

# MERGED COLLECTORS

As used by all F1 teams, and all leading classes of motor racing, it has been no secret that merged collectors increase horsepower and torque, in particular when used with extractors on normally aspirated engines (up to 10% increase over pressed collectors is not an uncommon result), and a very noticeable increase when used on turbo charger manifolds, the turbo spools up much quicker, noticeably reducing lag and bringing the torque in earlier on in the rev range.

They come as standard equipment on nearly all exotic performance cars, & are used extensively in all types of motor sport in cars, boats & motorcycles. Have a look under a Ferrari V12 or Lamborghini one day or pictures of your favourite F1 teams engine and there you will see beautifully formed, merged collectors. The restriction on merged collectors being more widely used to date has simply been the cost of the collectors due to the time and skill involved to manufacture.

Performance Weaponry's merged collectors have been thoroughly designed and tested to ensure that they will achieve the best results from your engine. They have been expanded on the end to slip over extractor tubes and are constructed from 304 stainless steel with fully purged tig welds. Available with or without reverse cone ends,

Fitting is easy if your existing extractors finish (as most do) grouped in a square fashion with a collector cone welded on it is simply a matter of cutting off the pressed collector and sliding the merged collector over the tubes. Securing the collector by either welding or attaching a mount bracket to make removal easy if you require.

There is **3 basic options available:**

Merged collectors (can be used with both normally aspirated and turbo applications)

Merged collector with reverse cone end  
(highly recommended for normally aspirated to bring the bests out of your engine)

Performance Weaponry's V-series gives you the flexibility that you had never thought possible. A V-band ring is welded to the rear of the basic merged collector, allowing you to trial different diameter & length reverse cone ends.

The reverse cone ends also have V-band rings welded to give you the flexibility to quickly and easily remove such items as catalytic converter to replace with straight thru pipe for the track, then when finished racing simple swap your cats back in and drive home.

Or perhaps swap to try different catalytic converters or simply add a muffler for race day, with the V-Series you have almost total flexibility that you can design the system that suits each track or different condition that occur, up until now most teams had to take several different exhaust systems to find the one that suits their car and that race track, with the V-series those teams now have total flexibility plus the ability to change the exhaust configuration in minutes, it has revolutionise the way exhaust systems are used.



# LIST OF CONVERTORS MERGED COLLECTORS

All collectors are made from gr304 stainless steel

Part number explained

**PART NUMBER: MC-44-60-41**



**44** = 44mm = Tube diameter that slides into the collector

**60** = 60mm = External diameter after the pipes have merged

**41** = Four into 1 collector

NOTE: All collectors are to suit true imperial size tubing (nearly all tubing in exhaust applications is imperial tube)

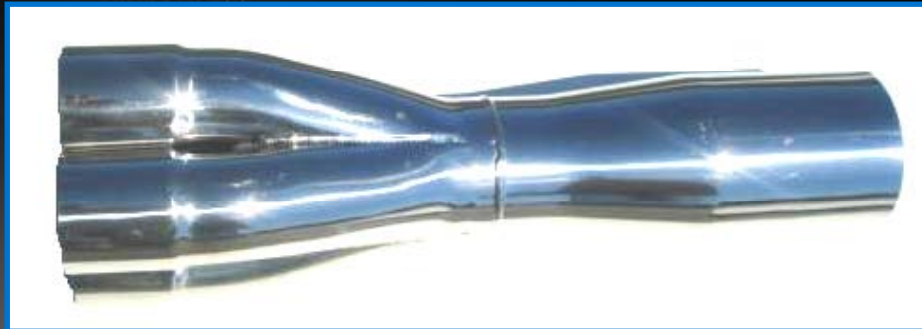
MERGED COLLECTORS	DESCRIPTION	
PART NUMBER	4into1 (41) or 2into1 (21)	PRICE AUD
MC-38-50-41 ( 1 1/2" - 2" - 41)	4into1	\$215
MC-38-47-21 ( 1 1/2" - 1 7/8" - 21)	2into1	\$135
MC-41-54-41 ( 1 5/8" - 2 1/8" - 41)	4into1	\$225
MC-41-47-21 ( 1 5/8" - 1 7/8" - 21)	2into1	\$142
MC-44-60-41 ( 1 3/4" - 2 3/8" - 41)	4into1	\$235
MC-44-50-21 ( 1 3/4" - 2" - 21)	2into1	\$150
MC-47-60-41 ( 1 7/8" - 2 3/8" - 41)	4into1	\$245
MC-47-63-41 ( 1 7/8" - 2 1/2" - 41)	4into1	\$245
MC-47-57-21 ( 1 7/8" - 2 1/4" - 21)	2into1	\$157
MC-50-67-41 (2" - 2 5/8" - 41)	4into1	\$260
MC-50-70-41 ( 2" - 2 3/4" - 41)	4into1	\$260
MC-50-63-21 ( 2" - 2 1/2" - 21 )	2into1	\$165
MC-54-73-41 ( 2 1/8" - 2 7/8" - 41 )	4into1	\$275
MC-57-76-41 ( 2 1/4" - 3" - 41 )	4into1	\$285

