MECHATHON ENGG. Pvt. Ltd.

Internship Report

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Starting Date: 2/08/2021

Ending Date: _____

Mechathon

Engineering

Part no.	Drawing No.	Description
MEHPP001	MEHPD001	Cylinder cap
MEHPP002	MEHPD002	Cylinder cap (outer)
MEHPP003	MEHPD003	Hexaplux Head
MEHPP004	MEHPD004	NRV ball retainer RH (DISCHARGE OUTER)
MEHPP005	MEHPD005	NRV ball retainer LH (DISCHARGE OUTER)
MEHPP006	MEHPD006	NRV ball retainer (DISCHARGE INNER)
MEHPP007	MEHPD007	NRV seat RH (SUCTION OUTER)
MEHPP008	MEHPD008	NRV seat LH (SUCTION OUTER)
MEHPP009	MEHPD009	NRV seat (SUCTION INNER)
MEHPP010	MEHPD010	Stuffing box
MEHPP011	MEHPD011	Bottom plate (Slider block)
MEHPP012	MEHPD012	Bearing end cap (RH)
MEHPP013	MEHPD013	Bearing end cap (LH)
MEHPP014	MEHPD014	Connecting rod (bottom)
MEHPP015	MEHPD015	Connecting rod (top)
MEHPP016	MEHPD016	Crank Case internal support cap
MEHPP017	MEHPD017	Crank Case internal support
MEHPP018	MEHPD018	Eccentric
MEHPP019	MEHPD019	Flange plate for eccentric
MEHPP020	MEHPD020	Rear plate (slider block)
MEHPP021	MEHPD021	Seal housing for slider
MEHPP022	MEHPD022	Side plate (slider block) (LH)
MEHPP023	MEHPD023	Side plate (slider block) (RH)
MEHPP024	MEHPD024	Slider block
MEHPP025	MEHPD025	Locking nut for plunger
MEHPP026	MEHPD026	Top plate (slider block)
MEHPP027	MEHPD027	Block connecting bracket
MEHPP028	MEHPD028	Bush (for connecting big end)
MEHPP029	MEHPD029	Bush (for crank shaft assembly)
MEHPP030	MEHPD030	Dead end cover
MEHPP031	MEHPD031	Slider pin
MEHPP032	MEHPD032	Half ring for plunger
MEHPP033	MEHPD033	Inner spacer for eccentric
MEHPP034	MEHPD034	NRV intake ball retainer
MEHPP035	MEHPD035	Outer spacer for eccentric
MEHPP036	MEHPD036	Plunger
MEHPP037	MEHPD037	Sleeve for slider
MEHPP038	MEHPD038	Crank shaft
MEHPP039	MEHPD039	Slider
MEHPP040	MEHPD040	Stuffing box cap

Part Name: MEHPP001

Part Number: Cylinder cap

Drawing Name: MEHPD001

Drawing Number : Cylinder cap

Part Name: Cylinder cap (outer)

Part Number: MEHPP002

Drawing Name: Cylinder cap (outer)

Drawing Number: MEHPD002

Part Name: Hexaplux Head

Part Number: MEHPP003

Drawing Name:Hexaplux Head

Drawing Number: MEHPD003

Part Name: NRV ball retainer RH (DISCHARGE OUTER)

Part Number: MEHPP004

Drawing Name:NRV ball retainer RH (DISCHARGE OUTER)

Drawing Number: MEHPD004

Part Name: NRV ball retainer LH (DISCHARGE OUTER)

Part Number: MEHPP005

Drawing Name:NRV ball retainer LH (DISCHARGE OUTER)

Drawing Number: MEHPD005

Part Name: NRV ball retainer (DISCHARGE INNER)

Part Number: MEHPP006

Drawing Name:NRV ball retainer (DISCHARGE INNER)

Drawing Number: MEHPD006

Part Name: NRV seat RH (SUCTION OUTER)

