

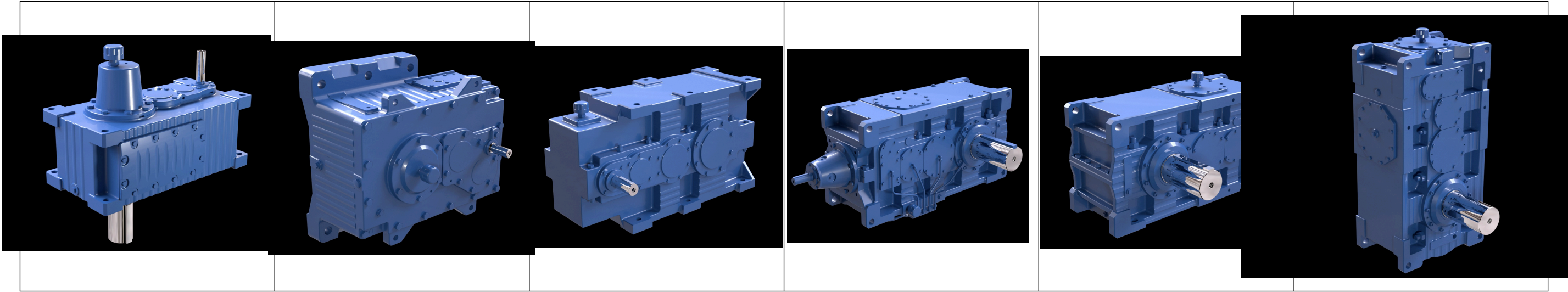


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PM Series
For Palm Oil Industry



KEY PROCESS IN PAML OIL MILL OPERATION

STERILIZATION STATION

- ◀ Loading Ramp
- ◀ FFB Elevator
- ◀ Capstan
- ◀ Auto Feeder
- ◀ Thresher Drum
- ◀ Under Thresher Conveyor
- ◀ Fruit Elevator
- ◀ Top Cross Conveyor
- ◀ Fruit Distribution Conveyor
- ◀ Recycling Fruit Conveyor

NUT PROCESSING STATION

- ◀ Ripple Mill /Nut Cracker
- ◀ Shaking Grate
- ◀ Cracker Mixture Conveyor
- ◀ Air Lock Cracker Mixture Separator
- ◀ Cracker Mixture Conveyor
- ◀ Hydro Cyclone
- ◀ Wet Kernel Conveyor & Elevator
- ◀ Kernel Silo
- ◀ Kernel Winnowing Fan
- ◀ Air Lock Kernel Winnowing
- ◀ Sludge Conveyor

PRESSING STATION

- ◀ Digester
- ◀ Screw Press
- ◀ Cake Breaker Conveyor
- ◀ Air Lock Cracker Mixture Separator

CLARIFICATION STATION

- ◀ Oil Clarifer Stirrer
- ◀ Solid Conveyor
- ◀ Fuel Distribution Conveyor

POWER GENERATION STATION

- ◀ Fuel Distribution conveyor
- ◀ Fuel Conveyor & Elevator
- ◀ Oil Clarifer Stirrer
- ◀ Air-lock Dust Cyclone
- ◀ Air-lock Shell Cyclone

NUT PROCESSING STATION

- ◀ Nut Polishing Drum
- ◀ Wet Nut Elevator & Conveyor
- ◀ Dry Nut Elevator & Conveyor
- ◀ Air Lock Nut Winnowing System
- ◀ Grading Drum

