

Speed Code		Incremental J-Series Standard Shaft Encoders	Aust\$
	TRD-J30-RZ	30 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J40-RZ	40 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J50-RZ	50 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J60-RZ	60 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J80-RZ	80 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J100-RZ	100 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J120-RZ	120 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J200-RZ	200 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$199
	TRD-J240-RZ	240 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J300-RZ	300 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J360-RZ	360 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J400-RZ	400 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J500-RZ	500 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J600-RZ	600 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$230
	TRD-J1000-RZ	1000 PULSE/REV TWO PHASED OUTPUT WITH INDEX OUTPUT \CLOCKWISE	\$290
		Incremental Light Duty Standard Shaft Encoders	Aust\$
K1	TRD-S100-BD	Encoder, incremental, 38 mm diameter body, 100 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K2	TRD-S200BD	Encoder, incremental, 38 mm diameter body, 200 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K4	TRD-S250BD	Encoder, incremental, 38 mm diameter body, 250 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K6	TRD-S300BD	Encoder, incremental, 38 mm diameter body, 300 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K3	TRD-S360-BD	Encoder, incremental, 38 mm diameter body, 360 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K8	TRD-S400BD	Encoder, incremental, 38 mm diameter body, 400 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K5	TRD-S500-BD	Encoder, incremental, 38 mm diameter body, 500 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K10	TRD-S600BD	Encoder, incremental, 38 mm diameter body, 600 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K12	TRD-S800BD	Encoder, incremental, 38 mm diameter body, 800 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K7	TRD-S1000-BD	Encoder, incremental, 38 mm diameter body, 1000 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K41	TRD-S1024-BD	Encoder, incremental, 38 mm diameter body, 1024 pulses per revolution, 12-24 VDC, NPN open collector.	\$125
K14	TRD-S1200BD	Encoder, incremental, 38 mm diameter body, 1200 pulses per revolution, 12-24 VDC, NPN open collector	\$130
K16	TRD-S2000BD	Encoder, incremental, 38 mm diameter body, 2000 pulses per revolution, 12-24 VDC, NPN open collector	\$130
K9	TRD-S2500-BD	Encoder, incremental, 38 mm diameter body, 2500 pulses per revolution, 12-24 VDC, NPN open collector	\$130
K17	TRD-S1000-VD	Encoder, incremental, 38 mm diameter body, 1000 pulses per revolution, 5 VDC, line driver (differential)	\$130
K43	TRD-S1024-VD	Encoder, incremental, 38 mm diameter body, 1024 pulses per revolution, 5 VDC, line driver (differential).	\$130
K30	TRD-S1200VD	Encoder, incremental, 38 mm diameter body, 1200 pulses per revolution, 5 VDC, line driver (differential)	\$130
K32	TRD-S2000VD	Encoder, incremental, 38 mm diameter body, 2000 pulses per revolution, 5 VDC, line driver (differential)	\$130
K19	TRD-S2500-VD	Encoder, incremental, 38 mm diameter body, 2500 pulses per revolution, 5 VDC, line driver (differential)	\$130
	TRD-S100-VD	Encoder, incremental, 38mm diameter body, 100 pulses per revolution, 5VDC, line driver (differential)	\$130
	TRD-S200VD	Encoder, incremental, 38mm diameter body, 200 pulses per revolution, 5VDC, line driver (differential)	\$130
	TRD-S250VD	Encoder, incremental, 38mm diameter body, 250 pulses per revolution, 5VDC, line driver (differential)	\$130
