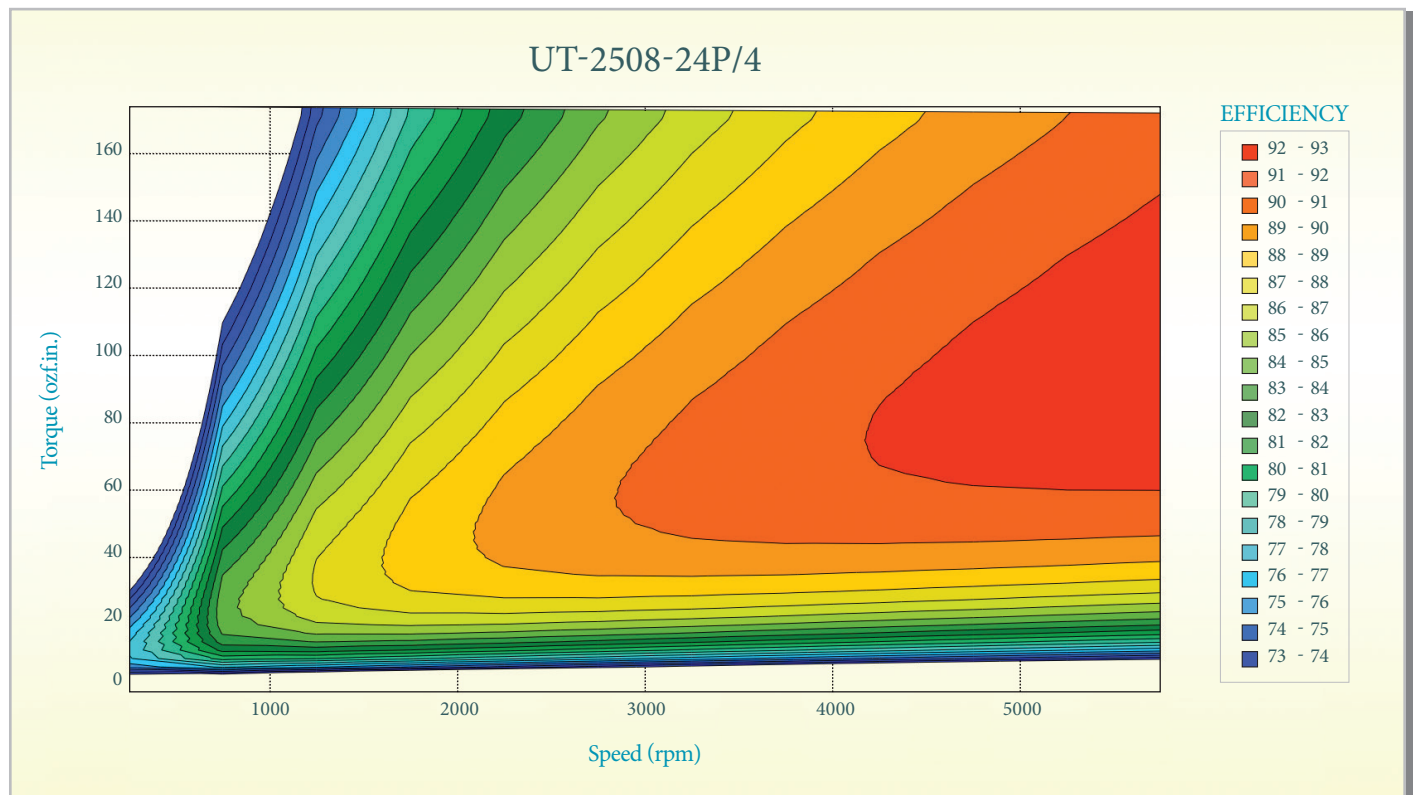
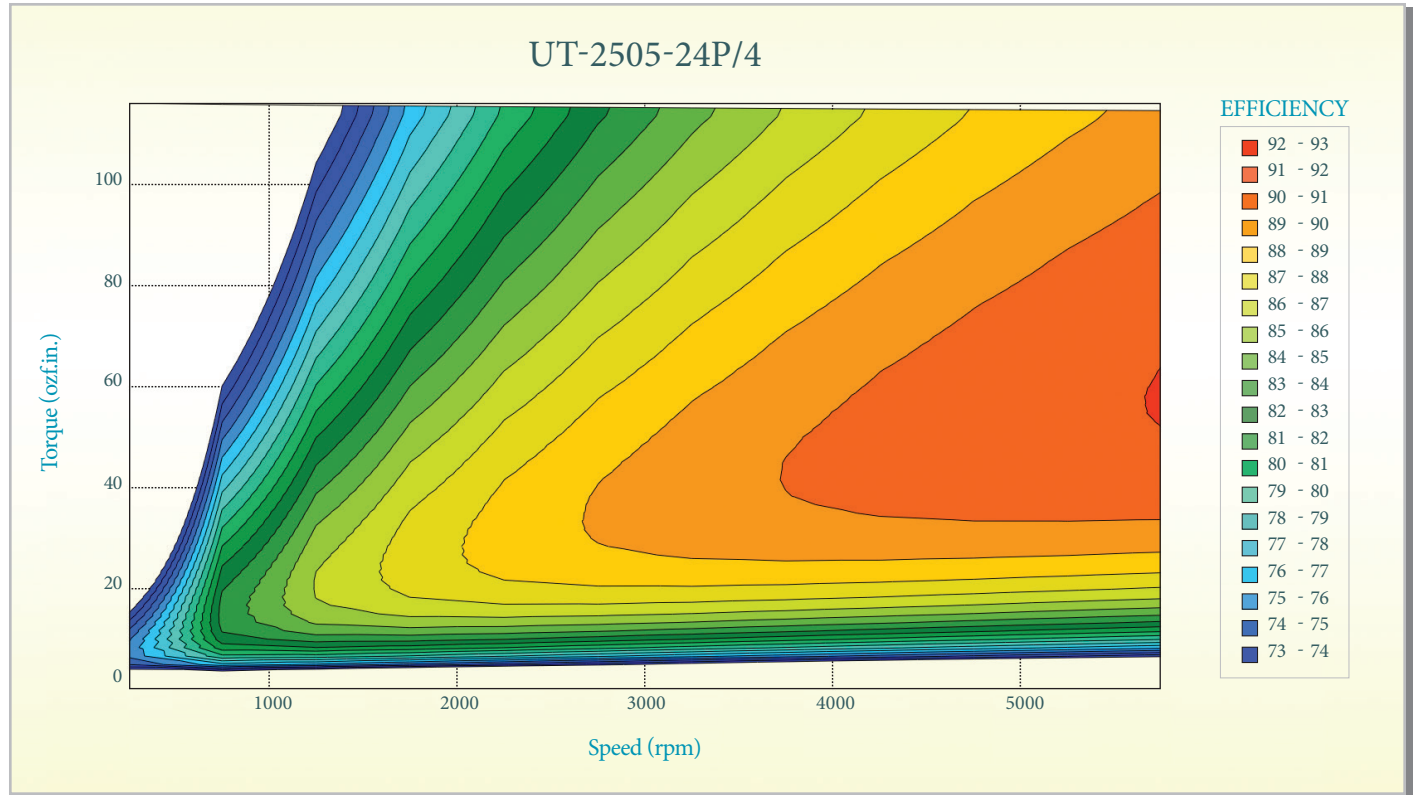


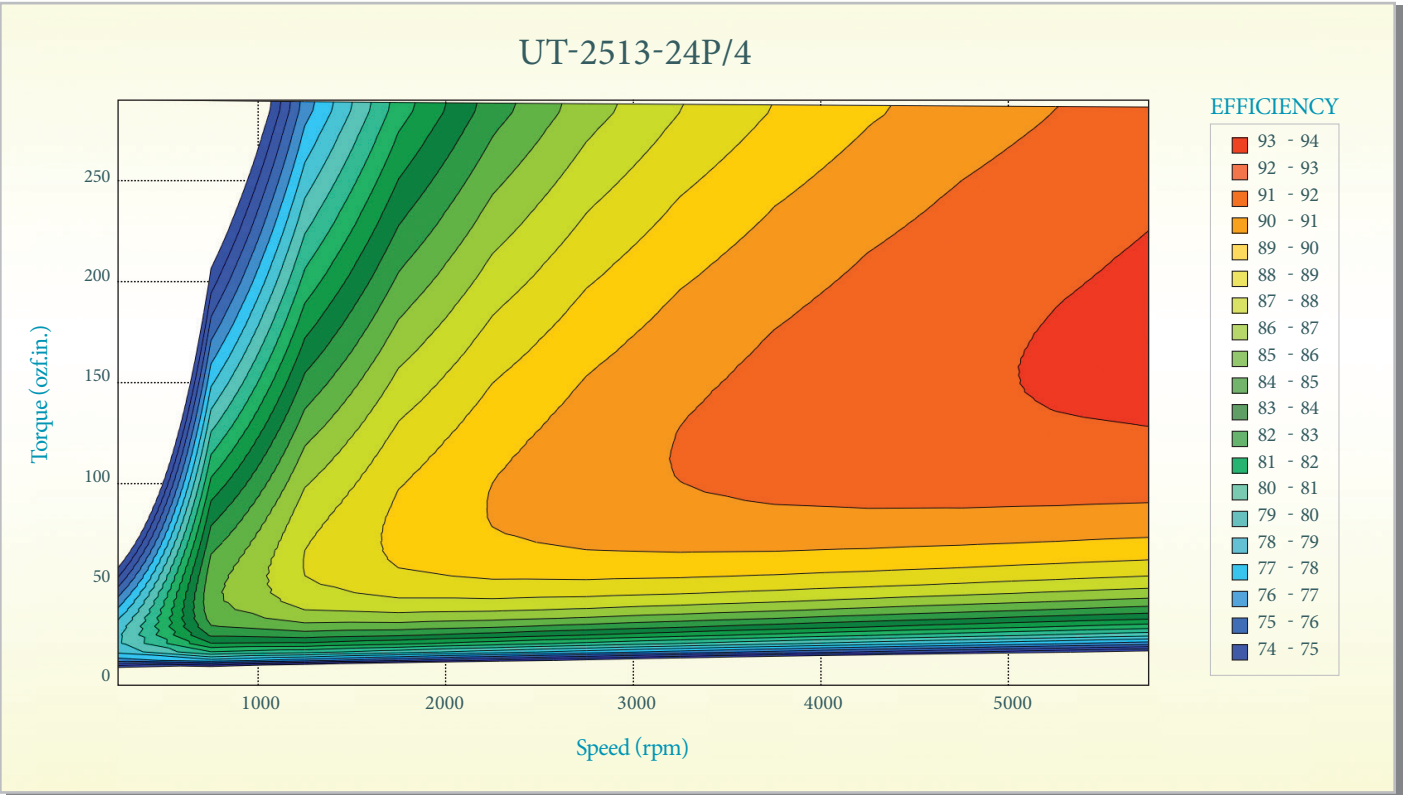
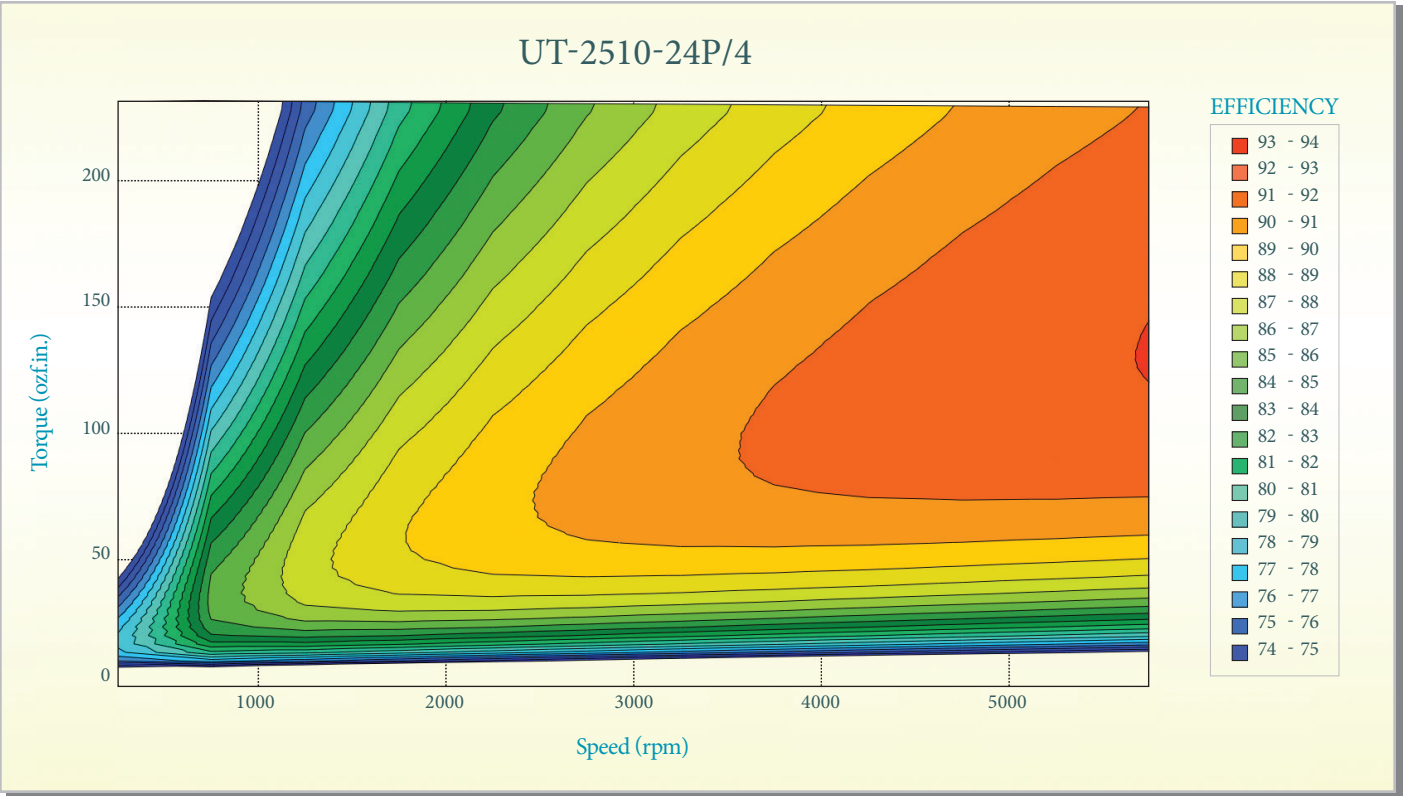
2.5" OD 27s24p Series Ultimate Torque Frameless Motors

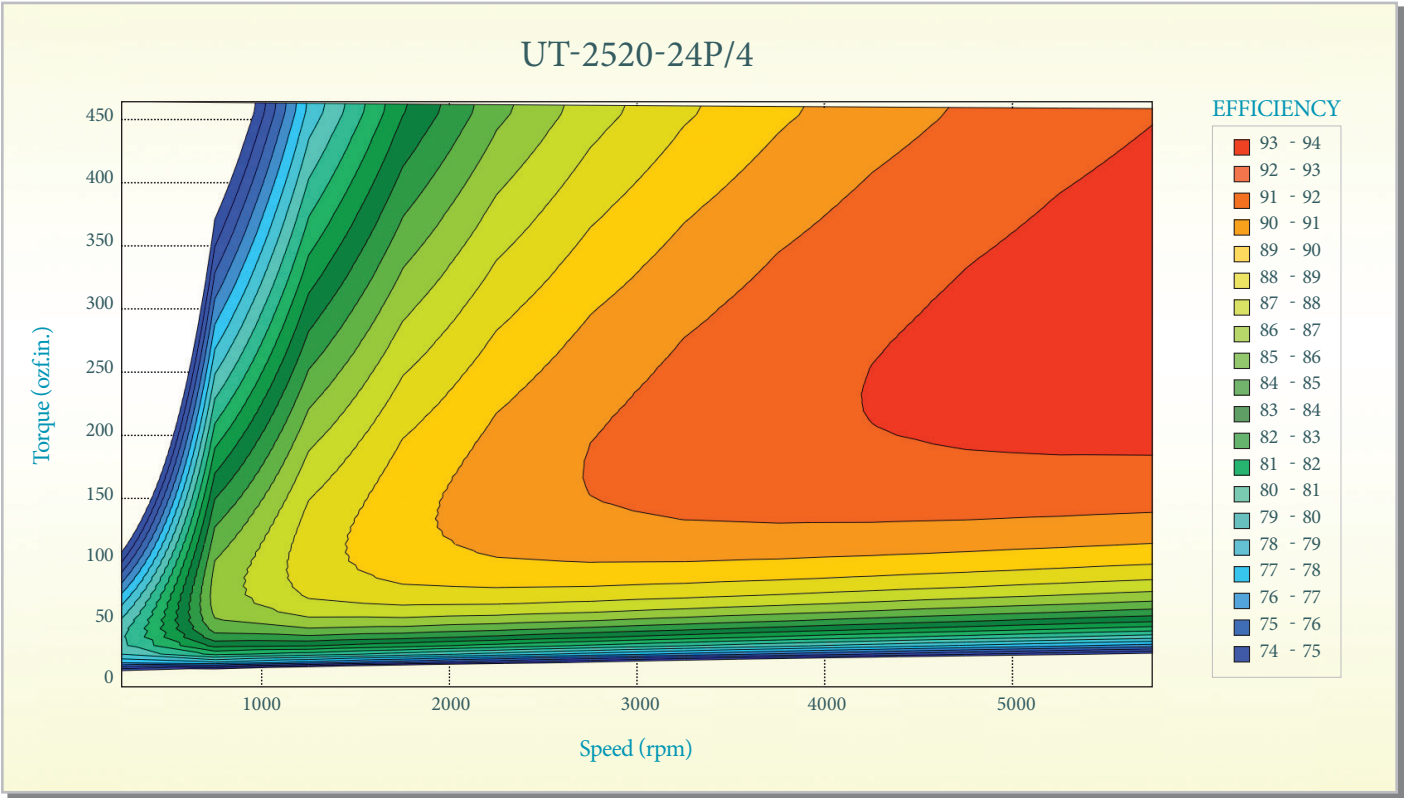
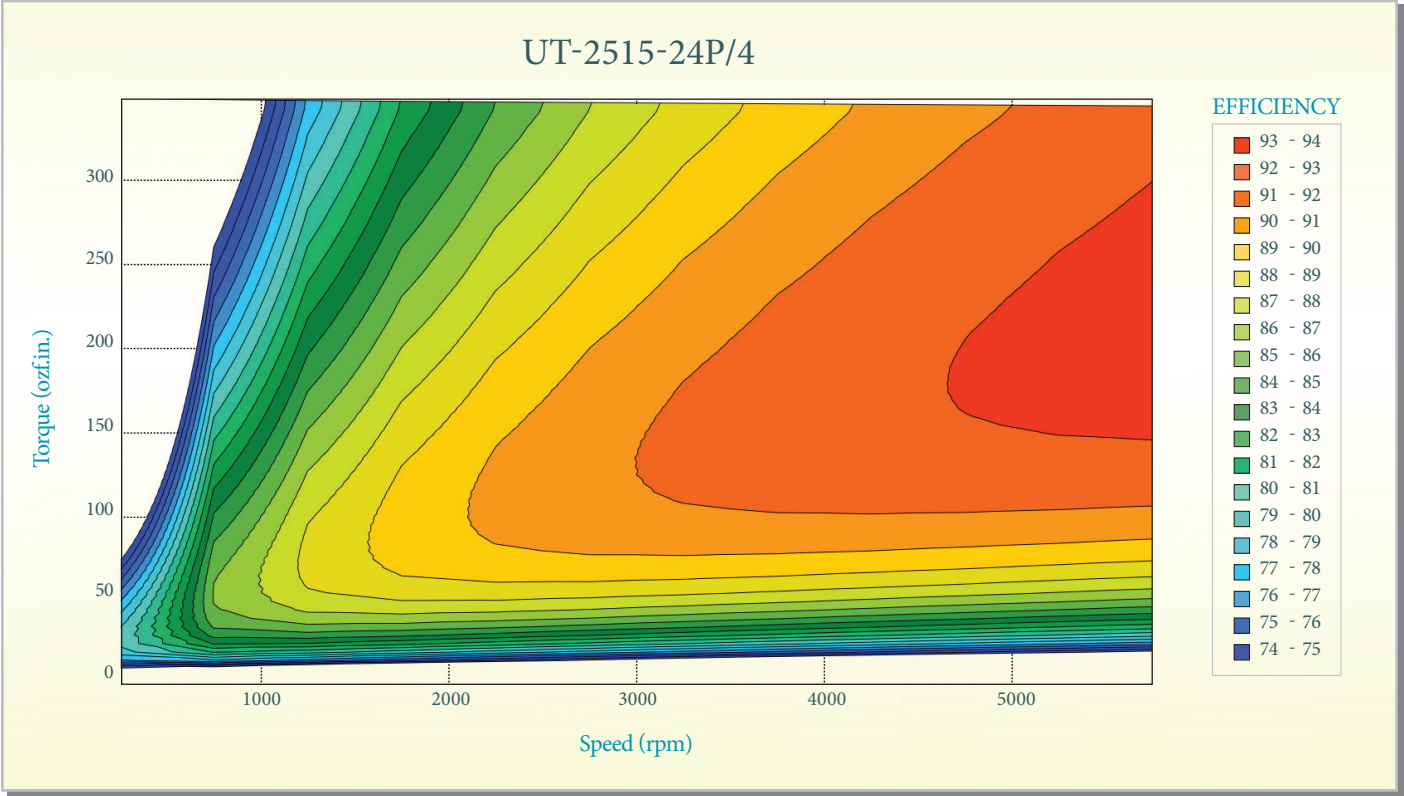
PERFORMANCE TABLE

