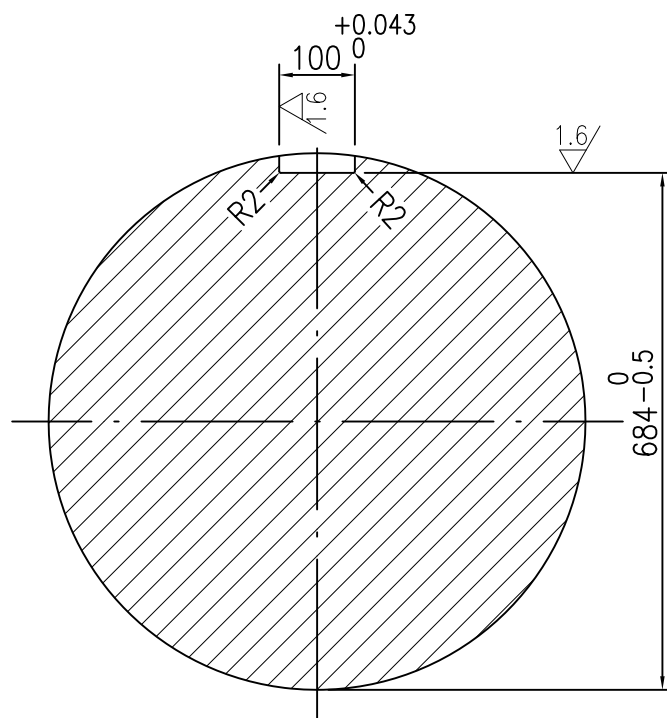


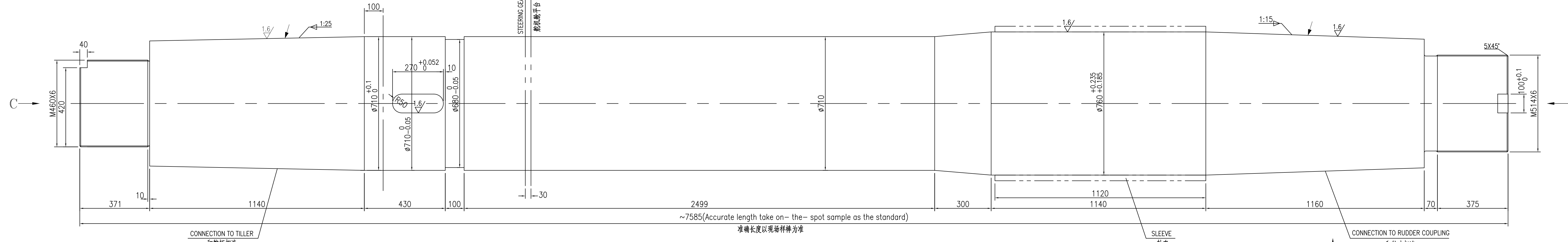