	TRD-S300VD	Encoder, incremental, 38mm diameter body, 300 pulses per revolution, 5VDC, line driver (differential)	\$130
	TRD-S360-VD	Encoder, incremental, 38mm diameter body, 360 pulses per revolution, 5VDC, line driver (differential)	\$135
	TRD-S400VD	Encoder, incremental, 38mm diameter body, 400 pulses per revolution, 5VDC, line driver (differential)	\$135
	TRD-S500-VD	Encoder, incremental, 38mm diameter body, 500 pulses per revolution, 5VDC, line driver (differential)	\$135
	TRD-S600VD	Encoder, incremental, 38mm diameter body, 600 pulses per revolution, 5VDC, line driver (differential)	\$135
	TRD-S800VD	Encoder, incremental, 38mm diameter body, 800 pulses per revolution, 5VDC, line driver (differential)	\$135

		Incremental Light Duty Hollow Shaft Encoders	Aust\$
K21	TRD-SH100-BD	Encoder, incremental, 38 mm diameter body, 100 pulses per revolution, 12-24 VDC, NPN open collector	\$125
K34	TRD-SH200BD	Encoder, incremental, 38 mm diameter body, 200 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K36	TRD-SH250BD	Encoder, incremental, 38 mm diameter body, 250 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K38	TRD-SH300BD	Encoder, incremental, 38 mm diameter body, 300 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K23	TRD-SH360-BD	Encoder, incremental, 38 mm diameter body, 360 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K40	TRD-SH400BD	Encoder, incremental, 38 mm diameter body, 400 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K25	TRD-SH500-BD	Encoder, incremental, 38 mm diameter body, 500 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K42	TRD-SH600BD	Encoder, incremental, 38 mm diameter body, 600 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K44	TRD-SH800BD	Encoder, incremental, 38 mm diameter body, 800 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K27	TRD-SH1000-BD	Encoder, incremental, 38 mm diameter body, 1000 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K46	TRD-SH1024BD	Encoder, incremental, 38 mm diameter body, 1024 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K48	TRD-SH1200BD	Encoder, incremental, 38 mm diameter body, 1200 pulses per revolution, 12-24 VDC, NPN open collector	\$139
K49	TRD-SH2000BD	Encoder, incremental, 38 mm diameter body, 2000 pulses per revolution, 12-24 VDC, NPN open collector	\$139
K29	TRD-SH2500-BD	Encoder, incremental, 38 mm diameter body, 2500 pulses per revolution, 12-24 VDC, NPN open collector	\$129
K31	TRD-SH100-VD	Encoder, incremental, 38 mm diameter body, 100 pulses per revolution, 5 VDC, line driver (differential)	\$129
K52	TRD-SH200VD	Encoder, incremental, 38 mm diameter body, 200 pulses per revolution, 5 VDC, line driver (differential)	\$129
K54	TRD-SH250VD	Encoder, incremental, 38 mm diameter body, 250 pulses per revolution, 5 VDC, line driver (differential)	\$129
K56	TRD-SH300VD	Encoder, incremental, 38 mm diameter body, 300 pulses per revolution, 5 VDC, line driver (differential)	\$129
K33	TRD-SH360-VD	Encoder, incremental, 38 mm diameter body, 360 pulses per revolution, 5 VDC, line driver (differential)	\$129
K58	TRD-SH400VD	Encoder, incremental, 38 mm diameter body, 400 pulses per revolution, 5 VDC, line driver (differential)	\$129
K35	TRD-SH500-VD	Encoder, incremental, 38 mm diameter body, 500 pulses per revolution, 5 VDC, line driver (differential)	\$129
K60	TRD-SH600VD	Encoder, incremental, 38 mm diameter body, 600 pulses per revolution, 5 VDC, line driver (differential)	\$129
K62	TRD-SH800VD	Encoder, incremental, 38 mm diameter body, 800 pulses per revolution, 5 VDC, line driver (differential)	\$129
K37	TRD-SH1000-VD	Encoder, incremental, 38 mm diameter body, 1000 pulses per revolution, 5 VDC, line driver (differential)	\$129