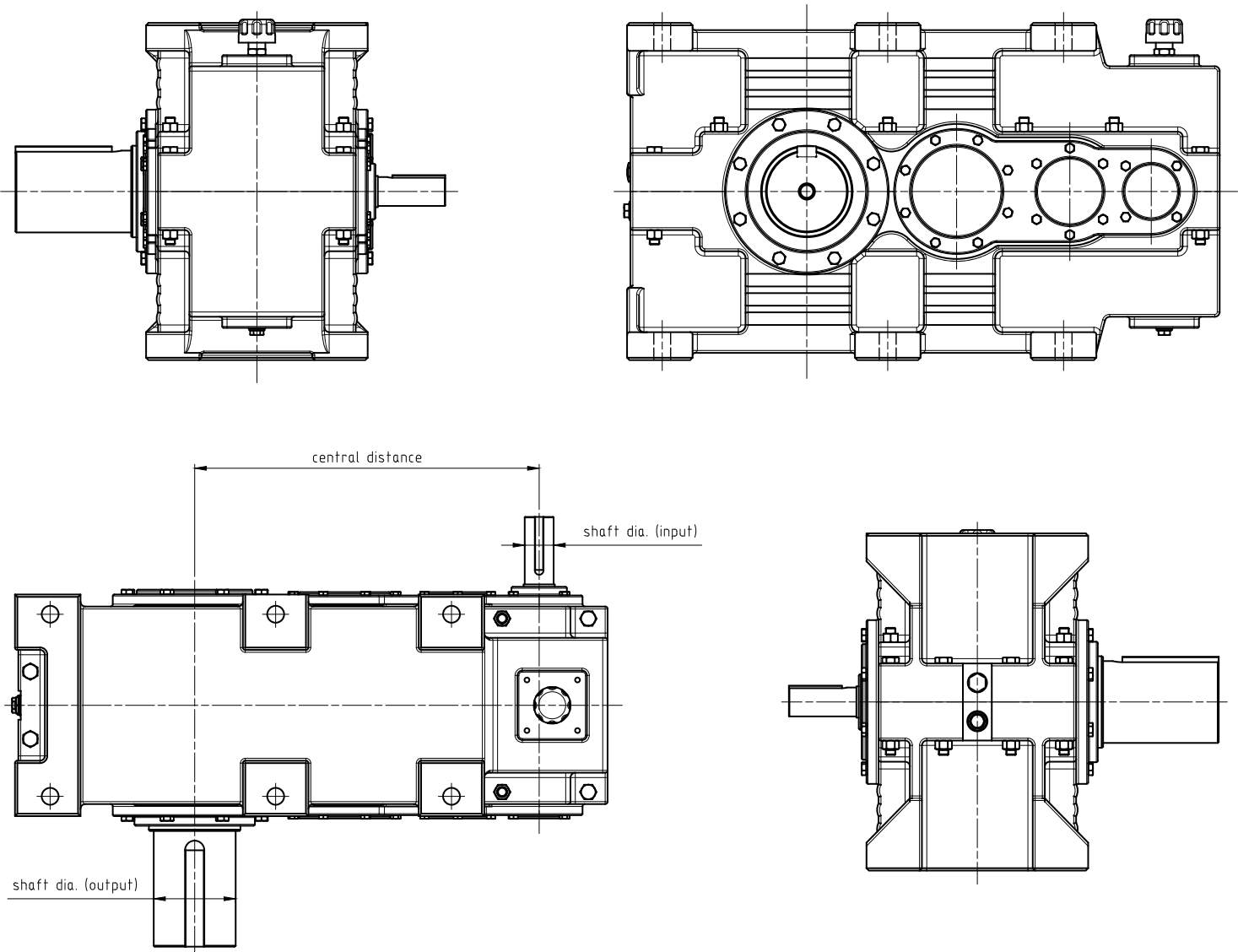
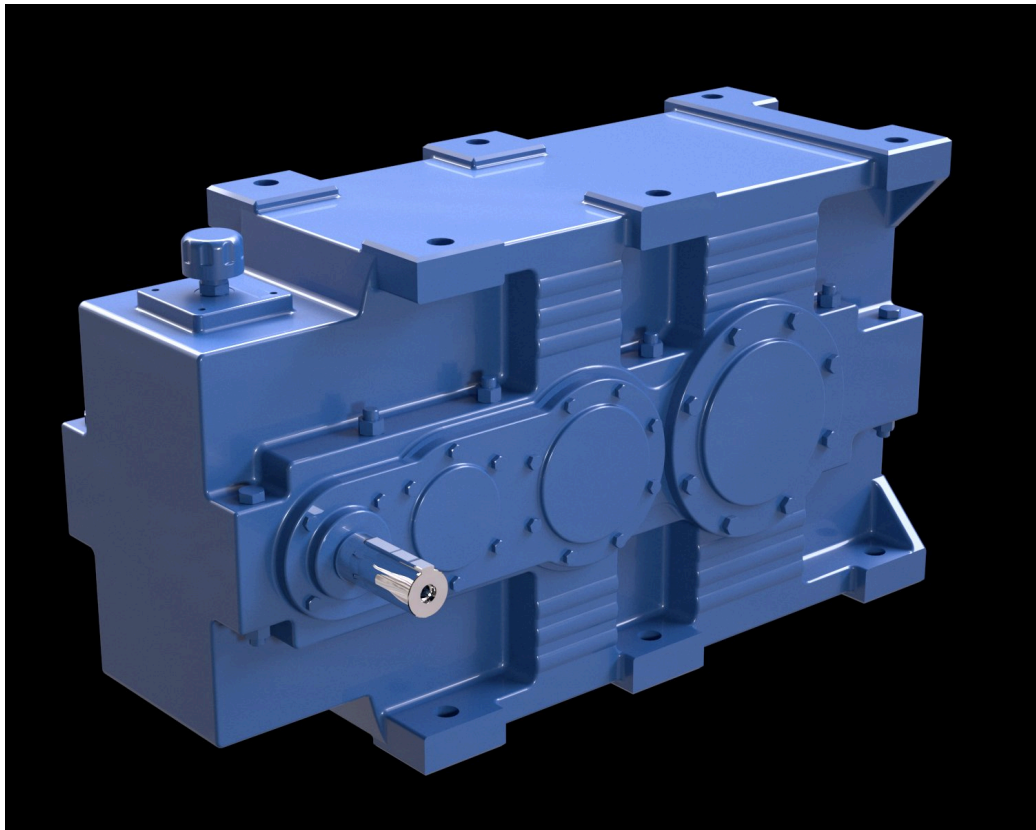
MECA GEARBOXES FEATURES AND BENEFITS	
Features	Benefits
High Quality Gearing Accuracy	Increased Strength and Durability
Protuberance hobbing	Eliminates stress concentration
Tip relief and Crowning	Improves contact, reduces noise level
Pressure angle: 25 degrees	Increases strength
Helix Angle: 14 degrees	Reduces noise level
Vacuum Carburising	Removes impurities,reduces residual stresses
Vacuum degassed alloy steel	Consistent quality, prevents stress concentration due to impurities
Reinforced Cast Iron Housing	For reduced weight and optimum strength
Dual Lip Oil Seals	Prevents oil leaks and water intrusion
Professional service teams	Prompt service and monitoring