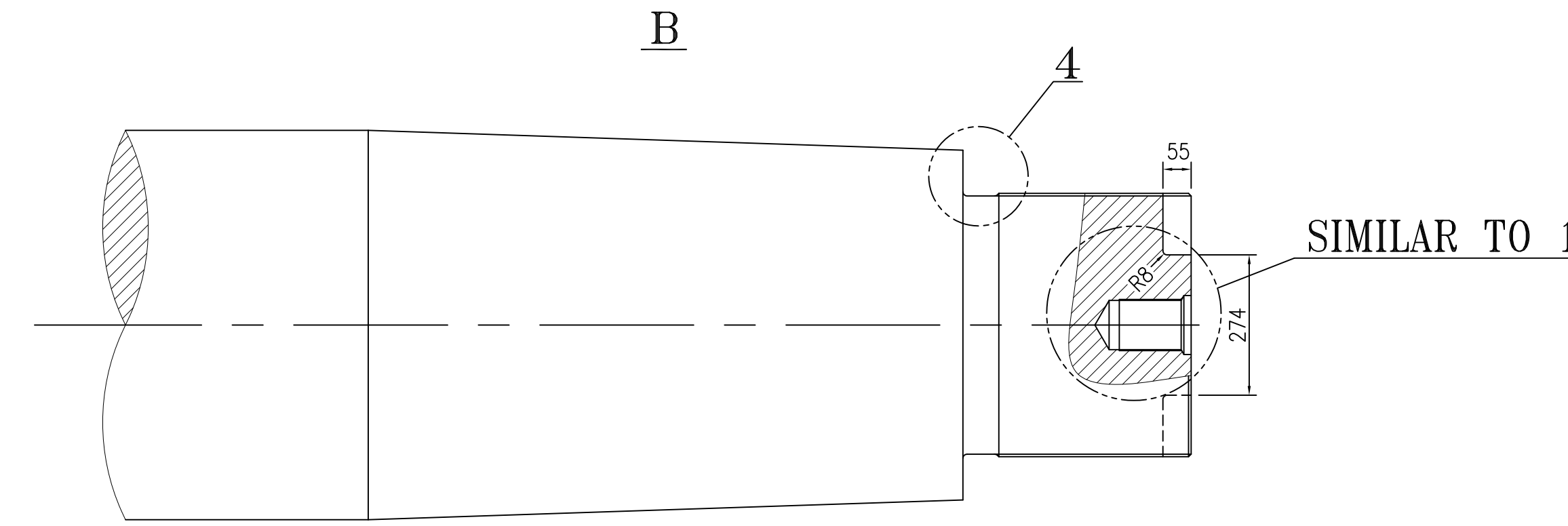
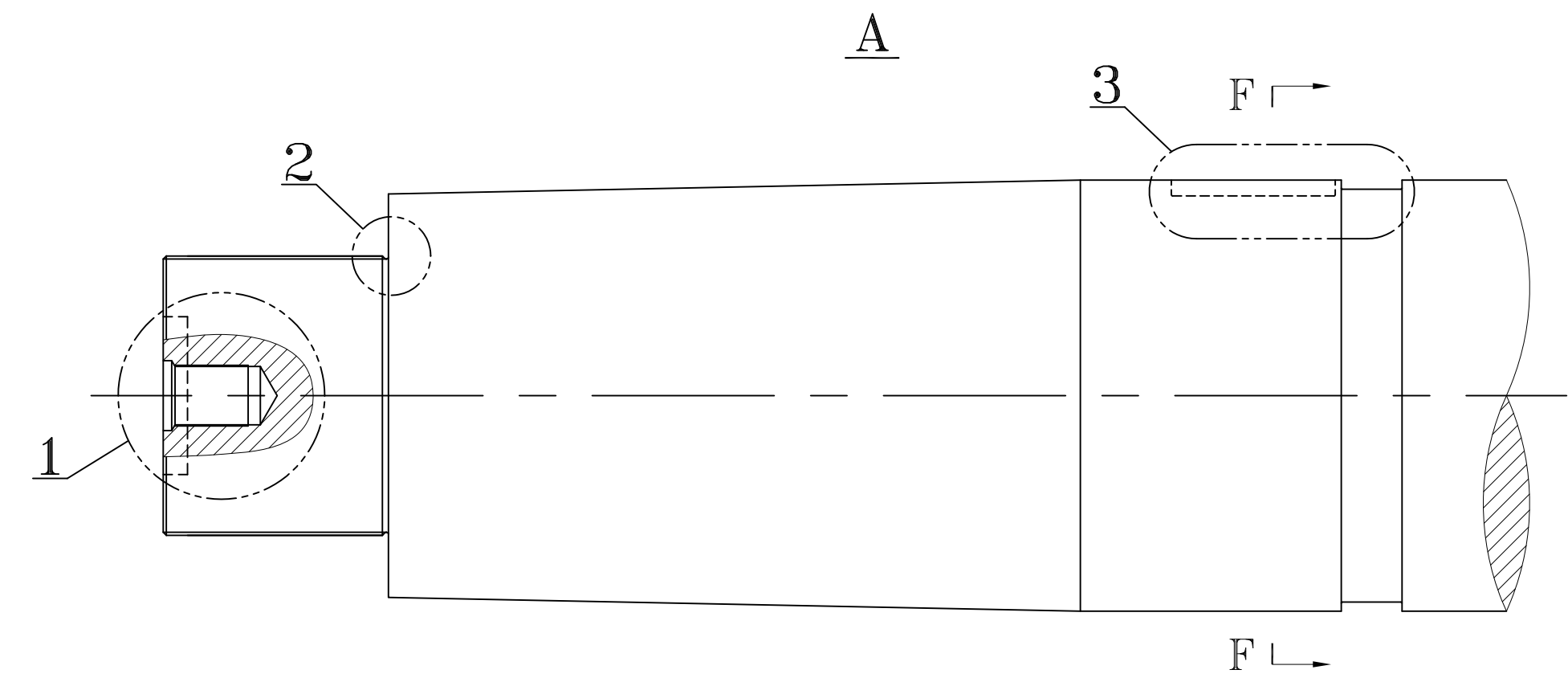
舵杆  
RUDDER STOCK