K64	TRD-SH1024VD	Encoder, incremental, 38 mm diameter body, 1024 pulses per revolution, 5 VDC, line driver (differential)	\$129
K66	TRD-SH1200VD	Encoder, incremental, 38 mm diameter body, 1200 pulses per revolution, 5 VDC, line driver (differential)	\$139
K68	TRD-SH2000VD	Encoder, incremental, 38 mm diameter body, 2000 pulses per revolution, 5 VDC, line driver (differential)	\$139
K39	TRD-SH2500-VD	Encoder, incremental, 38 mm diameter body, 2500 pulses per revolution, 5 VDC, line driver (differential)	\$139

		Incremental Medium Duty Standard Shaft Encoders	Aust\$
K70	TRD-N3-RZWD	Encoder, incremental, 50 mm diameter body, 3 pulses per revolution, 5-30 VDC, push-pull output	\$169
K72	TRD-N4-RZWD	Encoder, incremental, 50 mm diameter body, 4 pulses per revolution, 5-30 VDC, push-pull output	\$169
K74	TRD-N5-RZWD	Encoder, incremental, 50 mm diameter body, 5 pulses per revolution, 5-30 VDC, push-pull output	\$169
K76	TRD-N10-RZWD	Encoder, incremental, 50 mm diameter body, 10 pulses per revolution, 5-30 VDC, push-pull output	\$169
K78	TRD-N30-RZWD	Encoder, incremental, 50 mm diameter body, 30 pulses per revolution, 5-30 VDC, push-pull output	\$169
K80	TRD-N40-RZWD	Encoder, incremental, 50 mm diameter body, 40 pulses per revolution, 5-30 VDC, push-pull output	\$169
K82	TRD-N50-RZWD	Encoder, incremental, 50 mm diameter body, 50 pulses per revolution, 5-30 VDC, push-pull output	\$169
K50	TRD-N60-RZWD	Encoder, incremental, 50 mm diameter body, 60 pulses per revolution, 5-30 VDC, push-pull output	\$169
K51	TRD-N100-RZWD	Encoder, incremental, 50 mm diameter body, 100 pulses per revolution, 5-30 VDC, push-pull output	\$169
K84	TRD-N120-RZWD	Encoder, incremental, 50 mm diameter body, 120 pulses per revolution, 5-30 VDC, push-pull output	\$189
K86	TRD-N200-RZWD	Encoder, incremental, 50 mm diameter body, 200 pulses per revolution, 5-30 VDC, push-pull output	\$189
K88	TRD-N240-RZWD	Encoder, incremental, 50 mm diameter body, 240 pulses per revolution, 5-30 VDC, push-pull output	\$189
K90	TRD-N250-RZWD	Encoder, incremental, 50 mm diameter body, 250 pulses per revolution, 5-30 VDC, push-pull output	\$189
K92	TRD-N300-RZWD	Encoder, incremental, 50 mm diameter body, 300 pulses per revolution, 5-30 VDC, push-pull output	\$189
K53	TRD-N360-RZWD	Encoder, incremental, 50 mm diameter body, 360 pulses per revolution, 5-30 VDC, push-pull output	\$189
K94	TRD-N400-RZWD	Encoder, incremental, 50 mm diameter body, 400 pulses per revolution, 5-30 VDC, push-pull output	\$189
K96	TRD-N480-RZWD	Encoder, incremental, 50 mm diameter body, 480 pulses per revolution, 5-30 VDC, push-pull output	\$189
K55	TRD-N500-RZWD	Encoder, incremental, 50 mm diameter body, 500 pulses per revolution, 5-30 VDC, push-pull output	\$189
K98	TRD-N600-RZWD	Encoder, incremental, 50 mm diameter body, 600 pulses per revolution, 5-30 VDC, push-pull output	\$189
K100	TRD-N750-RZWD	Encoder, incremental, 50 mm diameter body, 750 pulses per revolution, 5-30 VDC, push-pull output	\$189
K57	TRD-N1000-RZWD	Encoder, incremental, 50 mm diameter body, 1000 pulses per revolution, 5-30 VDC, push-pull output	\$189
K102	TRD-N2000-RZWD	Encoder, incremental, 50 mm diameter body, 2000 pulses per revolution, 5-30 VDC, push-pull output	\$240
K59	TRD-N2500-RZWD	Encoder, incremental, 50 mm diameter body, 2500 pulses per revolution, 5-30 VDC, push-pull output	\$240
K151	TRD-N3-RZVWD	Encoder, incremental, 50 mm diameter body, 3 pulses per revolution, 5 VDC, line driver (differential)	\$189
K165	TRD-N360-RZVWD	Encoder, incremental, 50 mm diameter body, 360 pulses per revolution, 5 VDC, line driver (differential)	\$195
K171	TRD-N1000-RZVWD	Encoder, incremental, 50 mm diameter body, 1000 pulses per revolution, 5 VDC, line driver (differential)	\$195
