

Factory Planning Decisions September

| | |
|----------------------------|----------|
| Punch Press Option | Current |
| Rotor Assembly Layout | Layout 1 |
| Frame Supplier Option | Vendor 1 |
| Number Stator Lines | Three |
| Stator Staff Numbers | 25 |
| Payroll Report | No |
| Daily Production Report | No |
| Weekly Inventory Report | No |
| Final Assembly Store Room | 470 |
| Rotor Assembly Store Room | 40 |
| Stator Assembly Store Room | 40 |

Raw Material Purchases September

| | Steel | Aluminium | SF Frames | LF Frames | Wire |
|-----------|-------|-----------|-----------|-----------|------|
| Purchases | 4 | 70 | 20 | 45 | 45 |

Minimum Production Rates September

| | |
|------------------------------------|-----|
| Punch Press Minimum Production | 225 |
| Rotor Assembly Minimum Production | 0 |
| Stator Assembly Minimum Production | 0 |
| Final Assembly Minimum Production | 0 |

Maintenance Frequency September

| | Press | Diecast | Line 1 | Line 2 | Line 3 | Pot |
|-----------------------|-------|---------|--------|--------|--------|-----|
| Maintenance Frequency | 1 | 1 | 1 | 1 | 1 | 4 |

Setup Schedule September

| Machine | Diecast | Press |
|------------|---------|-------|
| Setup Day | 1 | 13 |
| Setup Type | 2 | 3 |

Final Asm. Schedule September

| Motor | Motor 3 | Motor 2 | Motor 1 |
|-------------------|---------|---------|---------|
| Schedule Quantity | 1000 | 2000 | 6000 |

Factory Shutdown September

| | |
|---------------|---|
| Days Shutdown | 0 |
|---------------|---|

Manufacturing Account September

| | |
|--------------------------|---------|
| Opening Raw Materials | 63,400 |
| Raw Material Purchases | 84,450 |
| Closing Raw Materials | 52,229 |
| Raw Material Used | 95,621 |
| Direct Labour | 49,121 |
| Direct Cost | 144,742 |
| Indirect Labour | 32,802 |
| Indirect Materials | 1,447 |
| Depreciation | 5,883 |
| Interest | 18,865 |
| Other Costs | 10,000 |
| Manufacturing Overheads | 68,997 |
| Manufacturing Costs | 213,739 |
| Opening Work in Progress | 175,322 |
| Closing Work in Progress | 181,698 |
| Cost of Goods Produced | 207,363 |
| Total Production | 7,928 |
| Average Cost | 26.16 |

Capital Statement September

| | |
|--------------------------|-----------|
| Closing Raw Materials | 52,229 |
| Closing Work in Progress | 181,698 |
| Finished Inventory Value | 376,746 |
| Total Inventory Value | 610,674 |
| Fixed Assets | 700,085 |
| Total Assets | 1,201,898 |

Production Summary September

| Production Unit | Punch Press | Rotor Asm. | Stator Asm. | Final Asm. |
|------------------|-------------|------------|-------------|------------|
| Total Production | 4812 | 7325 | 8788 | 7928 |
| Days Worked | 24 | 21 | 21 | 21 |
| Average/Day | 200 | 349 | 418 | 378 |

Finished Motors Inventory September

| | Motor 1 | Motor 2 | Motor 3 | Motor 4 | Motor 5 | Total |
|----------------------|---------|---------|---------|---------|---------|--------|
| Opening Inventory | 6075 | 5237 | 4284 | 3567 | 957 | 20120 |
| Purchases/Production | 4779 | 2000 | 1149 | 0 | 0 | 7928 |
| Total Used/Sold | 4077 | 2036 | 1417 | 647 | 135 | 8312 |
| Reported Inventory | 6777 | 5201 | 4016 | 2920 | 822 | 19736 |
| Inventory Value | 139742 | 87897 | 82810 | 49348 | 16950 | 376746 |

