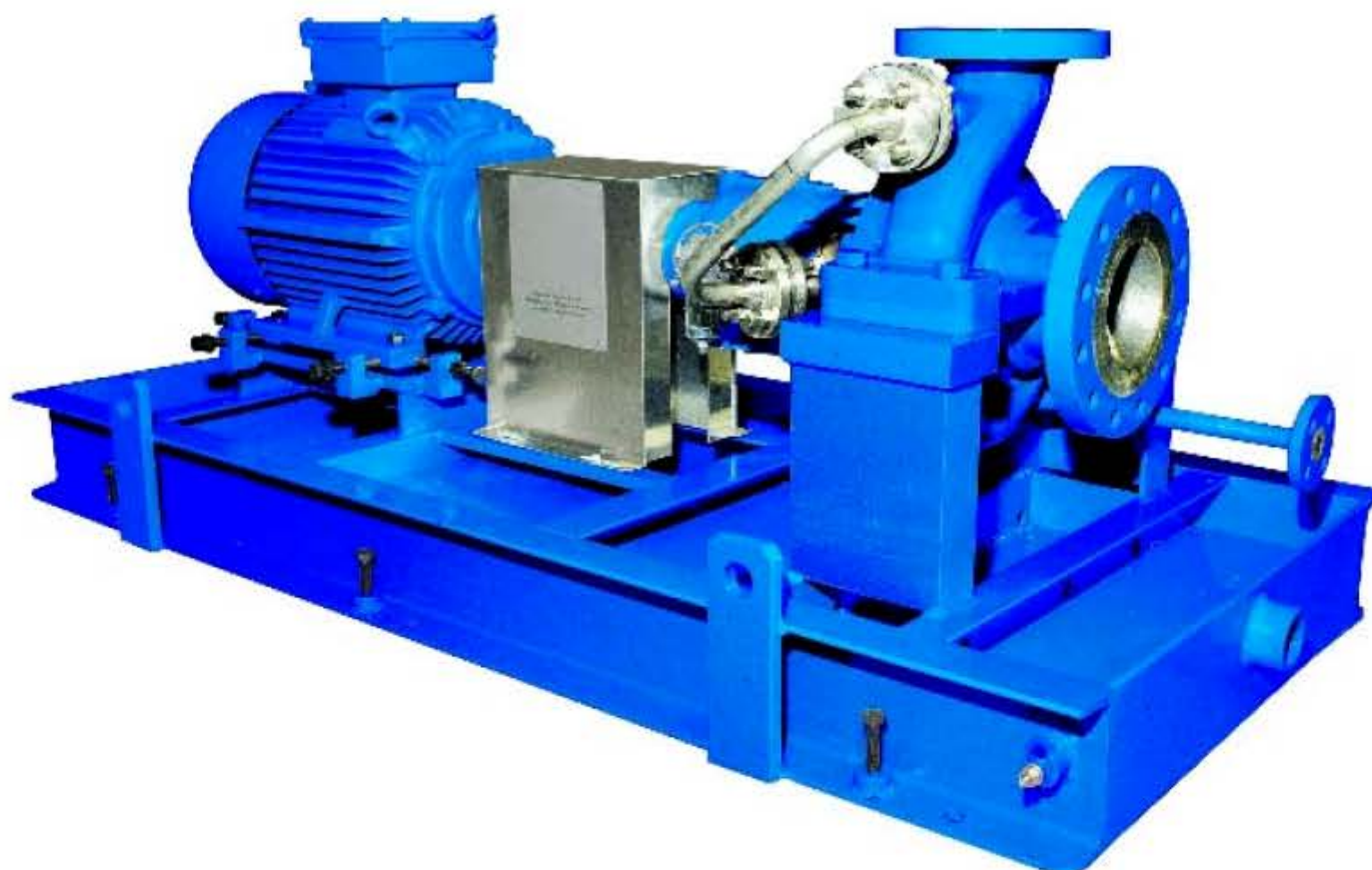




Pump Division



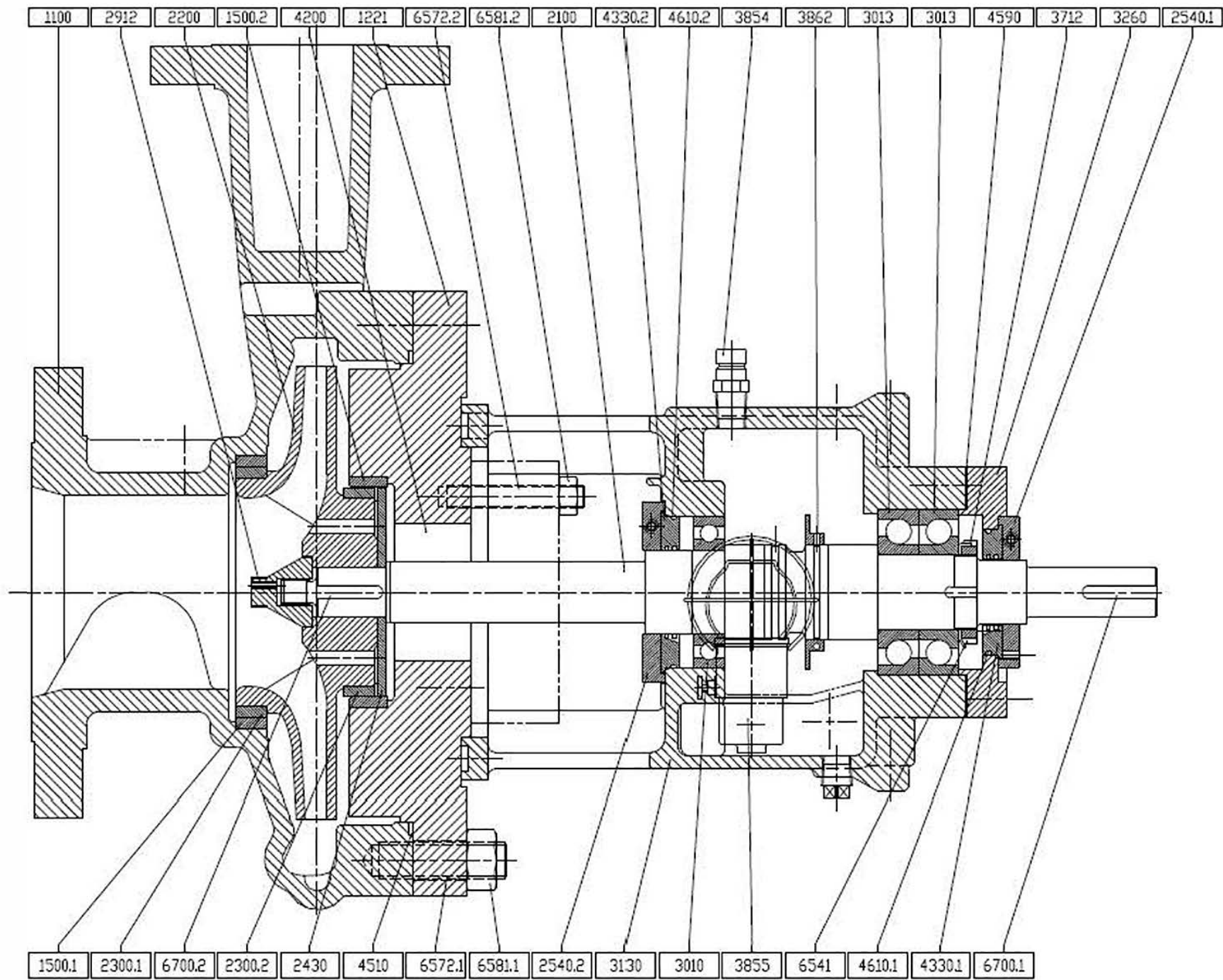
Type: HPX

CENTRIFUGAL PUMPS

PCN= 71569225 - 04/06 (E)