	TRD-N4-RZVWD	Encoder, incremental, 50mm diameter body, 4 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N5-RZVWD	Encoder, incremental, 50mm diameter body, 5 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N10-RZVWD	Encoder, incremental, 50mm diameter body, 10 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N30-RZVWD	Encoder, incremental, 50mm diameter body, 30 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N40-RZVWD	Encoder, incremental, 50mm diameter body, 40 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N50-RZVWD	Encoder, incremental, 50mm diameter body, 50 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N60-RZVWD	Encoder, incremental, 50mm diameter body, 60 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N100-RZVWD	Encoder, incremental, 50mm diameter body, 100 pulses per revolution, 5VDC, line driver (differential)	\$169
	TRD-N120-RZVWD	Encoder, incremental, 50mm diameter body, 120 pulses per revolution, 5VDC, line driver (differential)	\$230
	TRD-N200-RZVWD	Encoder, incremental, 50mm diameter body, 200 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N240-RZVWD	Encoder, incremental, 50mm diameter body, 240 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N250-RZVWD	Encoder, incremental, 50mm diameter body, 250 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N300-RZVWD	Encoder, incremental, 50mm diameter body, 300 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N400-RZVWD	Encoder, incremental, 50mm diameter body, 400 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N480-RZVWD	Encoder, incremental, 50mm diameter body, 480 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N500-RZVWD	Encoder, incremental, 50mm diameter body, 500 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N600-RZVWD	Encoder, incremental, 50mm diameter body, 600 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N750-RZVWD	Encoder, incremental, 50mm diameter body, 750 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N1024-RZVWD	Encoder, incremental, 50mm diameter body, 1024 pulses per revolution, 5VDC, line driver (differential)	\$210
	TRD-N1200-RZVWD	Encoder, incremental, 50mm diameter body, 1200 pulses per revolution, 5VDC, line driver (differential)	\$240
	TRD-N2000-RZVWD	Encoder, incremental, 50mm diameter body, 2000 pulses per revolution, 5VDC, line driver (differential)	\$240
	TRD-N2500-RZVWD	Encoder, incremental, 50mm diameter body, 2500 pulses per revolution, 5VDC, line driver (differential)	\$240

		Incremental Heavy Duty Standard Shaft Encoders	Aust\$
K125	TRD-GK30-RZD	Encoder, incremental, 78 mm diameter body, 30 pulses per revolution, 10-30 VDC, push-pull output	\$340
K71	TRD-GK100-RZD	Encoder, incremental, 78 mm diameter body, 100 pulses per revolution, 10-30 VDC, push-pull output	\$340
K136	TRD-GK120-RZD	Encoder, incremental, 78 mm diameter body, 120 pulses per revolution, 10-30 VDC, push-pull output	\$340
K73	TRD-GK200-RZD	Encoder, incremental, 78 mm diameter body, 200 pulses per revolution, 10-30 VDC, push-pull output	\$340
K127	TRD-GK240-RZD	Encoder, incremental, 78 mm diameter body, 240 pulses per revolution, 10-30 VDC, push-pull output	\$340
K128	TRD-GK250-RZD	Encoder, incremental, 78 mm diameter body, 250 pulses per revolution, 10-30 VDC, push-pull output	\$340
K129	TRD-GK300-RZD	Encoder, incremental, 78 mm diameter body, 300 pulses per revolution, 10-30 VDC, push-pull output	\$340
K75	TRD-GK360-RZD	Encoder, incremental, 78 mm diameter body, 360 pulses per revolution, 10-30 VDC, push-pull output	\$340
K130	TRD-GK400-RZD	Encoder, incremental, 78 mm diameter body, 400 pulses per revolution, 10-30 VDC, push-pull output	\$340
K77	TRD-GK500-RZD	Encoder, incremental, 78 mm diameter body, 500 pulses per revolution, 10-30 VDC, push-pull output	\$375
