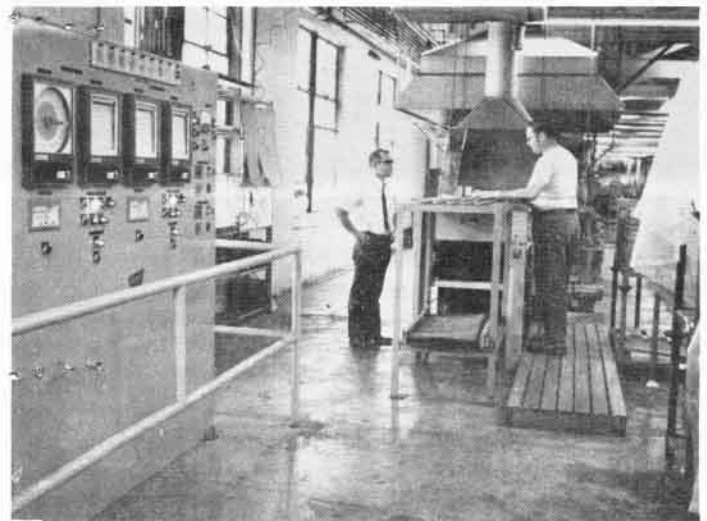
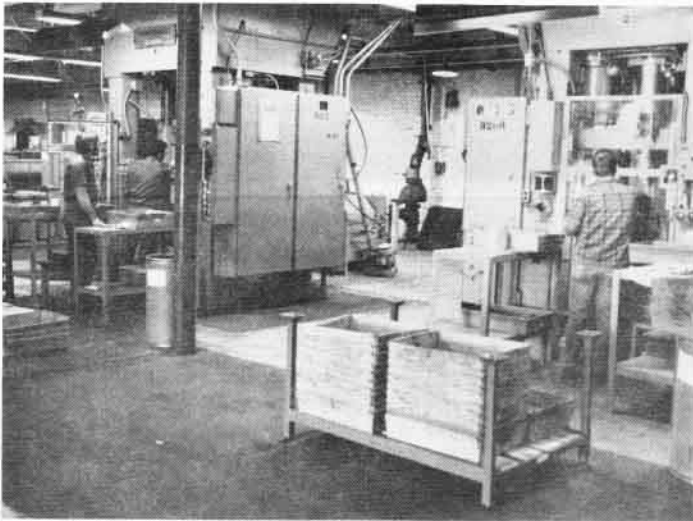


bradley News

Friday, April 23, 1976

THE MAKING OF A TRACTOR PART VII POWDER METAL



Two pictures are used to illustrate the Powder Metal function here. Picture No. 1 shows the two compacting presses where the raw material in powdered form is compacted into a "green" part, a gear that must later be sintered or bonded. In its initial stage, after compacting, it is breakable and not functional. Shown in the picture are Set Up Man, CHARLEY BRINKMAN and Operators, JOHN RAIMONDO and WALT DUPUIS. Picture No. 2 shows the sintering furnaces where the green parts are subjected to heat in excess of 2050 degrees fahrenheit for 30 minutes and then taken to our regular heat treat furnaces. JOE DRESS, Supt. of Powder Metallurgy and DICK LAFOND, Operator, are pictured here.

The story of Powder Metal is a fascinating one and began four years ago with the hiring of JOE DRESS and it took three years to purchase the equipment, over \$1,000,000 worth, and set up the program. Production began a year ago, and, since March 18, 1975, over 400,000 gears have been produced, most of them on the first shift. A second shift was added in February of this year. It is interesting to note that during the layoff of last year, Dept 20 went full blast and has doubled the man power since. Since December of 1975, it has been a six day opera-

FOR SALE: 1974 Yamaha 100 Enduro, 5500 miles. Phone: 426-2276, Charles Brinkman.

FOR SALE: 15' Starcraft Fiberglass Boat with 55 H.P. Chrysler Outboard and Trailer. \$1150 for all three. Call Ext. 235, or 933-2009.

extend sincere sympathy to CLARENCE FERDINAND, D/10 on the death of his mother.

And to LEE ROLF, D/35 on the death of his mother.

Also to JERRY TIMMSEN, D/79 on the tragic death of his four year old daughter who was killed when hit by a car.

tion running two shifts on the presses and three on the furnace. Roper has been a pioneer in Powder Metal usage among all competitors in the garden tractor business. The largest users of Powder are the Auto manufacturers, GM, Ford and Chrysler. We use about seventeen pounds of the raw material in a tractor as compared with about fourteen pounds in a Ford Automobile.

