-6								SH330LC-3B			SH480LHD-6							
	SH75X-6				SH125X-3B									SH225X-3									SH350HD-3B			SH600LHD-6							
					SH125X-6									SH200TN-2																			
HITACHI	EX75UR-3		ZX70LC		EX100-5	EX120-5	ZX135US TN			EX150LC-5		EX195D		EX200-5	ZX200-E	ZX225USR-3		EX220-5		EX270-5			EX350K-5	ZX300	EX370HD-5	EX450H-5A	ZX450		ZX450LC		ZX650LC-3		
	EX75USR		ZX80LCK		EX100-5E	EX120-5HG	ZX135US TN-Z			ZX160LC		ZX185USR		EX200LC-5	ZX200LC-E	ZX225USRLC-3		EX220LC-5		EX270LC-5			EX350LCK-5	ZX330-3	ZX370MTH	EX450H-5B	ZX450H		ZX480MT		ZX670LCH-3		
	EX75URLC-3		EX60LC-5A		EX100H-5	EX120-5E	ZX120 TN			ZX160W		ZX180LC-3		EX200-5HG	ZX210H	ZX225US-3		EX230H-5		EX280H-5			EX300-5	ZX330LC-3	ZX380HH	EX400-5B	ZX450LCH		ZX450LC-3		ZX670LCR-3		
	EX80U		EX60LCTN-5A		EX135UR	EX120-5Z	ZX145D			ZX160LC-3		ZX180LCN-3		EX200LC-5HG	ZX210LCH	ZX225USLC-3		EX230LCH-5		EX280LCH-5			EX300LC-5	ZX350H-3	ZX400K-3	ZX400LCH-3	ZX480MTH		ZX500LC-3				
	EX75UR-5				EX100WD-3C	EX120-5X	ZX135USL			ZX170W-3				EX200-5E	ZX225US	ZX225USRK-3		EX230K-5		ZX270			EX350H-5	ZX350LCH-3	ZX480LCK-5B		ZX450-3		ZX480LCK-3				
	EX75US-5				EX100TN-5	EX120TN-5	ZX120-3			ZX160LC-5B				EX200LC-5E	ZX225USR	ZX225USRLCK-3		EX230LCK-5		ZX270LC			EX350LCH-5	ZX350K-3	ZX400R-5B		ZX470H-3		ZX470LC-5B				
	ZX75US				EX125WD-5	EX120TN-5E	ZX130K-3							EX200-5Z	ZX225USLC	ZX225USLCTN-3		ZX210		ZX270-3			EX345USR	ZX350LCK-3			ZX470LCH-3						
	ZX70				EX135UR-5	EX120TN-5Z	ZX135US-3							EX200LC-5Z	ZX225USRLC	ZX210W-3		ZX230LC		ZX270LC-3			EX345USRLC	ZX330LC-5B			ZX520LCH-3						
	ZX75UR				EX135US-5	EX120SS-5	ZX135USK-3							EX200SS-5	ZX225USRLCK	ZX225USTN-3		ZX240H		ZX280LC-5B			EX385USR	ZX330-5B			ZX470H-3						
	ZX75US-A				ZX110	EX120-5LV	ZX145W-3							EX200LCSS-5	ZX225USRK	ZX200-A		ZX240LCH		ZX280-5B			ZX330	ZX350H-5B			ZX470LCR-3						
	EX60-3A				ZX110-E	EX130H-5	ZX135USTN-3							EX200-5LV	ZX200TN-Z	ZH200L-A		ZX240K					ZX330LC	ZX350LCH-5B			ZX520LCR-3						
	EX60WD-2				ZX110M	EX130K-5	ZX135USL-3							EX210H-5	ZX200LC-X	ZX200LC-5B		ZX240LCK					ZX350H	ZX350K-5B			ZX470-5B						
	EX60-5A				ZX125US	EX130HT-5	ZX130L-3							EX210LCH-5	ZX200-X	ZX200-5B		ZX240-3					ZX350LCH	ZX350LCK-5B			ZX470H-5B						
	EX60TN-5A				ZX125US-E	EX135USR	ZX140LC-8							EX210K-5	ZX225US-E	ZX210H-5B		ZX240LC-3					ZX350K				ZX470R-5B						
	EX70LCK-5A				ZX135UR	EX135USRK	ZX120-5B							EX210LCK-5	ZX225USLC-E	ZX210LCH-5B		ZX250H-3					ZX350LCK				ZX470LCR-5B						
	ZX70-3				ZX125W	EX135USRTN	ZX130K-5B							EX210HT-5	ZX225USR-E	ZX210K-5B		ZX250LCH-3									ZX530LCH-5B						
	ZX70LC-3				ZX110-3	EX140US-5	ZX130KB-5B							EX200TN-5	ZX225USRLC-E	ZX210LCK-5B		ZX250K-3															
	ZX80LCK-3				ZX110N-3	ZX130K	ZX135US-5B							EX200TN-5E	ZX225US TN	ZX210KB-5B		ZX250LCK-3															
	ZX75US-3				ZX135USS-3	ZX120	ZX135USK-5B							EX200TN-5Z	ZX225USLC TN	ZX210LCKB-5B		ZX240LC-5B															
	ZX70UR-3					ZX120-E	ZX135USS-5B							EX200LCTN-5	ZX225USR TN	ZX225USLC-5B		ZX240-5B															
	ZX75USK-3					ZX130H	ZX130L-5B							EX200LCTN-5Z	ZX225USRLC TN	ZX225US-5B		ZX250H-5B															
	ZX75USTN-3					ZX135US	ZX135USL-5B							EX200LCTN-5Z	ZX200TN	ZX225USR-E		ZX250LCH-5B															
	ZX75UR-5B					ZX120TN-Z								EX200-5X	ZX200LCTN	ZX225USR-5B		ZX250K-5B															
	ZX75US-5B					ZX135USK								EX200LC-5K	ZX225USLC TN-Z	ZX225USRK-5B		ZX250LCK-5B															
