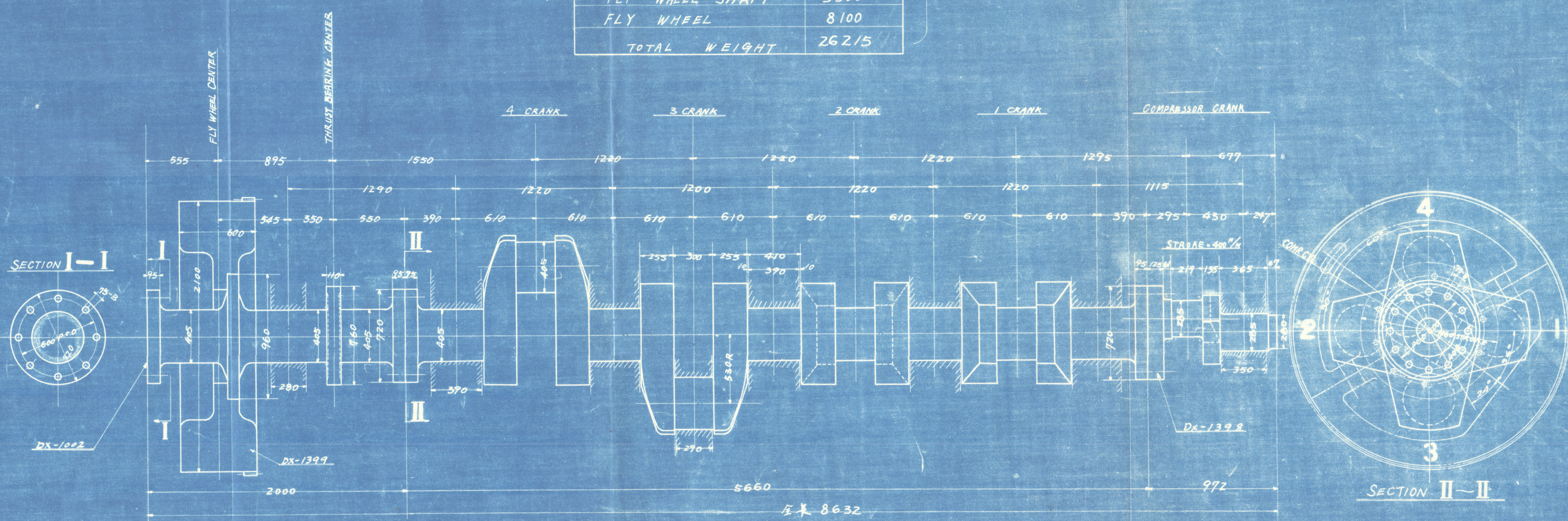


DESCRIPTION	WEIGHT IN KG
CRANK SHAFT	13900
COMP CRANK SHAFT	915
FLY WHEEL SHAFT	3300
FLY WHEEL	8100
TOTAL WEIGHT	26215

SHOWN FOR FINISHED SIZE



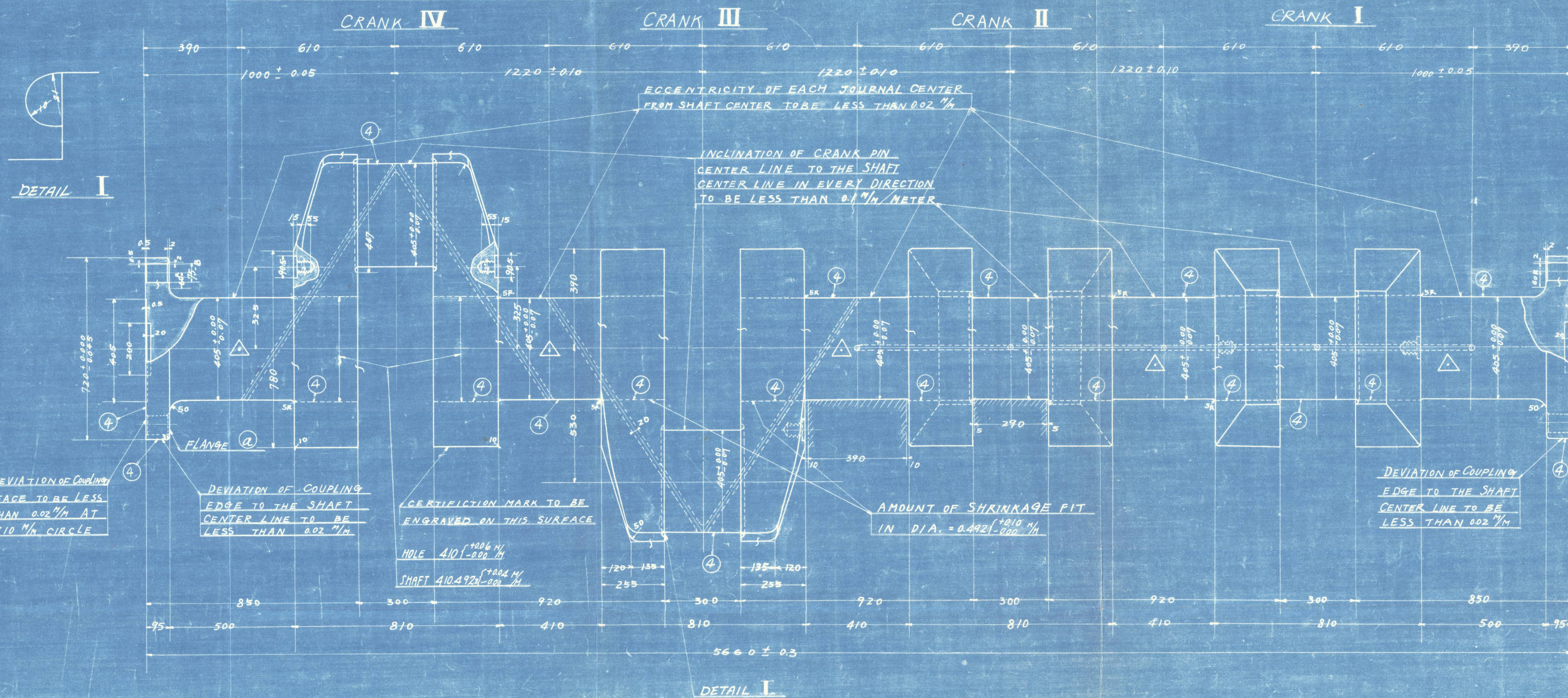
STRENGTH FOR CRANK SHAFT

1 MAX TENSILE STRENGTH	28 ~ 32 TONS/IN ²
2 ELONGATION ON THE BRITISH LLOYD'S STANDARD TEST PIECE	NOT LESS THAN 29% FOR STR TH 28 TONS/IN ²
3 BENDING TEST ANGLE	180° AT INTERNAL RADIUS $\geq \frac{1}{4}$ "
4 SUM OF MAX TENSILE STRENGTH AND CORRESPONDING ELONGATION NOT TO BE LESS THAN 57	

