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High-Speed **B-Series**

DESCRIPTIONS



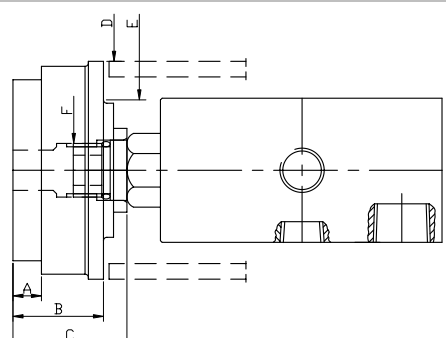
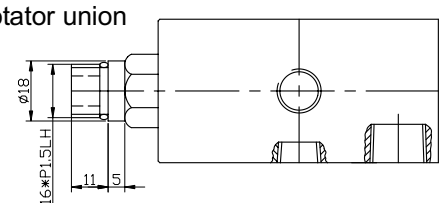
Modular Spindle Technology

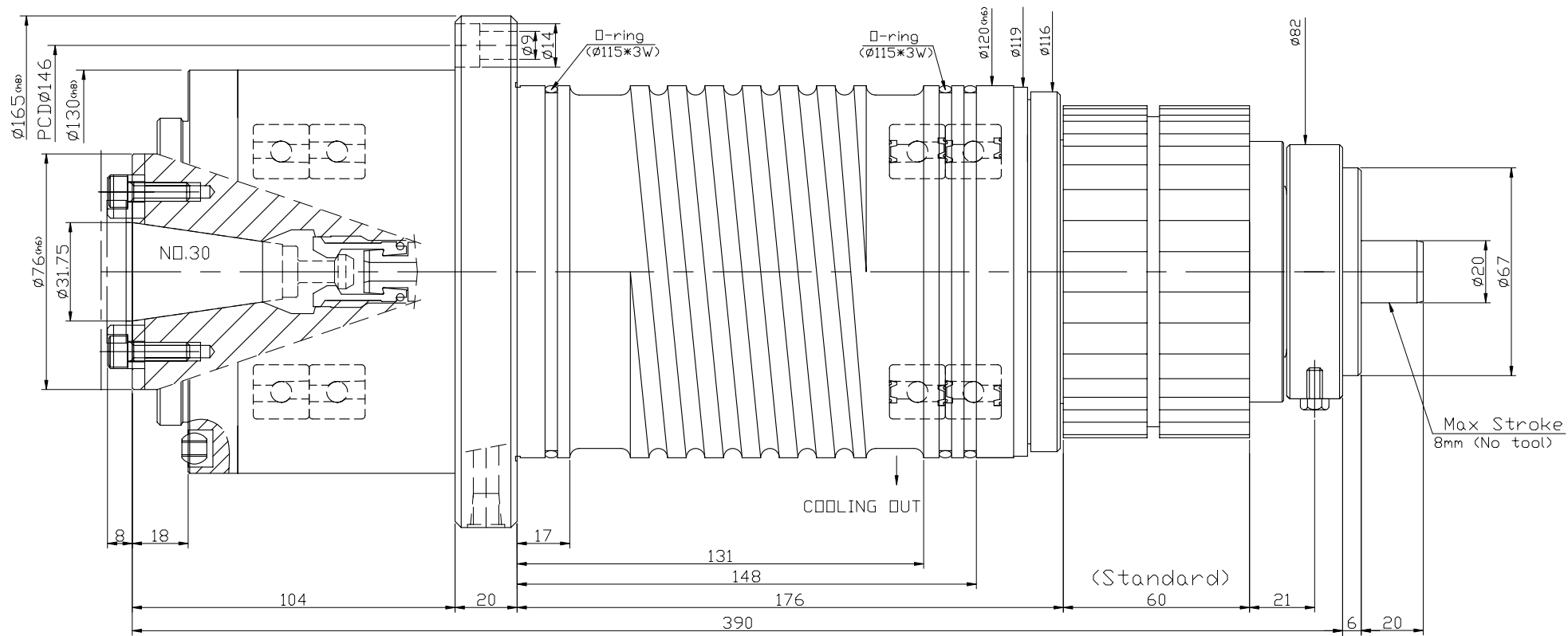
D-09501E/02

**Standard functions**

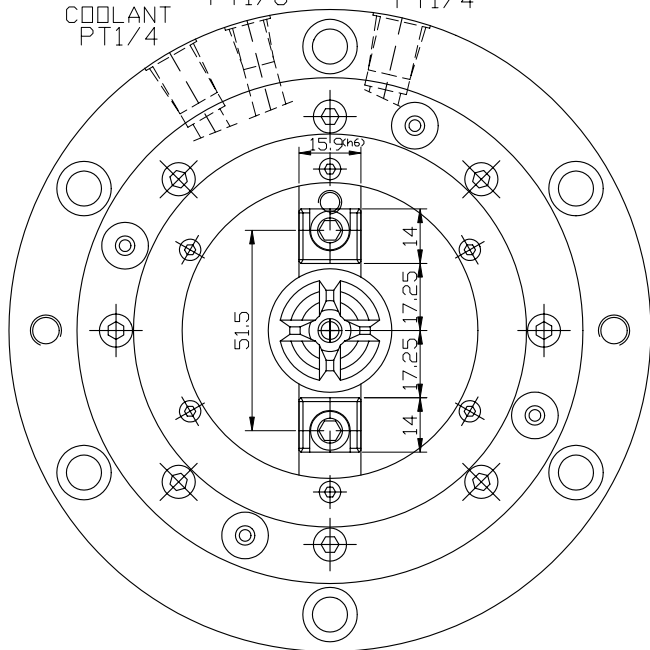
◎Application			
Housing	Cartridge With flange mounted		
Tool adapter	DIN 69871/69872 ISO 7388/1/1 Type A		
	ANSI B5.50 ISO 7388/1/2 Type B		
	MAS403-1982-BT/PT-2(30°)		
	MAS403-1982-BT/PT-1(45°)		
Direction of rotation	Clockwise and Counter-clockwise		
Operating position	Horizontal/vertical		
Maximum speed	Refer to the characteristic data sheet		
Bearing lubrication	Grease lubricate		
Bearing seal at front	Purge air Labyrinths		
Medium connections	Cooling x 2	PT 1/8	ø8mm diameter
	Purge air x 1	PT 1/8	ø6mm diameter
◎Tool clamping device			
Gripper	Spring type		

Technical specifications

◎Spindle cooling				
Cooling medium	Cooling capacity > 1 kW, Adjust coolant temperature (+2°C)			
Cooling With oil	ISO VG10~22			
Pressure	3~5 bar			
Flow rate	8 l/min			
Filter size	100 μm			
◎Purge air				
Pressure	1~1.5 bar			
Filter size	8 μm			
Flow	1.0 ... 1.5 Nm3/h			
◎External Coolant(Option E)				
External Cooling in	Flange or cartridge mounted			
Medium connections	PT1/8 ϕ12 diameter			
◎CTS (Option M)				
		B30-120 B40-120 B40-140 B40-150	B50-160	B50-190
	A (Max stroke)	8mm (No tool)	9mm (No tool)	9mm (No tool)
	B	27	31	39
	C	34	36	45
Rotator union 	D	ϕ65	ϕ75	ϕ70
	E	ϕ50	ϕ50	ϕ50
	F	M16*P1.5 (LH)	M16*P1.5 (LH)	M16*P1.5 (LH)

