



## Summary 91 Marine gears

Offshore Service, P.O. Box 1,  
Ludwigshafen, 67033, Germany  
Telephone: +49 6201 20-0  
                  +49 6201 20-100  
Fax: +49 6201 20-110  
Telex: +49 6201 20-11



# Definition of gearbox application groups

Application groups M, L, F (continued from see page 6 in 22)

Application area	M	L	F
Special low to middle speeds	Low speed operation (1000)	Low speed operation (1000)	Low speed operation (1000)
Medium speed	Medium speed with constant or slight speed	Medium speed with slight variation in speed (1000)	Medium speed with slight variation in speed (1000)
Medium speed/constant	Low to speed (1000)	Low to speed (1000)	Low to speed (1000)
Special high speed	High speed, low acceleration (1000)	High speed, low acceleration (1000)	High speed
Special operation	Variable and start (1000)	High speed and start only, start and lower speeds	High speed and lower speeds
Special operation of machines	High speed, high torque, high acceleration (1000), high torque, high acceleration (1000)	High speed operation with high torque, high acceleration (1000), high torque, high acceleration (1000)	High speed operation (1000)

10 Note: Gearbox speed requirements refer to maximum speed under maximum torque using class 2 oil at operating temperature. When using a gear oil with a lower viscosity (class 1) or a different oil, corresponding to the application, the gearbox may be derated to the class 2 rating maximum torque.

Application group C (continued from see page 7 in 22)

Special low to middle speeds	Medium speed	Medium to high speed	High to high speed	High to high speed	Typical examples of applications
Low to medium speed	Medium speed (1000) with slight speed	Medium	High speed, low acceleration (1000)	High speed	Medium to high speed operation (1000), high speed, high torque

## Scope of supplies

Item	IRM							IRW	V
	IRM 1 IRM 2	IRM 3 IRM 4 IRM 5 IRM 6 IRM 7	IRM 8 IRM 9	IRM 10 IRM 11 IRM 12 IRM 13 IRM 14	IRM 15 IRM 16	IRM 17 IRM 18 IRM 19	IRM 20 IRM 21		
Ball bearings (see No 7.1.2.1)	○	○	○	○	○	○	■	○	—
Belted coupling	○	○	○	○	○	○	○	○	—
Ball-bearing coupled sets	—	—	○	○	○	○	○	○	■
“Type A”	—	—	■	—	—	—	—	—	—
Impeller coupled sets	■	■	■	■	■	■	■	■	■
Impeller shaft bearings	○	○	○	○	○	○	○	○	○
Impeller shaft bearings	■	■	■	■	■	■	■	■	—
— roller	—	—	—	—	—	○	—	—	—
— ball-bearing	—	—	—	—	—	—	—	—	—
Impeller mounting sets	○	○	○	○	○	○	○	○	○
— sets	—	—	—	—	—	○	○	○	—
IR gear	○	○	○	○	○	○	○	■	■
Mounting device	—	—	—	—	—	—	—	—	○
— aluminium	—	—	—	—	—	○	○	○	—
IRW — permanently fitted	—	—	—	—	—	—	—	○	—
Sealing set sets	—	—	—	—	—	—	—	○	—
Sealing sets	—	—	○	○	○	○	○	○	—
Seal sets set	○	○	○	○	○	○	○	○	○

■ Main series

○ Variable scope of supplies









Classification key: numbers are positions. The numbers correspond to position or additional marking position. For full range, enter 0000.



