

# Worms & Wheels

## Materials

### 1.25 MOD, 3.927mm Pitch

STD : Phosphor Bronze PB2  
and Steel 214M15 / 655M13



20° Pressure Angle

**LEAD ANGLE**  
**RIGHT HAND**  
**STANDARD**

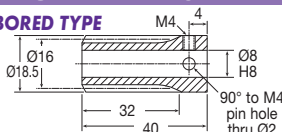
#### DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

### Worm

### STEEL 214 M15 - EN202

#### BORED TYPE

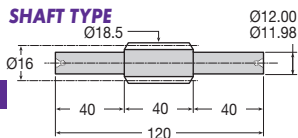


#### 214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W1.25-1	£19.33	1	4°28'	WH1.25-1	£27.53
W1.25-2	£20.42	2	8°53'	WH1.25-2	£29.05
W1.25-3	£22.44	3	13°11'	WH1.25-3	£31.90
W1.25-4	£23.43	4	17°21'	WH1.25-4	£33.31

#### 214M15 - EN202 HARDENED

#### SHAFT TYPE



#### 214M15 - EN202 UNHARDENED

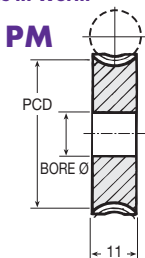
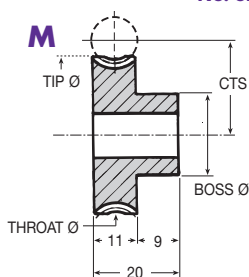
PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW1.25-1	£35.70	1	4°28'	SWH1.25-1	£50.68
SW1.25-2	£36.67	2	8°53'	SWH1.25-2	£52.10
SW1.25-3	£39.18	3	13°11'	SWH1.25-3	£55.57
SW1.25-4	£39.72	4	17°21'	SWH1.25-4	£56.45

#### 655M13 - EN36 HARDENED

### Wheel

### PHOSPHOR BRONZE - PB2

**REDUCTION RATIO = No. of Teeth in Wheel**  
**= No. of Starts in Worm**



**Double Bossed Wheels Available @ Price x 1.4**

Worms & Steel MOD 1.25

Worms & Wheels Bronze

15.18



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

**Wheels - PHOSPHOR BRONZE PB2****1.25 MOD****LEAD ANGLE RIGHT HAND STANDARD****Number of Teeth between 12 - 148**  
**See Technical Section**

<b>TORQUE CHECK</b> variations at back	<b>50 TEETH x 1000 R.P.M. INPUT</b>	
	WITH STD WORM	WITH HARD WORM
<b>TORQUE Nm</b>	11.41	20.25
<b>K.W.</b>	0.024	0.042