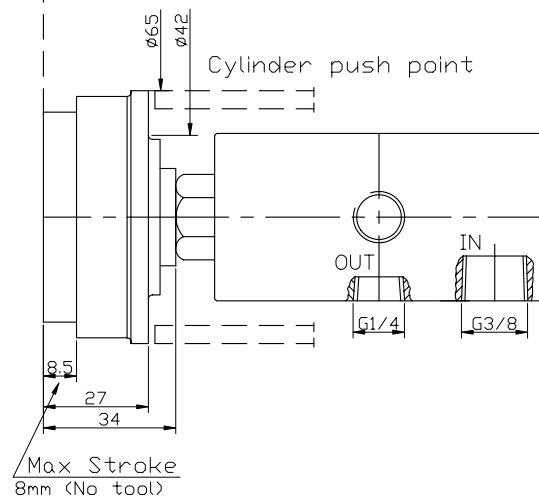


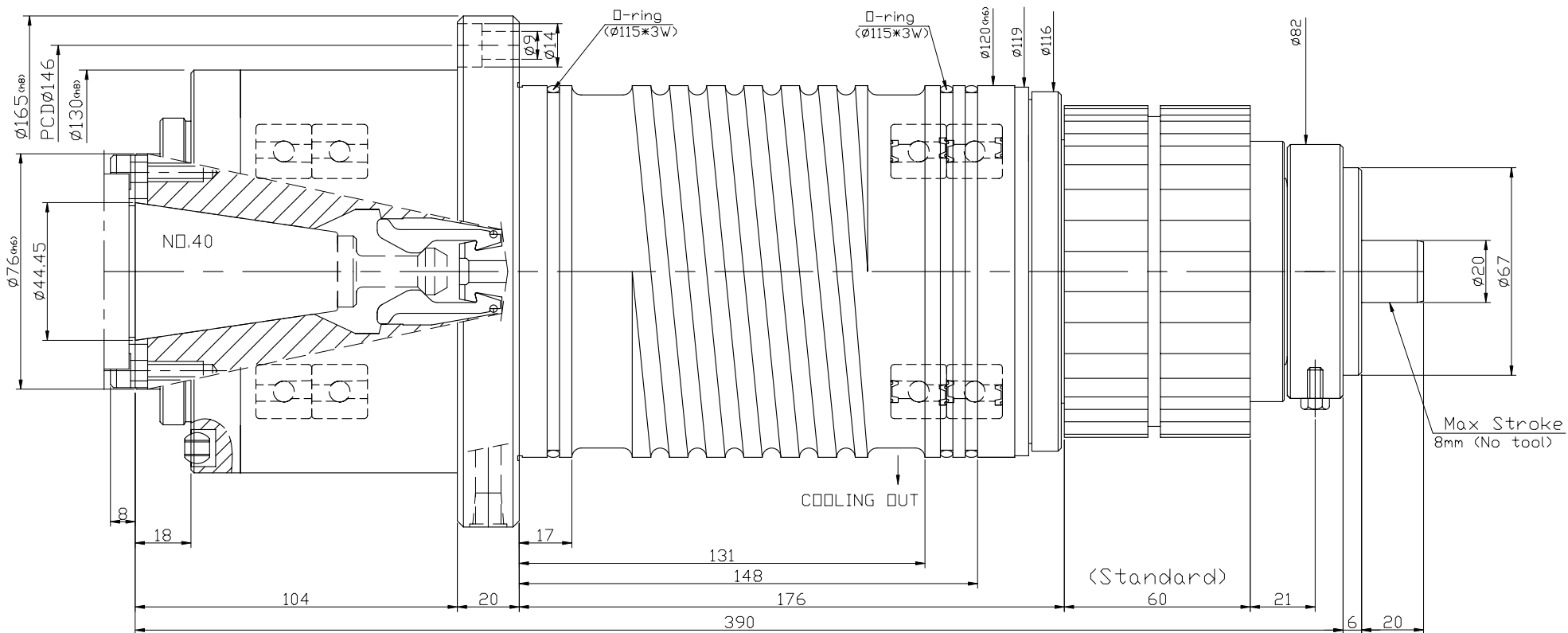
AIR SEAL PT1/8
EXTERNAL COOLANT PT1/4
COOLING IN PT1/4



	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	8,000	B7012E	Rigid	Grease	3,000	5GT-68teeth	BT	095.121.008.T_0