8 PARTS LIST AND DRAWINGS

8.1 Centerline Discharge, Single Volute

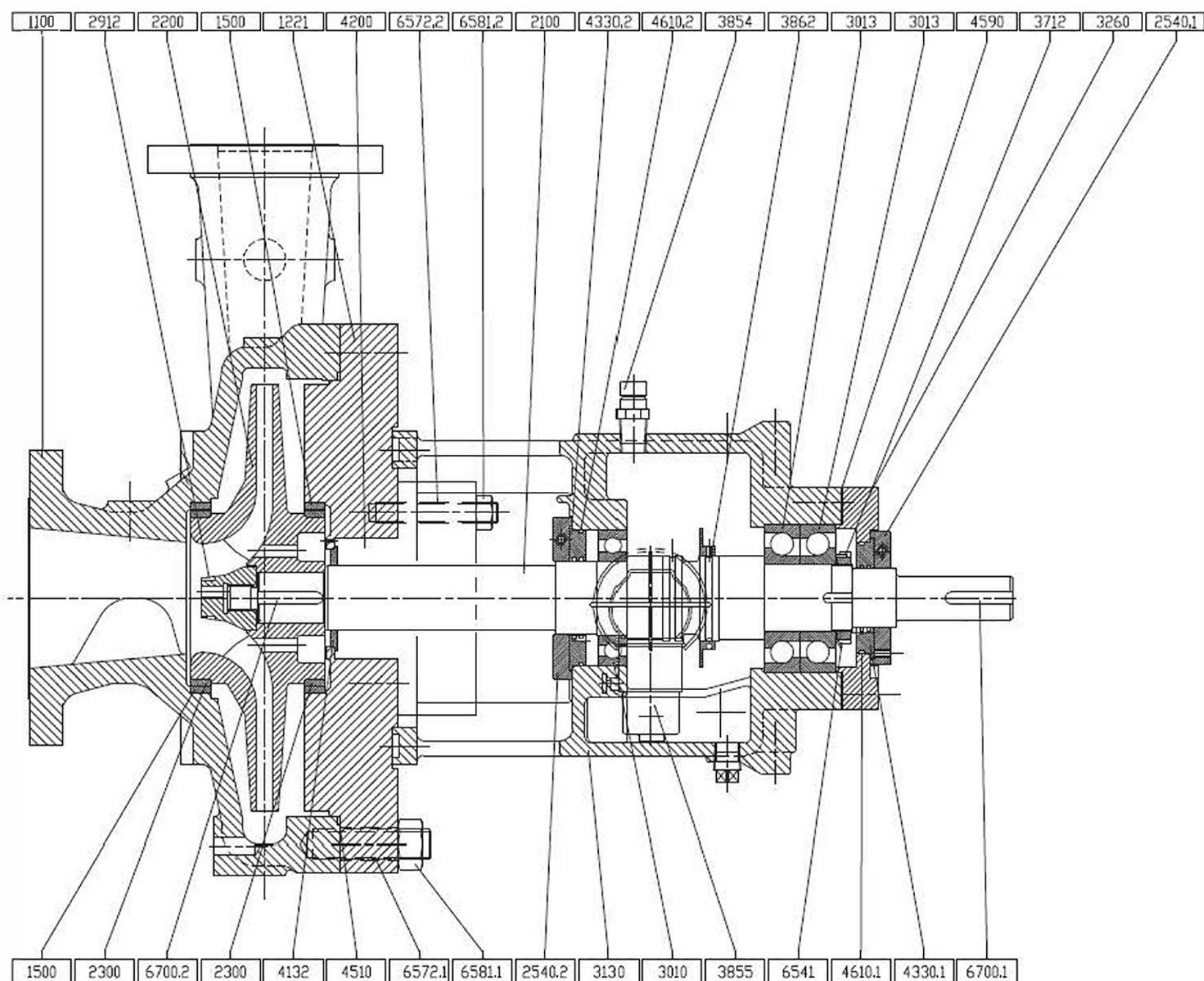


8.1.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug

3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.2 Tangential Discharge , Single Volute

