

# Worms & Wheels

Materials

3 MOD, 9.425mm Pitch

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



20° Pressure Angle

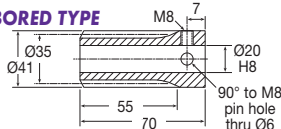
LEAD ANGLE  
RIGHT HAND  
STANDARD

### DISCOUNTS

Quantity	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

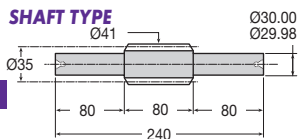


### 214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W3-1	£70.23	1	4°54'	WH3-1	£90.14
W3-2	£72.58	2	9°44'	WH3-2	£92.49
W3-3	£74.70	3	14°25'	WH3-3	£97.15
W3-4	£77.63	4	18°55'	WH3-4	£101.08

### 214M15 - EN202 HARDENED

### SHAFT TYPE



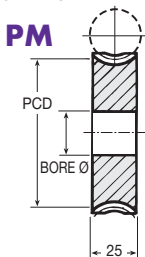
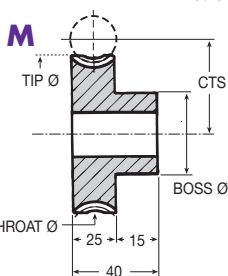
### 214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW3-1	£100.46	1	4°54'	SWH3-1	£131.81
SW3-2	£106.68	2	9°44'	SWH3-2	£133.69
SW3-3	£111.15	3	14°25'	SWH3-3	£135.85
SW3-4	£115.52	4	18°55'	SWH3-4	£142.62

### 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

15.34



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

Worms & Wheels Bronze & Steel MOD 3

**LEAD ANGLE RIGHT HAND STANDARD**

**Number of Teeth between 15 - 80**  
*See Technical Section*

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
<b>TORQUE Nm</b>	139	200
<b>K.W.</b>	0.291	0.422

*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
M3-15	15	45	40.00	51	54	35	15	£69.49	£48.61
M3-20	20	60	47.50	66	69	50	25	£87.79	£61.46
M3-25	25	75	55.00	81	84	60	25	£105.72	£73.94
M3-30	30	90	62.50	96	99	60	25	£152.21	£106.53
M3-35	35	105	70.00	111	114	60	25	£207.22	£145.00
M3-40	40	120	77.50	126	129	60	25	£270.67	£189.43
M3-45	45	135	85.00	141	144	60	25	£342.63	£239.81
M3-50	50	150	92.50	156	159	60	25	£422.98	£296.09
M3-55	55	165	100.00	171	174	60	25	£511.83	£358.29
M3-60	60	180	107.50	186	189	60	25	£609.19	£426.42
M3-65	65	195	115.00	201	204	60	25	£714.95	£500.42
M3-70	70	210	122.50	216	219	60	25	£829.17	£580.39
M3-75	75	225	130.00	231	234	60	25	£951.91	£666.31
M3-80	80	240	137.50	246	249	60	25	£1083.07	£758.12

*'Never Knowingly Outpriced'*



# Worms & Wheels

## 3 MOD, 9.425mm Pitch

### Materials

STD : Delrin  
Machined Parts



20° Pressure Angle

**LEAD ANGLE  
RIGHT HAND  
STANDARD**

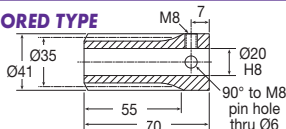
### DISCOUNTS

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

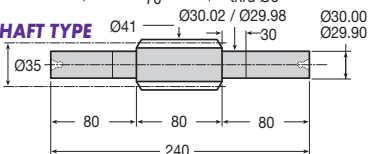
### Worm

### DELIN - Machined Parts

#### BORED TYPE



#### SHAFT TYPE



#### PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW3-1	1	4°54'	£55.60
ZW3-2	2	9°44'	£57.25
ZW3-3	3	14°25'	£58.83
ZW3-4	4	18°55'	£60.91

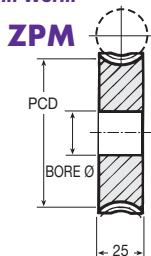
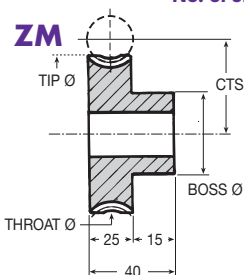
#### PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW3-1	1	4°54'	£77.31
ZSW3-2	2	9°44'	£80.18
ZSW3-3	3	14°25'	£83.44
ZSW3-4	4	18°55'	£86.62

### Wheel

### DELIN - 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**

MOD 3  
Worms & Wheels Plastic

15.36



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### 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>	27	69
<b>K.W.</b>	0.058	0.145

**Number of Teeth between 15 - 80**  
*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
ZM3-15	15	45	40.00	51	54	30	25	£50.02	£34.97
ZM3-20	20	60	47.50	66	69	50	25	£63.14	£44.16
ZM3-25	25	75	55.00	81	84	60	25	£76.08	£53.17
ZM3-30	30	90	62.50	96	99	60	25	£109.57	£76.66
ZM3-35	35	105	70.00	111	114	60	25	£149.18	£104.39
ZM3-40	40	120	77.50	126	129	60	25	£194.87	£136.35
ZM3-45	45	135	85.00	141	144	60	25	£246.68	£172.63
ZM3-50	50	150	92.50	156	159	60	25	£304.52	£213.14
ZM3-55	55	165	100.00	171	174	60	25	£368.54	£257.93
ZM3-60	60	180	107.50	186	189	60	25	£438.61	£306.95
ZM3-65	65	195	115.00	201	204	60	25	£514.73	£360.28
ZM3-70	70	210	122.50	216	219	60	25	£597.01	£417.84
ZM3-75	75	225	130.00	231	234	60	25	£685.36	£479.72
ZM3-80	80	240	137.50	246	249	60	25	£779.79	£545.82

*'Never Knowingly Outpriced'*