AMBIENT CONDITIONS	
Ambient Temperature	10deg C~ 50deg C
Ambient Humidity	Under 85%
Elevation	Less than 1000m above sea level
Atmosphere	Well Ventilated location, free of corrosion and explosive gases, vapor

PAINT SPECIFICATIONS	
Surface Preparation	SIS Sa 2 1/2 (inside & Outside)
Inside Paint	Modified Alkyd Resin Primer (20~40 μm)
Outside Paint	Primer: Modified Alkyd Resin Primer (40~80um) Finish: Acrylic Alkyd Resin Paint (15~30 um)
Paint Color	Meca Blue (Musell 6.5PB 3.6/8.2)

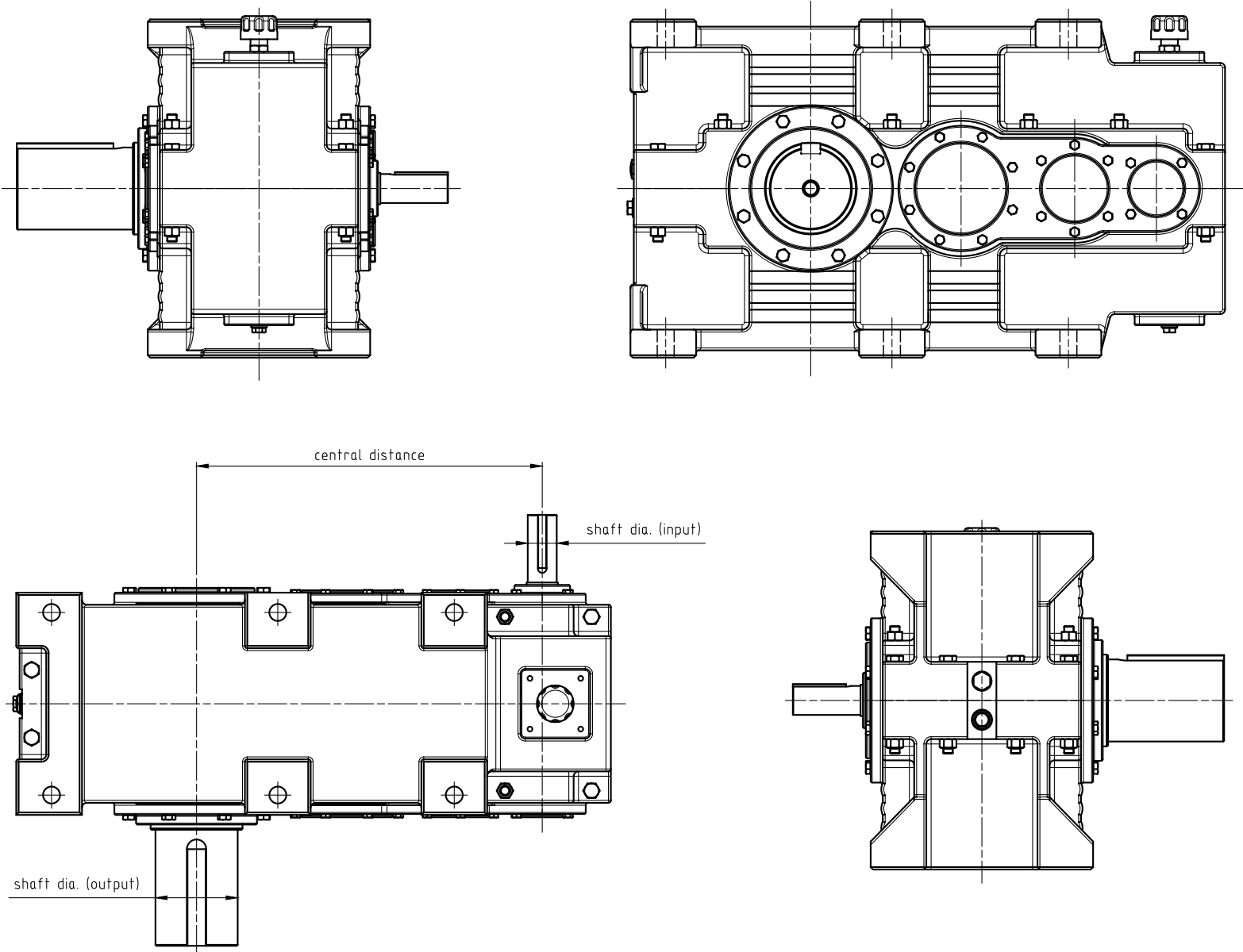
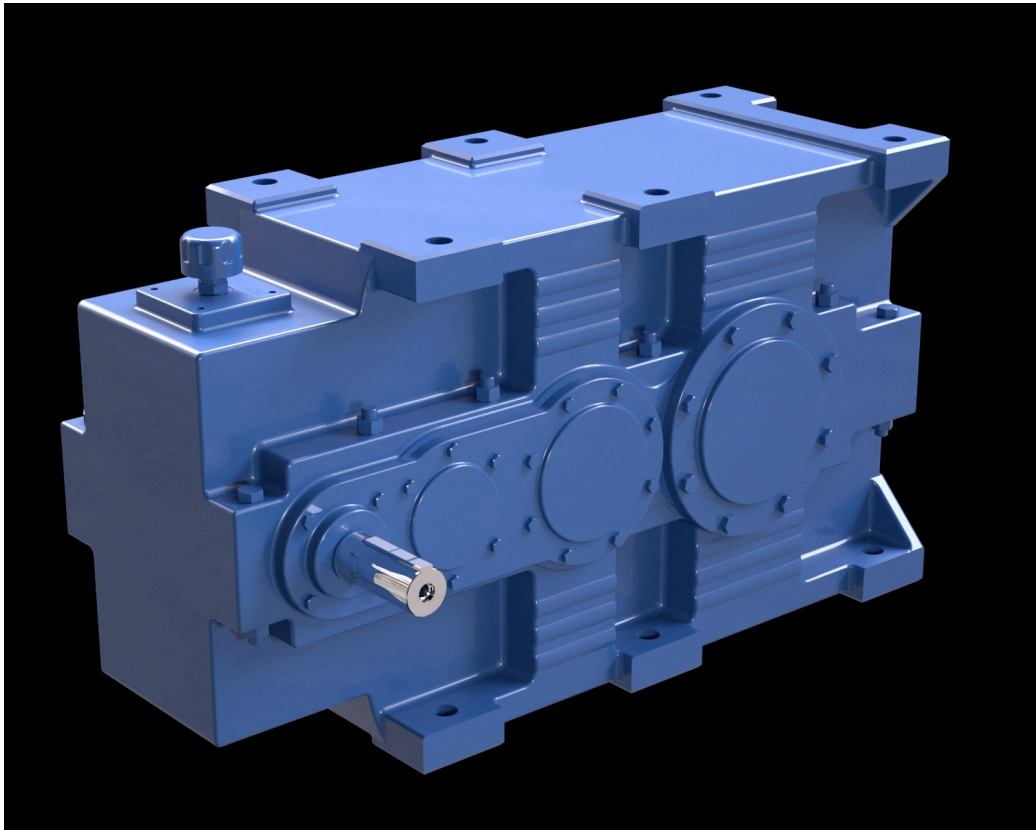
TECHNICAL NOTES
Lubrication: Oil Bath: Please use correct Oil Viscosity
Temperature correction factor must be used when calculating thermal capacity of the gearbox
All Gear Ratings are based on ISO 6336-1996.
Keys and Keyways are based on JIS B 1301-1996 Parallel key in fastening type (ISO R773-1969 Close Keys)