GENERIC PART NUMBER	UT-2505-24P/4	UT-2508-24P/4	UT-2510-24P/4	UT-2513-24P/4	UT-2515-24P/4	UT-2520-24P/4
AVEOX INTERNAL P/N (SENSORLESS)	6100391-01	6100391-02	6100391-03	6100391-04	6100391-05	6100391-06
STATOR OD (IN)	2.5					
STATOR STACK LENGTH (IN)	0.50	0.75	1.00	1.25	1.50	2.00
RATED SPEED (RPM)	5000					
RATED TORQUE (IN-OZ)	81	122	163	204	244	326
K _m (IN-OZ/√w)	17.67	23.61	28.66	33.10	37.10	44.16
MAGNETIC POLES	24					
WEIGHT (OZ)	5.60	8.10	10.60	13.10	15.70	20.70
ROTOR INERTIA (KG*M ²)	2.40E-05	3.59E-05	4.78E-05	5.98E-05	7.17E-05	9.56E-05
HYSTERESIS DRAG TORQUE (IN-OZ)	1.50	2.26	3.01	3.76	4.51	6.01
ELECTROMAGNETIC VISCOUS DRAG (IN-OZ/RPM)	1.55E-04	2.32E-04	3.10E-04	3.87E-04	4.65E-04	6.20E-04
COGGING TORQUE, PEAK (IN-OZ)	0.08	0.11	0.15	0.19	0.23	0.30
