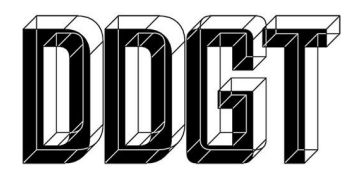


PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	ENGINE BLOCK	ALUMINUM	
2	1	CRANK SHAFT	STEEL	
3	3	PISTON	STEEL	
4.1	3	CONNECTING ROD TOP	STEEL	
4.2	3	CONNECTING ROD BOTTOM	STEEL	
4.3	6	ISO METRIC HEXAGON PRECISION BOLTS AND SCREWS	STEEL, MILD	AS 1110 - M4 x 30
5	3	PISTON PIN	STEEL	



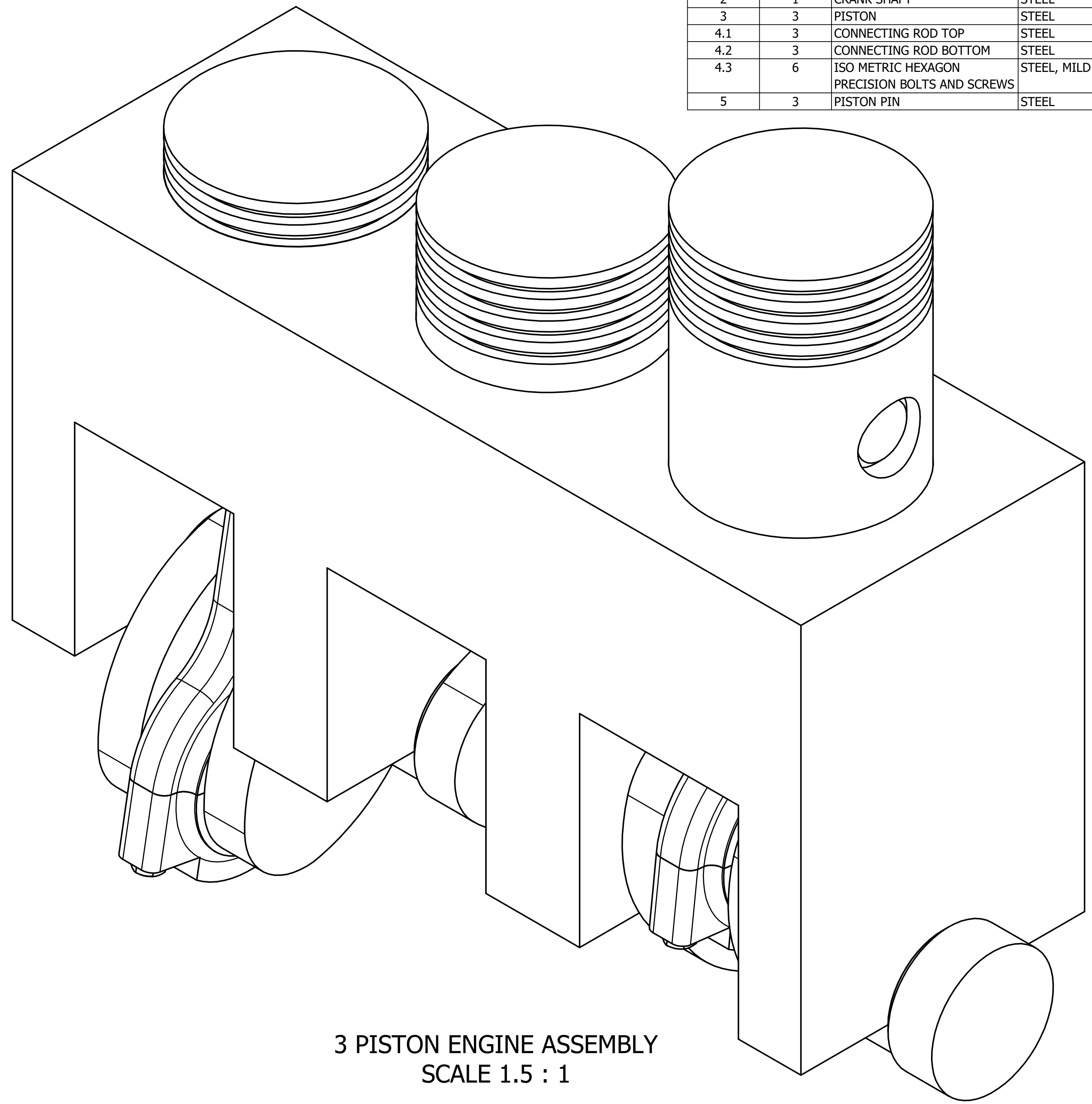
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

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GENERAL NOTES:
ALL ROUNDS AND
FILLETS 3mm UNLESS
OTHERWISE SPECIFIED.

LEGEND:

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ▽ DEPTH

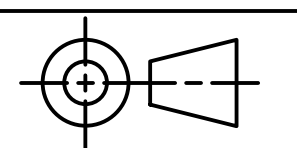


3 PISTON ENGINE ASSEMBLY
SCALE 1.5 : 1

METRIC

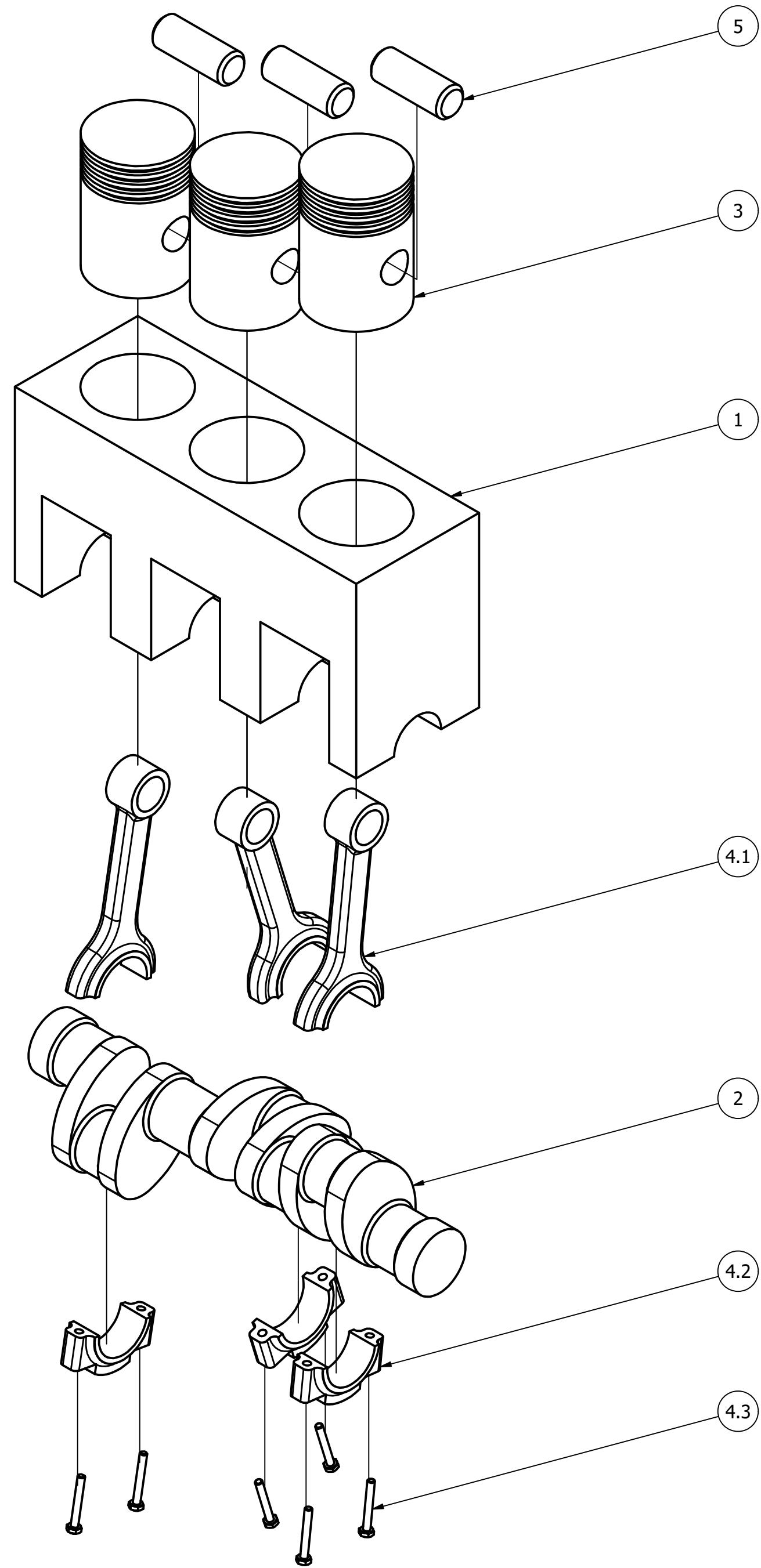
ASSIMILATED DESIGN

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TOLERANCES UNLESS SPECIFIED:
MILLIMETERS:
WHOLE NUMBER = ±.5
X = ±.25
XX = ±.12
ANGLES ±1 DEGREE
SURFACES 32

COURSE:	DDGT 240
INVENTOR DRAWING NAME:	3 PISTON ENGINE
FIGURE:	20.69
DRAFTER:	C. HUMPHREYS
DATE:	11/22/2021
SCALE:	AS NOTED
PAGE #:	1 OF 6



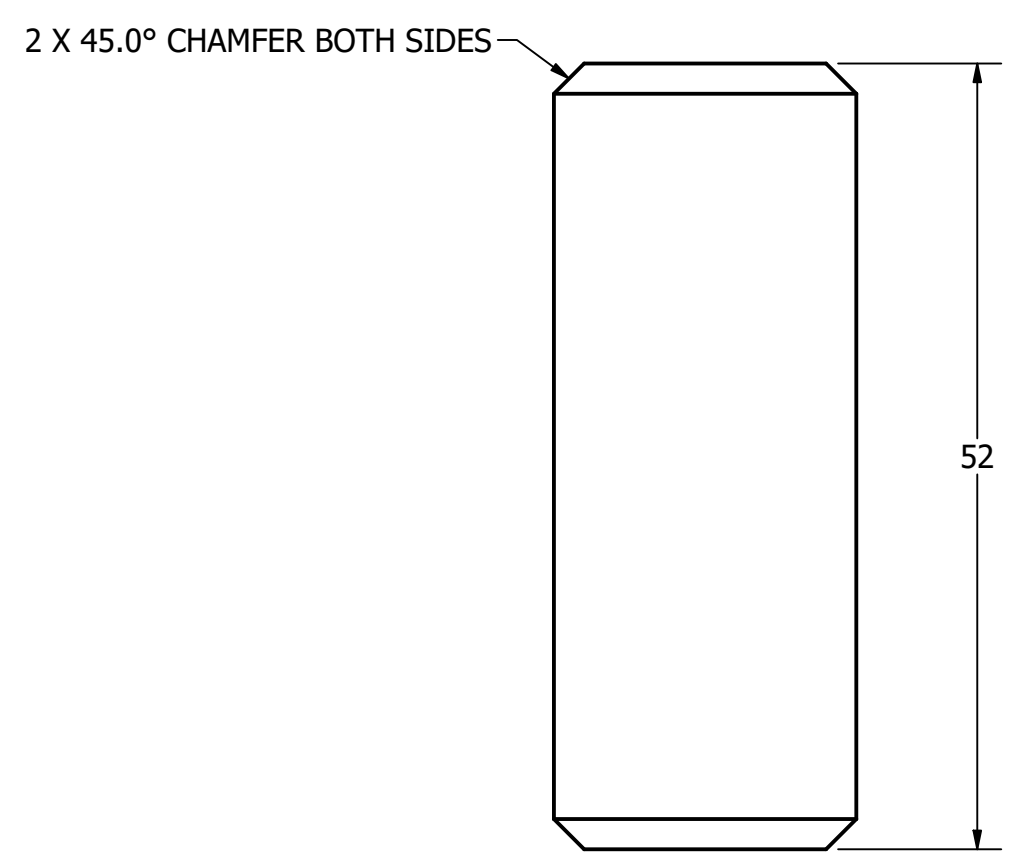
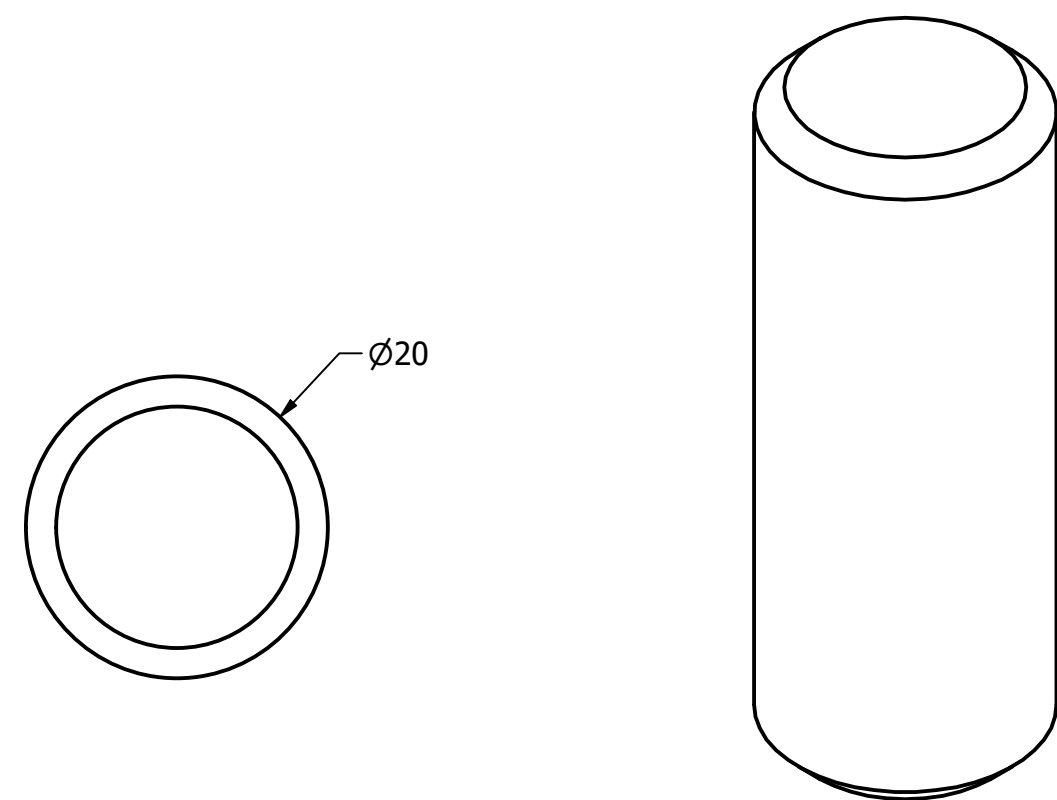
EXPLODED 3 PISTON ENGINE ASSEMBLY
SCALE 1 / 2.3