Stator Inventory September

| | Stator 1 | Stator 2 | Stator 3 | Stator 4 | Stator 5 | Total |
|----------------------|----------|----------|----------|----------|----------|--------|
| Opening Inventory | 2652 | 1942 | 4455 | 147 | 850 | 10046 |
| Purchases/Production | 5804 | 2984 | 0 | 0 | 0 | 8788 |
| Total Used/Sold | 4779 | 2000 | 1149 | 0 | 0 | 7928 |
| Reported Inventory | 3677 | 2926 | 3306 | 147 | 850 | 10906 |
| Inventory Value | 44749 | 27709 | 40234 | 1392 | 10345 | 124429 |

Rotor Inventory September

| | SF Rotor | LF Rotor | Total |
|----------------------|----------|----------|-------|
| Opening Inventory | 5877 | 3667 | 9544 |
| Purchases/Production | 0 | 7325 | 7325 |
| Total Used/Sold | 2000 | 5928 | 7928 |
| Reported Inventory | 3877 | 5064 | 8941 |
| Inventory Value | 17485 | 27498 | 44983 |

Punchings Inventory September

| | Stat Punch1 | Stat Punch2 | Rotor Punch | Scrap Rotor |
|----------------------|-------------|-------------|-------------|-------------|
| Opening Inventory | 2259 | 91 | 1695 | 316 |
| Purchases/Production | 1761 | 0 | 3051 | 0 |
| Total Used/Sold | 2338 | 0 | 2261 | 0 |
| Reported Inventory | 1602 | 91 | 2485 | 316 |
| Inventory Value | 112 | 6 | 149 | 19 |

Punchings Inventory September

| | Total |
|----------------------|-------|
| Opening Inventory | 4361 |
| Purchases/Production | 4812 |
| Total Used/Sold | 4599 |
| Reported Inventory | 4494 |
| Inventory Value | 287 |

Raw Materials Inventory September

| | Steel | Aluminium | SF Frames | LF Frames | Wire |
|----------------------|-------|-----------|-----------|-----------|-------|
| Opening Inventory | 16 | 4965 | 2675 | 2894 | 5171 |
| Purchases/Production | 40 | 7000 | 2000 | 4500 | 11250 |
| Total Used/Sold | 49 | 9046 | 2000 | 5928 | 11690 |
| Reported Inventory | 7 | 2919 | 2675 | 1466 | 4731 |
| Inventory Value | 3519 | 4671 | 3210 | 1906 | 18924 |
| Total Purchase Value | 20000 | 11200 | 2400 | 5850 | 45000 |

| Final Assembly Production September | | | | | |
|--------------------------------------------|---------|---------|---------|---------|---------|
| | Motor 1 | Motor 2 | Motor 3 | Motor 4 | Motor 5 |
| Friday | 0 | 0 | 402 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 0 | 0 | 369 | 0 | 0 |
| Tuesday | 0 | 0 | 378 | 0 | 0 |
| Wednesday | 0 | 406 | 0 | 0 | 0 |
| Thursday | 0 | 403 | 0 | 0 | 0 |
| Friday | 0 | 411 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 0 | 389 | 0 | 0 | 0 |
| Tuesday | 0 | 391 | 0 | 0 | 0 |
| Wednesday | 398 | 0 | 0 | 0 | 0 |
| Thursday | 432 | 0 | 0 | 0 | 0 |
| Friday | 400 | 0 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 339 | 0 | 0 | 0 | 0 |
| Tuesday | 370 | 0 | 0 | 0 | 0 |
| Wednesday | 308 | 0 | 0 | 0 | 0 |
| Thursday | 328 | 0 | 0 | 0 | 0 |
| Friday | 358 | 0 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 391 | 0 | 0 | 0 | 0 |
| Tuesday | 396 | 0 | 0 | 0 | 0 |
| Wednesday | 316 | 0 | 0 | 0 | 0 |
| Thursday | 391 | 0 | 0 | 0 | 0 |
| Friday | 352 | 0 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |

| Stator Assembly Production September | | | | | |
|---------------------------------------------|----------|----------|----------|----------|----------|
| | Stator 1 | Stator 2 | Stator 3 | Stator 4 | Stator 5 |
| Friday | 295 | 130 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 281 | 157 | 0 | 0 | 0 |
| Tuesday | 138 | 118 | 0 | 0 | 0 |
| Wednesday | 309 | 0 | 0 | 0 | 0 |
| Thursday | 143 | 156 | 0 | 0 | 0 |
| Friday | 345 | 172 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 318 | 133 | 0 | 0 | 0 |
| Tuesday | 274 | 144 | 0 | 0 | 0 |
| Wednesday | 299 | 157 | 0 | 0 | 0 |
| Thursday | 287 | 148 | 0 | 0 | 0 |
| Friday | 243 | 164 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 272 | 151 | 0 | 0 | 0 |
| Tuesday | 286 | 148 | 0 | 0 | 0 |
| Wednesday | 259 | 157 | 0 | 0 | 0 |
| Thursday | 274 | 167 | 0 | 0 | 0 |
| Friday | 258 | 147 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 280 | 139 | 0 | 0 | 0 |
| Tuesday | 302 | 157 | 0 | 0 | 0 |
| Wednesday | 341 | 152 | 0 | 0 | 0 |
| Thursday | 290 | 145 | 0 | 0 | 0 |
| Friday | 310 | 142 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |

Rotor & Punchings Production September

| | Stat Punch1 | Stat Punch2 | Rotor Punch | SF Rotor | LF Rotor |
|-----------|-------------|-------------|-------------|----------|----------|
| Friday | 223 | 0 | 0 | 0 | 0 |
| Saturday | 215 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 223 | 0 | 0 | 0 | 0 |
| Tuesday | 234 | 0 | 0 | 0 | 531 |
| Wednesday | 207 | 0 | 0 | 0 | 549 |
| Thursday | 219 | 0 | 0 | 0 | 376 |
| Friday | 220 | 0 | 0 | 0 | 0 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 220 | 0 | 0 | 0 | 0 |
| Tuesday | 0 | 0 | 0 | 0 | 505 |
| Wednesday | 0 | 0 | 0 | 0 | 496 |
| Thursday | 0 | 0 | 217 | 0 | 509 |
| Friday | 0 | 0 | 221 | 0 | 531 |
| Saturday | 0 | 0 | 234 | 0 | 0 |
| Sunday | 0 | 0 | 222 | 0 | 0 |
| Monday | 0 | 0 | 214 | 0 | 0 |
| Tuesday | 0 | 0 | 224 | 0 | 413 |
| Wednesday | 0 | 0 | 192 | 0 | 427 |
| Thursday | 0 | 0 | 224 | 0 | 455 |
| Friday | 0 | 0 | 221 | 0 | 461 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |
| Monday | 0 | 0 | 226 | 0 | 0 |
| Tuesday | 0 | 0 | 213 | 0 | 520 |
| Wednesday | 0 | 0 | 228 | 0 | 591 |
| Thursday | 0 | 0 | 207 | 0 | 470 |
| Friday | 0 | 0 | 209 | 0 | 491 |
| Saturday | 0 | 0 | 0 | 0 | 0 |
| Sunday | 0 | 0 | 0 | 0 | 0 |

Payroll Report September

| | Press | Diecast | Line 1 | Line 2 | Line 3 | Total |
|---------------|-------|---------|--------|--------|--------|--------|
| Straight Time | 3,840 | 5,796 | 22,764 | 3,024 | 4,200 | 39,624 |
| Incentives | 0 | 0 | 1,898 | 0 | 0 | 1,898 |
| Overtime Cost | 320 | 0 | 0 | 0 | 0 | 320 |
| Direct Labour | 4,160 | 5,796 | 24,662 | 3,024 | 4,200 | 41,842 |

| Finished Motors Inventory September | | | | | |
|--------------------------------------------|---------|---------|---------|---------|---------|
| | Motor 1 | Motor 2 | Motor 3 | Motor 4 | Motor 5 |
| Opening Inventory | 6075 | 5237 | 4284 | 3567 | 957 |
| Total Used/Sold | 4077 | 2036 | 1417 | 647 | 135 |
| Week 1 | 1998 | 3201 | 3269 | 2920 | 822 |
| Week 2 | 1998 | 4421 | 4016 | 2920 | 822 |
| Week 3 | 3228 | 5201 | 4016 | 2920 | 822 |
| Week 4 | 4931 | 5201 | 4016 | 2920 | 822 |
| Week 5 | 6777 | 5201 | 4016 | 2920 | 822 |
| Reported Inventory | 6777 | 5201 | 4016 | 2920 | 822 |