◀ **KERNEL** EXPELLER DRIVE



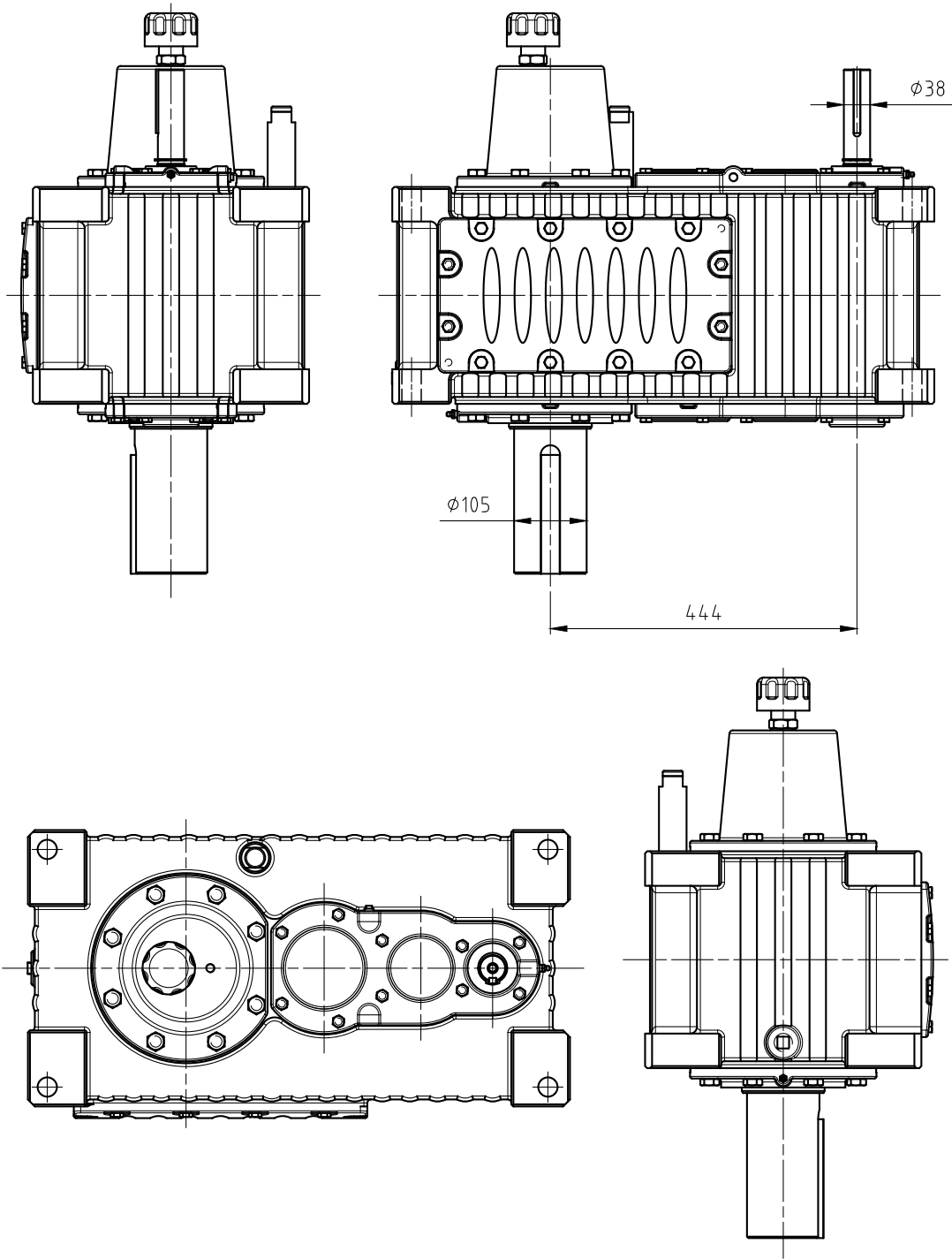
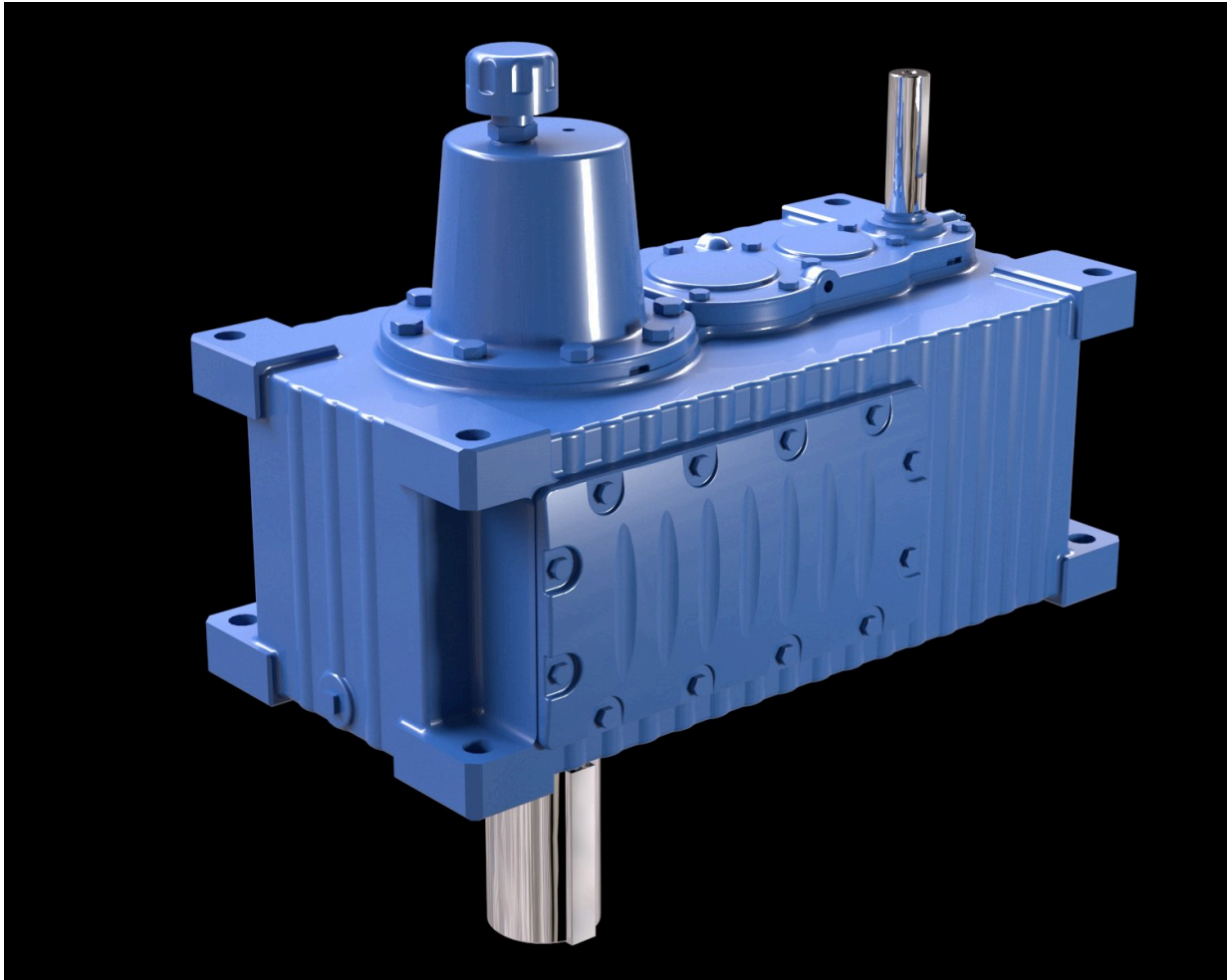
KERNEL EXPELLER DRIVE REDUCER SPECIFICATIONS								
Model	Ratio	Rated torque (kNm)	Input Speed (rpmm)	Output Speed (rpm)	Central Distance (mm)	Output Shaft dia (mm)	Input Shaft Dia (mm)	Weight Approx (kg)
PMH3-750-RL/LR-56	54.956	74.5	1000	18.196	722	165	65	980
PMH3-700-RL/LR-56	54.836	74.5	1000	18.236	715	170	60	1100