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	ENGINE BLOCK
2	1	CRANK SHAFT
5	3	PISTON PIN
3	3	PISTON
4.1	3	CONNECTING ROD TOP
4.2	3	CONNECTING ROD BOTTOM
4.3	6	ISO METRIC HEXAGON PRECISION BOLTS AND SCREWS

DDGT
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY
WWW.DDGT.NET

GENERAL NOTES:
ALL ROUNDS AND
FILLETS 3mm UNLESS
OTHERWISE SPECIFIED.

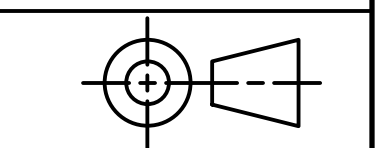
LEGEND:
Ø DIAMETER
R RADIUS
° DEGREES
▽ DEPTH



PISTON PIN
SCALE 2 : 1

METRIC

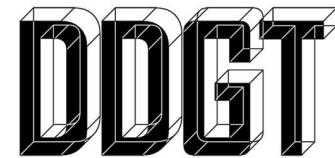
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X = ±.25
XX = ±.12
ANGLES ±1 DEGREE
SURFACES 32

COURSE:	DDGT 240
INVENTOR DRAWING NAME:	3 PISTON ENGINE
FIGURE:	20.69
DRAFTER:	C. HUMPHREYS
DATE:	11/22/2021
SCALE:	AS NOTED
PAGE #:	2 OF 6