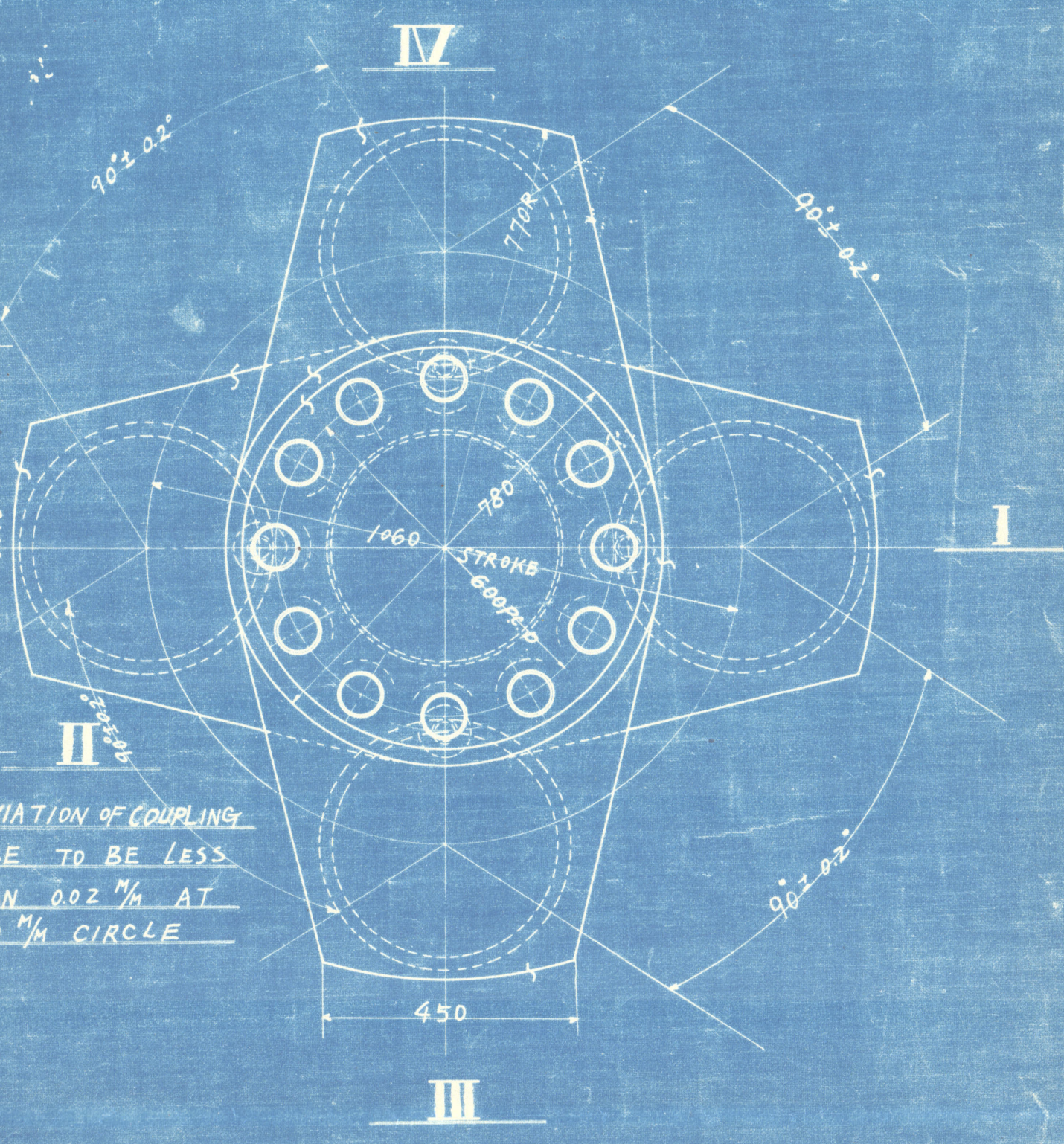