	10,000	B7012E	Rigid	Grease	3,000		or ISO	095.121.010.T_0
	12,000	HS7012E	Rigid	Grease	3,000		CAT SK	095.121.012.T_0

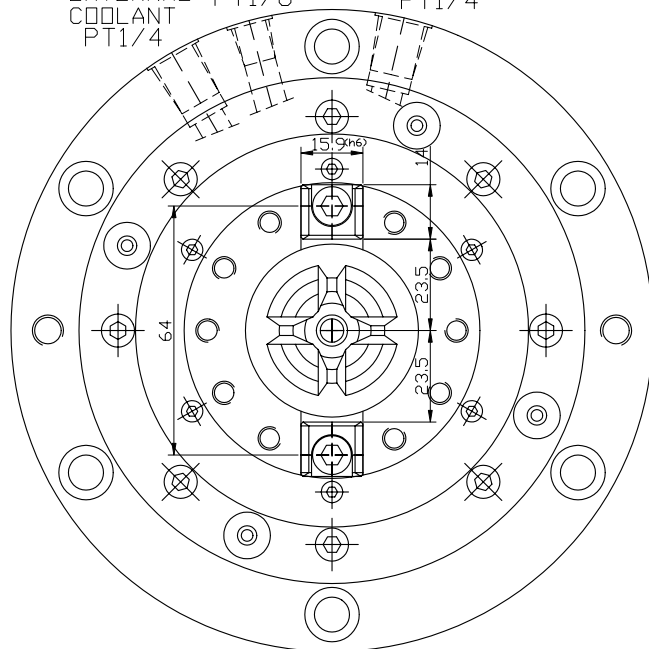
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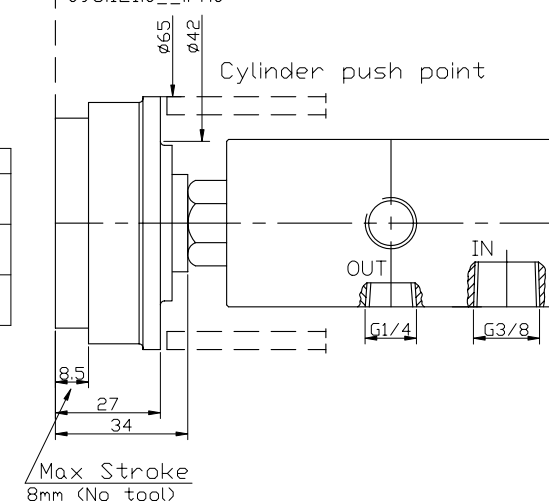
AIR SEAL
EXTERNAL PT1/8
COOLANT
PT1/4