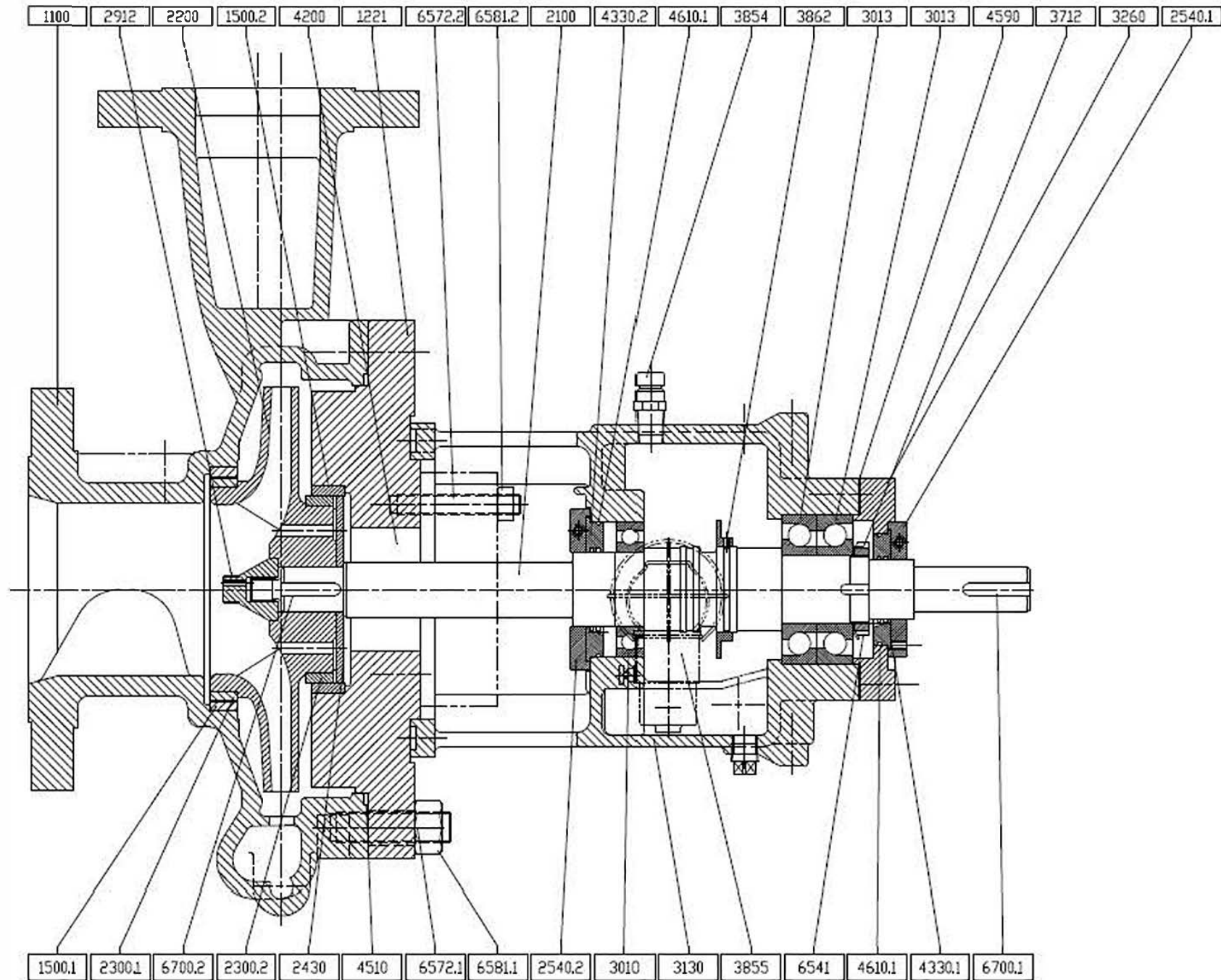


8.2.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500	Casing Wear ring
2100	Shaft
2200	Impeller
2300	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4132	Neck Bush
4200	Mechanical Seal
4330.1	Labyrinth Ring

4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.3 Centerline Discharge , Double Volute

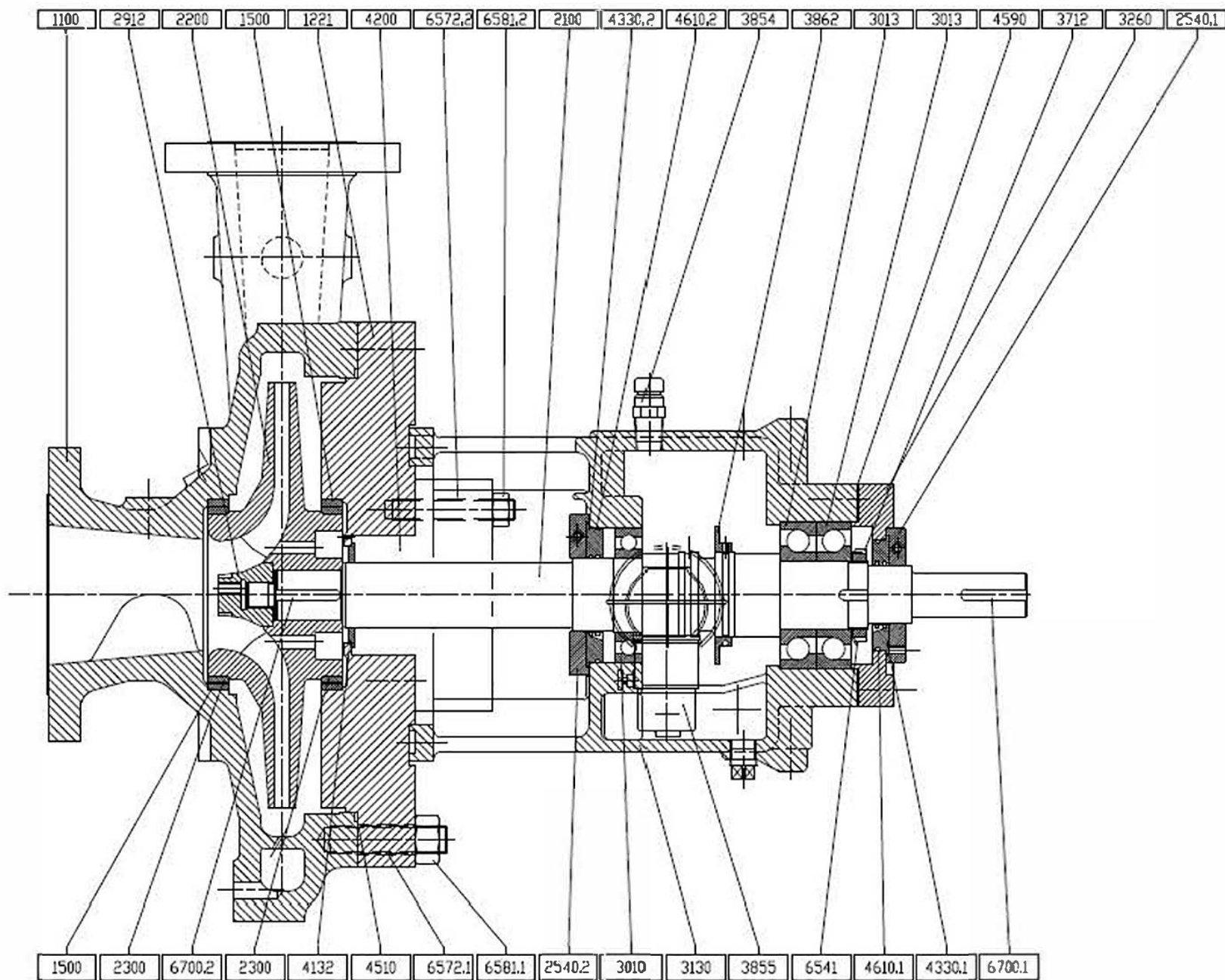


8.3.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4132	Neck Bush
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring

4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.4 Tangential Discharge , Double Volute