# Application groups M, L, P

Size	Motor configuration	Volts 3000	Phase	Frequency 50/60	Motor power kW	Motor power HP	Speed rpm	Max. torque Nm	Max. torque lb-ft	Max. shaft diameter mm
M		3000	3	50	0.37	0.5	1500	100	75	25
					0.75	1.0				
					1.5	2.0				
					3.0	4.0				
L		3000	3	50	0.75	1.0	1500	100	75	25
					1.5	2.0				
					3.0	4.0				
					6.0	8.0				
P		3000	3	50	1.5	2.0	1500	100	75	25
					3.0	4.0				
					6.0	8.0				
					12.0	16.0				
					18.0	24.0				
					24.0	32.0				
M		3000	3	60	0.37	0.5	1800	100	75	25
					0.75	1.0				
					1.5	2.0				
					3.0	4.0				
L		3000	3	60	0.75	1.0	1800	100	75	25
					1.5	2.0				
					3.0	4.0				
					6.0	8.0				
P		3000	3	60	1.5	2.0	1800	100	75	25
					3.0	4.0				
					6.0	8.0				
					12.0	16.0				
					18.0	24.0				
					24.0	32.0				
M		3000	3	60	0.37	0.5	1800	100	75	25
					0.75	1.0				
					1.5	2.0				
					3.0	4.0				
L		3000	3	60	0.75	1.0	1800	100	75	25
					1.5	2.0				
					3.0	4.0				
					6.0	8.0				
P		3000	3	60	1.5	2.0	1800	100	75	25
					3.0	4.0				
					6.0	8.0				
					12.0	16.0				
					18.0	24.0				
					24.0	32.0				

1) 100% torque speed for positive torque (NEMA) and 150% for direct starting

Case	Machine description	Time (min)	Preparation time (min)	Number of units	Special orders	Days of week	Unit cost (€)	Max. capacity (units)	Max. value (€)
Case 1		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 2		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 3		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 4		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 5		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 6		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 7		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
Case 8		10	0.000 - 0.000	1000	-	10	100000	10	100
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					
			0.000 - 0.000	1000					

# Application groups M, L, P



Size	Typical configuration	Max. V (kV)	W	Permitted span (m) max. 1000	Rated span (m)	Rated V (kV)	Range of V (kV)	Max. line length (km)	CG (kV)	Max. line length (km)
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					
20000		200	10	0.000-0.000-0.000	0.000	20000	10-20000	100000	10	100
20000				0.000-0.000-0.000	0.000					

\*Typical configuration with 20000V 10-0.000V  
 \*\*Typical configuration with 20000V 10-0.000V 10-0.000V 10-0.000V  
 †Standard voltage configuration

S/N	Model/Description	Part No.	Dimensions (mm)			Weight (kg)	Material	Surface Treatment	Finish	Remarks
			Ø	L	T					
001		001	Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
002			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
003			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
004			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
005			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
006			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
007			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
008			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
009			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
010			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
011		001	Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
012			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
013			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
014			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
015			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
016			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
017			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
018			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
019			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001
020			Ø100	100	10	0.1	Aluminum	Anodized	Mat	001








# Application groups M, L, P

Type	Screw configuration 	Min. L mm	Permitted hole distances <sup>1)</sup> Application groups			Nominal diameter	Spaced diameter	Range of radius	min. trans. space <sup>2)</sup>	Min. capacity approx. <sup>3)</sup>	Min. pitch <sup>4)</sup> approx. <sup>5)</sup>		
			M	L	P								
SM 20x4		20			1000	3.00	1.00	1.2	10	50			
						3.00	2.00						
						3.00	2.00						
SM 20x4.5							1000					3.00	1.00
												3.00	1.50
												3.00	1.50
SM 20x5							1000					3.00	1.00
												3.00	1.50
												3.00	1.50
SM 20x5.5							1000					3.00	1.00
												3.00	1.50
												3.00	1.50
SM 20x6					1000	3.00	1.00						
						3.00	1.50						
						3.00	1.50						
SM 20x7					1000	3.00	1.00						
						3.00	1.50						
						3.00	1.50						
SM 20x8					1000	3.00	1.00						
						3.00	1.50						
						3.00	1.50						