◀ SCREW PRESS DRIVE



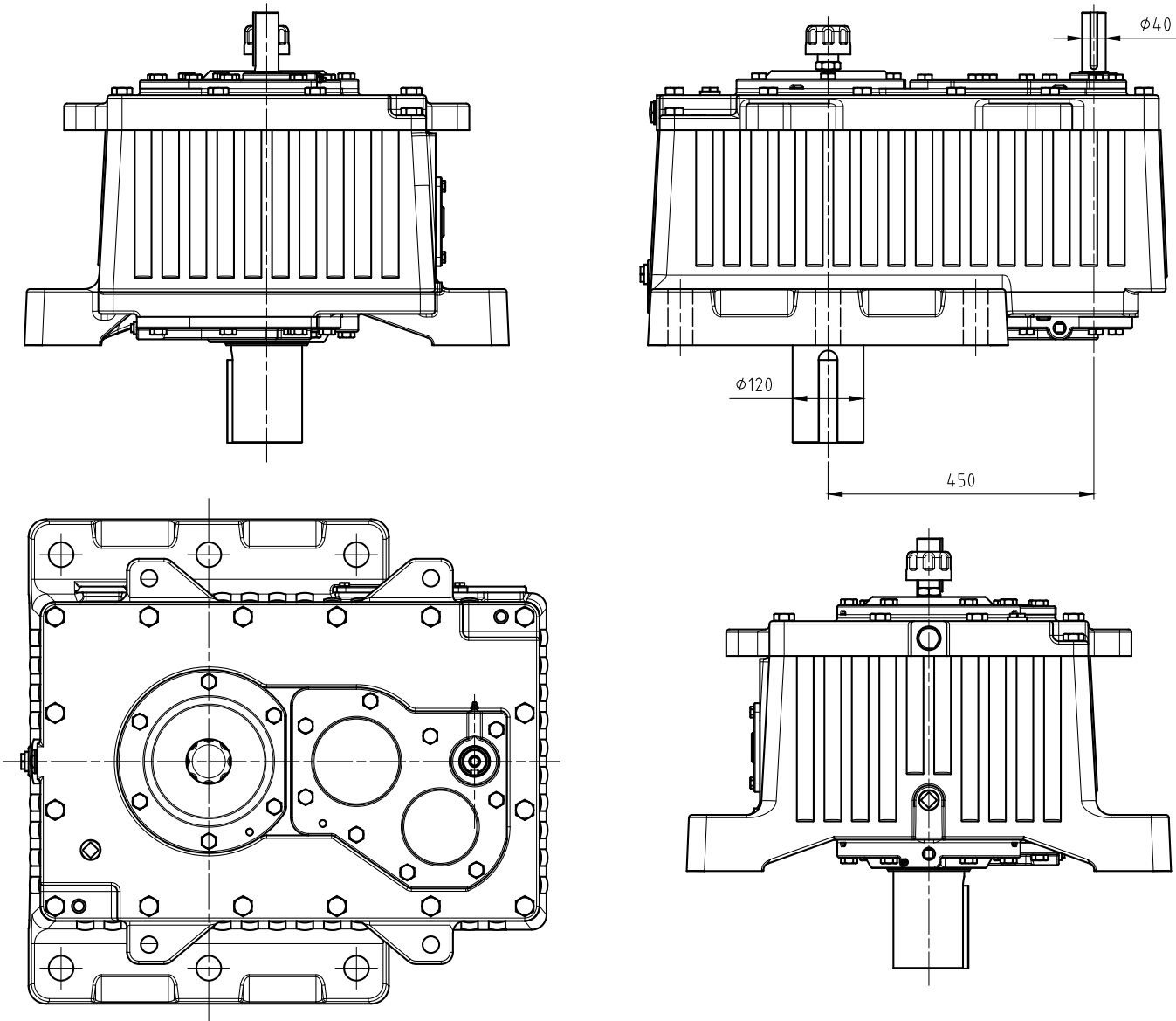
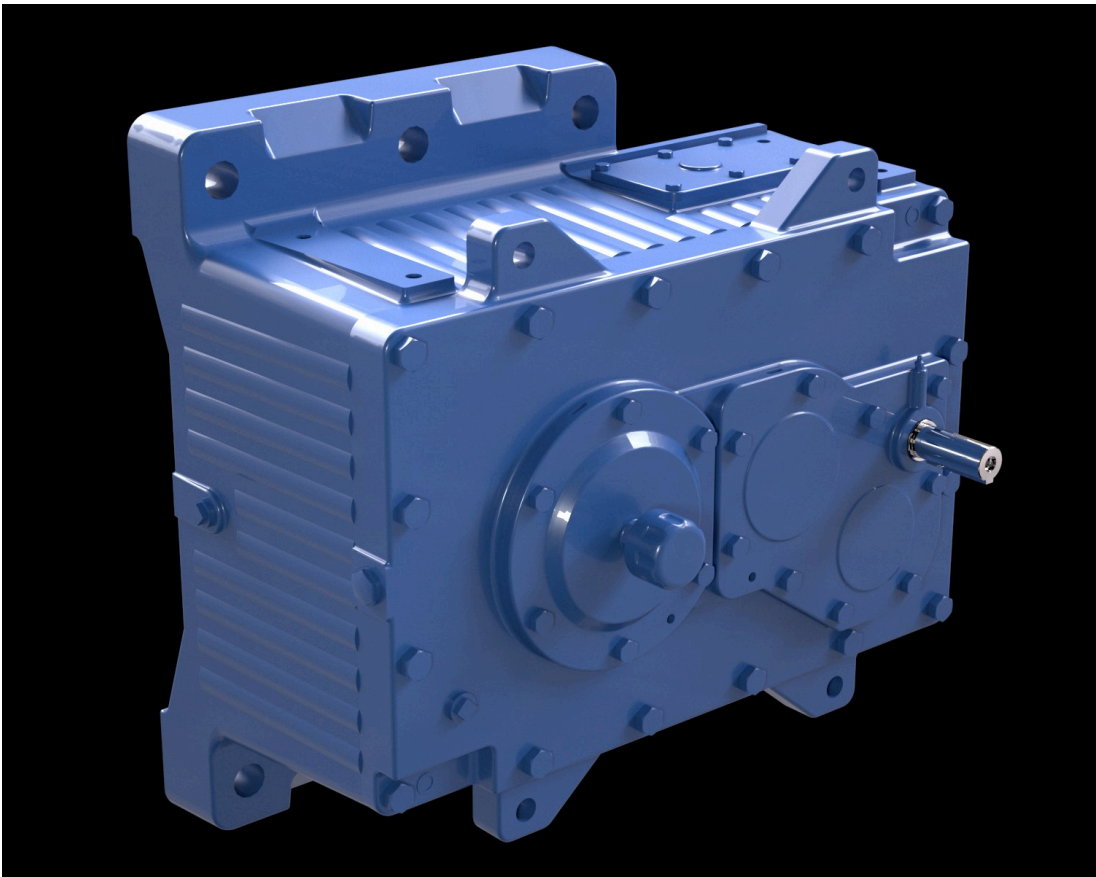
SCREW PRESS DRIVE REDUCER SPECIFICATIONS								
Model	Ratio	Rated torque (kNm)	Input Speed (rpmm)	Output Speed (rpm)	Central Distance (mm)	Output Shaft dia (mm)	Input Shaft Dia (mm)	Weight Approx (kg)
PMH3-700-RL/LR-56	55.280	48.5	1000	18.090	715	170	60	1100
PMH3-600-RL/LR-80	78.378	44.8	1000	18.236	628	150	55	800
PMH3-750-RL/LR-80	76.201	74.5	1000	13.123	722	165	65	980
PMH3-700-RL/LR-80	77.180	74.5	1000	12.957	715	170	60	1100