The principal saving to us in using Powder Metal in gears is the elimination of a good deal of the waste occasioned by machining solid steel into the required gear sizes. It also enables us to be much less at the mercy of vendors since the raw powder, basically nickel steel mixed with other ingredients to our specifications, is readily available from our supplier HOEGANAES CORP. of New Jersey who according to MR. DRESS, have been extremely cooperative and helpful. We are able to supply 80% of our needs right here and purchase 20% Powder Metal parts from other suppliers.

In addition to what we are already doing in this field MR. DRESS plans through additional tooling to produce parts for the new SSI TRACTOR, as well as spaders and the three point hitch.

PREPARATION FOR THE FUTURE

The highly successful seminar on Pre-Retirement was concluded a week ago and the group of over fifty employees and their wives who attended the four sessions seemed to feel it was very worthwhile.

The last program was on the subject of Consumer Fraud and was conducted by Howard Kaufman, Chief of the Consumer Fraud Division for the Attorney General's Office, State of Illinois. Mr. Kaufman informed the group of the many services available through his office. The nearest office of the Consumer Fraud Division is at Joliet, Illinois where the phone number is 815-727-5371 and the person in charge at that location is Susan Pierson DeWitt.



OLD TIMER OF THE WEEK

This week we honor ORVILLE PALMER of Dispatching who first came to work at Bradley on April 17, 1944. At the time he was twenty years old and had already worked at Florence Stove, Elwood Ordinance and a local roofing firm. His first job here was in Repair Parts, but all but the first three years have been on the Office Payroll. He has worked in the Photo Lab, Material Control, Receiving, and for the past thirteen years has been Dispatcher in Receiving.

ORVILLE and his wife, Roberta, have been married eight years and have a six year old son, John, who is a first grader at Washington School in Kankakee. He also has a twenty three year old stepson, Larry.

This Old Timer's principal hobby, which is also a side job, is tinkering with tools and making repairs in his home workshop. For many years, he has repaired hydraulic jacks, small tractors, tillers, lawnmowers and practically any type of small mechanical items. He has been twice an officer of the Office Men's Club and has been a great traveler having visited most of the southern and western United States. He also formerly did most of the photographic work for the Roper Bradley News. At present, his traveling is confined to a couple of fishing trips a year to southern Illinois.

NOBODY MISSES THE "5" PIN?

Our bowling season has come to an end with the Assembly team defeating the Office for the Championship. The Assembly team consists of: RON ANDERSON, TONY STANIZESKI, RUSS WESTOVER, BRUCE COURVILLE, and TERRY DUPUIS. CONGRATULATIONS FELLOWS!

If you would like to know who missed the "5" pin on our last night, you will have to ask WALT DUPUIS.

Our banquet will be held on April 30, 1976 at the Boat Club. We will have a cocktail hour from 6:00 to 7:00 and eat at 7:00.

We have had a very good league this year with both attendance and everyone keeping his money paid up. We had nine people with perfect attendance.

Good games and series were turned in by R. CRAWFORD 215-200-585, GALE ALBERS 200-528, R. HISEL 209-548, R. WESTOVER 212-502, T. DUPUIS 521, D. DANKEL 515, J. HAMPTON 509, W. ESSINGTON 512, R. HIRT 523, and D. LAFOND 507.

There were only three splits turned in, BRINKMAN 6-7-10, ALBERS 5-7 and DANKEL 5-10.

See you at the banquet.



ROPER SCHOLARSHIP

Since the Roper Foundation began offering scholarships in 1968, we at Bradley have been very fortunate in that every year since, at least one of the sons or daughters of our employees have been winners. 1976 is no exception and we take this opportunity to congratulate Maribeth Raines. Miss Raines, pictured here with Roper Outdoor Products President, ROBERT N. PATTERSON, was just adjudged by the Foundation to be the winner of a four year scholarship and was congratulated with her parents on Tuesday of this week.

Maribeth is the daughter of Mr. & Mrs. Jack Raines (JACK is thirty-three year employee of Bradley currently employed in Experimental) and is a senior student at Bishop McNamara High School. She will graduate in June, second in a class of 167, and has captured just about every scholastic honor the school has to offer and, in addition has been active in extra curricular activities. She is a star on the girls track team as well.

Maribeth plans to continue her education at St. Francis College, Joliet, Illinois, where she will study Medical Technology.

WEDDING BELLS

Congratulations are in order for JOYCE HERTZ, Shipping, who became the bride of Terry Lee Erickson on April 10, 1976.

ROPER OUTDOOR PRODUCTS

BRADLEY PLANT

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