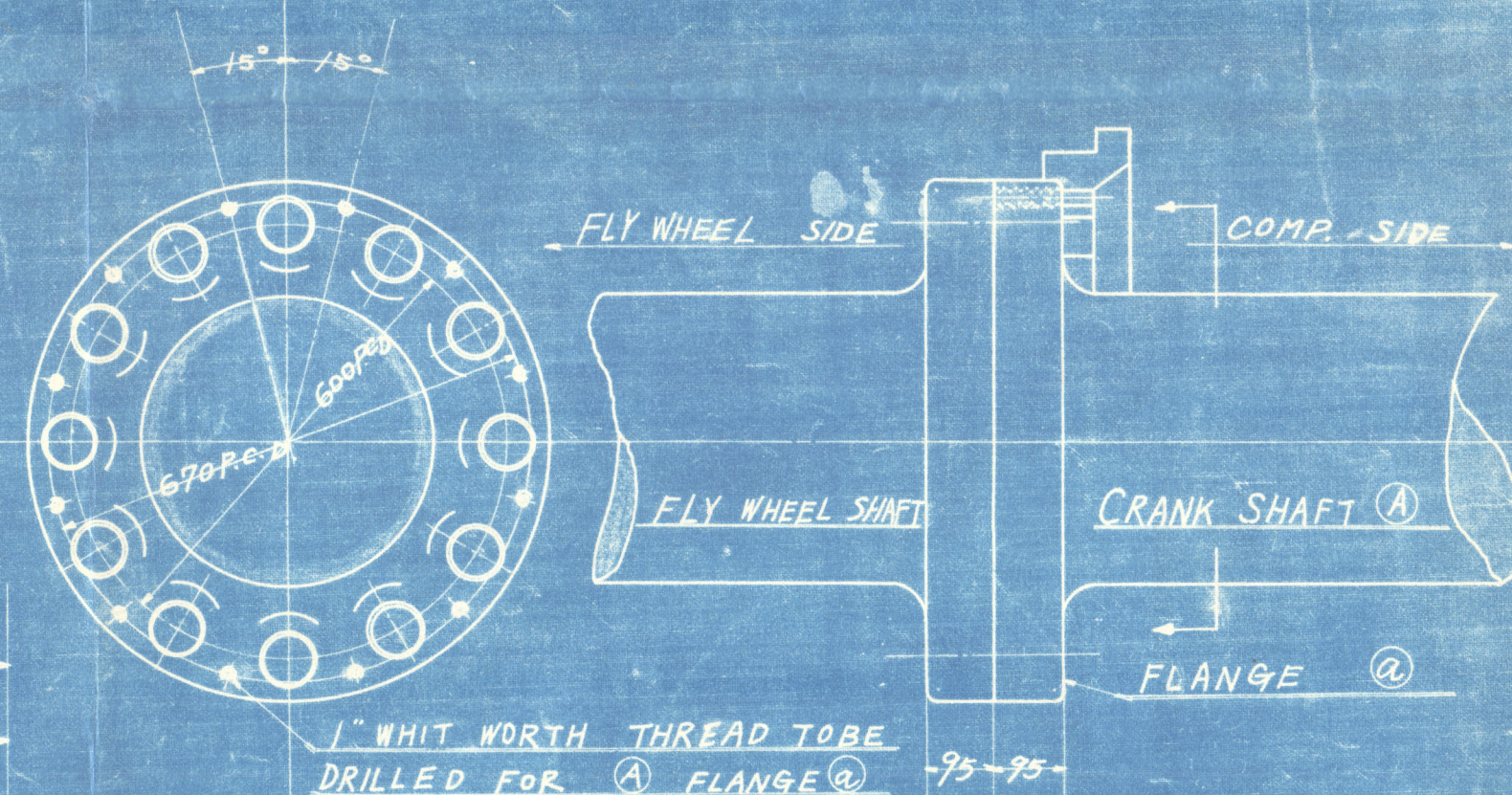
MATERIAL :- SIEMENS MARTIN STEEL

