

August 13, 2007

Dear Valued Customer,

Panasonic Factory Solutions Company of America will be migrating from Minus motors to Tamagawa motors in Panasonic Dice Positioners and Auxiliary Axis Motor Units (APUXXXXX) over the next few months.

In order to facilitate these changes current part numbers will be superseded by new part numbers as shown below:

			MINAS (Current)			Tamagawa (New)	
			Positioner model	Motor model	Motor rating	Positioner model	Motor model
Standard	Dice Positioner	200kg	YA-1GJB11	MSM082QAV	750W×1	YA-1GJB12	TS4614N7621
		500kg	YA-1GJB21	MDM102Q3V	1kW×1	YA-1GJB22	TSM1304N8033
		1ton	YA-1GJB31	MDM202Q4V	2kW×1	YA-1GJB32	TSM1308N8033
Standard	Motor unit	100W	APU00018	MSM012QBV	100W×1	APU01109	TS4603N7621
		200W	APU01039	MSM022QBV	200W×1	APU01110	TS4607N7621
		750W	APU00019	MSM082QAV	750W×1	APU01111	TS4614N7621
		1kW	APU00020	MDM102Q3V	1kW×1	APU01112	TSM1304N8033
		2kW	APU00021	MDM202Q4V	2kW×1	APU01113	TSM1308N8033
		3.5kW	APU00022	MDM352Q5V	3.5kW×1	APU01114	TSM1807N8033
		5.5kW	APU01038	MF552Q6V	5.5kW×1	APU01115	TSM1810N8033

Additionally, during the next two months our inventory will overlap until the Minus inventory is completely depleted. We ask that you please plan accordingly. Also, please note that this migration does not affect Auxiliary Axis Amplifiers as the Tamagawa motor uses the same amplifiers.

Panasonic will continue to provide replacement Minus motors for the next 7 years. Panasonic Standard Dice Positioners' functional specification will remain unchanged, however when using APU units there are slight differences between Tamagawa and Minus motors in terms of dimensional data and performance specification. For your convenience we have attached operations manual (OM0704054JE01) for the APU units which includes the Tamagawa's dimensional data and the following spreadsheet to outline the performance difference between Minus and Tamagawa:

MINAS Motor							
Model number of Motor unit	APU00018	APU01039	APU00019	APU00020	APU00021	APU00022	APU01038
Motor model	MSM012Q**	MSM022Q**	MSM082**	MDM102**	MDM202Q**	MDM352Q**	MF552Q**
Rated output, [W]	100	200	750	1000	2000	3500	5500
Rated torque, [N·m]	0.32	0.64	2.4	4.80	9.54	16.6	26.0
Max. instant. Torque, [N·m]	0.95	1.91	6.9	14.4	28.5	50.0	52.9
Rated revolution, [r/min]	3000	3000	3000	2000	2000	2000	2000
Max. revolution, [r/min]	5000	5000	4500	3000	3000	3000	3000
Rated armature current, [Arms]	1.0	1.6	4.3	5.6	12.3	18.7	28.2
Max. armature amp, [A(0-p)]	4.3	7.9	18.3	24.0	52.0	80.0	89.0
Absolute encoder, [P/rev]	2048	2048	2048	2048	2048	2048	2048
Break, [DCV]	90	90	90	90	90	90	90
Tamagawa Motor							
Model number of Motor unit	APU01109	APU01110	APU01111	APU01112	APU01113	APU01114	APU01115
Motor model	TS4603N****	TS4607N****	TS4614N****	TSM1304N****	TSM1308N****	TSM1807N****	TSM1810N****
Rated output, [W]	100	200	750	1000	2000	3500	5500
Rated torque, [N·m]	0.318	0.64	2.39	4.80	9.54	16.6	26.0
Max. instant. Torque, [N·m]	0.95	1.91	7.16	14.4	28.5	50.0	52.9
Rated revolution, [r/min]	3000	3000	3000	2000	2000	2000	2000
Max. revolution, [r/min]	5000	5000	5000	3000	3000	3000	3000
Rated armature current, [Arms]	1.1	1.7	4.5	5.7	11.29	18.9	30.3
Max. armature amp, [A(0-p)]	4.2	7.1	18.7	24.0	46.7	79.9	85.6
Absolute encoder, [P/rev]	2048	2048	2048	2048	2048	2048	2048

Sincerely,

Kevin Pagano
Engineering Manager
Welding & Robotics