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TECHNOLOGY GROUP

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TLS

Preset Torque Limiting Screwdrivers



Micro Minimaster
TLS0022M



Minimaster
TLS0022



Minor
TLS0135



Standard
TLS0406



TLS1360

Key Features

- Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789: 2003 (+/- 6% of setting).
- Various models that range from 5.7 ozf.in to 120 lbf.in.
- Precision radial ball clutch "slips-free" when the preset torque is reached preventing over-torquing.
- Thrust bearings insure that the torque setting is independent of any end load applied by the operator.
- Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.
- All models provide bi-directional operation and are calibrated in either the CW or CCW direction.
- Four different colored lightweight aluminum handles allow color coding of specific torque values in production areas. (TLS1360 - Black only)

Features TLS-IFR

- The design action of the standard TLS screwdrivers is such that when the tool reaches its pre-set torque value the mechanism disengages from the drive thus limiting the torque applied. Further rotation of the screwdriver handle resets the mechanism ready for the next torquing operation. The IFR models eliminates any small reaction during resetting.
- All IFR models are "impact free" when the cam resets.
- Screwdriver is torque limiting in the CW direction only.
- CCW operation available upon request.

Features TLS-OWC

- One-way clutch system is designed for the screwdriver to apply torque in one direction and lockup in the opposite direction for easy screw removal.
- Ideal for maintenance and refurbishing applications.
- Screwdriver torques in the CW direction only.
- CCW operation available upon request.
- 1/4" male square drive models available upon request.



Tamper-proof internal adjustment.
No external adjustment scale - must be preset using a torque analyzer.

TLS

Model	1/4" M/Sq Dr. Item #	1/4" F/Hex Item #	Color	Torque Ranges American	S.I.	Metric	Weight oz.	gm
Micro Minimaster (TLS0022M)	-	020083	Red	5.7 - 32 ozf.in	4 - 22 cN.m	0.4 - 2.2 kgf.cm	1.8	50
Minimaster (TLS0022)	-	020074	Gold	5.7 - 32 ozf.in	4 - 22 cN.m	0.4 - 2.2 kgf.cm	2.5	72
Minor (TLS0135)	020062	020066	Blue	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020063	020067	Gold	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020064	020068	Green	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020065	020069	Red	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
Standard (TLS0406)	020075	020079	Blue	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020076	020080	Gold	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020077	020081	Green	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020078	020082	Red	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
TLS1360	020060	020061	Black	22 - 120 lbf.in	2.5 - 13.6 N.m	25.3 - 138 kgf.cm	11.5	325

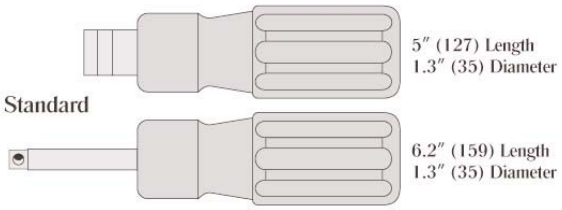
TLS-IFR

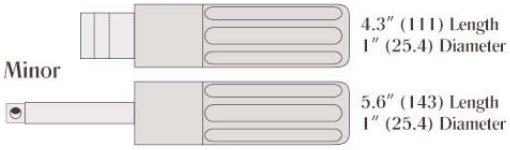
Model	1/4" M/Sq Dr. Item #	1/4" F/Hex Item #	Color	Torque Ranges American	S.I.	Metric	Weight oz.	gm
Minor (TLS0135)	020465	020464	Blue	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020467	020466	Gold	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020469	020568	Green	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
	020471	020470	Red	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.4	210
Standard (TLS0406)	020473	020472	Blue	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020475	020476	Gold	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020477	020478	Green	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
	020479	020480	Red	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	9.9	280
TLS1360	020481	020082	Black	22 - 120 lbf.in	2.5 - 13.6 N.m	25.3 - 138 kgf.cm	11.5	325

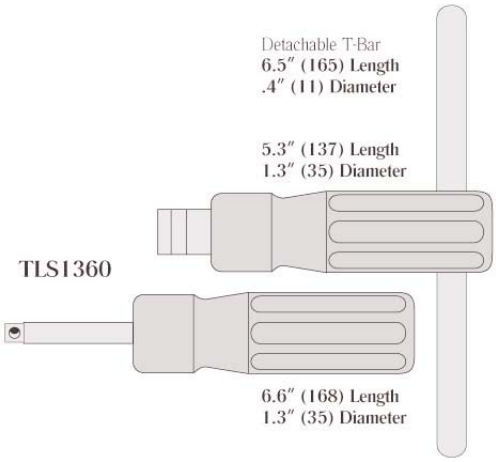
TLS-OWC

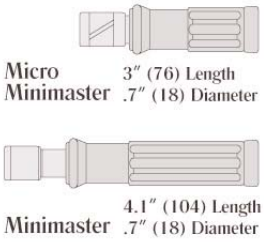
Model	1/4" M/Sq Dr. Item #	1/4" F/Hex Item #	Color	Torque Ranges American	S.I.	Metric	Weight oz.	gm
Minimaster (TLS0022)	-	020289	Gold	5.7 - 32 ozf.in	4 - 22 cN.m	0.4 - 2.2 kgf.cm	3	86
Minor (TLS0135)	-	020298	Blue	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.9	224
	-	020301	Gold	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.9	224
	-	020299	Green	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.9	224
	-	020300	Red	1.2 - 12 lbf.in	14 - 135 cN.m	1.4 - 13.7 kgf.cm	7.9	224
Standard (TLS0406)	-	020302	Blue	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	10.4	294
	-	020304	Gold	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	10.4	294
	-	020293	Green	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	10.4	294
	-	020303	Red	4.4 -36 lbf.in	50 - 406 cN.m	5.1 - 41 kgf.cm	10.4	294
TLS1360	-	020290	Black	22 - 120 lbf.in	2.5 - 13.6 N.m	25.3 - 138 kgf.cm	12	339

Corporate Headquarters: 1080 North 11th Street, San Jose, CA 95112









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