# LIST OF CONVERTORS MERGED COLLECTOR WITH REVERSE CONE END

All collectors are made from gr304 stainless steel

Part number explained

PART NUMBER: MC-44-60-76-41



44 = 44mm = Tube diameter that slides into the collector

60 = 60mm = External diameter after the pipes have merged

41 = Four into 1 collector

MERGED COLLECTORS	DESCRIPTION	
PART NUMBER	4into1 or 2into1	PRICE AUD
MC-38-50-57-41 ( 1 1/2"- 2"- 2 1/4"- 41)	4into1	\$235
MC-38-47-47-21 ( 1 1/2"-1 7/8"-1 7/8" - 21)	2into1	\$150
MC-41-54-63-41 ( 1 5/8"-2 1/8"-2 1/2"- 41)	4into1	\$250
MC-41-47-47-21 ( 1 5/8"-1 7/8"-1 7/8" - 21)	2into1	\$160
MC-44-60-63-41 ( 1 3/4"-2 3/8"-2 1/2" - 41)	4into1	\$260
MC-44-60-76-41 (1 3/4"-2 3/8"-3"-41 )	4into1	\$260
MC-44-50-21 ( 1 3/4"- 2" - 21)	2into1	\$170
MC-47-60-76-41 ( 1 7/8"-2 3/8"-3"- 41)	4into1	\$275
MC47-63-89-41 ( 1 7/8"-2 1/2"-3 1/2"- 41)	4into1	\$275
MC-47-57-57-21 ( 1 7/8"-2 1/4"-2 1/4"- 21)	2into1	\$180
MC-50-67-89-41 (2"-2 5/8"-3 1/2"- 41)	4into1	\$285
MC-50-70-89-41 ( 2"-2 3/4"-3 1/2"-41)	4into1	\$285
MC-50-63-63-21 ( 2"-2 1/2"-2 1/2"- 21 )	2into1	\$190
MC-54-73-89-41 ( 2 1/8"-2 7/8"-3 1/2"- 41 )	4into1	\$300
MC-57-76-101-41 ( 2 1/4"- 3"-4"- 41 )	4into1	\$315

# LIST OF CONVERTORS V - SERIES MERGED COLLECTORS

All collectors are made from gr304 stainless steel

Part number explained

PART NUMBER: MC-44-60-41-V



44 = 44mm = Tube diameter that slides into the collector

60 = 60mm = External diameter after the pipes have merged

41 = Four into 1 collector

NOTE: All collectors are to suit true imperial size tubing (nearly all tubing in exhaust applications is imperial tube)

MERGED COLLECTORS	DESCRIPTION	PART NUMBER CLAMP TO SUIT	
PART NUMBER	4into1 or 2into1	V-BAND RING WELDED( MALE )	PRICE AUD
MC-38-50-41-V ( 1 1/2" - 2" - 41)	4into1	VBC50	\$295
MC-38-47-21-V ( 1 1/2" - 1 7/8" - 21)	2into1	VBC50	\$210
MC-41-54-41-V ( 1 5/8" - 2 1/8" - 41)	4into1	VBC50	\$310
MC-41-47-21-V ( 1 5/8" - 1 7/8" - 21)	2into1	VBC50	\$220
MC-44-60-41-V ( 1 3/4" - 2 1/4" - 41)	4into1	VBC57	\$325
MC-44-50-21-V ( 1 3/4" - 2" - 21)	2into1	VBC50	\$230
MC-47-60-41-V ( 1 7/8" - 2 3/8" - 41)	4into1	VBC57	\$335
MC-47-63-41-V ( 1 7/8" - 2 1/2" - 41)	4into1	VBC63	\$340
MC-47-57-21-V ( 1 7/8" - 2 1/4" - 21)	2into1	VBC57	\$245
MC-50-67-41-V (2" - 2 5/8" - 41)	4into1	VBC63	\$360
MC-50-70-41-V ( 2" - 2 3/4" - 41)	4into1	VBC76	\$360
MC-50-63-21-V ( 2" - 2 1/2" - 21 )	2into1	VBC63	\$260
MC-54-73-41-V ( 2 1/8" - 2 7/8" - 41 )	4into1	VBC76	\$380
MC-57-76-41-V ( 2 1/4" - 3" - 41 )	4into1	VBC76	\$390



# TRANSITION PIECES - LONG SERIES

All Transition Pieces are made from gr304 stainless steel  
(For Aluminium transition pieces see Induction section)

Part number explained

**PART NUMBER: PT-50-57**

50 (50.8 Dia OR 2")



57 (57.1mm OR 2 1/4")

Transitions pieces are swaged (formed) tube that taper from a minor diameter to major diameter. For plain transitions and V-series, we make them with a 14° inclusive angle taper.