PARTS LIST		
ITEM	QTY	PART NUMBER
2	1	CRANK SHAFT



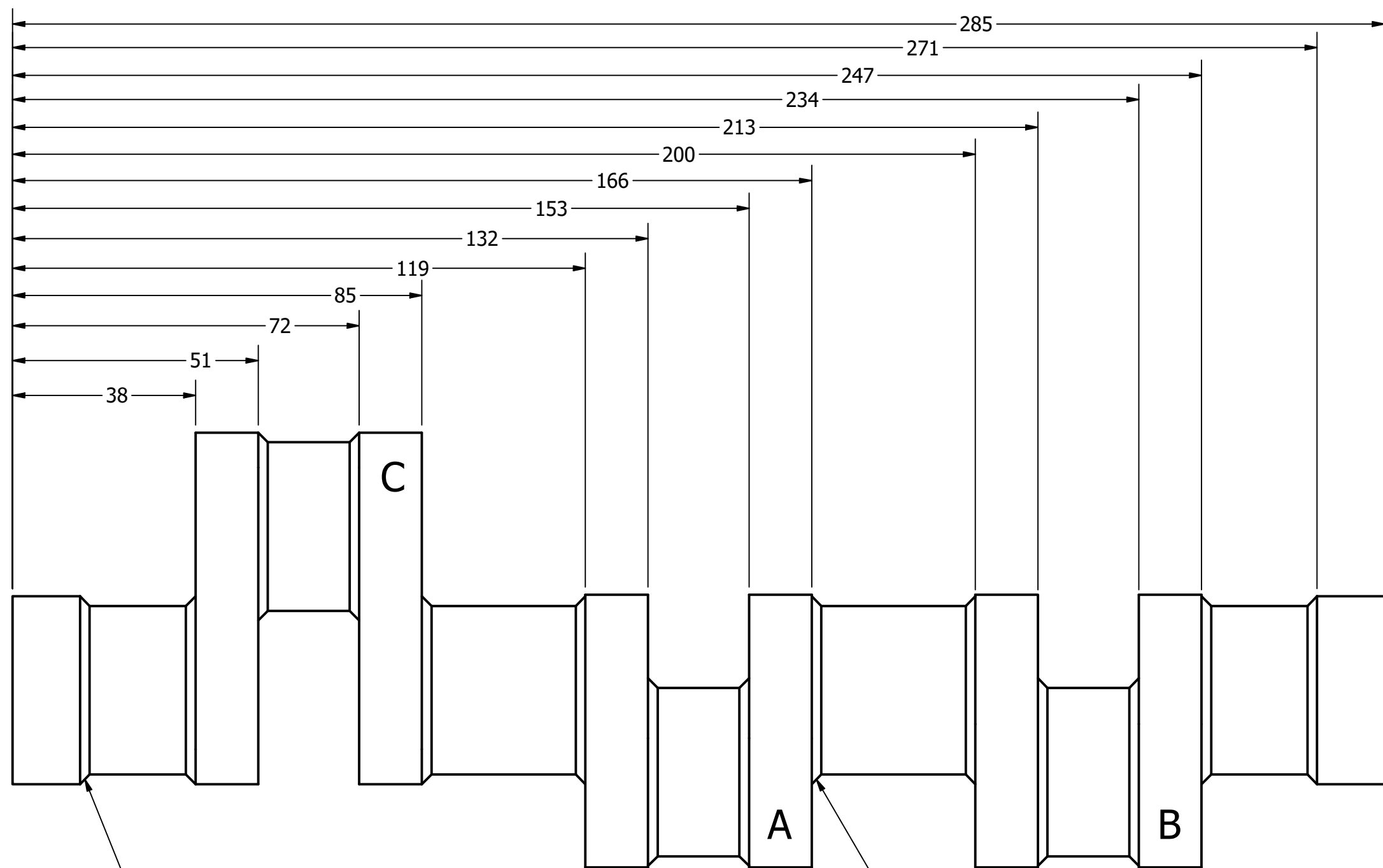
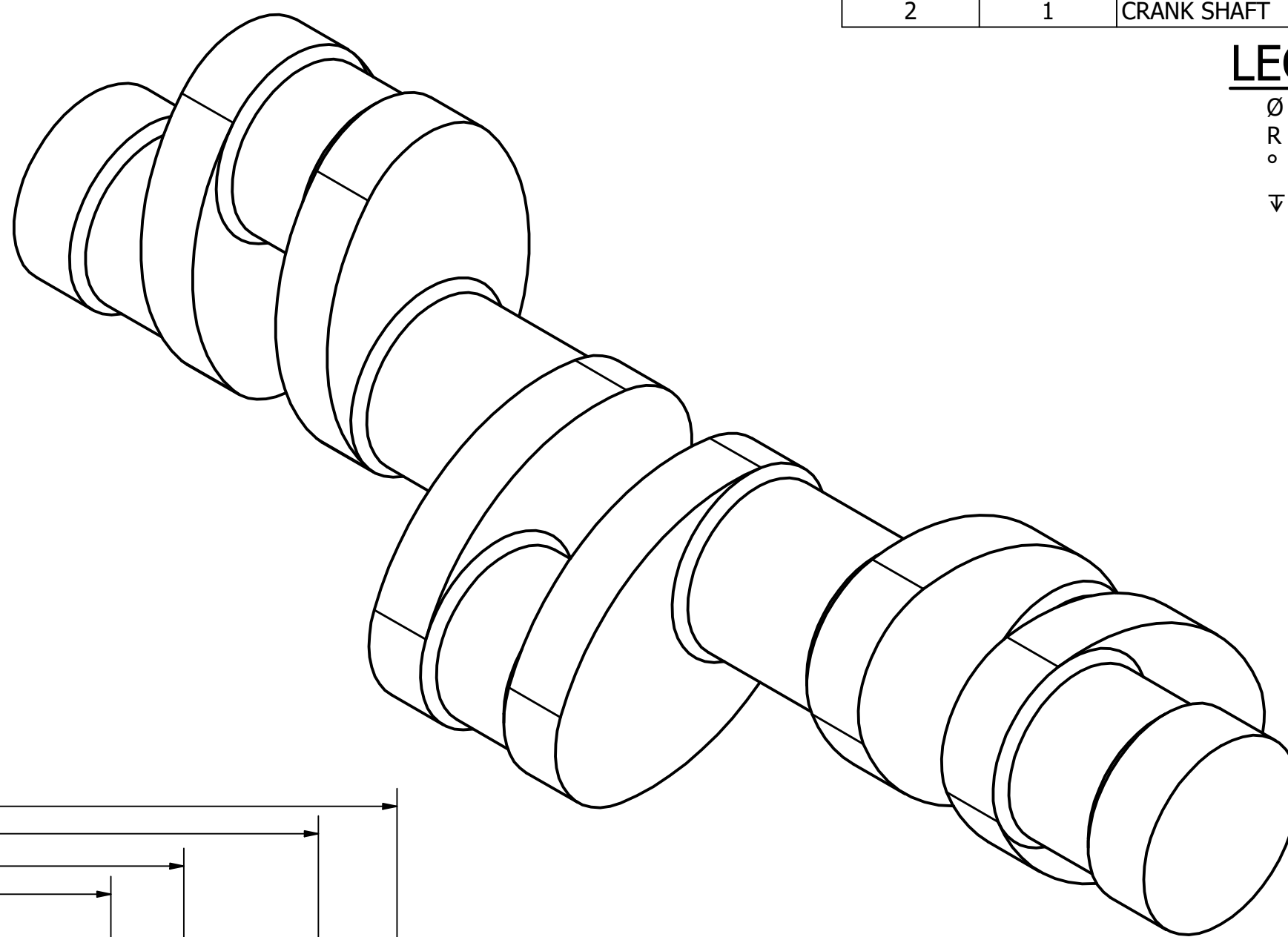
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

WWW.DDGT.NET

GENERAL NOTES:
ALL ROUNDS AND
FILLETS 3mm UNLESS
OTHERWISE SPECIFIED.

LEGEND:

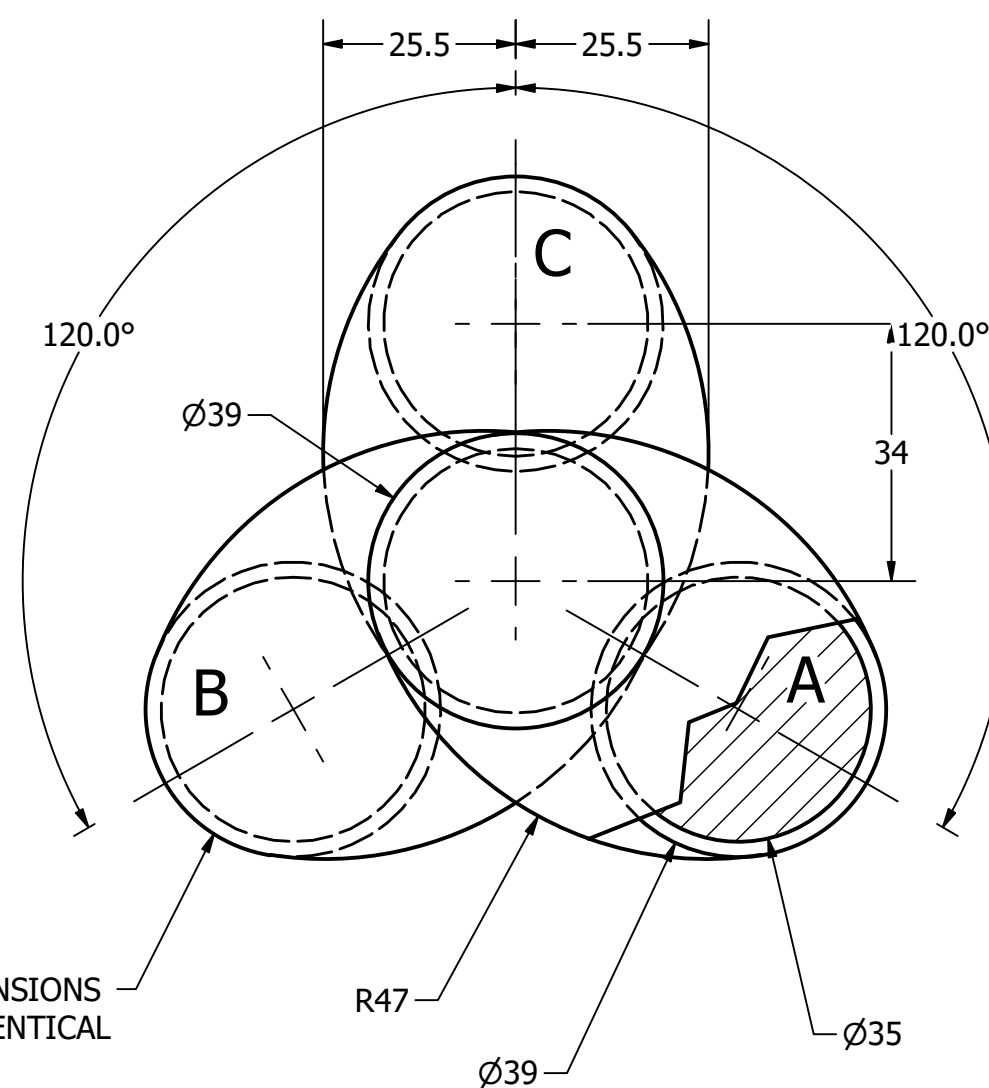
- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ▽ DEPTH