Part Number: MEHPP007

Drawing Name:NRV seat RH (SUCTION OUTER)

Drawing Number: MEHPD007

Part Name: NRV seat LH (SUCTION OUTER)

Part Number: MEHPP008

Drawing Name:NRV seat LH (SUCTION OUTER)

Drawing Number: MEHPD008

Part Name: NRV seat (SUCTION INNER)

Part Number: MEHPP009

Drawing Name:NRV seat (SUCTION INNER)

Drawing Number: MEHPD009

Part Name: Stuffing box

Part Number: MEHPP010

Drawing Name:Stuffing box

Drawing Number: MEHPD010

Part Name: Bottom plate (Slider block)

Part Number: MEHPP011

Drawing Name:Bottom plate (Slider block)

Drawing Number: MEHPD011

Part Name: Bottom plate (Slider block)

Part Number: MEHPP012

Drawing Name: Bearing end cap (RH)

Drawing Number: MEHPD012

Part Name: Bearing end cap (LH)

Part Number: MEHPP013

Drawing Name: Bearing end cap (LH)

Drawing Number: MEHPD013

Part Name: Connecting rod (bottom)

Part Number: MEHPP014

Drawing Name: Connecting rod (bottom)

Drawing Number: MEHPD014

Part Name: Connecting rod (top)

Part Number: MEHPP015

Drawing Name: Connecting rod (top)

Drawing Number: MEHPD015

Part Name: Crank Case internal support cap

Part Number: MEHPP016

Drawing Name: Crank Case internal support cap

Drawing Number: MEHPD016

Part Name: Crank Case internal support

Part Number: MEHPP017

Drawing Name:Crank Case internal support

Drawing Number: MEHPD0017

Part Name: Eccentric

Part Number: MEHPP018

Drawing Name: Eccentric

Drawing Number: MEHPD018

Part Name: Flange plate for eccentric

Part Number: MEHPP019

Drawing Name: Flange plate for eccentric

Drawing Number: MEHPD019

Part Name: Rear plate (slider block)

Part Number: MEHPP020

Drawing Name:Rear plate (slider block)

Drawing Number: MEHPD020

Part Name: Seal housing for slider

Part Number: MEHPP021

Drawing Name:Seal housing for slider

Drawing Number: MEHPD021

Part Name: Side plate (slider block) (LH)

Part Number: MEHPP022

Drawing Name:Side plate (slider block) (LH)

Drawing Number: MEHPD022

Part Name: Side plate (slider block) (RH)

Part Number: MEHPP023

Drawing Name:Side plate (slider block) (RH)

Drawing Number: MEHPD023

Part Name: Slider block

Part Number: MEHPP024

Drawing Name:Slider block

Drawing Number: MEHPD024

Part Name: Locking nut for plunger

Part Number: MEHPP025

Drawing Name:Locking nut for plunger

Drawing Number: MEHPD025

Part Name: Top plate (slider block)

Part Number: MEHPP026

Drawing Name:Top plate (slider block)

Drawing Number: MEHPD026

Part Name: Block connecting bracket

Part Number: MEHPP027

Drawing Name:Block connecting bracket

Drawing Number: MEHPD027

Part Name: Bush (for connecting big end)

Part Number: MEHPP028

Drawing Name: Bush (for connecting big end)

Drawing Number: MEHPD028

Part Name: Bush (for crank shaft assembly)

Part Number: MEHPP029

Drawing Name:Bush (for crank shaft assembly)

