

Introductory Machine Design 254

Design Report 2

Machine Drawing

Due date: 24 October 2025 at 17:00

Student Name 1: Le Roux Lategan
Student Number 1: 28220757

Student Name 2: Luca de Vries
Student Number 2: 27952878

Bearing A Designation (end cap): 61905-2RS1

Bearing B Designation (base cover): NU 1005

List of drawings (*create your own drawing number system*)

Drawing		Student Name
Title	Number	
SHAFT	1	L LATEGAN
DRIVE HEAD ASSEMBLY	2	L LATEGAN
END CAP	3	L LATEGAN
BASE COVER	4	L DE VRIES
BODY	5	L DE VRIES
BRACKET	6	L DE VRIES
N/A	7	N/A

Plagiarism Declaration

- I have read and understand the Stellenbosch University Policy on Plagiarism and the definitions of plagiarism and self-plagiarism contained in the Policy [Plagiarism: The use of the ideas or material of others without acknowledgement, or the re-use of one's own previously evaluated or published material without acknowledgement or indication thereof (self-plagiarism or text-recycling)].
- I also understand that direct translations are plagiarism, unless accompanied by an appropriate acknowledgement of the source. I also know that verbatim copy that has not been explicitly indicated as such, is plagiarism.
- I know that plagiarism is a punishable offence and may be referred to the University's Central Disciplinary Committee (CDC) who has the authority to expel me for such an offence.
- I know that plagiarism is harmful for the academic environment and that it has a negative impact on any profession.
- Accordingly, all quotations and contributions from any source whatsoever (including the internet) have been cited fully (acknowledged); further, all verbatim copies have been expressly indicated as such (e.g. through quotation marks) and the sources are cited fully.
- I declare that, except where a source has been cited, the work contained in this assignment is my own work and that I have not previously (in its entirety or in part) submitted it for grading in this module/assignment or another module/assignment.

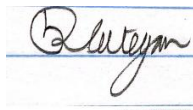
Team Member 1:

Name: Le Roux Lategan

Student Number1: 28220757

Date: 19/10/2025

Signature:

**Team Member 2:**

Name: Luca de Vries

Student Number: 27952878

Date: 19/10/2025

Signature:

**Plagiaat Verklaring**

- Ek het die Stellenbosch Universiteit Plagiaatbeleid gelees en verstaan, sowel as die definisies van plagiaat en selfplagiaat soos beskryf in die Beleid [Plagiaat: Die gebruik van ander se idees of materiaal sonder erkenning, of die hergebruik van 'n persoon se eie voorheen geëvalueerde of gepubliseerde materiaal sonder erkenning of 'n aanduiding daarvan (selfplagiaat of tekshergebruik)].
- Ek verstaan ook dat direkte vertalings plagiaat is, tensy vergesel deur 'n gepaste erkenning van die bron. Ek verstaan ook dat woordelike aanhalings wat nie uitdruklik as sodanig aangedui is nie, plagiaat is.
- Ek weet dat plagiaat 'n strafbare oortreding is en verwys mag word na die Universiteit se Sentrale Dissiplinêre Komitee (SDK) wat die gesag het om my uit die universiteit te skors vir so 'n oortreding.
- Ek weet dat plagiaat skadelik is vir die akademiese omgewing en dat dit negatiewe impak het op enige professie.
- Dienooreenkomstig is alle aanhalings en bydraes vanuit enige bron (ingesluit die internet) volledig verwys (erken); verder, alle woordelike aanhalings is uitdruklik as sodanig aangedui (bv met aanhalingstekens) en die bronne is volledig erken.
- Ek verklaar dat, behalwe waar die bron aangehaal word, die werk in hierdie skryfstuk vervat my eie oorspronklike werk is en dat ek dit nie vantevore (in die geheel of gedeeltelik) ingehandig het vir bepunting in hierdie module/werkstuk of 'n ander module/werkstuk nie.