# Application groups M, L, P

Type	Geometric configuration 	Dim. d (mm)	Permissible load (N/mm <sup>2</sup> ) Application group			Standard value	Special value	Range of values	min./max. spacing (mm)	SW capacity approx. (kN)	Max. steel stress (kg)
			M	L	P						
SW 400-1		8	0.400	0.400	0.400	2.70		1.2 no 4.7	10.0/100	75	400
			0.400	0.400	0.375	4.10					
			0.500	0.500	0.475	5.60					
			0.500	0.500	0.475	5.90					
						6.90					
						7.50					
						8.10					
						8.70					
						9.30					
						9.90					
SW 400		8	0.700	0.700	0.675	2.70		1.2 no 2.0	10.0/100	75	400
						4.00					
			0.800	0.800	0.775	5.60					
						6.00					
			1.000	1.000	0.975	8.10					
						8.50					
			1.200	1.200	1.175	10.60					
						11.00					
SW 400-1		8	0.500	-	-	4.00	1.00	no no	10.0/100	75	140
						5.00	1.20				
SW 400-1		8	-	0.500	-	4.00	1.00	no no	10.0/100	75	140
						5.00	1.20				





# Application groups M, L

Order	Technical description	Order code	Dimensions (mm)	Weight (kg)	Volume (m³)	Price (€)	Lead time (days)	Min. order (m³)	Min. order (kg)
010 1000 010 1000 L 010 1000 010 1000 L		010	1000 1000	1.000	1.000	2.1	-	10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
		010	1000 1000	1.000	1.000	2.1		10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
010 1000 010 1000 L 010 1000 010 1000 L		010	1000 1000	1.000	1.000	2.1	-	10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
		010	1000 1000	1.000	1.000	2.1		10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
010 1000 010 1000 L 010 1000 010 1000 L		010	1000 1000	1.000	1.000	2.1	-	10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
		010	1000 1000	1.000	1.000	2.1		10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
010 1000 010 1000 L 010 1000 010 1000 L		010	1000 1000	1.000	1.000	2.1	-	10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
		010	1000 1000	1.000	1.000	2.1		10	1000
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				
			1000 1000	1.000	1.000				

# Application group L





Year	Model	Year of construction	Power generation (kWh/year)	Standard power (kW)	Standard price (€)	Age of plant	Net capacity (kW)	Net capacity (kW)	Net capacity (kW)
2007-2008		100	1.000		1000	10	1000	10	1000
			1.000	1.000					
			1.000		1000				
			1.000		1000				
			1.000		1000				
			1.000	1.000					
2009-2010		100	1.000		1000	10	1000	10	1000
			1.000	1.000					
			1.000		1000				
			1.000		1000				
			1.000		1000				
			1.000	1.000					
2011-2012		100	1.000		1000	10	1000	10	1000
			1.000	1.000					
			1.000		1000				
			1.000		1000				
			1.000		1000				
			1.000	1.000					
2013-2014		100	1.000		1000	10	1000	10	1000
			1.000	1.000					
			1.000		1000				
			1.000		1000				
			1.000		1000				
			1.000	1.000					
2015-2016		100	1.000		1000	10	1000	10	1000
			1.000	1.000					
			1.000		1000				
			1.000		1000				
			1.000		1000				
			1.000	1.000					

## Application group C

Model	Control configuration	Motor size	IP	Control speed range [rpm/min]	Standard speed range	Standard torque	Range of torque	Max. torque [Nm]	Max. torque [kgm]	Max. torque [kg]
MPC 100-1		0.1	IP	0.001	0.001	0.010	10	100000	0.1	10
				0.002	0.002					
				0.005	0.005					
MPC 100-2		0.2	IP	0.001	0.001	0.020	10	100000	0.2	20
				0.002	0.002					
				0.005	0.005					
MPC 100-3		0.4	IP	0.001	0.001	0.040	10	100000	0.4	40
				0.002	0.002					
				0.005	0.005					
MPC 100-4		0.75	IP	0.001	0.001	0.075	10	100000	0.75	75
				0.002	0.002					
				0.005	0.005					
MPC 100-5		1.5	IP	0.001	0.001	0.150	10	100000	1.5	150
				0.002	0.002					
				0.005	0.005					
MPC 100-6		3.0	IP	0.001	0.001	0.300	10	100000	3.0	300
				0.002	0.002					
				0.005	0.005					
MPC 100-7		6.0	IP	0.001	0.001	0.600	10	100000	6.0	600
				0.002	0.002					
				0.005	0.005					
MPC 100-8		12.0	IP	0.001	0.001	1.200	10	100000	12.0	1200
				0.002	0.002					
				0.005	0.005					