K131	TRD-GK600-RZD	Encoder, incremental, 78 mm diameter body, 600 pulses per revolution, 10-30 VDC, push-pull output	\$375
K132	TRD-GK800-RZD	Encoder, incremental, 78 mm diameter body, 800 pulses per revolution, 10-30 VDC, push-pull output	\$375
K79	TRD-GK1000-RZD	Encoder, incremental, 78 mm diameter body, 1000 pulses per revolution, 10-30 VDC, push-pull output	\$375
K133	TRD-GK1200-RZD	Encoder, incremental, 78 mm diameter body, 1200 pulses per revolution, 10-30 VDC, push-pull output	\$390
K134	TRD-GK1500-RZD	Encoder, incremental, 78 mm diameter body, 1500 pulses per revolution, 10-30 VDC, push-pull output	\$440
K135	TRD-GK1800-RZD	Encoder, incremental, 78 mm diameter body, 1800 pulses per revolution, 10-30 VDC, push-pull output	\$440
K136	TRD-GK2000-RZD	Encoder, incremental, 78 mm diameter body, 2000 pulses per revolution, 10-30 VDC, push-pull output	\$440
K137	TRD-GK2500-RZD	Encoder, incremental, 78 mm diameter body, 2500 pulses per revolution, 10-30 VDC, push-pull output	\$495
K138	TRD-GK3600-RZD	Encoder, incremental, 78 mm diameter body, 3600 pulses per revolution, 10-30 VDC, push-pull output	\$590
K139	TRD-GK5000-RZD	Encoder, incremental, 78 mm diameter body, 5000 pulses per revolution, 10-30 VDC, push-pull output.	\$590

Absolute Medium Duty Standard Shaft Encoders			Aust\$
K141	TRD-NA32NWD	Encoder, absolute, 50 mm diameter body, 5-bit (32 pulses per revolution), gray code, 10-26 VDC, NPN open collector	\$395
K142	TRD-NA64NWD	Encoder, absolute, 50 mm diameter body, 6-bit (64 pulses per revolution), gray code, 10-26 VDC, NPN open collector	\$395
K143	TRD-NA128NWD	Encoder, absolute, 50 mm diameter body, 7-bit (128 pulses per revolution), gray code, 10-26 VDC, NPN open collector	\$395
K144	TRD-NA180NWD	Encoder, absolute, 50 mm diameter body, 8-bit (180 pulses per revolution), gray code, 10-26 VDC, NPN open collector	\$395
K81	TRD-NA256NWD	Encoder, absolute, 50 mm diameter body, 8-bit (256 pulses per revolution) gray code, 10-26 VDC, NPN open collector	\$395
K83	TRD-NA360NWD	Encoder, absolute, 50 mm diameter body, 9-bit (360 pulses per revolution) gray code, 10-26 VDC, NPN open collector	\$395
K145	TRD-NA512NWD	Encoder, absolute, 50 mm diameter body, 9-bit (512 pulses per revolution), gray code, 10-26 VDC, NPN open collector	\$395
K85	TRD-NA720NWD	Encoder, absolute, 50 mm diameter body, 10-bit (720 pulses per revolution) gray code, 10-26 VDC, NPN open collector	\$395
K87	TRD-NA1024NWD	Encoder, absolute, 50 mm diameter body, 10-bit (1024 pulses per revolution) gray code, 10-26 VDC, NPN open collector	\$395
Encoder Accessories			Aust\$
K501	GJ-6D	Coupling, glass fiber reinforced resin for TRD-S series encoders	\$15
K503	GJ-8D	Coupling, glass fiber reinforced resin for TRD-N/NA series encoders	\$15
K505	GJ-10D	Coupling, glass fiber reinforced resin for TRD-GK series encoders	\$19
K507	RU-075D	Coupling, aluminum alloy for TRD-S series encoders	\$70
K509	RU-100D	Coupling, aluminum alloy for TRD-GK series encoders	\$70
K511	JU-100D	Coupling, aluminum alloy for TRD-N/NA series encoders	\$70
K513	JT-035D	Metal mounting bracket for TRD-N/NH/NA series encoders	\$20
K515	RT-11D	Metal mounting bracket for TRD-GK series encoders	\$35
K516	MCGL16-6-635	Metric to S.A.E. Coupling, 6mm to 0.25 inch, Aluminum alloy, for TRD-S series encoders	\$35
K517	MCGL20-8-635	Metric to S.A.E. Coupling, 8mm to 0.25 inch, Aluminum alloy, for TRD-N/TRD-NA series encoders	\$59
K518	MCGL25-10-635	Metric to S.A.E. Coupling, 10mm to 0.25 inch, Aluminum alloy, for TRD-GK series encoders	\$65
K519	MCGL20-8-952	Metric to S.A.E. Coupling, 8mm to 0.375 inch, Aluminum alloy, for TRD-N/TRD-NA series encoders	\$65
K520	MCGL25-10-952	Metric to S.A.E. Coupling, 10mm to 0.375 inch, Aluminum alloy, for TRD-GK series encoders	\$59