

Submit \$50.00  
Renewal Fee



SECRETARY OF STATE  
Corporation Division  
Business Registry  
255 Capitol Street NE Ste 151  
Salem, OR 97310-1327  
Phone: (503) 986-2228  
Fax: (503) 378-4381

THIS SPACE FOR OFFICE USE ONLY

**FILED**

FEB 8 2012

OREGON  
SECRETARY OF STATE

Registration Number:  
T 14495

**TRADE AND SERVICE MARK APPLICATION FOR RENEWAL**  
**PLEASE TYPE OR PRINT LEGIBLY IN BLACK INK**

1. Correspondent's Mailing Address:

PACIFIC MACHINERY & TOOL STEEL CO  
3445 NW LUZON ST

PORTLAND

OR 97210-1694

2. Applicant's (owner) business address:

PACIFIC MACHINERY & TOOL STEEL CO  
SAME

OR

Renewal date: 3/15/2012

Original file date: 3/15/1982

Trade or Service Mark:

"ARROW-TEN"

P M & T S Co.

JAN 18 2012

RECEIVED

3. Attach a separate page with a drawing or photocopy of the mark as it is actually used. Any change in the mark requires a new registration.

**The mark is still in use in Oregon. To renew the trademark, complete this section.**

4. Class number(s) of goods or services: 106 135

Please change or select new class number(s) from the list on the back of the form. One number set per box.

5. Applicant declares under penalties of perjury that this application is true, correct, and complete.

Signature

1/21/12

Date

6. Person to contact about this registration:

Terry Shum

Name

503-226-7652

Daytime Phone Number

Make checks payable to the Corporation Division. Sub  
Business Registry, 255 Capitol St NE Ste 151, Salem, O

Fees may be paid with a Visa or Mastercard. The card  
on a separate sheet for your protection.



14495

# 1045 COLD FINISHED BARS

## ANSI/SAE 1045 — Medium Carbon

PACIFIC 1045 cold finished bars are medium carbon steel and have strengths above 1018 but below the heat treated alloy grades. 1045 can be heat treated and is often induction hardened for surface strength and wear resistance. PACIFIC 1045 Cold Finished Bars are offered in three quality conditions:

**TURNED & POLISHED** offers medium carbon strength at lowest cost. Manufacturing tolerances are the widest for this condition. It is stocked in popular shafting sizes from 1 15/16" through 6 7/16" diameters.

**ARROW-TEN® PRECISION SHAFTING** is ground and polished to insure tight diameter tolerances and 16 rms maximum surface finish. ARROW-TEN® has been successfully used in many higher rpm, medium load applications such as shafts, spindles and arbors.

**RING GAGE QUALITY** bars offer the qualities of ARROW-TEN® with the added benefit of having been individually ring gaged. This is to insure that bearings will slip over the entire length of the bar with minimal effort.

CHEMICAL COMPOSITION: Heat Analysis—ranges and limits, %				
C	Mn	P	S	
.43/.50	.60/.90	.040 max	.050 max	

### TYPICAL PROPERTIES: Approximate—not for specification

	Tensile, psi	Yield, psi	Elong. %	Hardness	Mach.
*Cold Drawn	91,000	77,000	12%	179HB	56%
*Turned & Polished	82,000	45,000	16%	163HB	56%

\*Turned & Polished bars usually have hot rolled bar mechanical properties. Ground and polished bars have either cold drawn or hot rolled properties.

### PROCESSING TEMPERATURES: Typical

Forge: 2275°F max      Normalize: 1550/1650°F

Harden: 1525/1600°F

SEE PAGE H•7-10 FOR HEAT TREATING INFORMATION

14495

REQUEST OUR PRODUCT BROCHURE ON COLD FINISHED  
ALLOY & CARBON STEEL BARS.

# 1045 COLD FINISHED ROUNDS

CONDITION	COLOR CODE
Turned & Polished ARROW-TEN® G & P Ring Gage Quality	Yellow with Green Stripe Green with Yellow Stripe Silver with Red Stipe

STOCK SIZES				
DIAMETER (INCHES)	CONDITION			WT. PER FT. (LBS.)
	T&P	G&P	RGQ	
1/2		X		0.67
5/8		X		1.04
3/4		X		1.50
7/8		X		2.05
1		X		2.67
1 1/8		X	X	3.38
1 3/8		X		3.77
1 1/2		X		4.18
1 5/8		X		5.05
1 3/4		X		5.52
1 7/8		X		6.01
2		X		7.06
2 1/4		X		7.61
2 1/2		X		8.19
2 3/4		X		10.03
2 1/2		X		10.69
2 5/8		X		12.79
2 3/4		X		13.53
2 7/8		X		15.88
3		X		16.71
3 1/4		X		19.31
3 1/2		X		20.21
3 3/4		X		23.06
3 1/2		X		24.06
3 5/8		X		28.23
4		X		31.58
4 1/4		X		32.74
4 1/2		X		37.59
4 3/4		X		41.44
4 1/2		X		42.77
4 3/4		X		52.63
4 1/2		X		54.13
4 3/4		X		65.16
5		X		66.82
5 1/4		X		79.03
5 1/2		X		80.85
5 3/4		X		94.23
6		X		110.77
6 1/4		X		13.36
6 1/2		X		20.88
6 3/4		X		30.07
6 1/2		X		40.93
6 3/4		X		53.46
6 1/2		X		67.66
6 3/4		X		75.38
6 1/2		X		83.53
6 3/4		X		101.1
6 1/2		X		110.5
6 3/4		X		120.3
6 1/2		X		141.2
6 3/4		X		152.2
6 1/2		X		163.7
6 3/4		X		200.7
6 1/2		X		213.8
6 3/4		X		255.8
6 1/2		X		270.6
6 3/4		X		317.6
6 1/2		X		334.1
6 3/4		X		386.1
6 1/2		X		404.3
6 3/4		X		461.3
6 1/2		X		481.1
6 3/4		X		564.6
6 1/2		X		631.7
6 3/4		X		654.9
6 1/2		X		751.7
6 3/4		X		828.8
6 1/2		X		855.3
6 3/4		X		1,052.7
6 1/2		X		1,082.5
6 3/4		X		1,303.2
6 1/2		X		1,336.4
6 3/4		X		1,580.5
6 1/2		X		1,617.1
6 3/4		X		1,884.6
6 1/2		X		2,215.4

SEE PAGE B•22 & 24 FOR TOLERANCES