◀ DIGESTER DRIVE



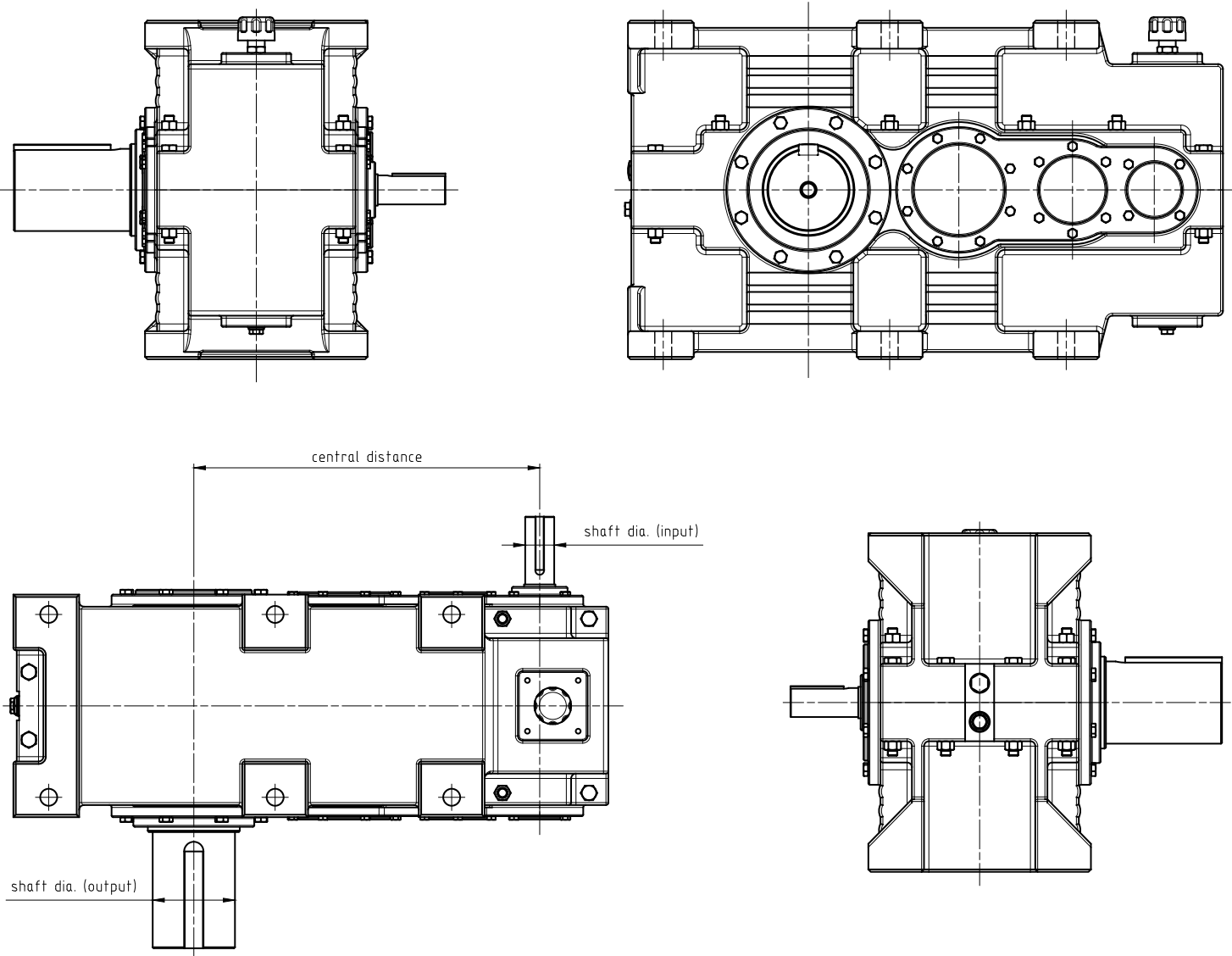
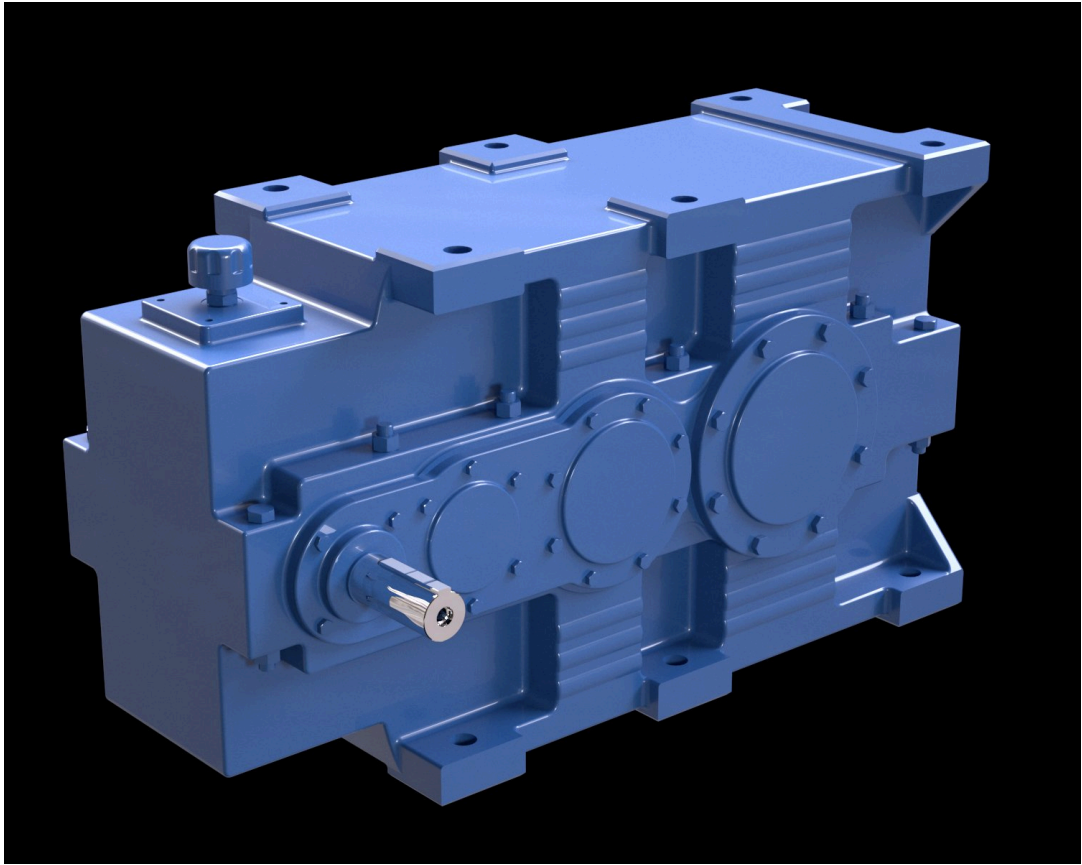
DIGESTER DRIVE REDUCER SPECIFICATIONS								
Model	Ratio	Rated torque (kNm)	Input Speed (rpmm)	Output Speed (rpm)	Central Distance (mm)	Output Shaft dia (mm)	Input Shaft Dia (mm)	Weight Approx (kg)
PMV3-400-UD-58	57.846	18.2	1000	17.287	444	105	38	370

◀ DIGESTER DRIVE



DIGESTER DRIVE REDUCER SPECIFICATIONS								
Model	Ratio	Rated torque (kNm)	Input Speed (rpmm)	Output Speed (rpm)	Central Distance (mm)	Output Shaft dia (mm)	Input Shaft Dia (mm)	Weight Approx (kg)
PMV2-450-UD-58	57.157	31.2	1000	18.236	450	120	40	800

◀ **EMPTY FRUIT BUNCH PRESS DRIVE**



EMPTY FRUIT BUNCH PRESS DRIVE REDUCER SPECIFICATIONS								
Model	Ratio	Rated torque (kNm)	Input Speed (rpmm)	Output Speed (rpm)	Central Distance (mm)	Output Shaft dia (mm)	Input Shaft Dia (mm)	Weight Approx (kg)
PMH3S-750-RL/LR-56	55.066	74.5	1000	18.160	722	165	65	980
PMH3S-700-RL/LR-56	54.891	74.5	1000	18.218	715	170	60	1100