Drawing Number: MEHPD029

Part Name: Dead end cover

Part Number: MEHPP030

Drawing Name: Dead end cover

Drawing Number: MEHPD030

Part Name: Slider pin

Part Number: MEHPP031

Drawing Name:Slider pin

Drawing Number: MEHPD031

Part Name: Half ring for plunger

Part Number: MEHPP032

Drawing Name:Half ring for plunger

Drawing Number: MEHPD032

Part Name: Inner spacer for eccentric

Part Number: MEHPP033

Drawing Name:Inner spacer for eccentric

Drawing Number: MEHPD033

Part Name: NRV intake ball retainer

Part Number: MEHPP034

Drawing Name:NRV intake ball retainer

Drawing Number: MEHPD034

Part Name: Outer spacer for eccentric

Part Number: MEHPP035

Drawing Name:Outer spacer for eccentric

Drawing Number: MEHPD035

Part Name: Plunger

Part Number: MEHPP036

Drawing Name:Plunger

Drawing Number: MEHPD036

Part Name: Sleeve for slider

Part Number: MEHPP037

Drawing Name:Sleeve for slider

Drawing Number: MEHPD037

Part Name: Crank shaft

Part Number: MEHPP038

Drawing Name:Crank shaft

Drawing Number: MEHPD038

Part Name: Slider

Part Number: MEHPP039

Drawing Name:Slider

Drawing Number: MEHPD039

Part Name: Stuffing box cap

Part Number: MEHPP040

Drawing Name: Stuffing box cap

Drawing Number: MEHPD040

Assembly Name : High Pressure Pump

Orientation : Orthographic view

Assembly Name : High Pressure Pump

Orientation : Front

Assembly Name : High Pressure Pump

Orientation : Side view

Assembly Name : High Pressure Pump

Orientation : Top view

Assembly Name : High Pressure Pump

BOLT	QTY	Mating Part 1 (Thread Side)	Mating Part 2 (Head Side)
M12	5	Bottom plate (Slider block)	Crank Case internal support (NO)
M10	10	Bottom plate (Slider block)	Rear plate (slider block)
M10	4	Side plate (slider block) (RH)	Rear plate (slider block)
M10	4	Side plate (slider block) (LH)	Rear plate (slider block)
M10	10	Top plate (slider block)	Rear plate (slider block)
M16	10	Crank Case internal support	Top plate (slider block)
M12	11	Side plate (slider block) (RH)	Bearing end cap (RH)
M12	11	Side plate (slider block) (LH)	Bearing end cap (RH)
M12	12	Connecting rod (top)	Connecting rod (bottom)
M10	24	Slider block	Seal housing for slider
M10	24	New Hexaplux Head	Stuffing box
M10	7	New Hexaplux Head	NRV ball retainer (RH, LH OUTER) & (INNER)
M10	7	New Hexaplux Head	NRV seat (RH, LH SUCTION OUTER) & (INNER)
M10	14	New Hexaplux Head	Cylinder cap & (outer)
M6	18	Eccentric	Flange plate for eccentric

BEARING						
SNO	QTY	ID	OD	WIDTH	Mating Part 1	Mating Part 2
1	2	55	100	20	CRANK SHAFT	BEARING END CAP

0IL LIP SEAL						
SNO	QTY	ID	0D	WIDTH	Mating Part 1	Mating Part 2
1	1	54	70	17	CRANK SHAFT	BEARING END CAP

GUIDE SEAL						
SNO	QTY	ID	OD	WIDTH	Mating Part 1	Mating Part 2
1	1	49.5	58.6	5.3	SLEEVE HOUSING FOR SLIDER	SLIDER BLOCK

0IL SEAL					
SNO	QTY	ID	WIDTH (SECTION DIA)	Mating Part 1	Mating Part 2
1	6	35	3	NRV SEAT	HEAD
2	4	35	3	NRV BALL RETAINER	HEAD
3	1	66	3	SLIDER	SLEEVE HOUSING FOR SLIDER

PACKAGE SEAL (PTFE)						
SNO	QTY	ID	OD	WIDTH	Mating Part 1	Mating Part 2
1	6	44.5	55	45	PLUNGER	STUFFING BOX
2	6	40	56	8	CYLINDER CAP	HEAD
3	6	40	56	8	NRV BALL RETAINER	HEAD
4	6	40	56	8	NRV SEAT	HEAD