F-F



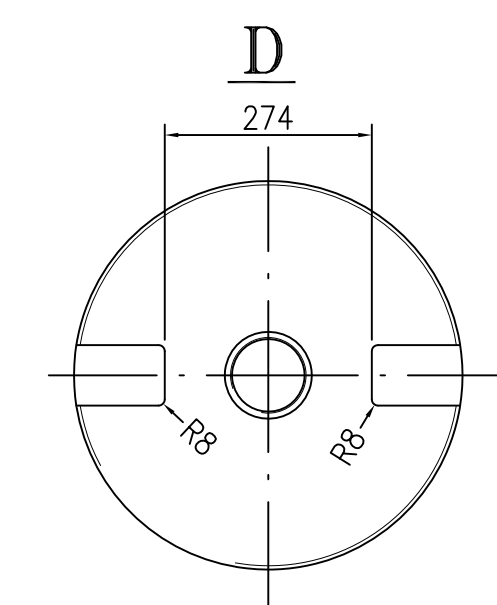
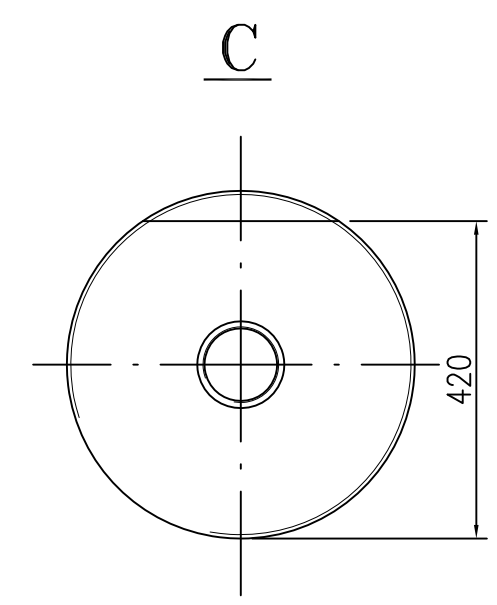
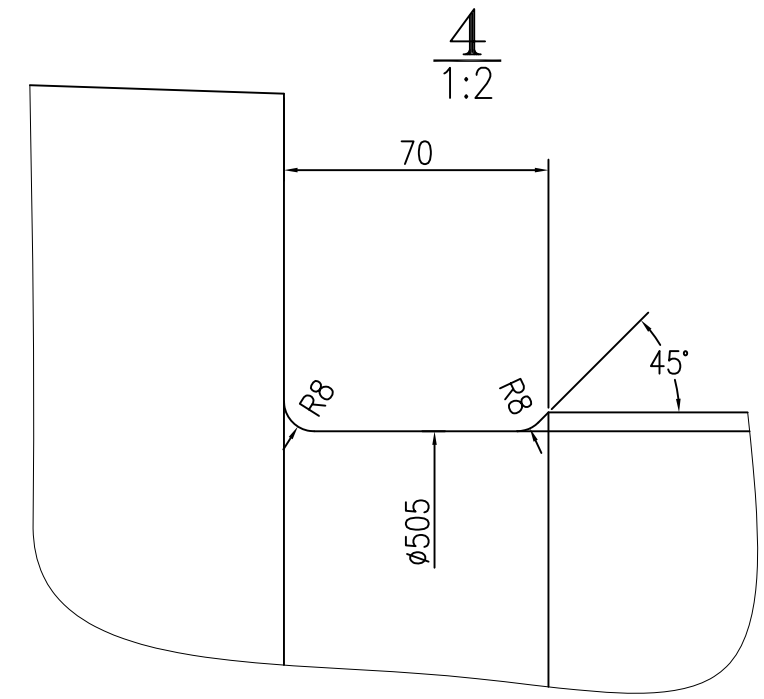
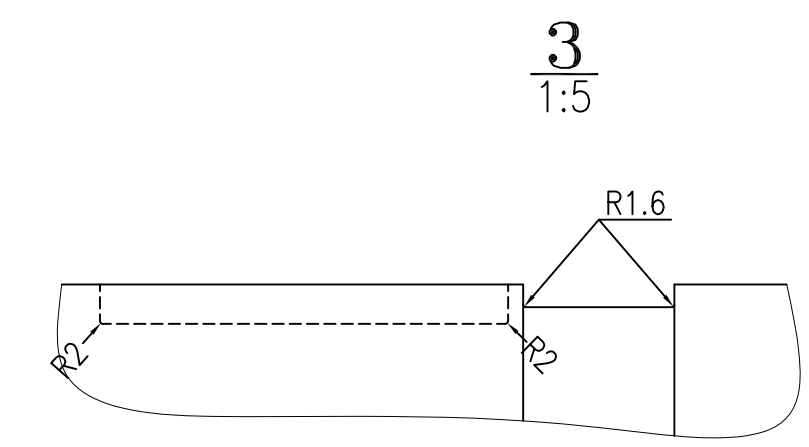
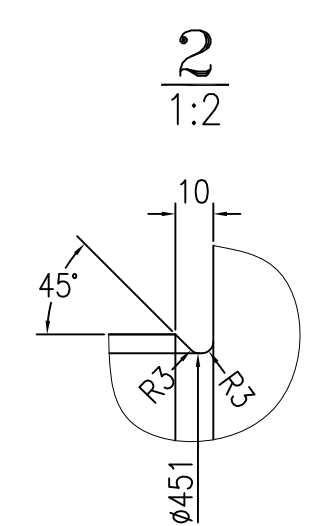
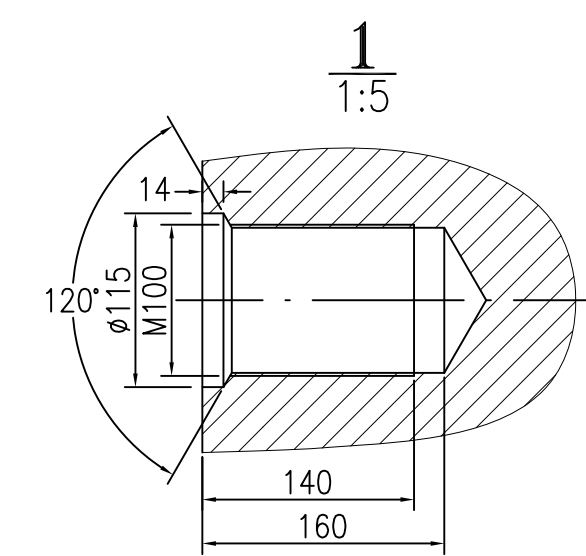
OTHER 12.5