CHAMFER 1 x 45° AT LOBES

2 X 45.0° CHAMFER

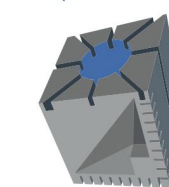
CRANK SHAFT
SCALE 1



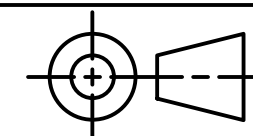
ALL LOBE DIMENSIONS
IDENTICAL

METRIC

ASSIMILATED
DESIGN



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XX = ±.12
ANGLES ±1 DEGREE
SURFACES 32

COURSE: DDGT 240

INVENTOR DRAWING NAME:
3 PISTON ENGINE

FIGURE: 20.69

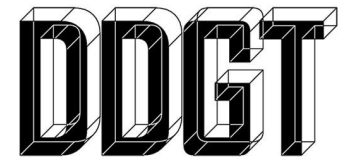
DRAFTER: C. HUMPHREYS

DATE: 11/22/2021

SCALE: AS NOTED

PAGE #: 3 OF 6

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	ENGINE BLOCK



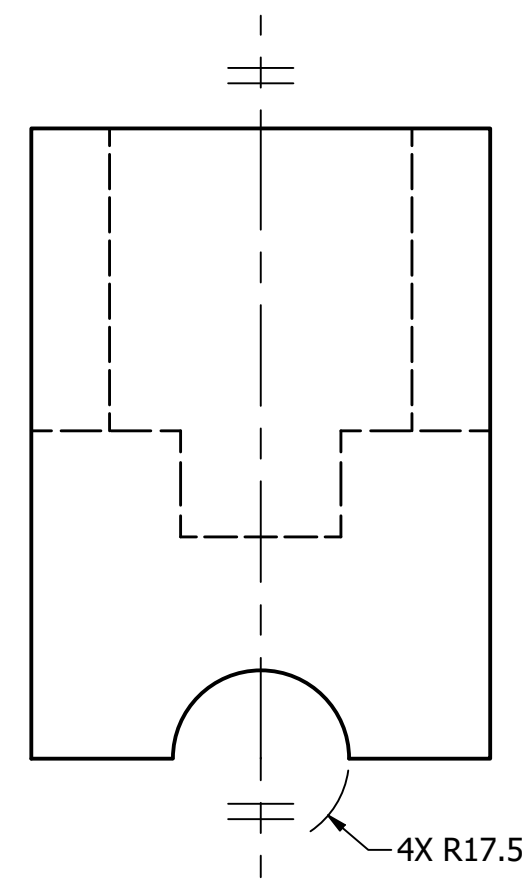
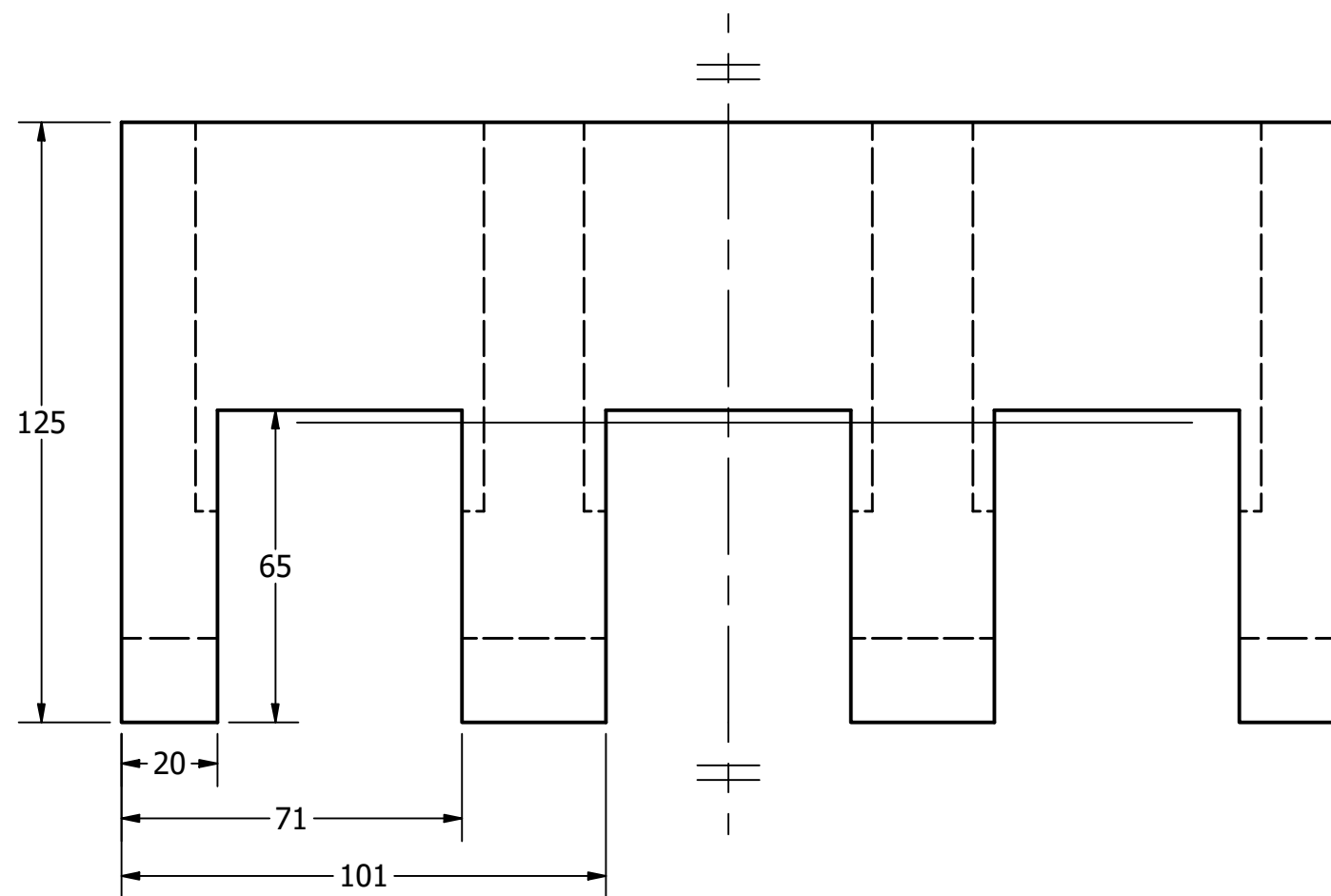
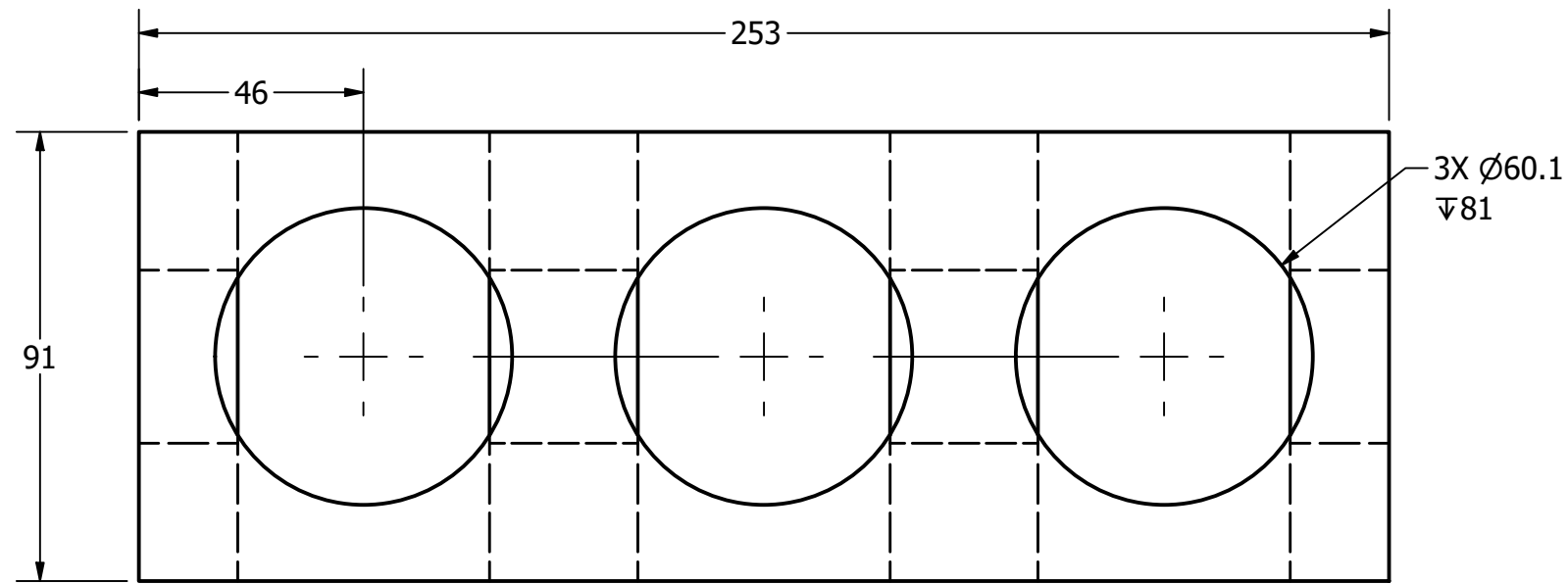
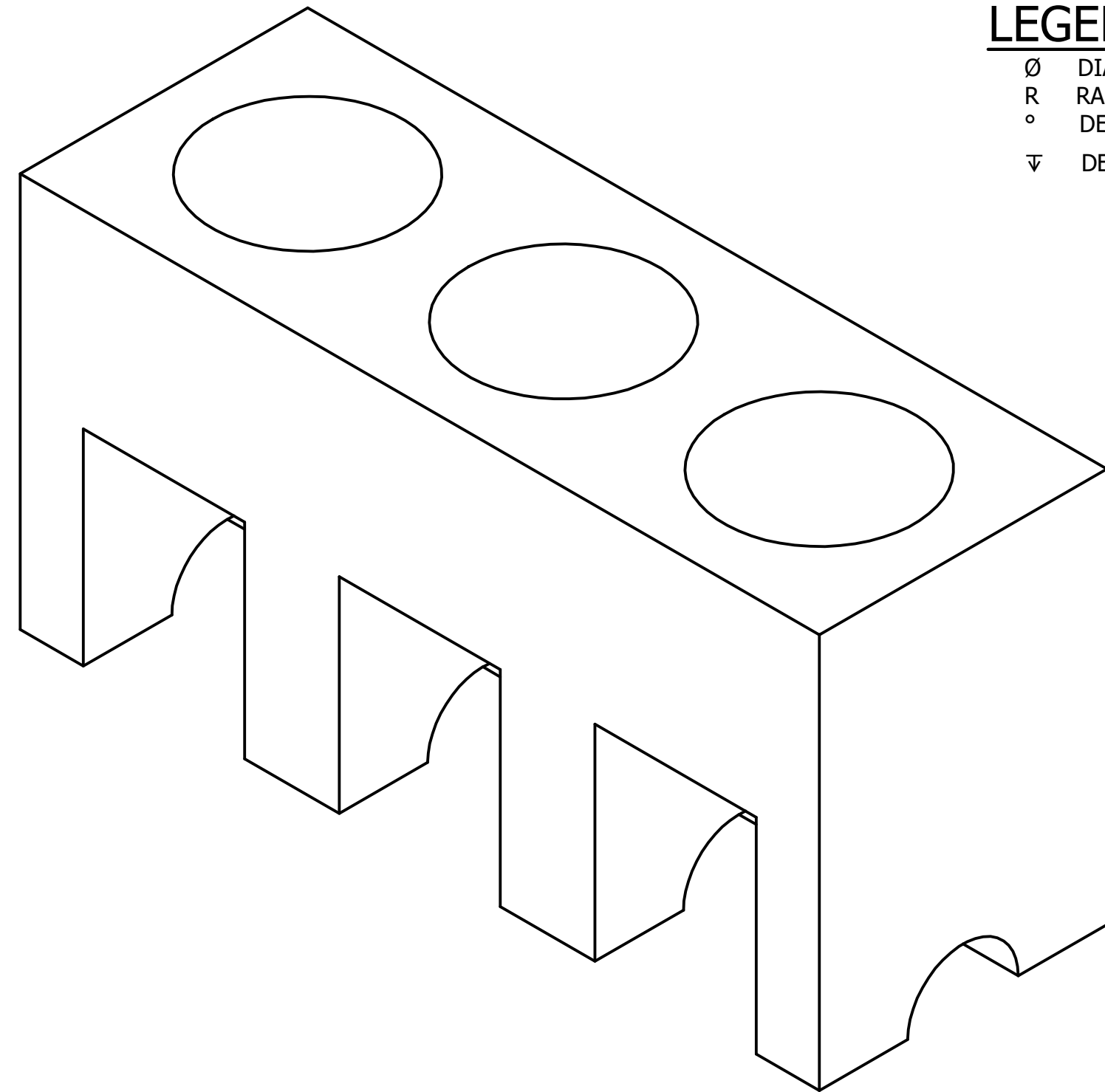
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