**Note: When ordering Wheel, the number of starts on the mating Worm must be specified.**

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M1.25-12	12	15.00	15.50	17.50	18.75	14	8	£21.10	£15.82
M1.25-15	15	18.75	17.38	21.25	22.50	14	8	£22.21	£16.49
M1.25-16	16	20.00	18.00	22.50	23.75	14	8	£22.99	£16.99
M1.25-18	18	22.50	19.25	25.00	26.25	20	10	£23.89	£17.62
M1.25-20	20	25.00	20.50	27.50	28.75	20	10	£24.37	£18.23
M1.25-22	22	27.50	21.75	30.00	31.25	20	10	£26.54	£19.29
M1.25-24	24	30.00	23.00	32.50	33.75	20	10	£27.39	£19.85
M1.25-25	25	31.25	23.63	33.75	35.00	20	10	£28.15	£20.42
M1.25-28	28	35.00	25.50	37.50	38.75	25	10	£29.16	£21.06
M1.25-30	30	37.50	26.75	40.00	41.25	25	10	£30.44	£21.91
M1.25-32	32	40.00	28.00	42.50	43.75	25	10	£32.02	£22.85
M1.25-34	34	42.50	29.25	45.00	46.25	25	10	£34.56	£23.30
M1.25-35	35	43.75	29.88	46.25	47.50	25	10	£36.97	£23.93
M1.25-38	38	47.50	31.75	50.00	51.25	25	10	£39.38	£25.59
M1.25-40	40	50.00	33.00	52.50	53.75	25	10	£40.17	£27.68
M1.25-42	42	52.50	34.25	55.00	56.25	25	10	£44.27	£29.85
M1.25-44	44	55.00	35.50	57.50	58.75	25	10	£47.09	£32.70
M1.25-45	45	56.25	36.13	58.75	60.00	25	10	£50.45	£33.90
M1.25-48	48	60.00	38.00	62.50	63.75	25	10	£56.25	£37.68
M1.25-50	50	62.50	39.25	65.00	66.25	25	10	£60.45	£41.45
M1.25-52	52	65.00	40.50	67.50	68.75	32	12	£64.84	£43.97
M1.25-54	54	67.50	41.75	70.00	71.25	32	12	£70.28	£47.29
M1.25-55	55	68.75	42.38	71.25	72.50	32	12	£71.49	£48.61
M1.25-58	58	72.50	44.25	75.00	76.25	32	12	£79.43	£53.19
M1.25-60	60	75.00	45.50	77.50	78.75	32	12	£83.86	£56.88
M1.25-62	62	77.50	46.75	80.00	81.25	32	12	£88.73	£60.36
M1.25-64	64	80.00	48.00	82.50	83.75	32	12	£94.23	£63.76
M1.25-65	65	81.25	48.63	83.75	85.00	32	12	£96.98	£65.74
M1.25-68	68	85.00	50.50	87.50	88.75	32	12	£105.31	£71.44
M1.25-70	70	87.50	51.75	90.00	91.25	32	12	£111.02	£75.34
M1.25-72	72	90.00	53.00	92.50	93.75	32	12	£116.95	£78.73
M1.25-74	74	92.50	54.25	95.00	96.25	32	12	£123.00	£84.62
M1.25-75	75	93.75	54.88	96.25	97.50	32	12	£126.26	£86.09
M1.25-78	78	97.50	56.75	100.00	101.25	32	12	£135.53	£91.92
M1.25-80	80	100.00	58.00	102.50	103.75	32	12	£142.04	£97.14
M1.25-82	82	102.50	59.25	105.00	106.25	32	12	£149.08	£101.07
M1.25-85	85	106.25	61.13	108.75	110.00	32	12	£158.28	£107.82
M1.25-88	88	110.00	63.00	112.50	113.75	32	12	£169.56	£115.04
M1.25-90	90	112.50	64.25	115.00	116.25	32	12	£176.81	£119.92
M1.25-95	95	118.75	67.38	121.25	122.50	50	12	£195.64	£132.69
M1.25-98	98	122.50	69.25	125.00	126.25	50	12	£207.42	£140.60
M1.25-100	100	125.00	70.50	127.50	128.75	50	12	£215.45	£146.18
M1.25-110	110	137.50	76.75	140.00	141.25	50	12	£259.15	£174.74
M1.25-120	120	150.00	83.00	152.50	153.75	50	12	£304.03	£206.33
M1.25-148	148	185.00	100.50	187.50	188.75	50	15	£404.43	£343.73

**Worms & Wheels Bronze & Steel****MOD 1.25**

# Worms & Wheels

## Materials

### 1.25 MOD, 3.927mm Pitch

STD : Delrin  
Machined Parts



20° Pressure Angle

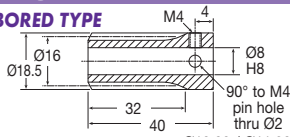
**LEAD ANGLE  
RIGHT HAND  
STANDARD**

### DISCOUNTS

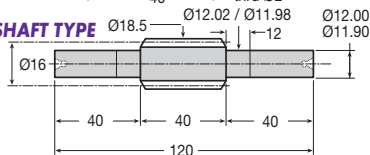
Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

## Worm DELRIN - Machined Parts

### BORED TYPE



### SHAFT TYPE



### PLASTIC

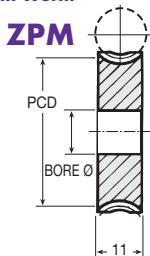
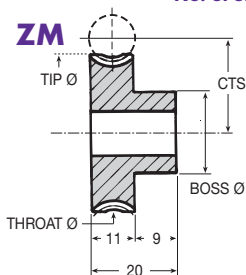
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW1.25-1	1	4°28'	£13.64
ZW1.25-2	2	8°53'	£14.35
ZW1.25-3	3	13°11'	£15.77
ZW1.25-4	4	17°21'	£16.46

### PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW1.25-1	1	4°28'	£25.11
ZSW1.25-2	2	8°53'	£25.79
ZSW1.25-3	3	13°11'	£26.00
ZSW1.25-4	4	17°21'	£26.12

