

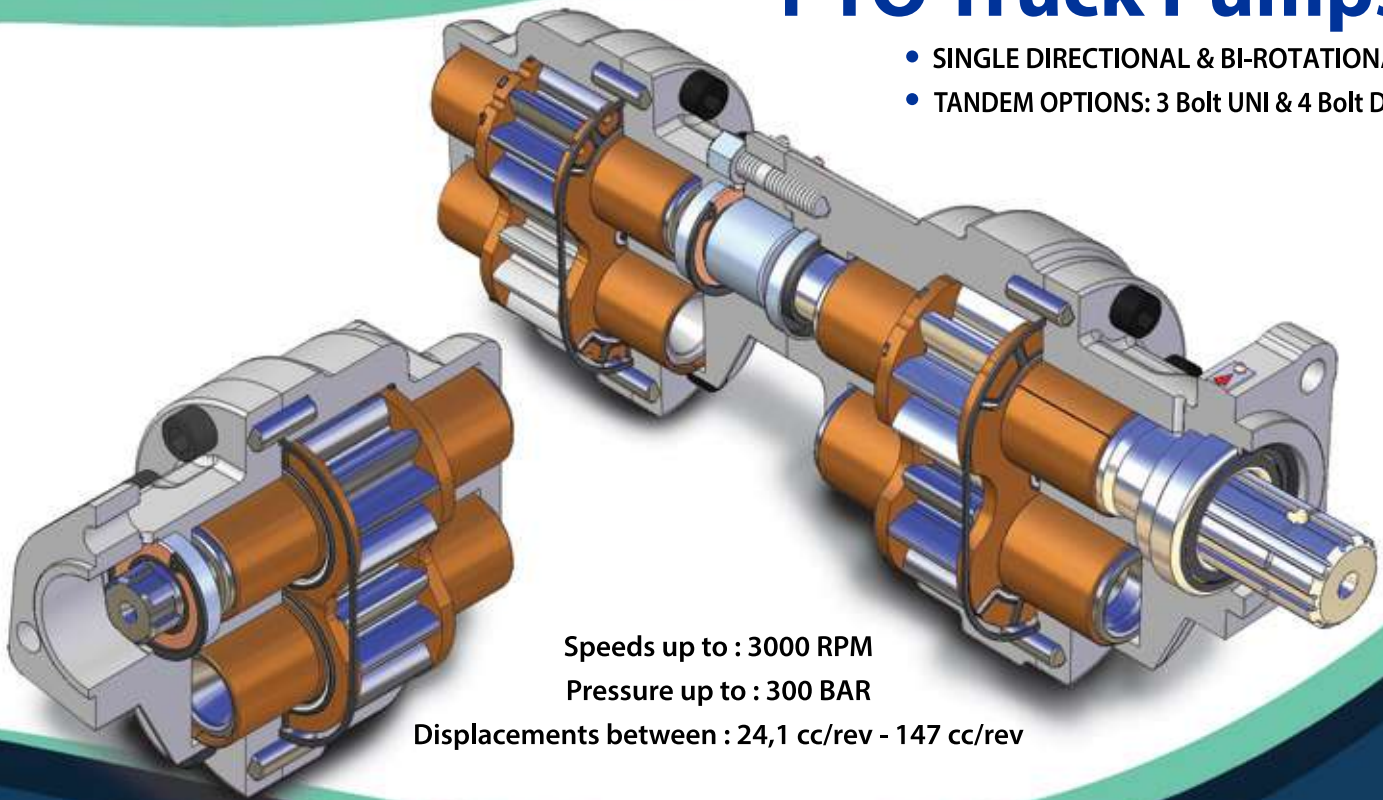


**GEAR PUMP MANUFACTURING**

**Getting the World into Gear**

## **PTO Truck Pumps**

- SINGLE DIRECTIONAL & BI-ROTATIONAL
- TANDEM OPTIONS: 3 Bolt UNI & 4 Bolt DIN



Speeds up to : 3000 RPM

Pressure up to : 300 BAR

Displacements between : 24,1 cc/rev - 147 cc/rev



# PTO GEAR PUMP RANGE

## Pump Specifications

SINGLE PUMP

Manufactured in South Africa

TANDEM PUMP

### GP3

SINGLE & BI PUMPS

	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Pressure ( bar )	Max Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
<b>024 / 024 BI</b>	24.10	24.10	1.48	300	4300	3000	9.20
<b>032 / 032 BI</b>	32.20	32.20	1.97	300	4300	3000	9.75
<b>040 / 040 BI</b>	40.30	40.30	2.46	300	4300	3000	10.00
<b>048 / 048 BI</b>	48.30	48.30	2.96	300	4300	3000	10.65
<b>052 / 052 BI</b>	52.10	52.10	3.19	300	4300	2400	11.25
<b>062 / 062 BI</b>	62.60	62.60	3.82	300	4300	2400	11.85
<b>073 / 073 BI</b>	73.50	73.50	4.49	270	3900	2400	15.00
<b>080 / 080 BI</b>	80.60	80.60	4.92	270	3900	2400	15.15
<b>088 / 088 BI</b>	88.00	88.00	5.37	270	3900	2400	15.25
<b>102 -</b>	102.00	102.00	6.22	240	3500	2400	15.90
<b>118 -</b>	118.00	118.00	7.20	240	3500	2400	16.25
<b>132 -</b>	132.60	132.60	8.09	220	3200	2400	16.30
<b>147 -</b>	147.00	147.00	8.97	200	3000	2400	17.30

### GP3T

TANDEM PUMP

	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Pressure ( bar )	Max Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