# Application group C

Type	Technical description	Flow rate (m³/h)	Number of pumps (parallel)	Max. head (m)	Max. flow (m³/h)	Max. power (kW)	Max. total head (m)	Max. total flow (m³/h)	Max. total power (kW)
WPH 100		100	1	0.000	0.0	0.0	100	100	0
WPH 100A				0.000	0.000	0.000			
WPH 100B				0.000	0.000	0.000			
WPH 150		150	1	0.000	0.000	0.000	150	150	0
WPH 150A				0.000	0.000	0.000			
WPH 150B				0.000	0.000	0.000			
WPH 200		200	1	0.000	0.000	0.000	200	200	0
WPH 200A				0.000	0.000	0.000			
WPH 200B				0.000	0.000	0.000			
WPH 250		250	1	0.000	0.000	0.000	250	250	0
WPH 250A				0.000	0.000	0.000			
WPH 250B				0.000	0.000	0.000			

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Sl. No.	Name of the Candidate	Roll No.	Grade	Theory			Practical	Total	Grade	Remarks
				Mark	Out of	Percentage				
1	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
2				10	10	100				
3	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
4				10	10	100				
5	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
6				10	10	100				
7	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
8				10	10	100				
9	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
10				10	10	100				
11	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
12				10	10	100				
13	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
14				10	10	100				
15	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
16				10	10	100				
17	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
18				10	10	100				
19	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
20				10	10	100				
21	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
22				10	10	100				
23	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
24				10	10	100				
25	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
26				10	10	100				
27	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
28				10	10	100				
29	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
30				10	10	100				
31	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
32				10	10	100				
33	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
34				10	10	100				
35	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
36				10	10	100				
37	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
38				10	10	100				
39	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
40				10	10	100				
41	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
42				10	10	100				
43	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
44				10	10	100				
45	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
46				10	10	100				
47	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
48				10	10	100				
49	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
50				10	10	100				
51	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
52				10	10	100				
53	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
54				10	10	100				
55	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
56				10	10	100				
57	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
58				10	10	100				
59	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
60				10	10	100				
61	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
62				10	10	100				
63	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
64				10	10	100				
65	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
66				10	10	100				
67	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
68				10	10	100				
69	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
70				10	10	100				
71	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
72				10	10	100				
73	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
74				10	10	100				
75	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
76				10	10	100				
77	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
78				10	10	100				
79	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
80				10	10	100				
81	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
82				10	10	100				
83	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
84				10	10	100				
85	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
86				10	10	100				
87	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
88				10	10	100				
89	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
90				10	10	100				
91	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
92				10	10	100				
93	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
94				10	10	100				
95	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
96				10	10	100				
97	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
98				10	10	100				
99	[Diagram]	[Blank]	[Blank]	10	10	100	10	100	[Blank]	
100				10	10	100				

# Application group C

Order	Product description	Max. length	Order length (mm)	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code	Ordering code
001-001		100	100	0010	0010	0010	0010	0010	0010	0010
001-002					0010	0010	0010			
001-003					0010	0010	0010			
001-004					0010	0010	0010			
001-005					0010	0010	0010			
001-006					0010	0010	0010			
001-007					0010	0010	0010			
001-008					0010	0010	0010			
001-009					0010	0010	0010			
001-010					0010	0010	0010			

Item	Description	Unit	Price/Unit	Quantity	Total Price	Price %	Est./Spec. Ref.	Est. Quantity	Est. Total Price
ITEM 2001		EA	0.000	1.000	0.000	0.0	0.0000	75	0.000
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
ITEM 2002		EA	0.000	1.000	0.000	0.0	0.0000	75	0.000
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			
			0.000	1.000	0.000	0.0			