	ZX75USK-5B					EX135US-E								EX225USR	ZX225US TN-Z	ZX225USRLCK-5B																	
						ZX130MT								EX225USRLC	ZX210W	ZH200-5B																	
						ZX130L								EX225USRK	ZX200-HHE	ZH200LC-5B																	
														EX225USRLCK	ZX200-3	ZH210K-5B																	
														EX225USRLCTN	ZX200LC-3	ZH210LCK-5B																	
														ZX210K	ZX210H-3																		
														ZX210LCK	ZX210LCH-3																		
														ZX200	ZX210K-3																		
														ZX200LC	ZX210LCK-3																		
FURUKAWA	FX75UR-3		FZ70LC		FX100-5	FX120-5				FX150LC-5				FX200-5	FZ210H			FX220-5		FX270-5													
	FX75UR-5				FX100H-5	FX120-5HG				FZ160LC				FX200LC-5	FZ210LCH			FX220LC-5		FX270LC-5													
	FX75US-5				FX135UR	FZ120								FX200-5HG	FZ210K			FX230H-5		FZ270													
	FZ75US				FZ110	FZ120-E								FX200LC-5HG	FZ210LCK			FX230LCH-5		FZ270LC													
	FZ70				FZ110-E	FZ130H								FX225USR	FZ225USR			FZ230															
	FZ75UR				FZ110H	FX140US-5								FX225USRLC	FZ225US			FZ230LC															
	FZ75US-A				FX135UR-5	FZ130K								FZ200	FZ225US-E			FZ240H															
					FX135US-5	FZ135US								FZ200-E	FZ225USLC-E			FZ240LCH															
					FX125WD-5	FZ135US-E								FZ200LC	FZ225USR-E																		
					FZ125US	FX135USR								FZ200LC-E	FZ225USRLC-E																		
					FZ125US-E																												
					FZ135UR																												
洋马	B7U-1	B7-5A	SV100-1	SV100-2																													
	B7-3	Vio70-3A	SV100-2A																														
	Vio70-2	B7-5B																															
	B7-5	Vio80																															
	Vio70	Vio80-1																															
	Vio7-3	Vio80-1A																															
KATO	HD307				HD510E	HD512E	HD513MRV							HD823MR-LC	HD823MRV	HD820E-LC	HD1023		HD1023-LC				HD1430						HD20H5B				
	HD308US				HD510E-MC	HD513HR	HD513MRVLC							HD823MR	HD823MRVLC	HD820 Ⅱ -LC	HD1023 Ⅱ		HD1023 Ⅱ -LC				HD1430-LC										
	HD308USV					HD513MR Ⅱ	HD512-6							HD820E	HD820-6	HD820 Ⅱ -LC	HD1023 Ⅱ		HD1023 Ⅱ -LC				HD1430 Ⅱ										
						HD512 Ⅱ	HD512LC-6							HD820 Ⅱ	HD820LC-6	HD820VLC							HD1430 Ⅱ -LC										
						HD512V	HD513MR-6							HD820 Ⅱ	HD823MR-6								HD1430V										
						HD512VLC	HD513MRLC-6							HD823MR Ⅱ	HD823MRLC-6								HD1430VLC										
														HD823MR Ⅱ -LC																			
														HD820V																			
久保田	K-75US	KX80U			K-125US-E	K-135US	K-130K			KX150LC-5				K-225US	K-210LCH-3			K-230		K-270													
	K-70	KX60-5A			K-125US	K-135US-E	K-135USK			K-160LC				K-225US-E	K-210LCK-3			KX230-5															
	K-75UR	K-70-3			K-110-E	K-130-E	K-130-3							K-225USR	K-225USR-3			K-240															
	K-75US-A	K-70LC-3			K-110	K-120	K-130K-3							K-225USR-E	K-225USRLC-3			K-240LC-3															
	KX-75US-S	K-80LCK-3			KX100-5	KX120-5	K-135US-3							K-200	K-225USRK-3			K-250H-3															
	KX75UR-3	K-75US-3			KX100-5	KX135USR	K-135USK-3							K-200-E	K-225USRLCK-3			K-250K-3															
	KX75UR-5				KX135US-5									KX-225USR	K-225US-3			K-250LCH-3															
					KX135UR									KX200-5	K-225USLC-3			K-250LCK-3															
					KX135UR-5									KX200LC-5	K-200LC																		
					K-110-3									K-200-3	K-210K																		
					K-110M-3									K-200-LC-3																			
														K-210H-3																			
														K-210K-3																			