<b>052</b>	52.10	52.10	3.19	300	4300	2400	12.90
<b>062</b>	62.60	62.60	3.82	300	4300	2400	13.65
<b>073</b>	73.50	73.50	4.49	270	3900	2400	16.10
<b>080</b>	80.60	80.60	4.92	270	3900	2400	16.55
<b>088</b>	88.00	88.00	5.37	270	3900	2400	16.80

THE ABOVE DATA ARE AVERAGE RESULTS BASED ON A SERIES OF TESTS AND ARE NOT NECESSARILY REPRESENTATIVE OF ANY SINGLE UNIT. GEAR PUMP MANUFACTURING RESERVES THE RIGHT TO AMEND THE TECHNICAL DATA WITHOUT NOTICE.

#### SINGLE PUMP ORDER CODES - EXAMPLE:

<b>GP3</b>	<b>- 080 -</b>	<b>D</b>	<b>- R</b>
SERIES	SIZE	MOUNT	ROTATION
	024 032 040 048 052 062 073 080 088 102 118 132 147	<b>D</b> (DIN 4 bolt) <b>U</b> (UNI 3 bolt) <b>S</b> (SAE B 2 bolt) <b>A</b> (AUS 4 bolt)	<b>L</b> (Left hand / Counterclockwise) <b>R</b> (Right hand / Clockwise)

#### TANDEM PUMP ORDER CODES - EXAMPLE:

<b>GP3T</b>	<b>- 080 -</b>	<b>032</b>	<b>- D -</b>	<b>R</b>
SERIES	FRONT SIZE	REAR SIZE	MOUNT	ROTATION
	052 062 073 080 088	024 032 040 048 052 062 073 080	<b>D</b> (DIN 4 bolt)	<b>L</b> (Left hand / Counterclockwise) <b>R</b> (Right hand / Clockwise)

Useful Formulae	To Convert	Inches	Bar	Cu in/rev	US GPM	US GPM	kg
	Into	Millimeters	Psi	cc/rev	Cu In/rev	cc/rev	Lbs
	Multiply by	25.4	14.5	16.39	2.31	3.785	2.205

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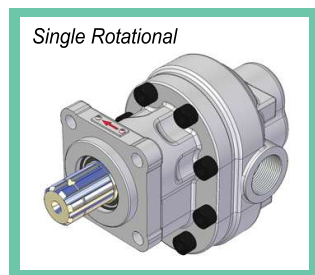
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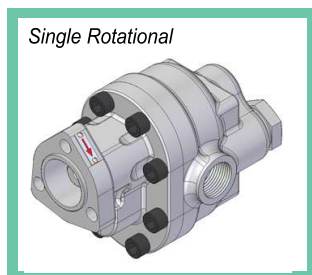