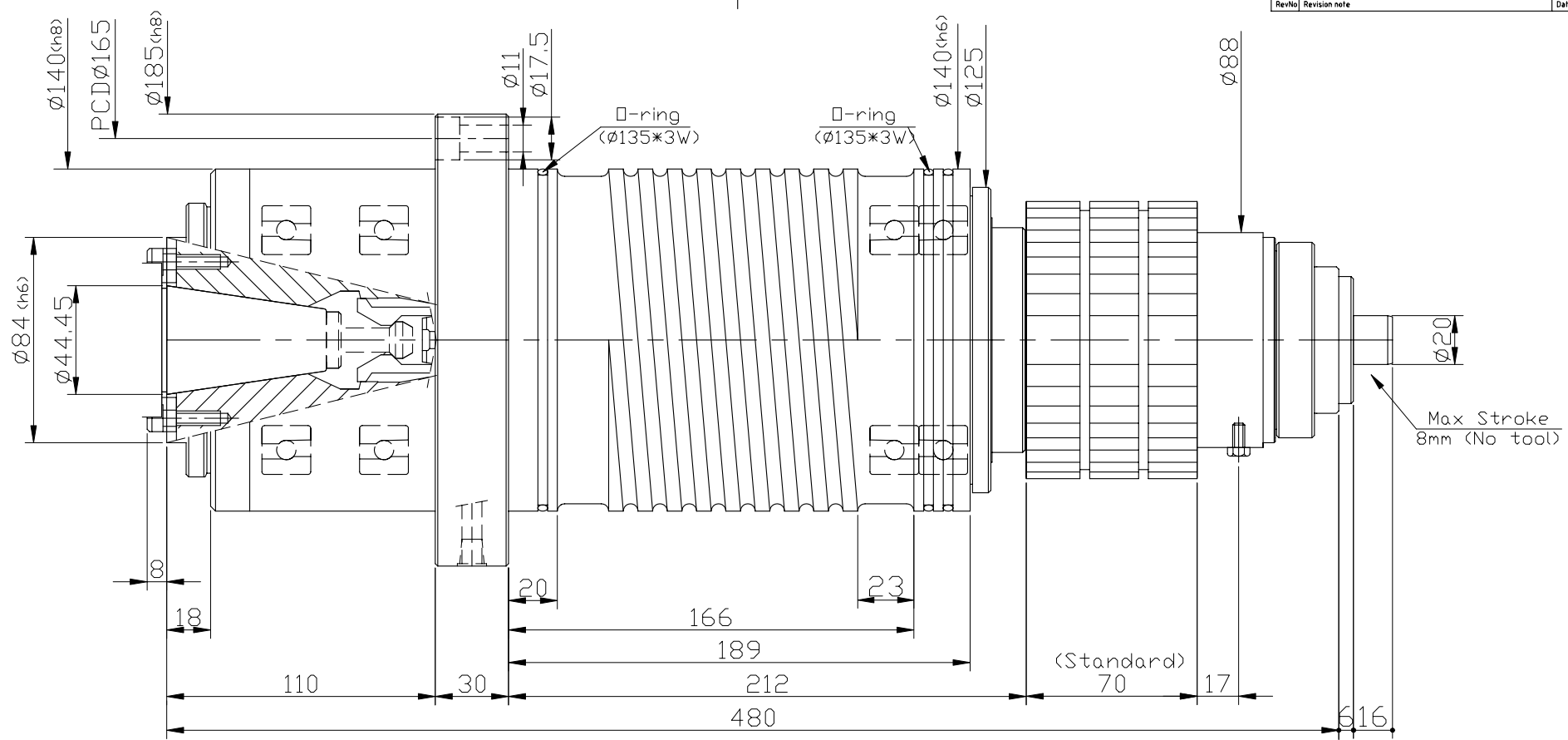
COOLING IN
PT1/4



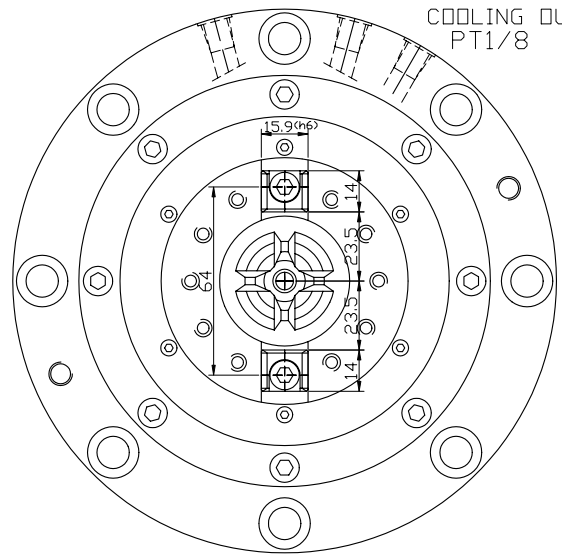
	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	8,000	B7012E	Rigid	Grease	6,000	5GT-68teeth	BT or ISD CAT SK	095.121.008.P_0
	10,000	B7012E	Rigid	Grease	6,000			095.121.010.P_0
	12,000	HS7012E	Rigid	Grease	6,000			095.121.012.P_0