K _t (IN-OZ/Arms)	6.26	9.39	12.52	15.66	18.79	25.05
K _e (V/1krPM, PEAK)	3.92	5.88	7.84	9.80	11.76	15.67
INDUCTANCE (L-L, mH)	0.015	0.022	0.029	0.036	0.043	0.057
RESISTANCE (L-L, Ω)	0.084	0.106	0.127	0.149	0.171	0.215
TEMPERATURE SENSORS	OMEGA RTD, P/N RTD-1-F3105-36-T-B					
LEAD WIRE AWG PER M22759/11	14					

EFFICIENCY MAPS







SPECIFICATIONS

PART NUMBER	DESCRIPTION	ROTOR LENGTH "R"	LEAD WIRE AWG	LEAD WIRE LENGTH "L"	STACK LENGTH "Z" INCLUDING ENDLAM	ENDTURN HEIGHT, LEAD SIDE "X"	ENDTURN HEIGHT, BOTTOM "Y"
6100391-01	O&M DWG STATOR AND ROTOR SET UT-2505-24P/4, SENSORLESS	0.500	14	12	0.56	0.50	0.20
6100391-02	O&M DWG STATOR AND ROTOR SET UT-2508-24P/4, SENSORLESS	0.750	14	12	0.81	0.50	0.20
6100391-03	O&M DWG STATOR AND ROTOR SET UT-2510-24P/4, SENSORLESS	1.000	14	12	1.06	0.50	0.20
6100391-04	O&M DWG STATOR AND ROTOR SET UT-2513-24P/4, SENSORLESS	1.250	14	12	1.31	0.50	0.20
6100391-05	O&M DWG STATOR AND ROTOR SET UT-2515-24P/4, SENSORLESS	1.500	14	12	1.56	0.50	0.20
6100391-06	O&M DWG STATOR AND ROTOR SET UT-2520-24P/4, SENSORLESS	2.000	14	12	2.06	0.50	0.20

OUTLINE DRAWING

