

Machine type	Manufacturer	Model	Retrofit detail	Control method	No. of machines	Manufacturer category	Machine type category	Remarks
Grinder								
Roll grinding machine	Toshiba Machine	KSR	NC replace	TOSNUC-80G	10	G	KR	
		KR-950S		AC servo				
	Farrell		NC replace	TCD	1	G	KR	TCD automatic cutting
				AC servo				
	Karats Precision Machinery	RL-2	NC replace	TCD	1	K	KR	TCD automatic cutting
				AC servo				
	Niigata Tekkou	RL-2	NC replace & overhaul	TOSNUC-80G	1	N	KR	Bed extension
				AC servo				AC spindle
								DC grindstone motor
	Niigata Tekkou	RL-2	NC replace & overhaul	TOSNUC-80G	1	N	KR	
				AC servo				
Surface grinding machines	Kakuta Seisakusho	YOMIS R.RH	NC replace	TCD	1	TU	KR	TCD automatic cutting
				AC servo				
	Sahop	Special grinder	NC replace & overhaul	FANUC-21MB	1	TU	KR	
				AC servo				
	ELB	BC-10	NC replace	FANUC-18GSA	1	G	K	
				AC servo				
Vertical-type grinder	German made	TSG-12	NC/laser update	FANUC-15iM	1	Z	K	
Crank-shaft grinder	Toyota Machine Works	GS55-250	NC replace	TOSNUC-80G	1	TO YO	K	
				AC servo				
Bearing grinder	NTN	KOG	NC replace & overhaul	FANUC-Mate-P	14	Z	K	
				DC servo				
	NTN	ICG	NC replace & overhaul	FANUC-Mate-P	6	Z	K	
				DC servo				