



# LUBRICATION, HYDRAULIC, SPINDLE BEARING, SPINDLE COOLING, GEARBOX & CHILLER OIL CHART


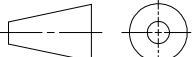

FUNCTION MFR/STD	HYDRAULIC SYSTEM FOR AMBIENT TEMP			AXIS LUBRICATION	SPINDLE COOLING			GEAR BOX, CAM BOX LUBRICATION		CONVEYOR GEAR BOX	SPINDLE BEARING OIL LUBRICATION	SPINDLE BEARING AIR-OIL LUBRICATION
	15°C-30°C		25°C-40°C									
	HM32	HM46	HM68		G 68	VG 5	VG 2	VG 12	G220			
	Azolla ZS 32	Azolla ZS 46	Azolla ZS 68	DROSERA MS 68	AZOLLA SPIN EE 10	DIEL 7500	AZOLLA SPIN EE 10	Carter EP 220	Azolla ZS 46	Carter EP 150	Azolla AL 22	Azolla AL 32
IPOL	HYDROPAC HLP 32	HYDROPAC HLP 46	HYDROPAC HLP 68	NONDRIP 68	SPINDLE OIL NO.5	SPINDLE OIL NO.2	SPINDLE OIL NO.10	Gear oil 220	Hydropac AW 46	Gear Oil 150	Spindle Oil 22	Spindle oil 32
Mobil	Mobil DTE 24 Ultra	Mobil DTE 25 Ultra/ Nuto H 46	Mobil DTE 26 Ultra/ Nuto H 68	Mobil Vactra No. 2	Mobil Velocite No. 4	Mobil Velocite No. 3	Mobil Velocite No.6	Mobil Vactra No.4	Mobil DTE Oil Medium	Mobilgear 600 XP 150	Mobil Velocite Oil No. 10	Mobil DTE Oil Light
	Hyspin AWS 32	Hyspin AWS 46	Hyspin AWS 68	Magna SW68	Hyspin Spindle Oil E 5	Hyspin Spindle Oil E 5*	Hyspin Spindle Oil 10	Alpha SP 220	Perfecto X 46 SC#	Alpha SP 150	Hyspin AWS 22**	Hyspin AWS 32**
Hangsterfe's			Prima Hydraulic 68	Way Oil No.2								

**Note: For first oil change only**

**ATTENTION: Clean all Lubrication points before filling  
Refer Instruction manual for greasing points**

IF IN DOUBT ASK.  
DO NOT MEASURE DRAWING

General Tolerances Where not Specified									
Linear-Length or Diameter					Angular-Length of Shorter Side of the Angle				
0.5-6	6-30	30-120	120-315	315-1000	1000-2000	Upto 6	6-30	30-120	120-400
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±1°	±30'	±20'	±10'

Surface finish		Scale	1:2	
Ra value - μm	0.025 0.05 0.1 0.2 0.4 0.8 1.6 3.2 6.3 12.5 25 50 100	Casting/Weldment/ Forging Drg. No.	--	
Roughness No:	N1 N2 N3 N4 N5 N6 N7 N8 N9 N10 N11 N12	Material		
Advice No		BANGALORE-560022		
No.of Places		Drawing No.	3100105234	RL. 00
Date		13.06.23		
Name		LUB, HYD, SPL, Cooling, Gearbox-oil chart		
Drawn	hp	Designation		
Checked	ANB	Group No		
Approved	ANB	Replacement for / by		
Date	13.06.23	Sheet No. 1 / 1		
Machine Type				