图纸履历 PLAN HISTORY					
日期 DATE	标记 MARKER	数量 NUMBER	版本 REV.	修改单号/说明 MODIFICATION NO./DESCRIPTION	页码 PAGE



- 注:
1. 制造, 试验和检验的要求均按 GL 规则.
  2. 炉前取样的化学成分:  
C<0.23%, Si<0.45%, P<0.035%, S<0.035%.
  3. 精加工后锥体和突变处做磁粉探伤.
  4. 本银件应避免表面或内部不利使用的缺陷.
  5. 舵杆与舵杆承座的接触面积不得小于理论面积的 80%.
  6. 箭头标记表明探伤部位为超声波探伤.
  7. 舵杆和毂
  8. 舵杆和舵杆承座连接最大允许压入量为 11.453 mm.
  9. 热处理: 淬火和回火, 技术要求要取得 GL 认可.

- NOTE:
1. REQUIREMENTS FOR MANUFACTURE AND TESTS AND EXAMINATION SHOULD BE COMPLIED WITH GL RULES.
  2. THE CHEMICAL COMPOSITION OF LADLE SAMPLES:  
C<0.23%, Si<0.45%, P<0.035%, S<0.035%
  3. MPI CHECK TO BE CARRIED OUT ON CONE OR COLLAR.
  4. THE SURFACE AND INNER PART OF THE FORGING SHOULD BE FREE FROM DEFECTS WHICH AFFECT APPLICATION.
  5. THE ACTUAL TOUCHING AREA BETWEEN RUDDER STOCK AND ITS BEARING SHOULD NOT LESS THAN 80 PERCENT OF THE THEORY TOUCHING AREA.
  6. THE MARK STANDS FOR THE SURFACE PART WHICH SHOULD BE CARRIED ON ULTRASONIC TEST.
  - 7.
  - 8.
  - 9.