CTS:
095.121.0__PM0

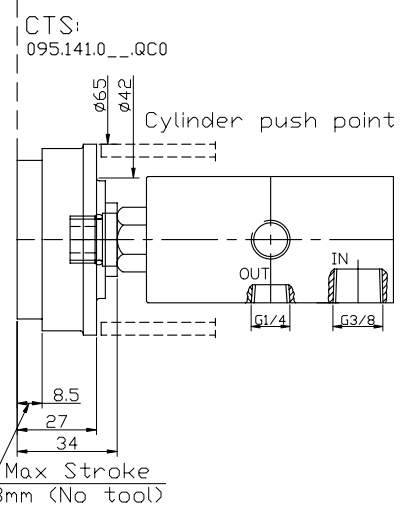


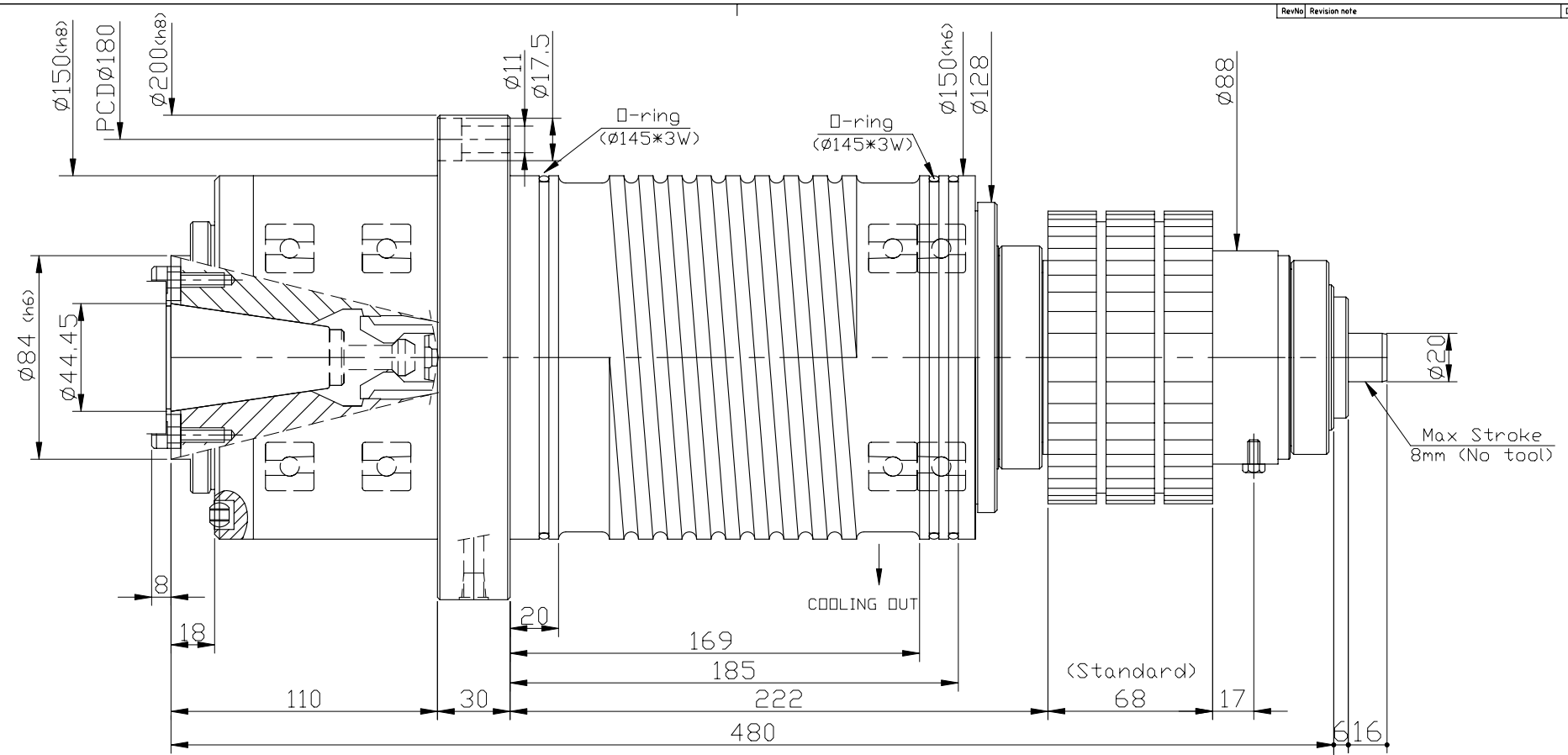


AIR SEAL PT1/8 COOLING IN PT1/8 COOLING OUT PT1/8

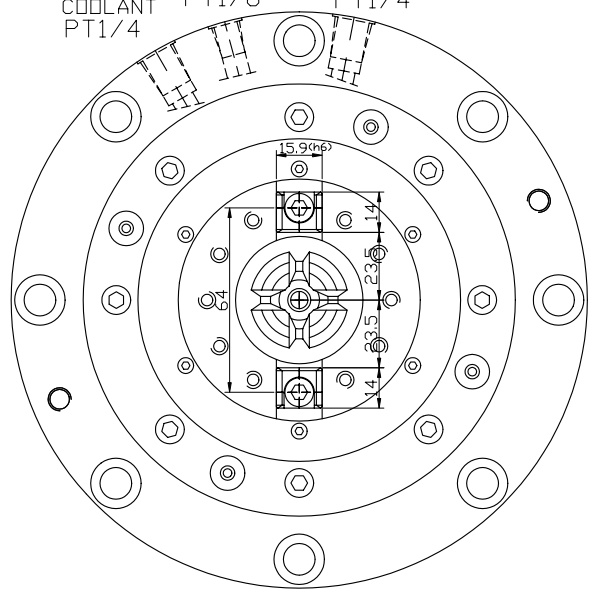


	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
TYPE	8,000	B7014E	Rigid	Grease	8,000	8YU-40teeth	BT or ISO	095.141.008.Q_0
	10,000	HS7014E	Rigid	Grease	8,000	5GT-72teeth	CAT	095.141.010.Q_0
	12,000	HC7014E	Rigid	Grease	8,000		SK	095.141.012.Q_0