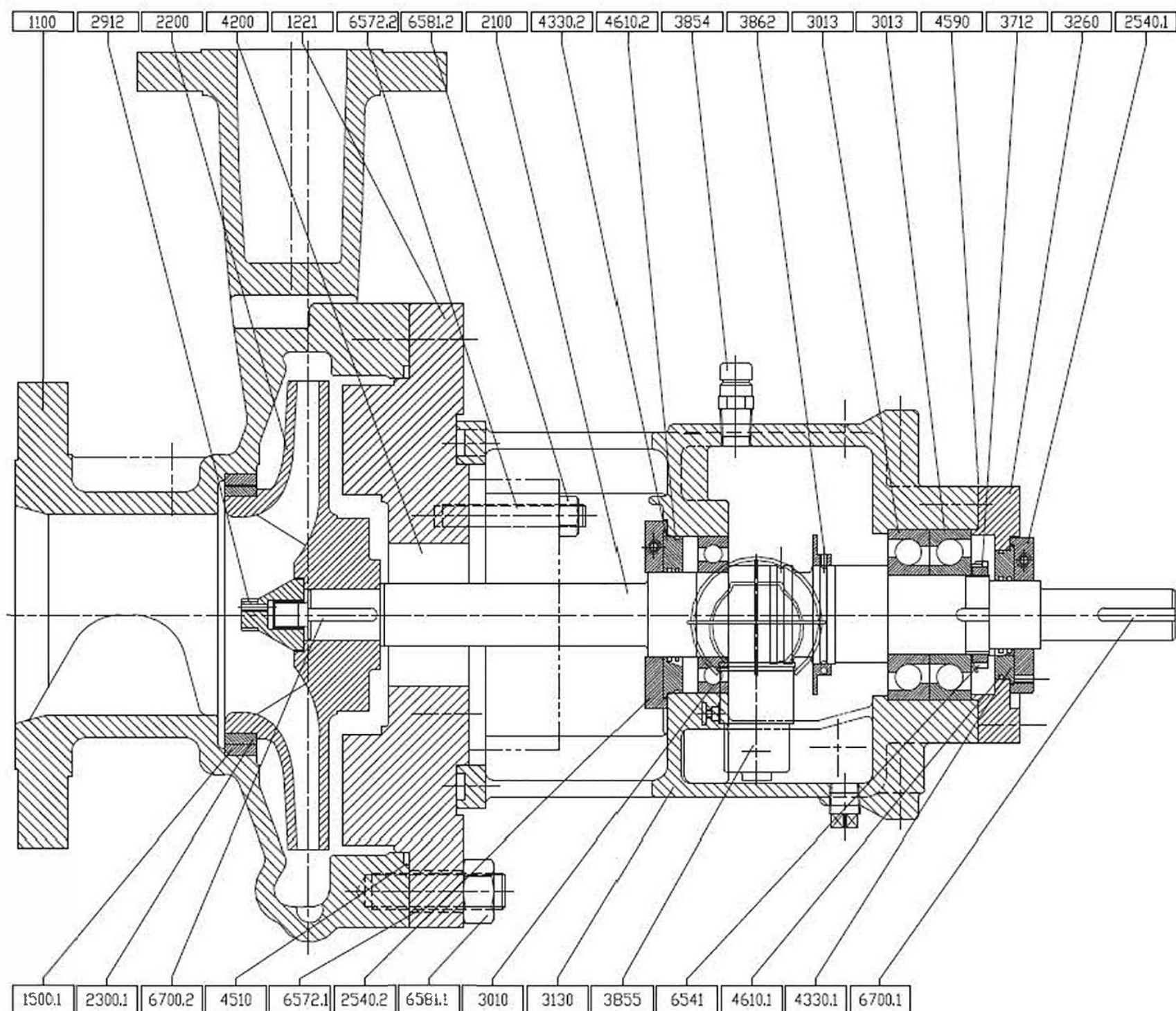


8.4.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500	Casing Wear ring
2100	Shaft
2200	Impeller
2300	Impeller Wear Ring
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4132	Neck Bush
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring

4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.5 Impeller Without Back Wear Ring

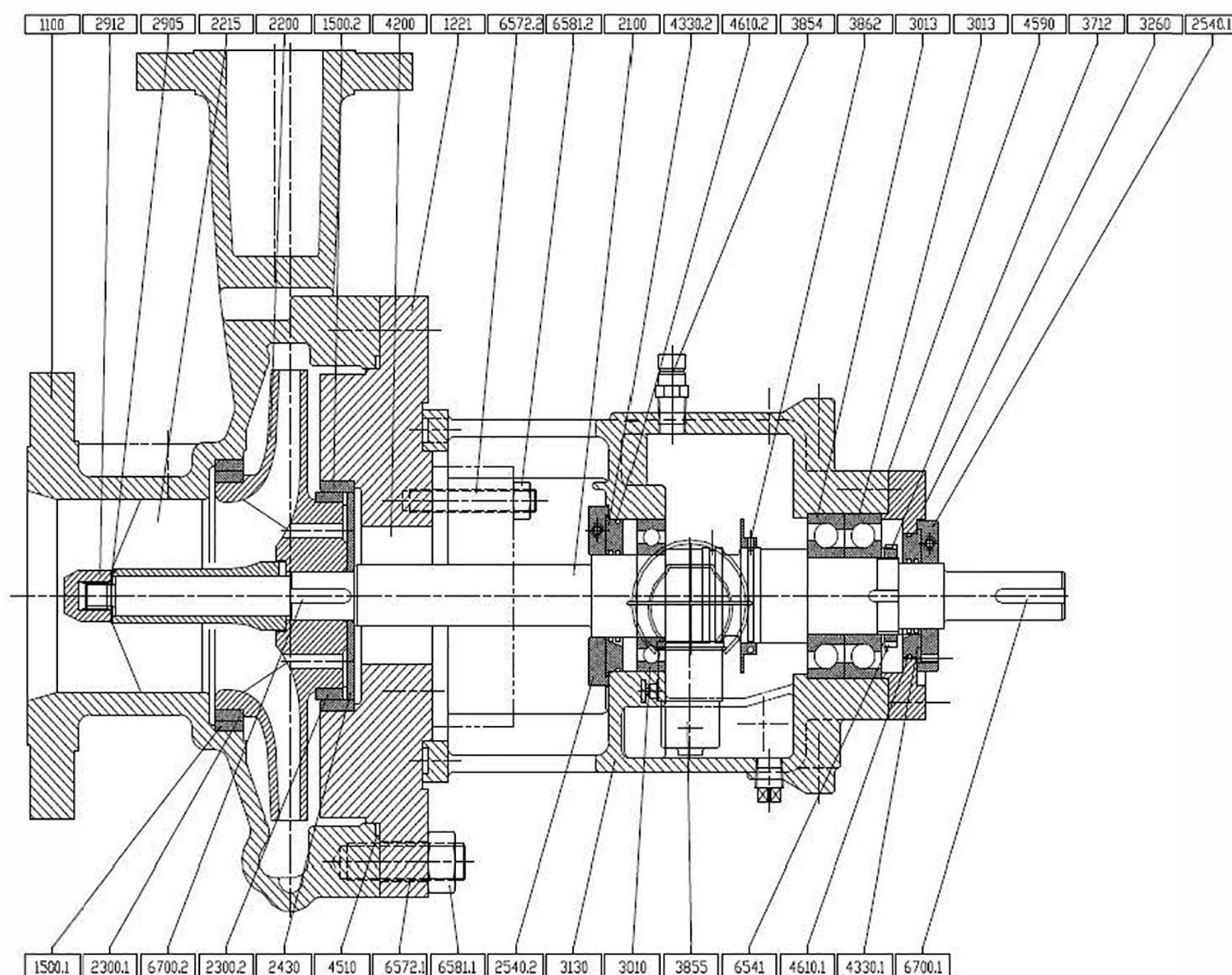


8.5.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500	Casing Wear ring
2100	Shaft
2200	Impeller
2300	Impeller Wear Ring
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4132	Neck Bush
4200	Mechanical Seal
4330.1	Labyrinth Ring