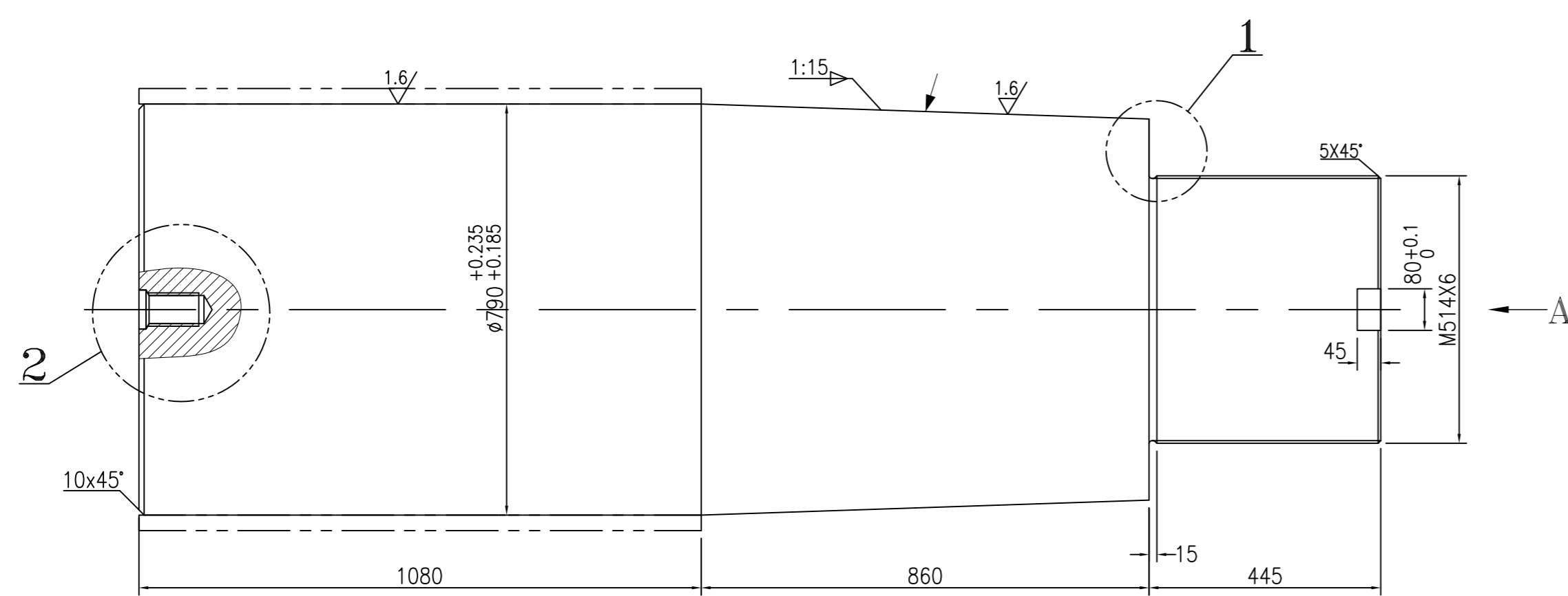
最低抗拉强度 MIN. TENSILE STRENGTH	屈服强度 YIELD STRENGTH	伸长率 ELONGATION A <sub>5</sub> (%) min			断面收缩率 REDUCTION IN AREA Z (%) min			冲击功 IMPACT ENERGY						布氏硬度 BRINELL HARDNESS HB (GUIDE VALUES)
		long.	tang.	trans.	long.	tang.	trans.	long.	tang.	trans.	long.	tang.	trans.	
R <sub>m</sub> N/mm <sup>2</sup>	R <sub>eH</sub> N/mm <sup>2</sup>	18	16	14	50	45	35	32	25	18	30	25	20	175-215