## Wheel DELRIN - Machined Parts

**REDUCTION RATIO** =  $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



**Double  
Bossed  
Wheels  
Available @  
Price x 1.4**

15.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

## LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
<b>TORQUE Nm</b>	2.75	7.02
<b>K.W.</b>	0.006	0.015

Number of Teeth between **12 - 148**  
See **Technical Section**

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM1.25-12	12	15.00	15.50	17.50	18.75	14	8	£10.62	£8.12	
ZM1.25-15	15	18.75	17.38	21.25	22.50	14	8	£11.15	£8.51	
ZM1.25-16	16	20.00	18.00	22.50	23.75	14	8	£11.51	£8.84	
ZM1.25-18	18	22.50	19.25	25.00	26.25	20	10	£12.04	£9.20	
ZM1.25-20	20	25.00	20.50	27.50	28.75	20	10	£12.44	£9.55	
ZM1.25-22	22	27.50	21.75	30.00	31.25	20	10	£13.31	£10.19	
ZM1.25-24	24	30.00	23.00	32.50	33.75	20	10	£15.14	£11.59	
ZM1.25-25	25	31.25	23.63	33.75	35.00	20	10	£15.55	£11.89	
ZM1.25-28	28	35.00	25.50	37.50	38.75	25	10	£16.13	£12.39	
ZM1.25-30	30	37.50	26.75	40.00	41.25	25	10	£16.81	£12.84	
ZM1.25-32	32	40.00	28.00	42.50	43.75	25	10	£20.15	£15.47	
ZM1.25-34	34	42.50	29.25	45.00	46.25	25	10	£21.74	£16.68	
ZM1.25-35	35	43.75	29.88	46.25	47.50	25	10	£23.24	£17.81	
ZM1.25-38	38	47.50	31.75	50.00	51.25	25	10	£24.78	£19.00	
ZM1.25-40	40	50.00	33.00	52.50	53.75	25	10	£25.30	£19.36	
ZM1.25-42	42	52.50	34.25	55.00	56.25	25	10	£27.86	£21.32	
ZM1.25-44	44	55.00	35.50	57.50	58.75	25	10	£29.65	£22.74	
ZM1.25-45	45	56.25	36.13	58.75	60.00	25	10	£31.77	£24.32	
ZM1.25-48	48	60.00	38.00	62.50	63.75	25	10	£35.44	£27.21	
ZM1.25-50	50	62.50	39.25	65.00	66.25	25	10	£38.08	£29.16	
ZM1.25-52	52	65.00	40.50	67.50	68.75	32	12	£40.84	£31.32	
ZM1.25-54	54	67.50	41.75	70.00	71.25	32	12	£44.28	£33.97	
ZM1.25-55	55	68.75	42.38	71.25	72.50	32	12	£45.01	£34.51	
ZM1.25-58	58	72.50	44.25	75.00	76.25	32	12	£50.02	£38.35	
ZM1.25-60	60	75.00	45.50	77.50	78.75	32	12	£52.82	£40.50	
ZM1.25-62	62	77.50	46.75	80.00	81.25	32	12	£55.84	£42.89	
ZM1.25-64	64	80.00	48.00	82.50	83.75	32	12	£59.35	£45.51	
ZM1.25-65	65	81.25	48.63	83.75	85.00	32	12	£61.09	£46.84	
ZM1.25-68	68	85.00	50.50	87.50	88.75	32	12	£66.32	£50.89	
ZM1.25-70	70	87.50	51.75	90.00	91.25	32	12	£69.92	£53.65	
ZM1.25-72	72	90.00	53.00	92.50	93.75	32	12	£73.64	£56.53	
ZM1.25-74	74	92.50	54.25	95.00	96.25	32	12	£77.48	£59.40	
ZM1.25-75	75	93.75	54.88	96.25	97.50	32	12	£79.53	£61.07	
ZM1.25-78	78	97.50	56.75	100.00	101.25	32	12	£85.36	£65.53	
ZM1.25-80	80	100.00	58.00	102.50	103.75	32	12	£89.47	£68.67	
ZM1.25-82	82	102.50	59.25	105.00	106.25	32	12	£93.93	£72.05	
ZM1.25-85	85	106.25	61.13	108.75	110.00	32	12	£99.71	£76.51	
ZM1.25-88	88	110.00	63.00	112.50	113.75	32	12	£106.86	£81.96	
ZM1.25-90	90	112.50	64.25	115.00	116.25	32	12	£111.62	£85.62	
ZM1.25-95	95	118.75	67.38	121.25	122.50	50	12	£123.30	£94.57	
ZM1.25-98	98	122.50	69.25	125.00	126.25	50	12	£130.69	£100.30	
ZM1.25-100	100	125.00	70.50	127.50	128.75	50	12	£135.75	£104.18	
ZM1.25-110	110	137.50	76.75	140.00	141.25	50	12	£163.30	£125.26	
ZM1.25-120	120	150.00	83.00	152.50	153.75	50	12	£191.60	£147.01	
ZM1.25-148	148	185.00	100.50	187.50	188.75	50	15	£254.83	£216.58	