# PTO GEAR PUMP OPTIONS



## DIN

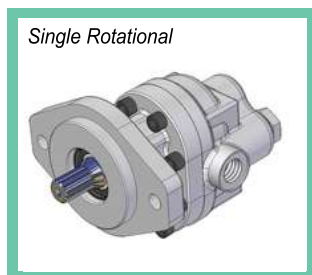
**MOUNT** 4 Holes (80 x 80)  
**PCD** 113,5 mm  
**SPIGOT** 80 mm  
**SHAFT** 8 Spline  
**SHAFT OD** 34,8 mm



## Single Rotational

## UNI

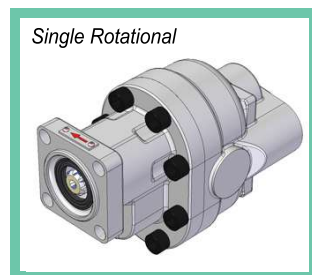
**MOUNT** 3 Holes  
**PCD** 72 mm  
**SPIGOT** 52 mm  
**SHAFT** 6 Spline  
**SHAFT OD** 24,6 mm



## Single Rotational

## SAE

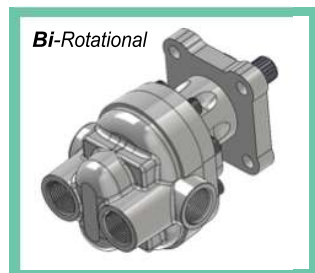
**MOUNT** 2 Holes  
**PCD** 146 mm  
**SPIGOT** 101,6 mm  
**SHAFT** 13 Spline  
**SHAFT OD** 22,2 mm



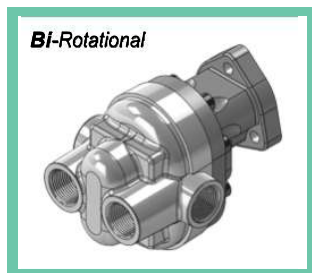
## Single Rotational

## AUS

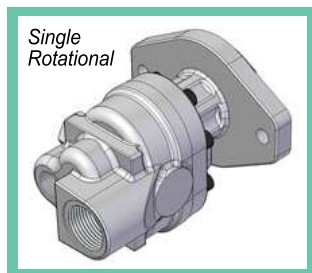
**MOUNT** 4 Holes (58 X 58)  
**PCD** 82,5 mm  
**SPIGOT** 62 mm  
**SHAFT** 8 Spline  
**SHAFT OD** 22 mm