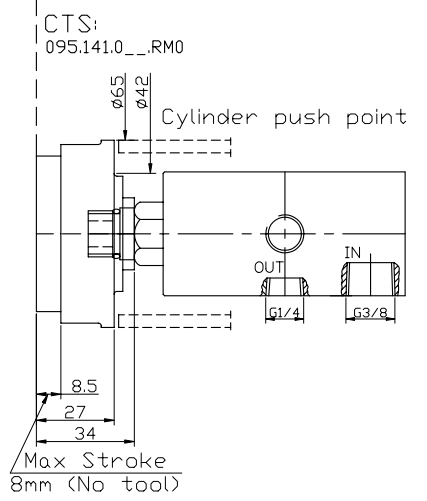


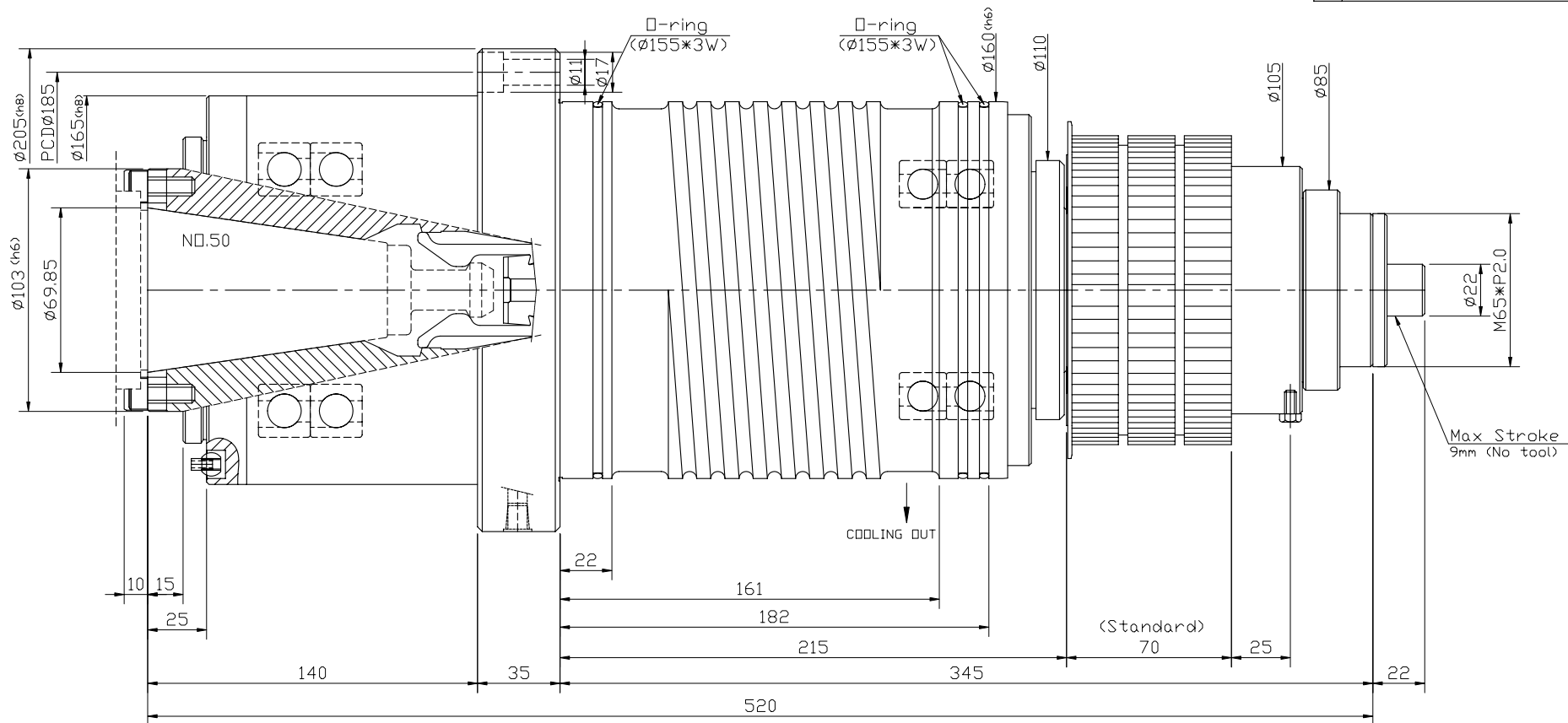


EXTERNAL COOLANT PT1/4
AIR SEAL PT1/8
COOLING IN PT1/4

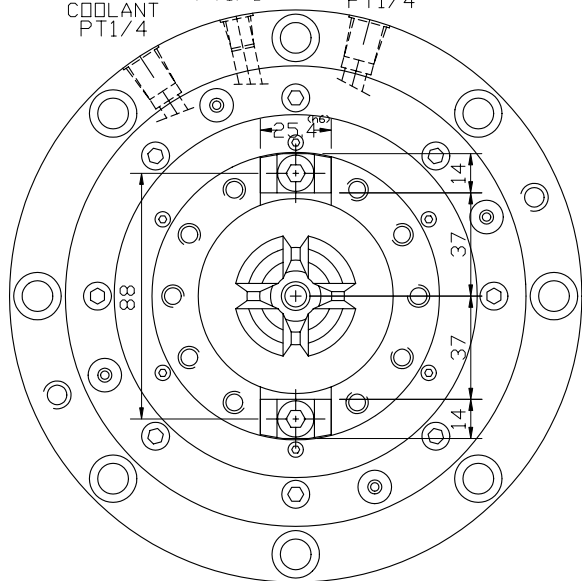


	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	8,000	B7014E	Rigid	Grease	8,000	8YU-48teeth	BT or ISO CAT SK	095.141.008.R_0
	10,000	HS7014E	Rigid	Grease	8,000	5GT-72teeth		095.141.010.R_0
	12,000	HC7014E	Rigid	Grease	8,000			095.141.012.R_0