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LEGEND:

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- √ DEPTH

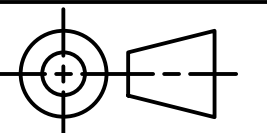


ENGINE BLOCK
SCALE 1 : 1.5

METRIC

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ANGLES ±1 DEGREE
SURFACES 32√

COURSE: DDGT 240

INVENTOR DRAWING NAME:
3 PISTON ENGINE

FIGURE: 20.69

DRAFTER: C. HUMPHREYS

DATE: 11/22/2021

SCALE: AS NOTED

PAGE #: 4 OF 6

PARTS LIST		
ITEM	QTY	PART NUMBER
3	3	PISTON



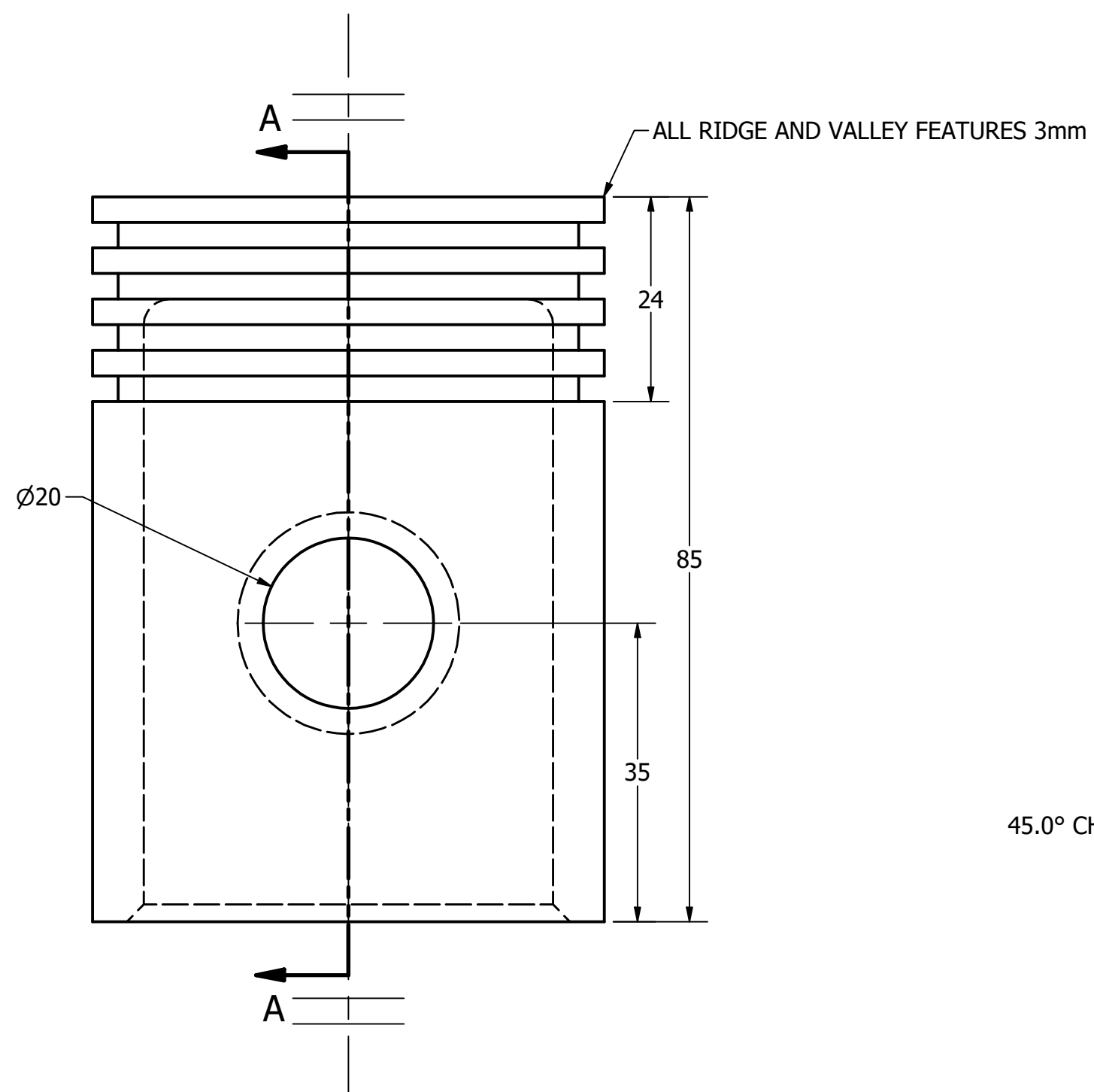
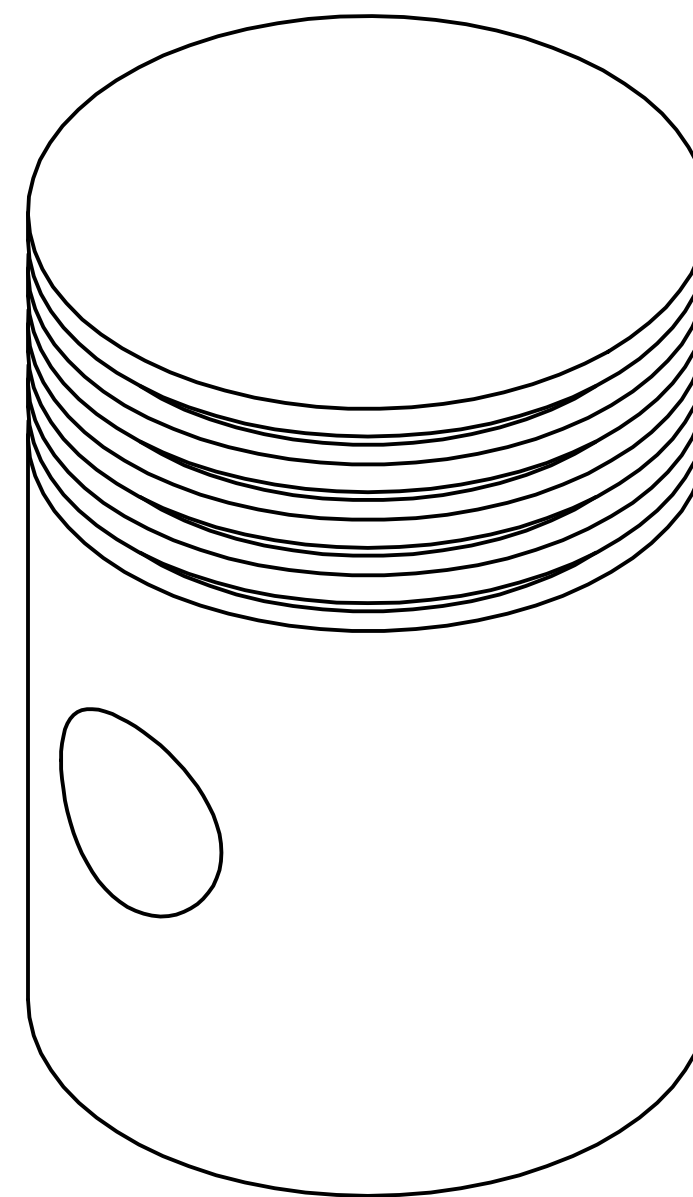
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

