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## Response form

Please return the questionnaire to:

**Fax: +49 (0) 71 61/66-729**

If you have questions, we will be pleased to help you:

**Tel.: +49 (0) 71 61/66-307**

Your inquiry will be processed promptly.

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## Questionnaire for the area of solid forming/forging

### 1. Information about the inquirer and company

|                          |       |           |       |
|--------------------------|-------|-----------|-------|
| Last name, first name    | _____ | Country   | _____ |
| Position                 | _____ | Telephone | _____ |
| Company                  | _____ | Telefax   | _____ |
| Street address, P.O. Box | _____ | eMail     | _____ |
| City, state, ZIP code    | _____ |           |       |
| Line of business         | _____ |           |       |

### 2. Which type of press are you interested in?

- Eccentric press
- Link drive press
- Hydraulic press
- Transfer
- Other press type: \_\_\_\_\_

Operation:  manual  
 automated

### 3. What are the die sizes that the line must accommodate?

|   |          |       |    |
|---|----------|-------|----|
| Dimensions/smallest part:               | Diameter | _____ | mm |
|   | Length   | _____ | mm |
| Dimensions/largest part:                | Diameter | _____ | mm |
|   | Length   | _____ | mm |
| Weight/smallest part:                   |          | _____ | kg |
| Weight/largest part:                    |          | _____ | kg |
| Maximum forming force of the workpiece: |          | _____ | kN |

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## 4. For which forming method will the press/line be designed?

- Cold forming
- Warm forming
- Hot forming

## 5. Which materials will be processed?

- Steel - Re/Rm from/to: \_\_\_\_\_
- Aluminum
- Other materials: \_\_\_\_\_

## 6. What is the required production rate?

Parts per minute (excluding doubles) \_\_\_\_\_ ppm  
Number of changeover procedures \_\_\_\_\_ per hour  
Number of tool sets \_\_\_\_\_  
Annual production \_\_\_\_\_ parts at \_\_\_\_\_ shift(s) per day

## 7. Which die is to be quoted?

- Existing die, no quotation required
- Single dies
- Multi-station dies \_\_\_\_\_ % Station spacing: \_\_\_\_\_ mm
- Trimming operations \_\_\_\_\_

## 8. Please list the following technical specifications:

### Press

Press capacity \_\_\_\_\_ kN  
Nominal force travel (for mech. Presses) \_\_\_\_\_ mm  
Work energy (for mech. Presses) \_\_\_\_\_ ft/lbs from \_\_\_\_\_ spm at \_\_\_\_\_ % Drop

### Tools

- Die shoe changeovers
- Changeovers of single stations \_\_\_\_\_
- Other \_\_\_\_\_

Dimension of the smallest tool (l x w) \_\_\_\_\_ mm \_\_\_\_\_ mm  
Dimension of the largest tool (l x w) \_\_\_\_\_ mm \_\_\_\_\_ mm  
Die shut height/daylight from/to \_\_\_\_\_ mm \_\_\_\_\_ mm  
Part transport level from/to \_\_\_\_\_ mm \_\_\_\_\_ mm  
Type of die clamps \_\_\_\_\_

### Press bed

Bed dimensions length x width \_\_\_\_\_ mm \_\_\_\_\_ mm  
Bed height above floor \_\_\_\_\_ mm

## Questionnaire for the area of solid forming/forging

### Slide

|  |                                    |  |
|--|------------------------------------|--|
| Slide dimensions                                   | _____ mm                           | _____ mm                               |
| Slide stroke                                       | _____ mm                           |  |
| Slide locking                                      | <input type="checkbox"/> In TDC    | <input type="checkbox"/> In increments |
| Slide adjustment (mech. Presses)                   | _____ mm                           |  |
| Ejectors in bed                                    | <input type="checkbox"/> pneumatic | <input type="checkbox"/> hydraulic     |
| Number of ejector pins                             | _____                              | x _____                                |
| Number of forces                                   | _____                              |  |
| Ejectors in slide                                  | <input type="checkbox"/> pneumatic | <input type="checkbox"/> hydraulic     |
| Number of ejector pins                             | _____                              | x _____                                |
| Number of forces                                   | _____                              |  |
| Opening betw. uprights in part flow direction      | _____ mm                           |  |
| Opening betw. uprights at right angle to part flow | _____ mm                           |  |

### 9. Details about the installation site.

- new bay or plant
- existing production site

### 10. What is your budget for investment?

Approx \_\_\_\_\_ € or \$US

### 11. What are the environmental conditions at the installation site?

- High temperatures above 40° C (104° F)
- Extreme temperature fluctuations of more than 25° C (45° F)
- Extreme amount of dirt particles in the air
- Other: \_\_\_\_\_

## Questionnaire for the area of solid forming/forging

### 12. Which line or lines do you prefer at the present time?

|   |               |       |                    |       |
|---|---------------|-------|--------------------|-------|
| <input type="checkbox"/> Hydraulic single press                                   | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Hydraulic press line(s)                                  | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Hydraulic transfer press                                 | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Combination mechanical and hydraulic presses in one line | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Mechanical press line(s)                                 | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Mech. Transfer press(s) with eccentric drive             | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Mech. Transfer press(s) with link drive                  | max. capacity | _____ | max. clamping area | _____ |
| <input type="checkbox"/> Other: _____   | max. capacity | _____ | max. clamping area | _____ |

### 13. Please enter any additional information that might be useful for quotation preparation:

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