4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.6 Inducer Option

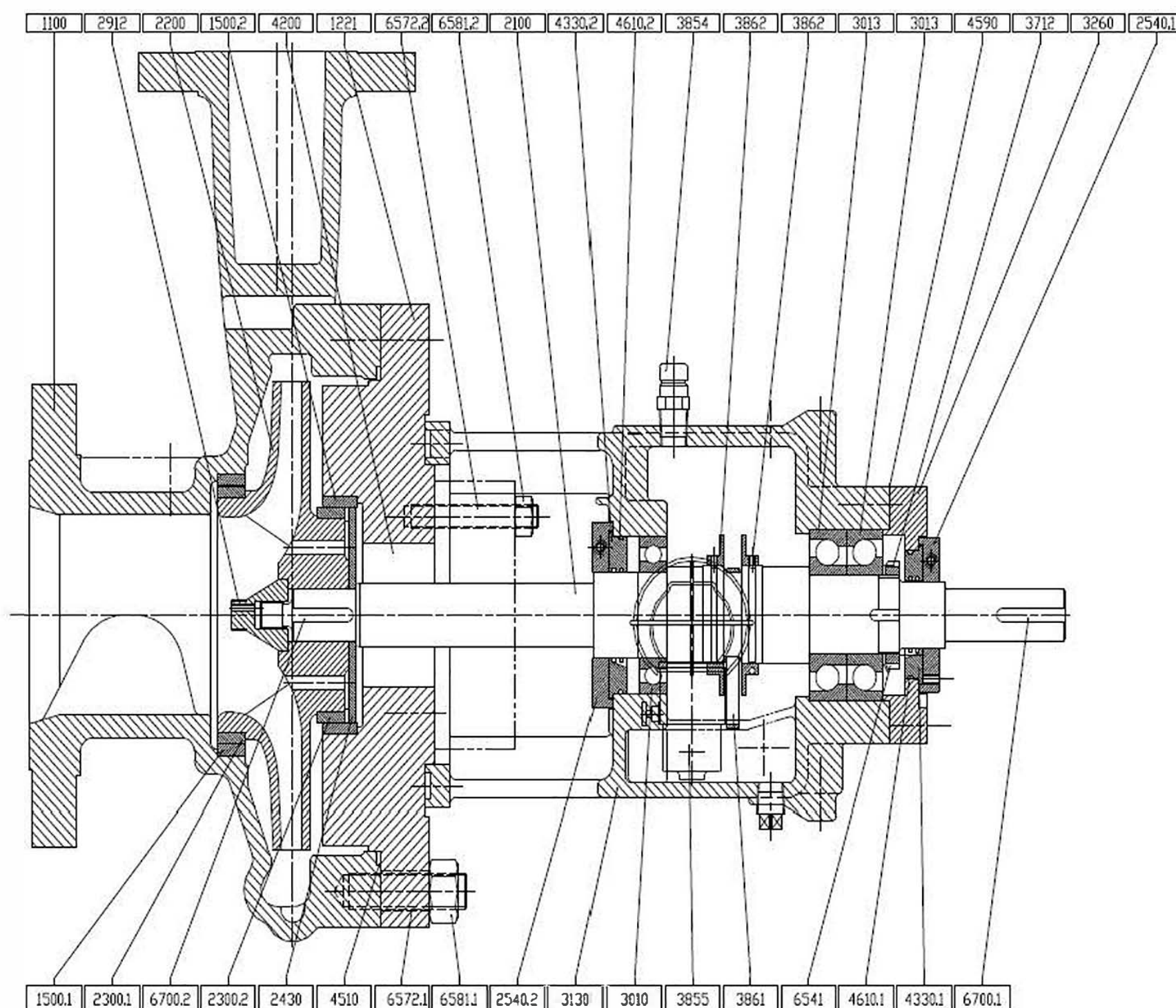


8.6.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2215	Inducer
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2905	Washer
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower

4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.7 Oil Ring Lubrication

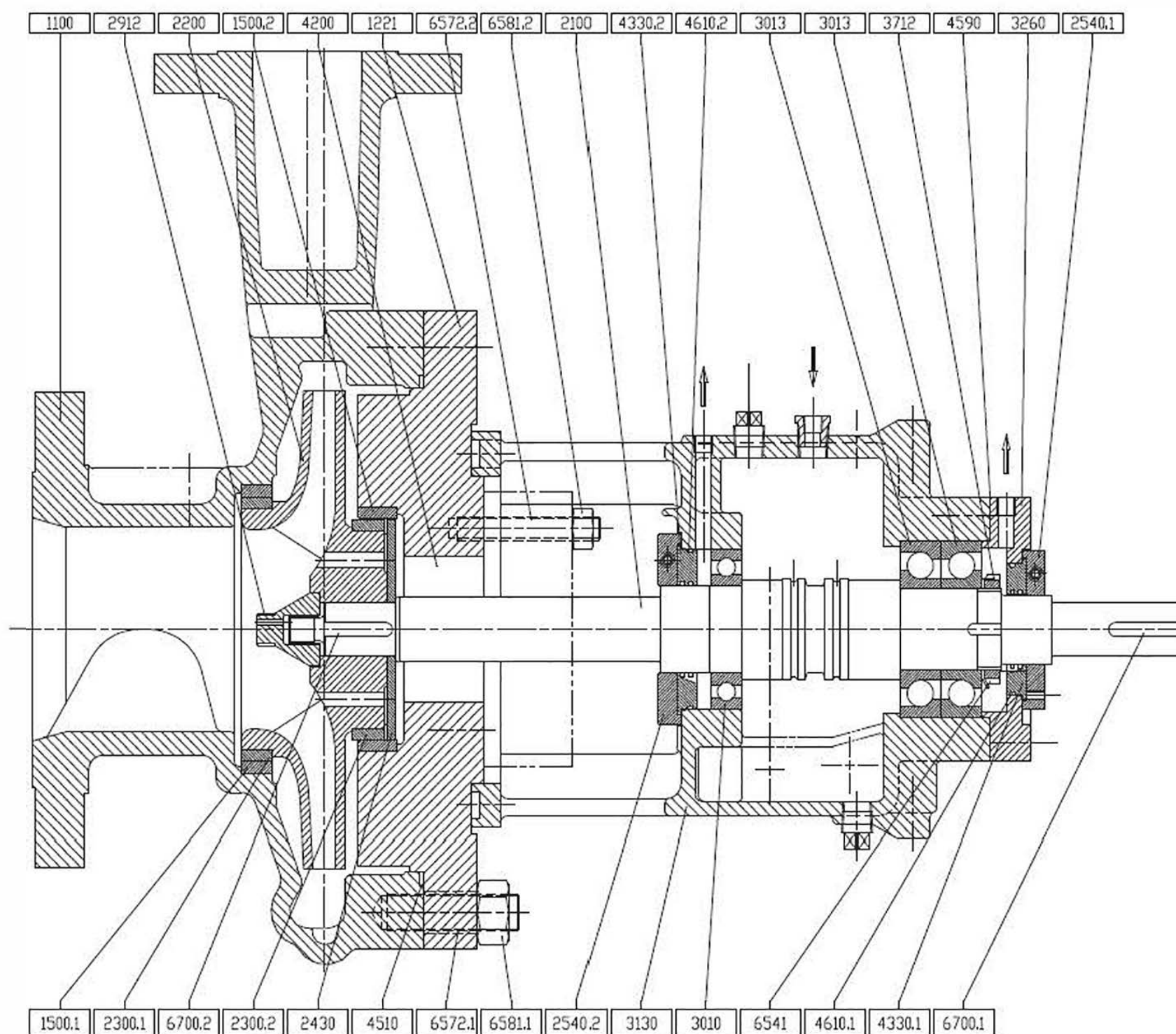


8.7.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3861	Oil Ring

3862	Lubricating Disk Thrower
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.8 Pure Oil Mist Lubrication

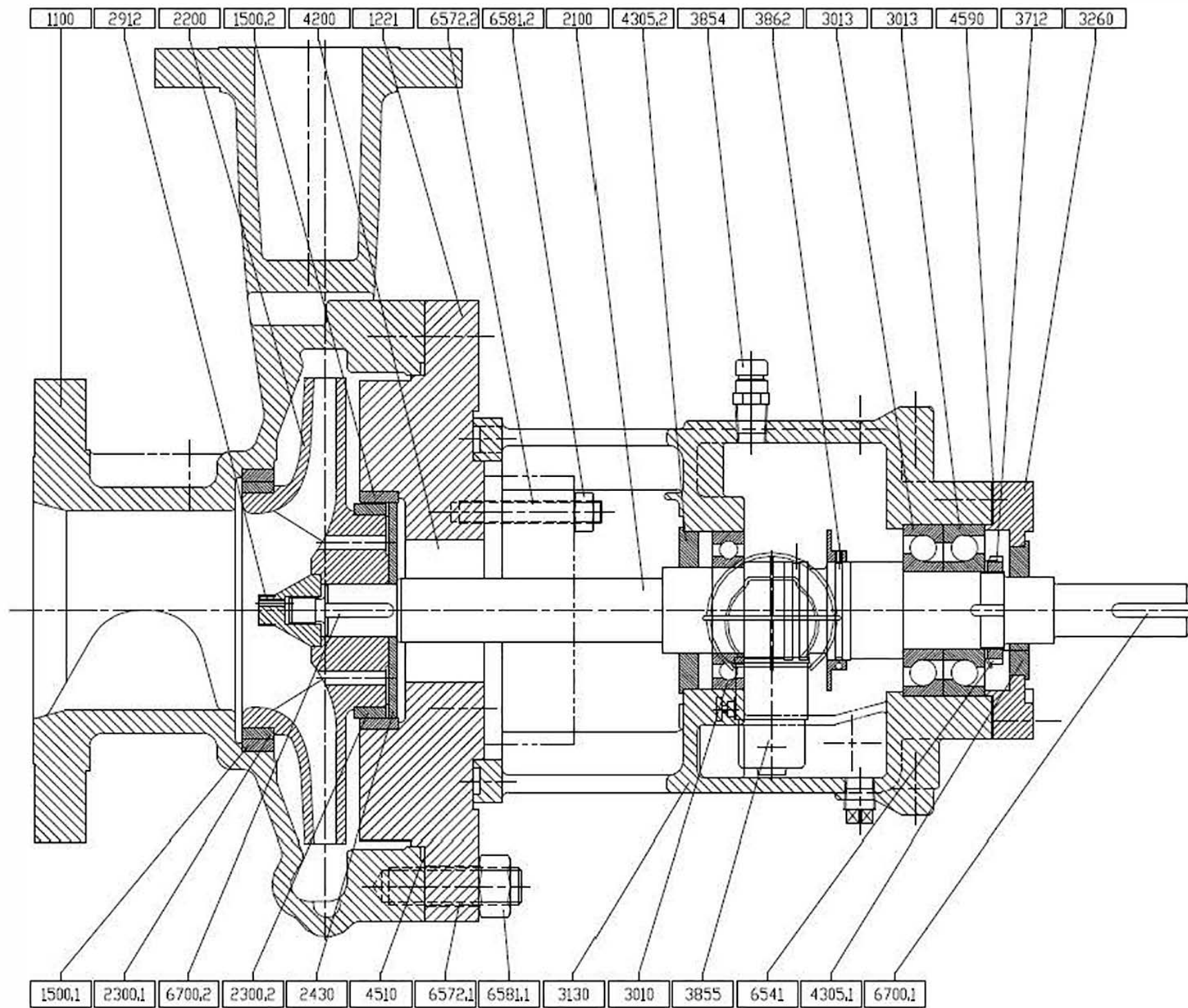


8.8.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
4200	Mechanical Seal
4330.1	Labyrinth Ring

4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.9 Bearing Isolator Option

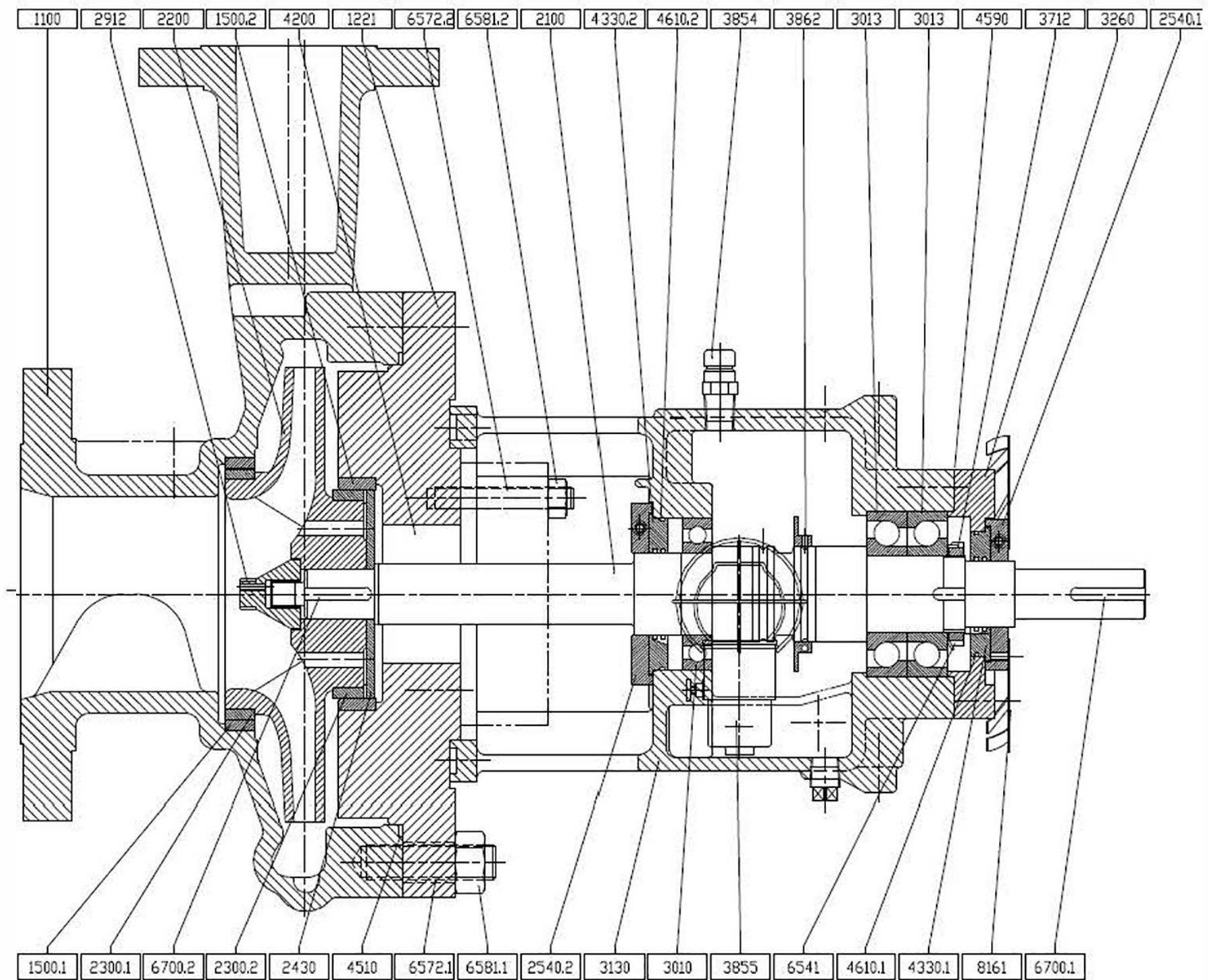


8.9.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower

4200	Mechanical Seal
4305.1	Bearing Isolator
4305.2	Bearing Isolator
4510	Gasket
4590	Gasket
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.10 Fan Cooled Bearing Housing