ITEM NO. 序号	MARK 代号	NAME & SPEC 名称	Q'TY 数量	合金钢 ALLOY STEEL FORGING		REMARK 备注
				MATERIAL 材料	WEIGHT 重量 (kg)	
		舵杆 RUDDER STOCK	1		~20651	
		5,100 箱集装箱船 5,100TEU CONTAINER VESSEL				

设计阶段 DESIGN	完工设计 FINISH DESIGN
工程号 HULL NO.	H2431
图号 DRAWING NO.	FO-09 72000900D
重量 (kg) WEIGHT	2860
比例 SCALE	1:10
共 2 页 TOTAL SHEETS	第 1 页 SHEET
上海江南长兴重工有限责任公司 SHANGHAI JIANGNAN CHANGXING HEAVY INDUSTRY CO., LTD.	

总面积: 0.75m<sup>2</sup> 5号 420X1189=0.5m<sup>2</sup>

## 舵销 RUDDER PINTLE

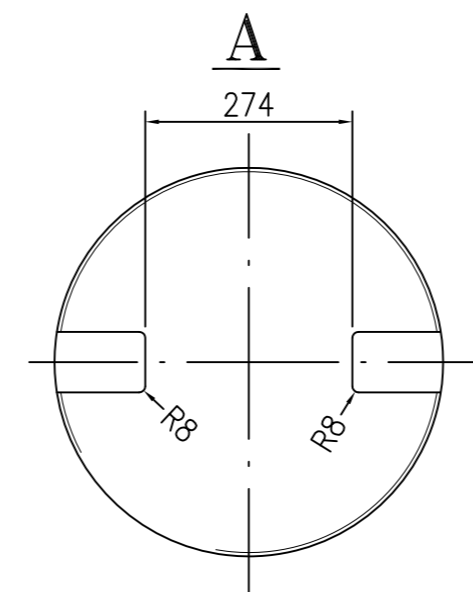
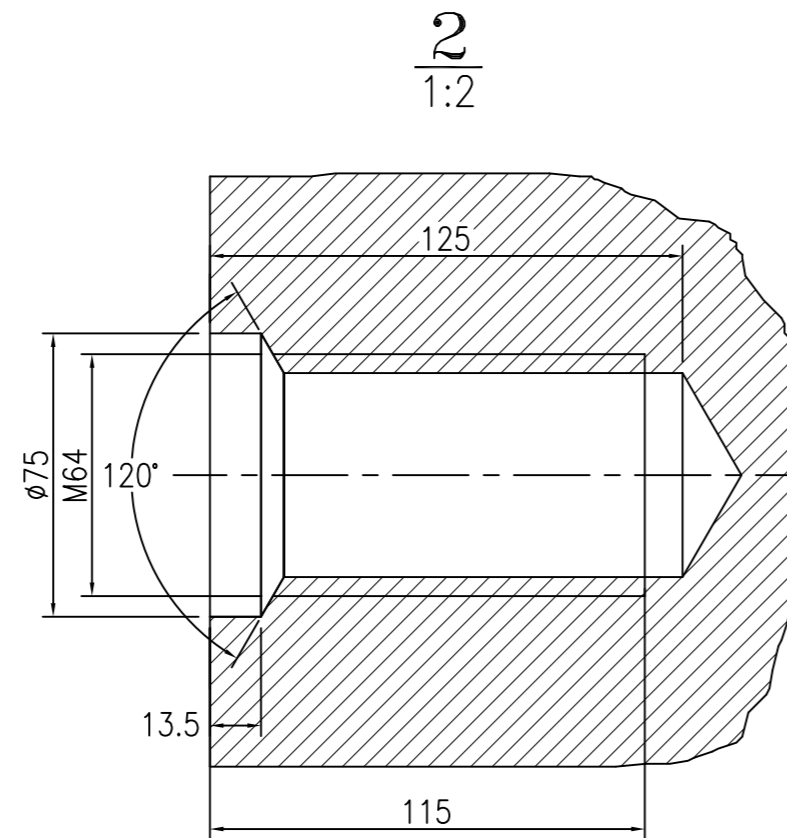
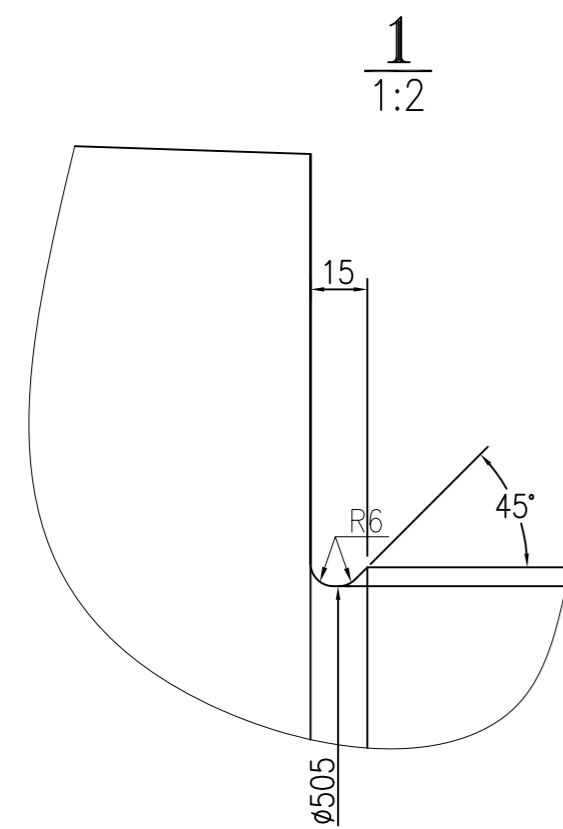


