

# Process Development Review (PDR)

Date [REDACTED]

Quote [REDACTED]

Job [REDACTED]

New Customer  
New Part

New Market  
Re-work

Test  
Production

Project

|   |  |              |         |              |            |  |
|---|--|--------------|---------|--------------|------------|--|
| 1 | Customer   | [REDACTED]   |         | Account Mgr. | [REDACTED] |  |
|   | Contact Name                                     | [REDACTED]   |         | Mobile No    | [REDACTED] |  |
|   |  | [REDACTED]   |         | Email id     | [REDACTED] |  |
|   | Part Number                                      | [REDACTED]   |         | Drawing #    | [REDACTED] |  |
|   |  | [REDACTED]   |         | Rev #        | [REDACTED] |  |
|   | Part Description                                 | [REDACTED]   |         |              |            |  |
|   | Customer notified of "change in process" if any? |              |         | Yes          | No         |  |
|   | Market / Industry                                | Tooling      | Medical | Aerospace    | Luxury     |  |
|   |  | Transmission | Energy  | Additive     | Misc.      |  |

|   |                      |          |            |     |         |
|---|----------------------|----------|------------|-----|---------|
| 2 | Component Info. Type | 3D Model | 2D Drawin* | PDØ | Picture |
|---|----------------------|----------|------------|-----|---------|

|   |  |                |               |                                      |                                     |  |
|---|--|----------------|---------------|--------------------------------------|-------------------------------------|--|
| 3 | Material Chemistry<br>or Trade Name/Number | [REDACTED]     |               | Material<br>Hardness                 | [REDACTED]                          |  |
|   |  | Before Coating | After Coating | <input type="radio"/> Before Plating | <input type="radio"/> After Plating |  |

|   |   |            |  |   |            |  |
|---|---|------------|--|---|------------|--|
| 4 | Coating/Plating Chemistry<br>or Trade Name/Number | [REDACTED] |  | Coating/Plating Hardness<br>and Thickness | [REDACTED] |  |
|---|---|------------|--|---|------------|--|

|   |                   |                                  |                              |                                   |                                   |
|---|-------------------|----------------------------------|------------------------------|-----------------------------------|-----------------------------------|
| 5 | Raw Material Type | <input type="checkbox"/> Casting | <input type="checkbox"/> MIM | <input type="checkbox"/> Additive | <input type="checkbox"/> Stamping |
|   |                   | Wrought                          | Molded                       | Weldment                          | Formed                            |

|   |                      |                                   |                                     |                                    |  |
|---|----------------------|-----------------------------------|-------------------------------------|------------------------------------|--|
| 6 | Manufacturing Method | <input type="checkbox"/> Raw      | <input type="checkbox"/> Milled     | <input type="checkbox"/> Turned    | <input type="checkbox"/> Ground        |
|   |                      | <input type="checkbox"/> EDM Wire | <input type="checkbox"/> EDM Sinker | <input type="checkbox"/> Vibratory | <input type="checkbox"/> Hand Polished |
|   |                      | <input type="checkbox"/> ECM      | Shot Peened                         | Media Blast                        | Other                                  |

|   |   |            |  |  |  |
|---|---|------------|--|--|--|
| 7 | Manufacturing Sequence<br>(Eg:-Mill,Turn,Grind,Lapping) | [REDACTED] |  |  |  |
|---|---|------------|--|--|--|

|   |                        |            |           |  |
|---|------------------------|------------|-----------|--|
| 8 | Heat Treatment         | Before MMP | After MMP | <input type="radio"/> No   |
|   | Heat Treatment Details | [REDACTED] |           | Tempering Temperature : <span style="background-color: black; color: black;">[REDACTED]</span> |

|   |                   |   |                                       |  |
|---|-------------------|---|---------------------------------------|--|
| 9 | MMP Objective (s) | <input type="checkbox"/> Ra Value: <span style="background-color: black; color: black;">[REDACTED]</span> | Aesthetic                             | <input type="checkbox"/> Mold Release      |
|   |                   | Service Life  | Reduce Cost                           | <input type="checkbox"/> Polishing Quality |
|   |                   | Friction Coef.  | <input type="checkbox"/> Removal Coef | <input type="checkbox"/> Coating Life      |
|   |                   |   |                                       | <input type="checkbox"/> Result Quality    |

|    |                            |       |   |         |         |
|----|----------------------------|-------|---|---------|---------|
| 10 | Permitted Material Removal | 0-5µm | 5-10µm                                  | 10-15µm | 15-20µm |
|    |                            | >20µm | <input type="checkbox"/> No Information | Others  |         |

## Process Development Review (PDR)

11 Application & Application Material details

12 Areas to Protect  No  Yes, Drawing Required

| Protection / Masking | Provide Detail with Area of Holding or Drawings |
|----------------------|---|
|                      |   |

13 Special Customer Requirements

| Suggested Metrology (Show measurement areas) | Customer Requirement: |                        |               |
|--|-----------------------|------------------------|---------------|
| <b>Present Method (Customer)</b>             |                       |                        |               |
| Measurement references                       | Device                | Cut off                | Sample Length |
| Ra   | Rt                    | Others, please specify |               |

15 Please add drawings & picture for location to check surface finish

Note: Please attach Detailed component drawing / pictures

### Surface Roughness Info

| Parameter | Before MMP    |                |
|-----------|---------------|----------------|
|           | Micro inch μ" | Micro meter μm |
| Ra        |               |                |
| Rq        |               |                |
| Rsk       |               |                |
| Rt        |               |                |

| After MMP     |                |
|---------------|----------------|
| Micro inch μ" | Micro meter μm |
|               |                |
|               |                |
|               |                |
|               |                |