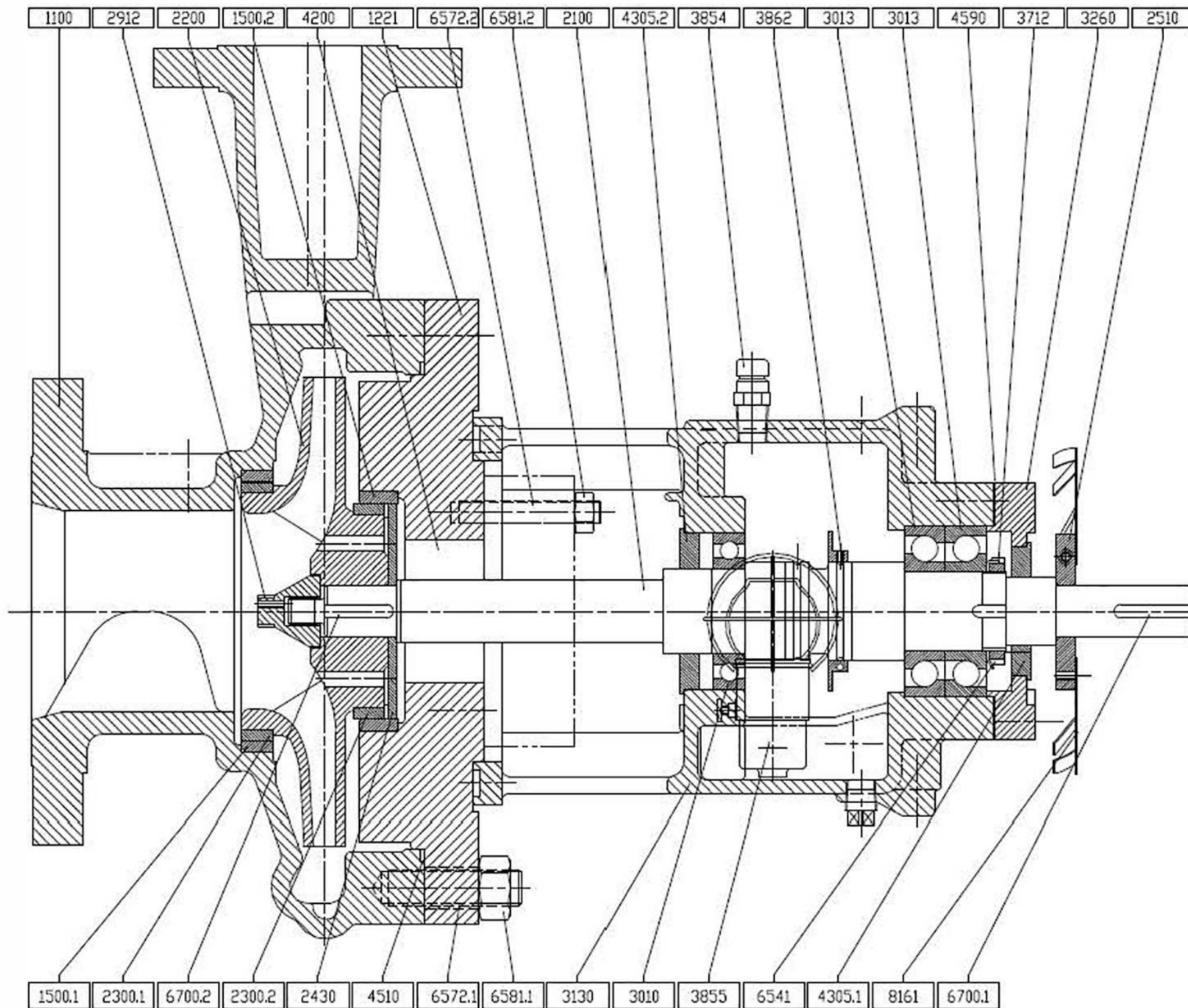


8.10.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug

3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key
8161	Fan

8.11 Fan Cooled With Bearing isolator

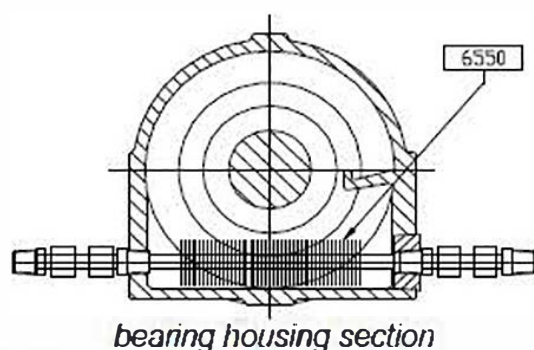
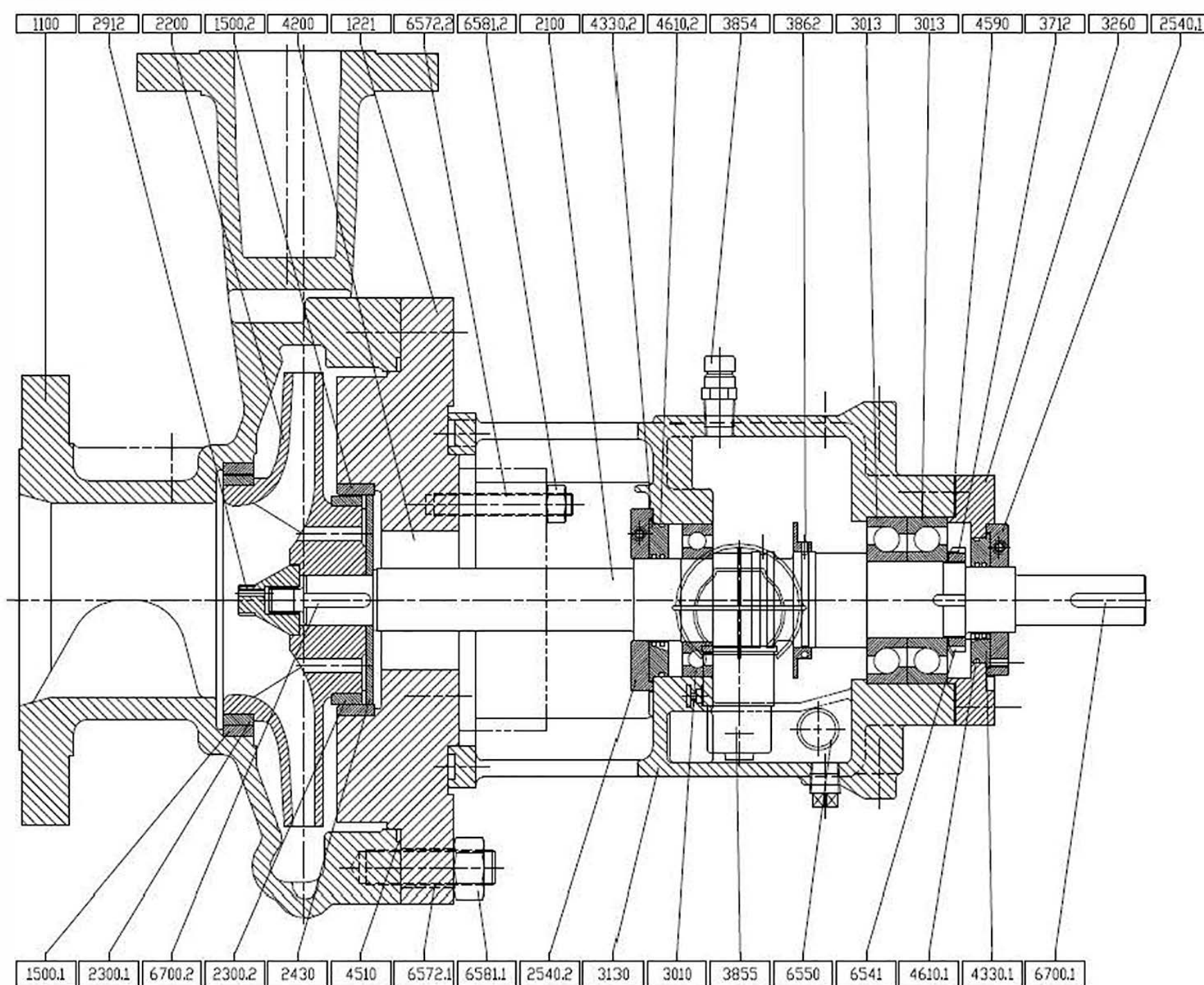