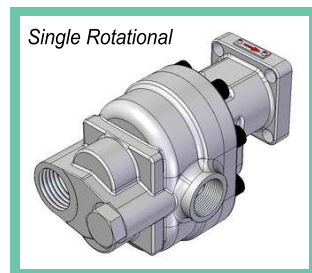
## Bi-Rotational



## Bi-Rotational



## Single Rotational



## Single Rotational

# PORTING SIZES

## SINGLE PUMP PORTING

DIN and UNI					SAE and AUS			
Size	SINGLE Inlet Side	SINGLE Outlet 1 Side	SINGLE Outlet 2 Rear	BI-ROTATIONAL Inlet/Outlet Side + Rear	Size	Inlet Side	Outlet 1 Side	Outlet 2 Rear
GP3-024	1" bsp	3/4" bsp	3/4" bsp	1" bsp	GP3-024	1 1/4" odt	3/4" odt	3/4" odt
GP3-032	1" bsp	3/4" bsp	3/4" bsp	1" bsp	GP3-032	1 1/4" odt	3/4" odt	3/4" odt
GP3-040	1" bsp	3/4" bsp	3/4" bsp	1" bsp	GP3-040	1 1/4" odt	3/4" odt	3/4" odt
GP3-048	1" bsp	3/4" bsp	3/4" bsp	1" bsp	GP3-048	1 1/4" odt	3/4" odt	3/4" odt
GP3-052	1" bsp	1" bsp	1" bsp	1" bsp	GP3-052	1 1/4" odt	3/4" odt	3/4" odt
GP3-062	1" bsp	1" bsp	1" bsp	1" bsp	GP3-062	1 1/4" odt	3/4" odt	3/4" odt
GP3-073	1 1/4" bsp	1" bsp	1" bsp	1 1/4" bsp	GP3-073	1 1/4" odt	3/4" odt	3/4" odt
GP3-080	1 1/4" bsp	1" bsp	1" bsp	1 1/4" bsp	GP3-080	1 1/2" odt	1" odt	1" odt
GP3-088	1 1/4" bsp	1" bsp	1" bsp	1 1/4" bsp	GP3-088	1 1/2" odt	1" odt	1" odt
GP3-102	1 1/4" bsp	1" bsp	1" bsp		GP3-102	1 1/2" odt	1" odt	1" odt
GP3-118	1 1/4" bsp	1" bsp	1" bsp		GP3-118	1 1/2" odt	1" odt	1" odt
GP3-132	1 1/2" bsp	1" bsp	1" bsp		GP3-132	1 1/2" odt	1" odt	1" odt
GP3-147	1 1/2" bsp	1" bsp	1" bsp		GP3-147	1 1/2" odt	1" odt	1" odt

## TANDEM PUMP PORTING

Front Pump			Rear Pump			
Size	Inlet Side	Outlet Rear	Size	Inlet Side	Outlet 1 Side	Outlet 2 Rear
GP3T-052	1" bsp	1" bsp	GP3-024	1" bsp	3/4" bsp	3/4" bsp
GP3T-062	1" bsp	1" bsp	GP3-032	1" bsp	3/4" bsp	3/4" bsp
GP3T-073	1 1/4" bsp	1" bsp	GP3-040	1" bsp	3/4" bsp	3/4" bsp
GP3T-080	1 1/4" bsp	1" bsp	GP3-048	1" bsp	3/4" bsp	3/4" bsp
GP3T-088	1 1/4" bsp	1" bsp	GP3-052	1" bsp	1" bsp	1" bsp
			GP3-062	1" bsp	1" bsp	1" bsp
			GP3-073	1 1/4" bsp	1" bsp	1" bsp
			GP3-080	1 1/4" bsp	1" bsp	1" bsp

Useful Formulae	To Convert	Inches	Bar	Cu in/rev	US GPM	US GPM	kg
	Into	Millimeters	Psi	cc/rev	Cu In/rev	cc/rev	Lbs
	Multiply by	25.4	14.5	16.39	2.31	3.785	2.205