注:

1. 制造, 试验和检验的要求均按 GL 规则.
2. 炉前取样的化学成份:  
C≤0.23%, Si≤0.45%, P≤0.035%, S≤0.035%.
3. 精加工后锥体和突变处做磁粉探伤.
4. 本锻件应避免表面或内部不利使用的缺陷.
5. 舵销与舵销承座的接触面积不得小于理论面积的 80%.
6. 箭头标记表明探伤部位为超声波探伤.
7. 舵销和舵销承座连接最小压入量为 0.98 mm.
8. 舵销和舵销承座连接最大允许压入量为 11.93 mm.
9. 热处理: 淬火和回火, 技术要求要取得 GL 认可.

NOTE:

1. REQUIREMENTS FOR MANUFACTURE AND TESTS AND EXAMINATION SHOULD BE COMPLIED WITH GL RULES.
2. THE CHEMICAL COMPOSITION OF LADLE SAMPLES:  
C≤0.23%, Si≤0.45%, P≤0.035%, S≤0.035%
3. MPI CHECK TO BE CARRIED OUT ON CONE OR COLLAR.
4. THE SURFACE AND INNER PART OF THE FORGING SHOULD BE FREE FROM DEFECTS WHICH AFFECT APPLICATION.
5. THE ACTUAL TOUCHING AREA BETWEEN RUDDER PINTLE AND ITS BEARING SHOULD NOT LESS THAN 80 PERCENT OF THE THEORY TOUCHING AREA.
6. 箭头 THE MARK STANDS FOR THE SURFACE PART WHICH SHOULD BE CARRIED ON ULTRASONIC TEST.
7. REQUIRED PUSH-UP LENGTH FOR CONNECTION TO RUDDER PINTLE COUPLING IS 0.98mm.
8. MAX PERMISSIBLE PUSH-UP LENGTH FOR CONNECTION TO RUDDER PINTLE COUPLING IS 11.93mm.
9. QUENCHING AND TEMPERING, AND REQUIREMENTS SHALL BE AGREED WITH GL.



最低抗拉强度 MIN. TENSILE STRENGTH R <sub>m</sub> N/mm <sup>2</sup>	屈服强度 YIELD STRENGTH R <sub>eH</sub> N/mm <sup>2</sup>	伸长率 ELONGATION L <sub>0</sub> =5.65/s <sub>0</sub> A (%) min			断面收缩率 REDUCTION IN AREA Z (%) min			冲击功 IMPACT ENERGY						布氏硬度 BRINELL HARDNESS HB (GUIDE VALUES)	ITEM NO. 序号	MARK 代号	舵销 RUDDER PINTLE NAME & SPEC 名称	1 Q'TY 数量	合金锻钢 ALLOY STEEL FORGING		~7956	REMARK 备注		
		long. 纵向	tang. 切向	trans. 横向	long. 纵向	tang. 切向	trans. 横向	KV (J) min		KU (J) min		SET 单件	TOTAL 总计											
750	450	15	13	11	45	40	30	25	18	13	25	20	15	215-260										