For plain transitions allow for approximately 25mm straight (1") on the minor end and approx 50mm on the major end. (V-Series has approx 19mm (3/4") each end where the V-band ring is welded.)



PLAIN TRANSITION

PLAIN TRANSITIONS		TRANSITIONS V - SERIES		USES V-CLAMP	USES V-CLAMP
For weld on applications	PRICE AUD	Quick release clamp on system	PRICE AUD	ON MINOR DIAMETER	ON MAJOR DIAMETER
PT-50-57 ( 2" - 2 1/4" )	\$35	PT-50-57-V ( 2" - 2 1/4" )	\$130	VBC-50	VBC-57
PT-50-63 ( 2" - 2 1/2" )	\$35	PT-50-63-V ( 2" - 2 1/2" )	\$132	VBC-50	VBC-63
PT-54-63) ( 2 1/8" - 2 1/2" )	\$35	PT-54-63-V ( 2 1/8" - 2 1/2" )	\$132	VBC-50	VBC-63
PT-60-63 ( 2 3/8"-2 1/2" )	\$45	PT-60-63-V ( 2 3/8"-2 1/2" )	\$142	VBC-57	VBC-63
PT-60-76-41 ( 2 3/8"-3" )	\$45	PT-60-76-V ( 2 3/8"-3" )	\$149	VBC-57	VBC-76
PT-63-76 ( 2 1/2" - 3" )	\$45	PT-63-76-V ( 2 1/2" - 3" )	\$149	VBC-63	VBC-76
PT-63-89 ( 2 1/2" - 3 1/2" )	\$55	PT-63-89-V ( 2 1/2" - 3 1/2" )	\$168	VBC-89	
PT-67-89 ( 2 5/8"-3 1/2" )	\$55	PT-67-89-V ( 2 5/8"-3 1/2" )	\$168	VBC-63	VBC-89
PT-70-89 ( 2 3/4"-3 1/2" )	\$55	PT-70-89-V ( 2 3/4"-3 1/2" )	\$168	VBC-76	VBC-89
PT73-89 ( 2 7/8"-3 1/2" )	\$55	PT-73-89-V ( 2 7/8"-3 1/2" )	\$168	VBC-76	VBC-89
PT-76-101 ( 3"-4" )	\$60	PT-76-101-V ( 3"-4" )	\$180	VBC-76	VBC-101

# TRANSITION PIECES - SHORT SERIES

All Transition Pieces are made from gr304 stainless steel  
 These transitions are short in length for area that has less room to work with.  
 They are designed to be plain transitions that are welded into position.  
 They are available in concentric transition or excentric transition



CONCENTRIC TRANSITION



ECCENTRIC TRANSITION

CONCENTRIC TRANSITION	DIMENTIONS			
PART NUMBER	LARGE DIA/ SMALL DIA	X	LENGTH	PRICE AUD
CT-50-38	50.8 X 38.1		50	\$16.50
CT-63-38	63.5 X 38.1		61	\$23.00
CT-63-50	63.5 X 50.8		48	\$24.00
CT-76-38	76.2 X 38.1		73	\$34.00
CT-76-50	76.2 X 50.8		73	\$25.00
CT-76-63	76.2 X 63.5		50	\$26.00
CT-101-38	101.6 X 38.1		102	\$63.00
CT-101-50	101.6 X 50.8		99	\$54.00
CT-101-63	101.6 X 63.5		82	\$32.00
CT-101-76	101.6 X 76.2		81	\$42.00

ECCENTRIC TRANSITION	DIMENTIONS			
PART NUMBER	LARGE DIA/ SMALL DIA	X	LENGTH	PRICE AUD
ET-50-38	50.8 X 38.1		51	\$28.00
ET-63-38	63.5 X 38.1		66	\$32.00
ET-63-50	63.5 X 50.8		67	\$36.00
ET-76-38	76.2 X 38.1		76	\$40.00
ET-76-50	76.2 X 50.8		79	\$48.00
ET-76-63	76.2 X 63.5		80	\$32.00
ET-101-38	101.6 X 38.1		101	\$83.50
ET-101-76	101.6 X 76.2		101	\$42.00