Spanlid 1:

Naam:

Studentenommer:

Datum:

Handtekening:

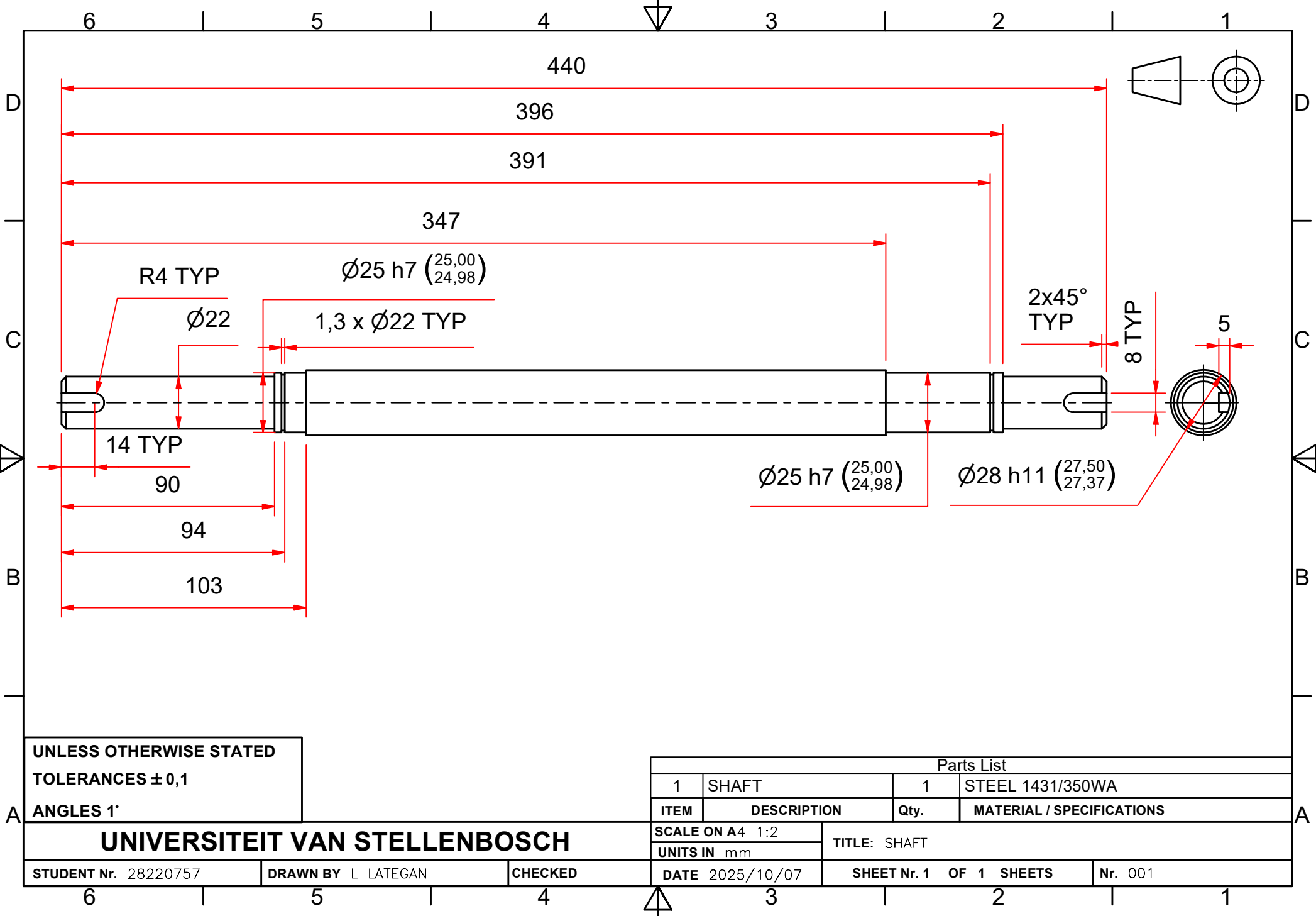
Spanlid 2:

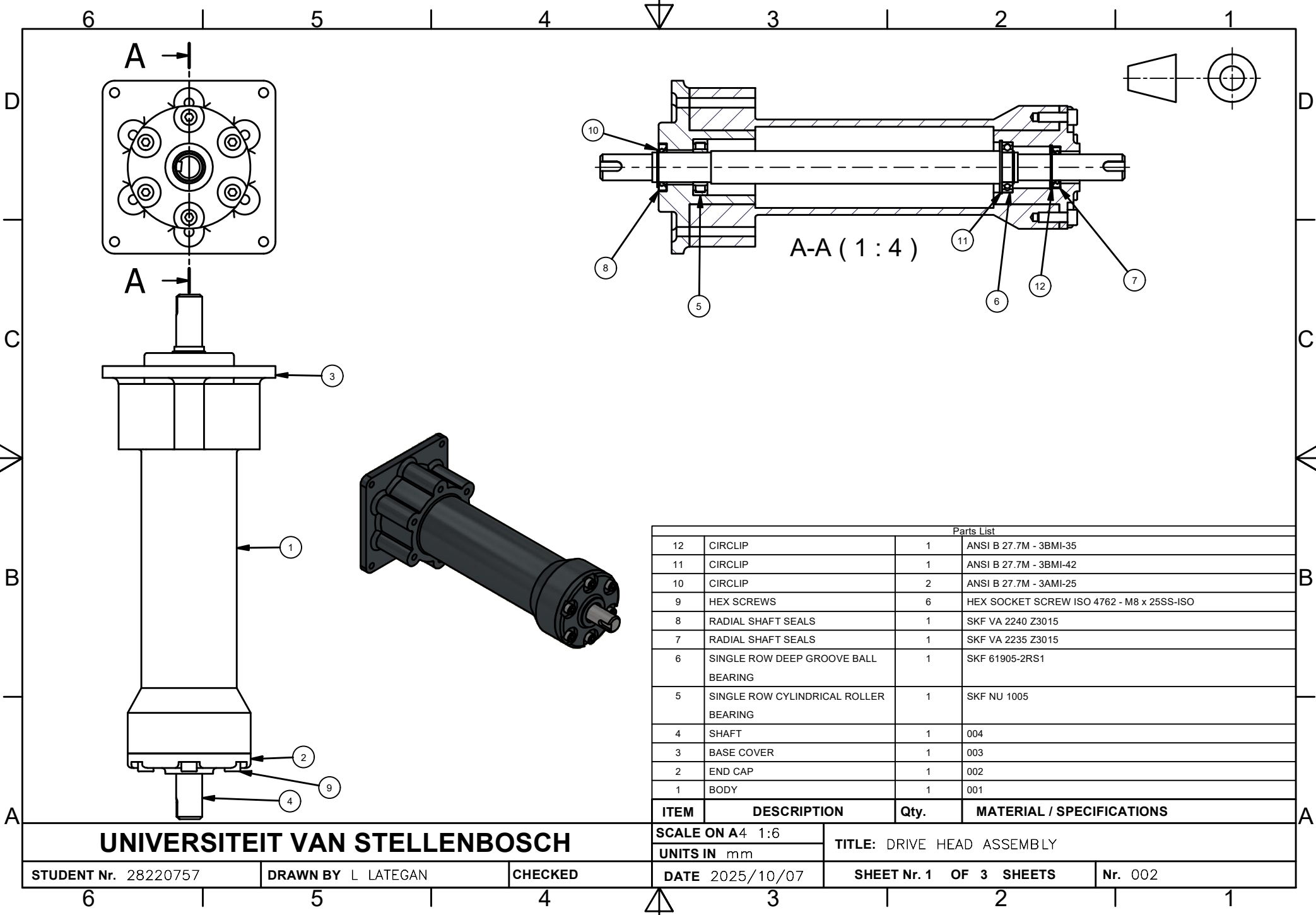
Naam:

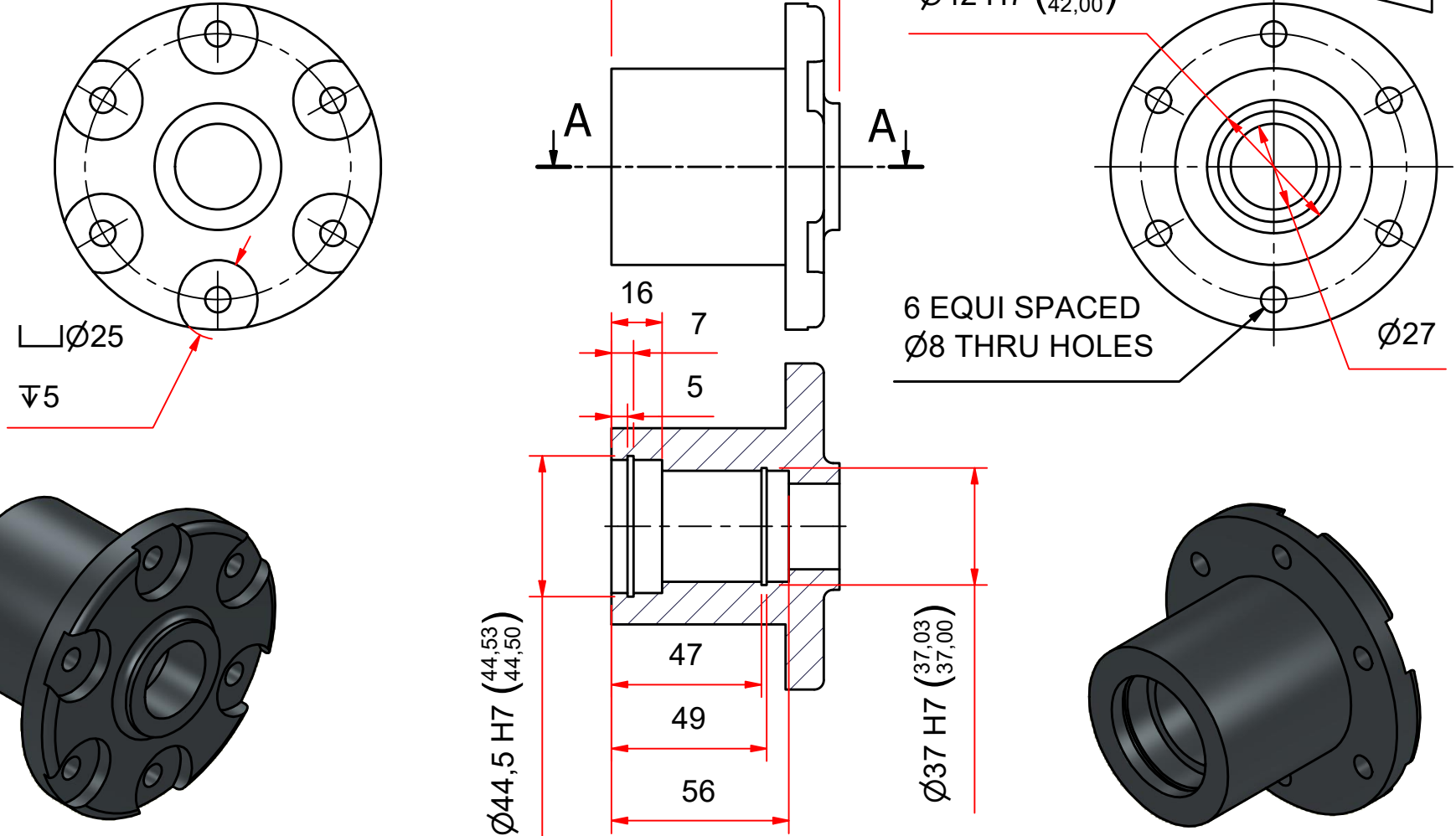
Studentenommer:

Datum:

Handtekening:







UNLESS OTHERWISE STATED
TOLERANCES $\pm 0,1$

ANGLES 1°

UNIVERSITEIT VAN STELLENBOSCH

STUDENT Nr. 28220757

DRAWN BY L LATEGAN

CHECKED

SCALE ON A4 1:2

UNITS IN mm

DATE 2025/10/07

Parts List

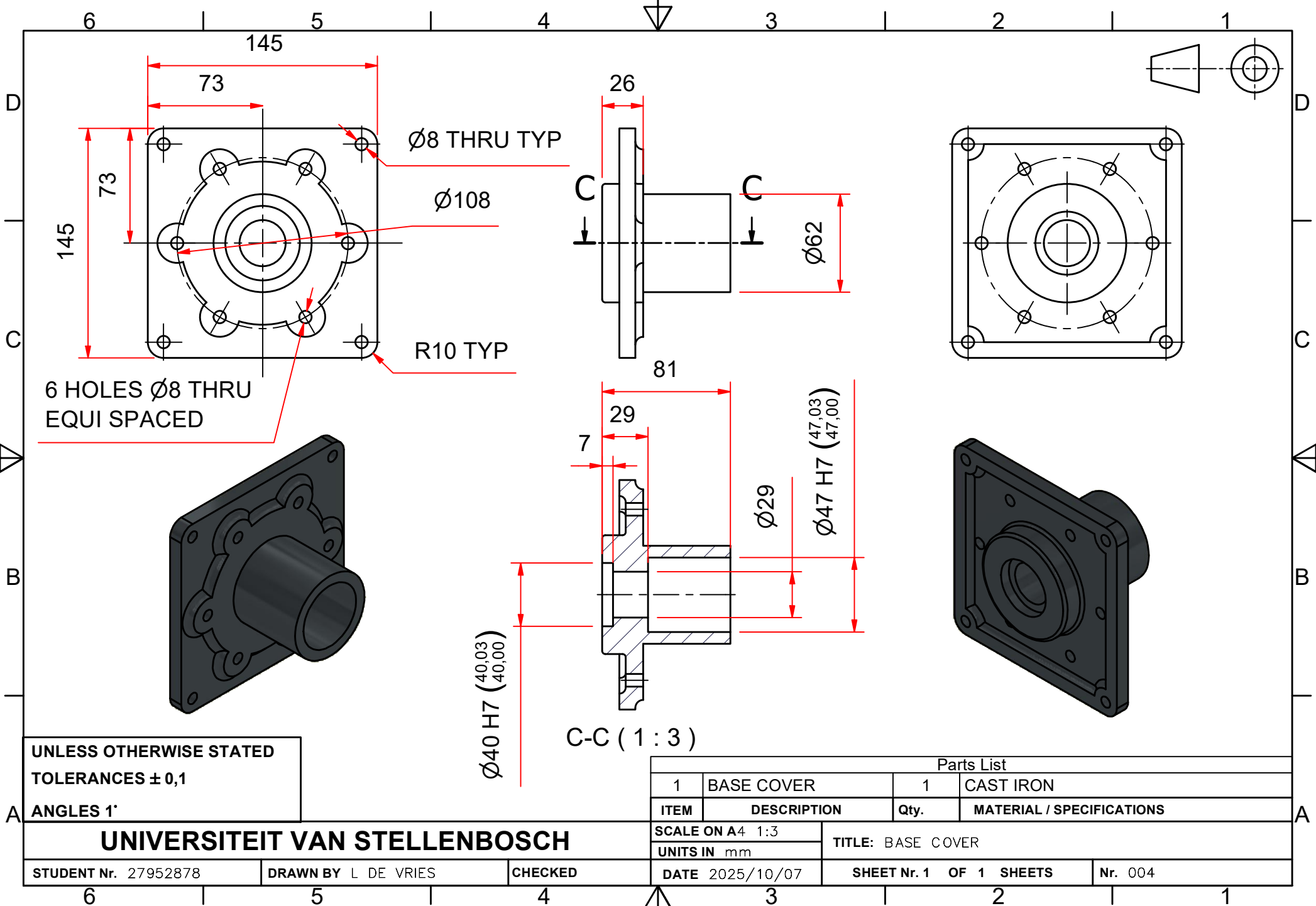
1	END CAP	1	CAST IRON
ITEM	DESCRIPTION	Qty.	MATERIAL / SPECIFICATIONS

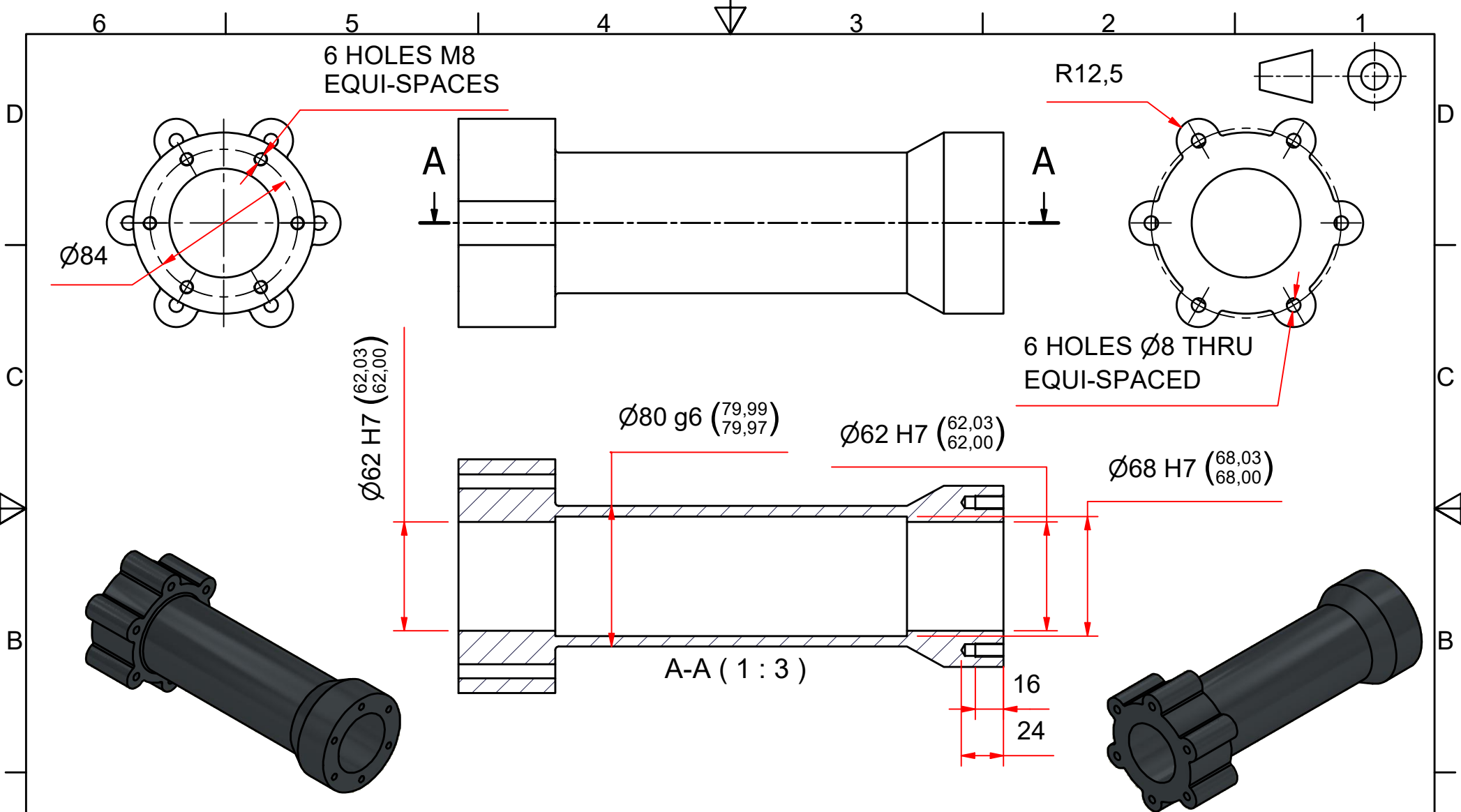
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SHEET Nr. 1 OF 1 SHEETS

Nr. 003

ALL FILLET RADII R3
ALLE VULSTALE R3





UNLESS OTHERWISE STATED

TOLERANCES $\pm 0,1$

ANGLES 1°

ALL FILLET RADII R2
ALLE VULSTRALE R2

UNIVERSITEIT VAN STELLENBOSCH

STUDENT Nr. 27952878

DRAWN BY L DE VRIES

CHECKED

SCALE ON A4 1:3

UNITS IN mm

DATE 2025/10/07

Parts List

1 BODY

1 CAST IRON

ITEM

DESCRIPTION

Qty.

MATERIAL / SPECIFICATIONS

TITLE: BODY

SHEET Nr. 1 OF 1 SHEETS

Nr. 005