ALL SURFACES MARKED "A" TO BE PRIMARY FINISHED EXCEPT FINE FINISHED PARTS MARKED (4)

NO REQUIRED	MARK	DISCRIPTION	WEIGHT IN KG (LBS)
1	A	4-THROW CRANK SHAFT	13900



DETAIL I



FINISH	DEGREE
MARKS	DESCRIPTION
(3)	ORDINARY FINISH
(4)	FINE FINISH

1. FORGINGS ARE TO COMPLY WITH BRITISH LLOYD'S AND TEISHINSHO'S REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
2. FORGINGS ARE TO BE MADE FROM SOUND INGOT AND TO BE GRADUALLY AND UNIFORMLY FORGED. THE SECTIONAL AREA OF THE ORIGINAL INGOT IS TO EXCEED 5 TIMES THE SECTIONAL AREA OF THE BODY OF THE FORGING (AS FORGED). MARKED WITH Δ AND MORE OVER 15 TIMES THE SECTIONAL AREA AT ANY PARTS OF THE FORGING (AS FORGED).
3. FORGINGS ARE TO BE THOROUGHLY ANNEALED IN PROPER WAY AFTER FINAL FORGING.
4. THE DIMENSIONS GIVEN IN THE DRAWING ARE FOR FINISHED SIZE.
5. THE FORGING IS TO BE ACCURATELY MACHINED AND FINISHED SMOOTHLY TO THE GIVEN DIMENSIONS.
6. METHOD OF TESTING, DIMENSION AND NUMBER OF TEST PIECES, DIRECTION AND POSITION FROM WHERE THE TEST PIECES ARE TAKEN FROM THE FORGING, MUST COMPLY WITH BRITISH LLOYD'S AND TEISHINSHO'S REQUIREMENTS.

- PARTICULARS OF MAIN DIESEL ENGINE TYPE 4ST-60
- 1. TYPE 2 CYCLE SINGLE ACTING DIESEL ENGINE
 - 2. CYL. DIA. 600 mm
 - 3. C. NO. OF CYL. 4
 - 4. DESIGNED MAX PRESS. IN THE CYL. 40 kg/cm²
 - 5. STROKE 1060 mm
 - 6. DISTANCE BET. INNER EDGE OF MAIN BEARING 830 mm

主機械
大連汽船株式會社貨物船
河北丸
K. Y. MAHOU MARU
Isosaki Report No. 1794
4ST-60

工事番号	№ 491
設計番号	K(491)500
製圖	鈴木 工
檢圖	鈴木 工
出圖	鈴木 工
光學	鈴木 工
及	鈴木 工
模	鈴木 工
試	鈴木 工

備附圖面番号
Px-1397

4ST-60

CRANK SHAFT FOR MAIN ENGINE,
ARR. OF CRANK SHAFT & FLYWHEEL SHAFT

主機械

M.V. "KAHOKU" MARU.

Nagasaki Report No. 1794.

組立圖

大連汽船株式會社貨物船

河北丸

完成圖



工番号

No 491

區分

特番号
別事号

K(491)500

製圖	寫圖	檢圖	設計	設計	設計
	荒木レズエ		設計	設計	設計
出圖	光及枚數	木型鑄	機工務	1	實驗
		鑄鑄	檢査	1	外業
		鑄鋼	鍛冶		船工
		鑄機	銅工		船設
		機仕	製罐		電圖
			工具		船圖
					監督

RETAIN

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