8.11.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2510	Spacer Ring
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover

3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4200	Mechanical Seal
4305.1	Bearing Isolator
4305.2	Bearing Isolator
4510	Gasket
4590	Gasket
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key
8161	Fan

8.12 Water Cooled Bearing Housing

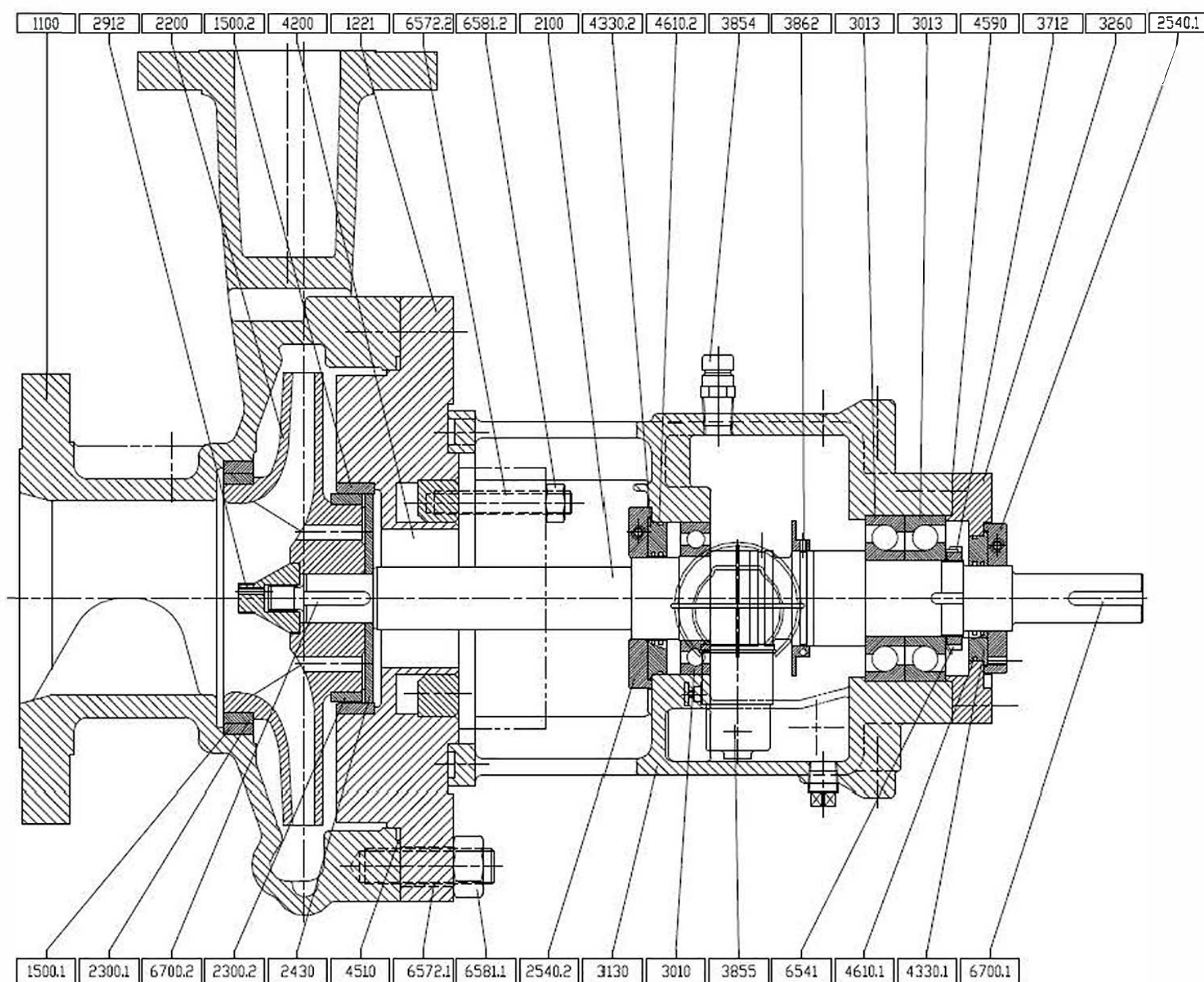


8.12.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut

3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower
4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6551	Cooling Device
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key

8.13 Cooled Casing Cover



8.13.1 Parts list

Ref no	Description
1100	Casing
1221	Casing Cover
1500.1	Casing Wear ring
1500.2	Casing Wear ring
2100	Shaft
2200	Impeller
2300.1	Impeller Wear Ring
2300.2	Impeller Wear Ring
2430	Throttling Sleeve
2540.1	Deflector
2540.2	Deflector
2912	Impeller Nut
3010	Anti-Friction Bearing
3013	Thrust Ball bearing
3130	Bearing Bracket
3260	Bearing Cover
3712	Bearing Nut
3854	Oil Filter Plug
3855	Constant Level Oiler
3862	Lubricating Disk Thrower

4200	Mechanical Seal
4330.1	Labyrinth Ring
4330.2	Labyrinth Ring
4510	Gasket
4590	Gasket
4610.1	"O" Ring
4610.2	"O" Ring
6541	Lockwasher
6572.2	Stud
6572.1	Stud
6581.1	Hexagon Nut
6581.2	Hexagon Nut
6700.1	Key
6700.2	Key