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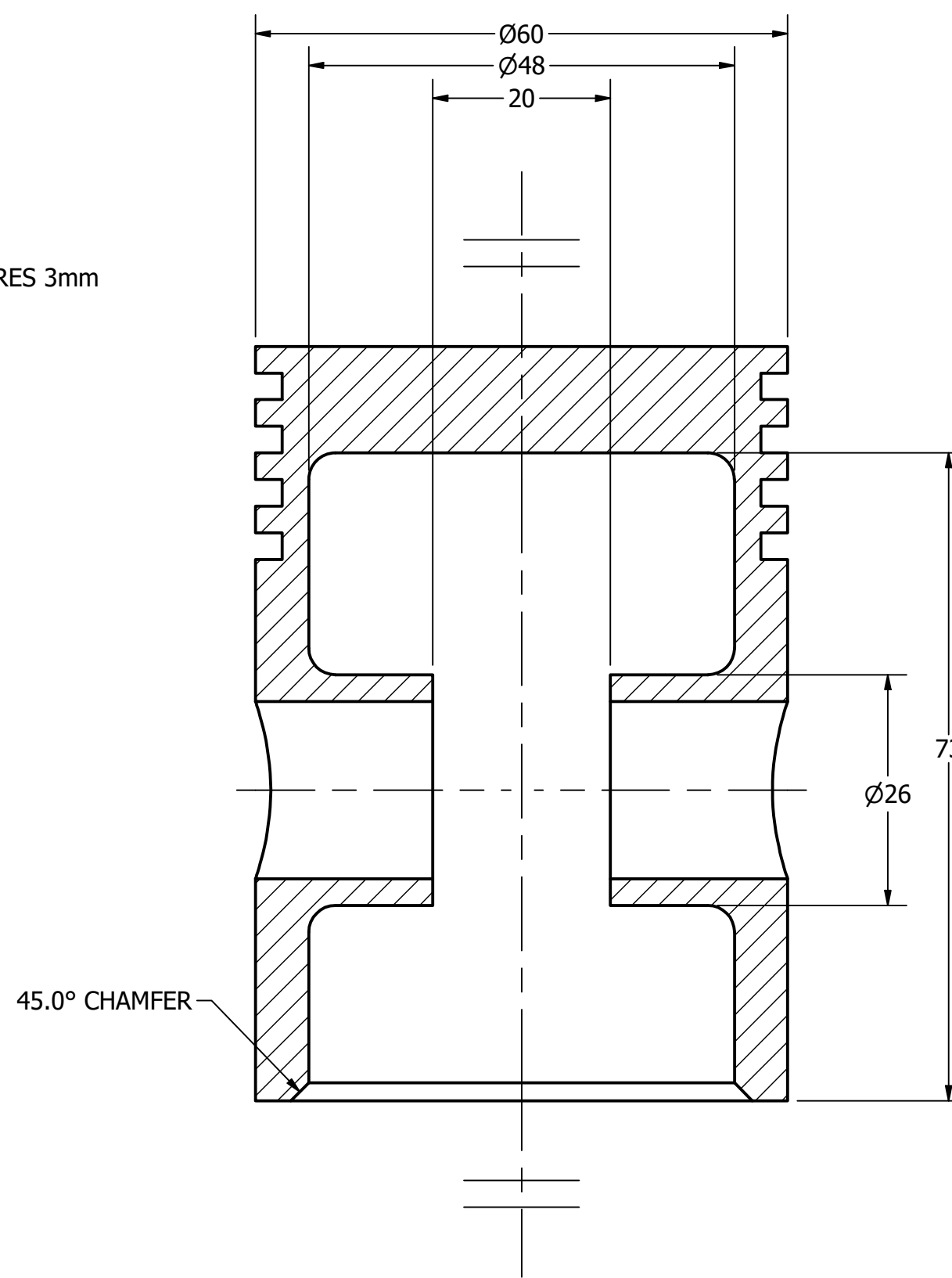
LEGEND:

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ∇ DEPTH

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OTHERWISE SPECIFIED.



PISTON
SCALE 1.5 : 1

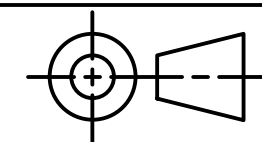


SECTION A-A
SCALE 1.5 : 1

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ANGLES ±1 DEGREE
SURFACES $\sqrt{\text{ }}$

COURSE: DDGT 240

INVENTOR DRAWING NAME:
3 PISTON ENGINE

FIGURE: 20.69

DRAFTER: C. HUMPHREYS

DATE: 11/22/2021

SCALE: AS NOTED

PAGE #: 5 OF 6

METRIC