| Stator Inventory September | | | | | |
|-----------------------------------|----------|----------|----------|----------|----------|
| | Stator 1 | Stator 2 | Stator 3 | Stator 4 | Stator 5 |
| Week 1 | 2947 | 2072 | 4053 | 147 | 850 |
| Week 2 | 4163 | 1455 | 3306 | 147 | 850 |
| Week 3 | 4354 | 1421 | 3306 | 147 | 850 |
| Week 4 | 4000 | 2191 | 3306 | 147 | 850 |
| Week 5 | 3677 | 2926 | 3306 | 147 | 850 |
| Reported Inventory | 3677 | 2926 | 3306 | 147 | 850 |

| Rotor Inventory September | | |
|----------------------------------|----------|----------|
| | SF Rotor | LF Rotor |
| Week 1 | 5877 | 3265 |
| Week 2 | 4657 | 3974 |
| Week 3 | 3877 | 4785 |
| Week 4 | 3877 | 4838 |
| Week 5 | 3877 | 5064 |
| Reported Inventory | 3877 | 5064 |

| Punchings Inventory September | | | |
|--------------------------------------|-------------|-------------|-------------|
| | Stat Punch1 | Stat Punch2 | Rotor Punch |
| Week 1 | 2367 | 91 | 1695 |
| Week 2 | 3179 | 91 | 1248 |
| Week 3 | 2804 | 91 | 1058 |
| Week 4 | 2226 | 91 | 2047 |
| Week 5 | 1602 | 91 | 2485 |
| Reported Inventory | 1602 | 91 | 2485 |

| Raw Materials Inventory September | | | | | |
|------------------------------------------|-------|-----------|-----------|-----------|-------|
| | Steel | Aluminium | SF Frames | LF Frames | Wire |
| Week 1 | 53 | 6365 | 3075 | 3392 | 15849 |
| Week 2 | 38 | 5978 | 2255 | 3545 | 13422 |
| Week 3 | 32 | 4869 | 1875 | 3215 | 10544 |
| Week 4 | 17 | 4099 | 2275 | 2412 | 7751 |
| Week 5 | 7 | 2919 | 2675 | 1466 | 4731 |
| Reported Inventory | 7 | 2919 | 2675 | 1466 | 4731 |

Week 1

Friday
 Diecast setup
 Rotor Rework backlog cleared
 Saturday
 Overtime worked by Punch Press

Week 2

Monday
 Aluminium Pot cleaned
 Tuesday
 Winding Machine 3 maintained
 Wednesday
 Winding Machine 2 maintained
 Thursday
 Winding Machine 1 maintained
 Friday
 Diecast maintained
 Rotor Rework backlog cleared

Week 3

Monday
 Aluminium Pot cleaned
 Tuesday
 Punch Press maintained
 Wednesday
 Punch Press setup
 Saturday
 Overtime worked by Punch Press
 Sunday
 Overtime worked by Punch Press

Week 4

Monday
 Aluminium Pot cleaned
 Rotor Rework backlog cleared

Week 5

Monday
 Aluminium Pot cleaned
 Rotor Rework backlog cleared

Current Setups September

| | Press | Diecast | Line 1 | Line 2 | Line 3 |
|---------------|-------|---------|----------|----------|----------|
| Current Setup | Die 3 | Long | Stator 1 | Stator 2 | Stator 1 |

Week 1

Friday
Diecast setup
Rotor Rework backlog cleared
Saturday
Overtime worked by Punch Press

Week 2

Monday
Aluminium Pot cleaned
Tuesday
Winding Machine 3 maintained
Wednesday
Winding Machine 2 maintained
Thursday
Winding Machine 1 maintained
Friday
Diecast maintained
Rotor Rework backlog cleared

Week 3

Monday
Aluminium Pot cleaned
Tuesday
Punch Press maintained
Wednesday
Punch Press setup
Saturday
Overtime worked by Punch Press
Sunday
Overtime worked by Punch Press

Week 4

Monday
Aluminium Pot cleaned
Rotor Rework backlog cleared

Week 5

Monday
Aluminium Pot cleaned
Rotor Rework backlog cleared