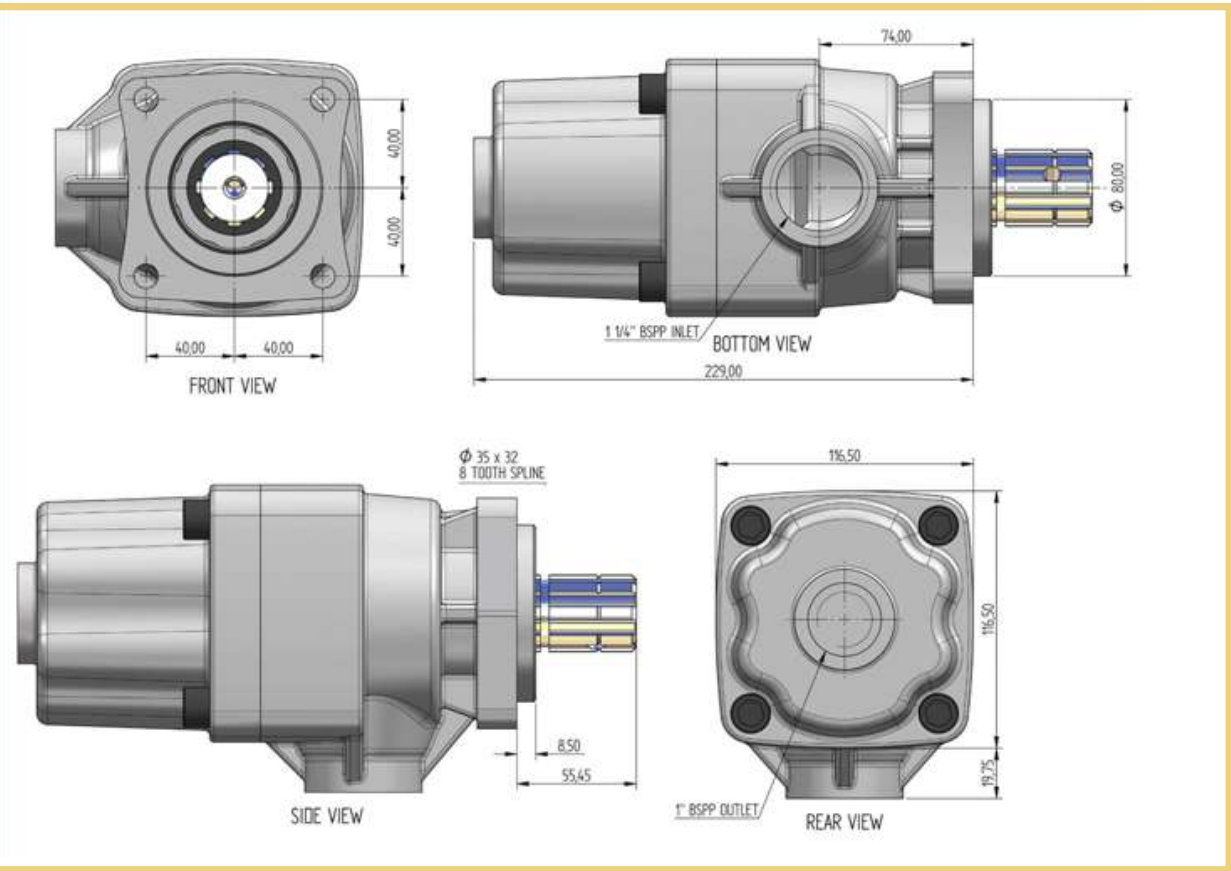
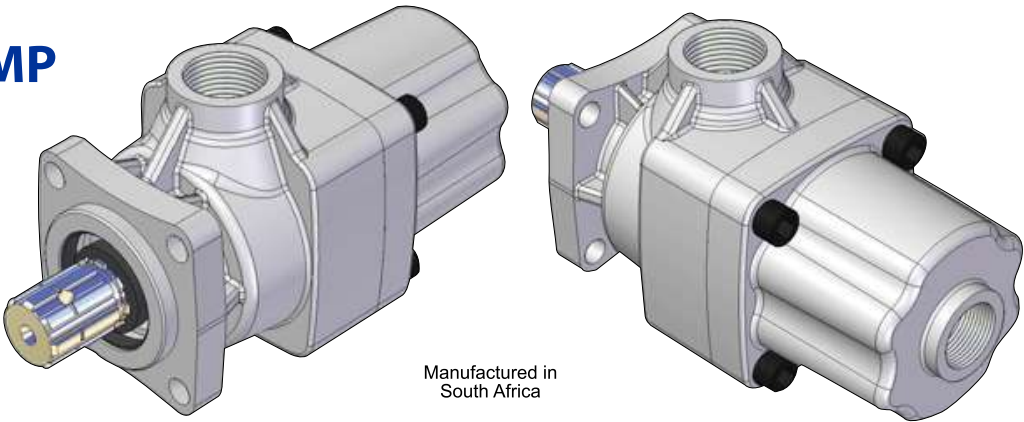
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# PTO PISTON PUMP RANGE

## Pump Specifications



GP4	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Continuous Pressure ( bar )	Max Continuous Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
050	50	50	3.05	350	5000	1800	13.6
060	60	60	3.66	350	5000	1800	13.6
080	80	80	4.92	300	4400	1600	17.0

### PISTON PUMP ORDER CODES - EXAMPLE:

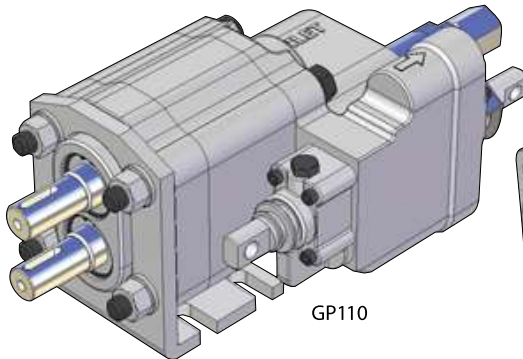
GP4	-	050	-	D	-	B
SERIES		SIZE		MOUNT		ROTATION
		050 060 080		D (DIN 4 bolt)		B (Bi Rotation)

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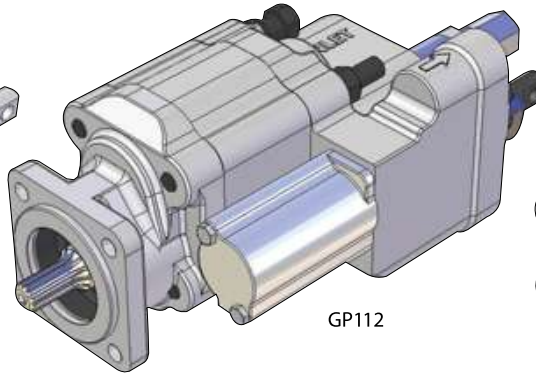
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# PTO DUMP PUMP RANGE

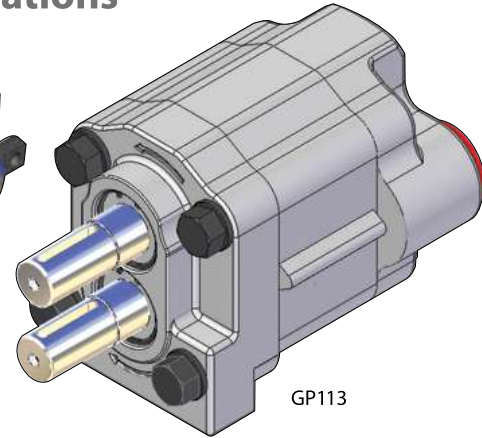
## Pump Specifications



GP110



GP112



GP113

### GP110

	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Pressure ( bar )	Max Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
15	62.60	62.60	3.82	170	2500	2400	27.8
20	83.50	83.50	5.10	153	2250	2400	29.1
22	94.00	94.00	5.74	138	2000	2400	29.8
25	104.40	104.40	6.38	138	2000	2400	30.2

### GP112

	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Pressure ( bar )	Max Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
15	62.60	62.60	3.82	170	2500	2400	29.3
20	83.50	83.50	5.10	153	2250	2400	30.6
22	94.00	94.00	5.74	138	2000	2400	31.3
25	104.40	104.40	6.38	138	2000	2400	31.9

### GP113

	cc/rev	Lpm (at 1000rpm)	cu in (cu in/rev)	Max Pressure ( bar )	Max Pressure ( psi )	Max Speed (rpm)	Pump Weight (kg)
15	62.60	62.60	3.82	205	3000	2400	20.9
20	83.50	83.50	5.10	170	2500	2400	21.5
22	94.00	94.00	5.74	153	2250	2400	22.2
25	104.40	104.40	6.38	153	2250	2400	22.9

#### DUMP PUMP ORDER CODES - EXAMPLE:

GP110	-	25	-	M	-	B
SERIES		SIZE		SHIFT		ROTATION
GP110 GP112 GP113		15 20 22 25		M (Manual) A (Airshift) N (None)		L (Left hand / Counter-clockwise) R (Right hand / Clockwise) B (Bi Rotation)

RELIEF VALVE SET AT  
138 BAR / 2000 PSI FOR  
MODELS GP110 / GP112

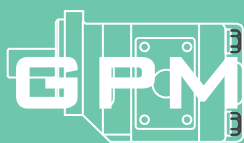
Useful Formulae	To Convert	Inches	Bar	Cu in/rev	US GPM	US GPM	kg
	Into	Millimeters	Psi	cc/rev	Cu In/rev	cc/rev	Lbs
	Multiply by	25.4	14.5	16.39	2.31	3.785	2.205

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