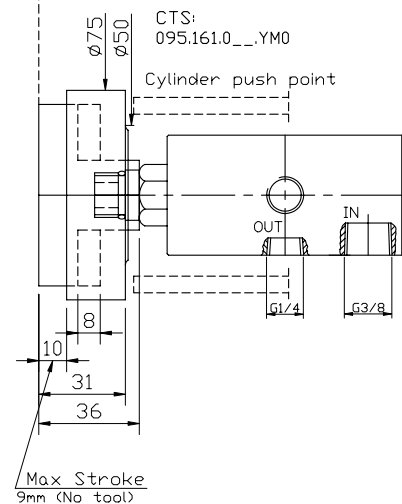


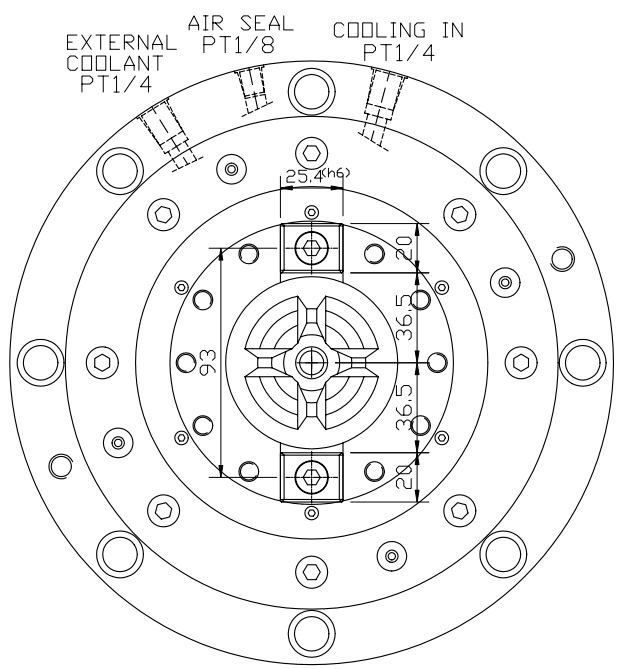
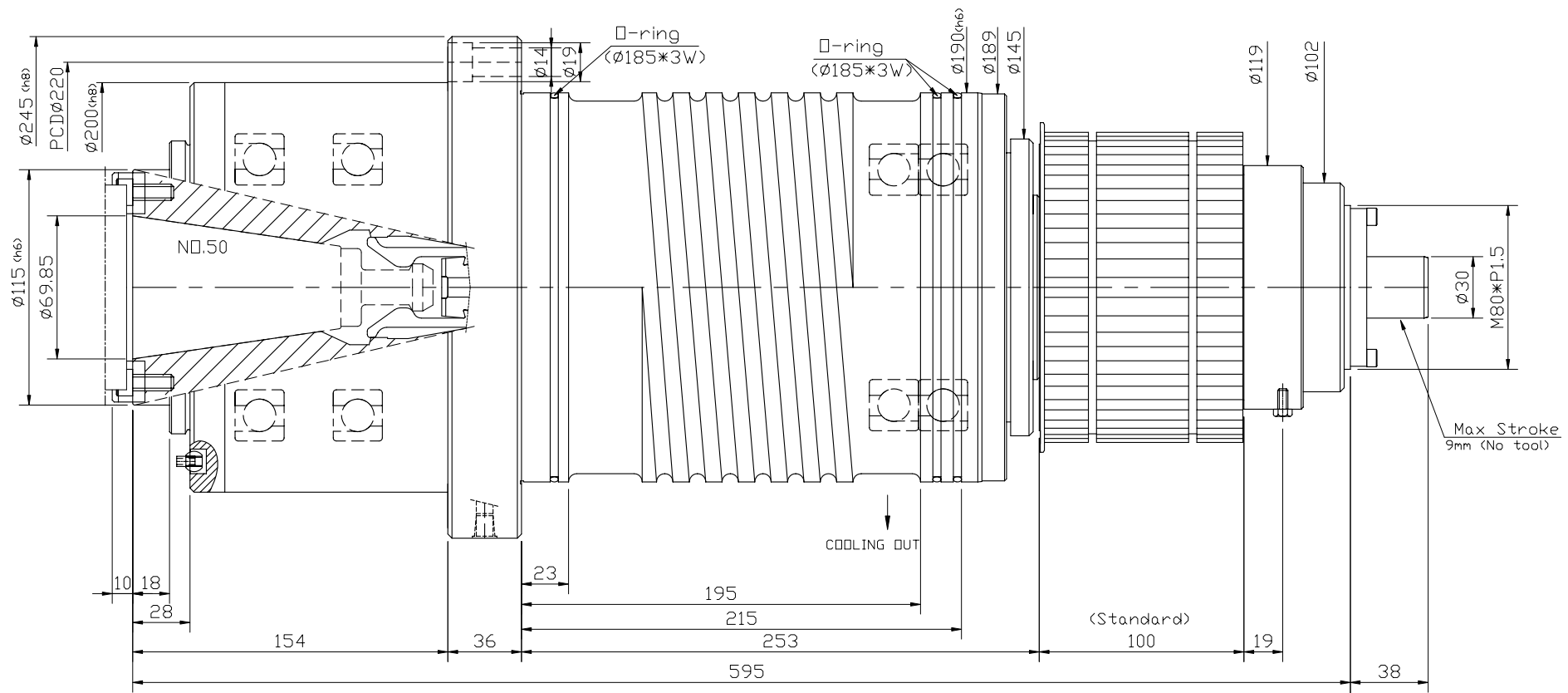


EXTERNAL COOLANT PT1/4
AIR SEAL PT1/8
COOLING IN PT1/4

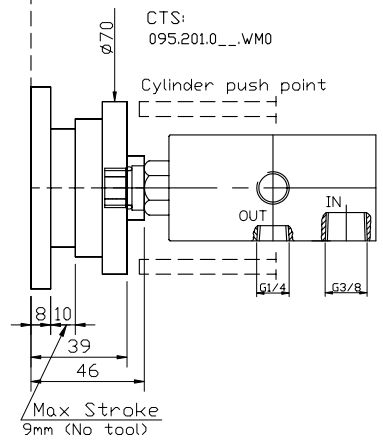


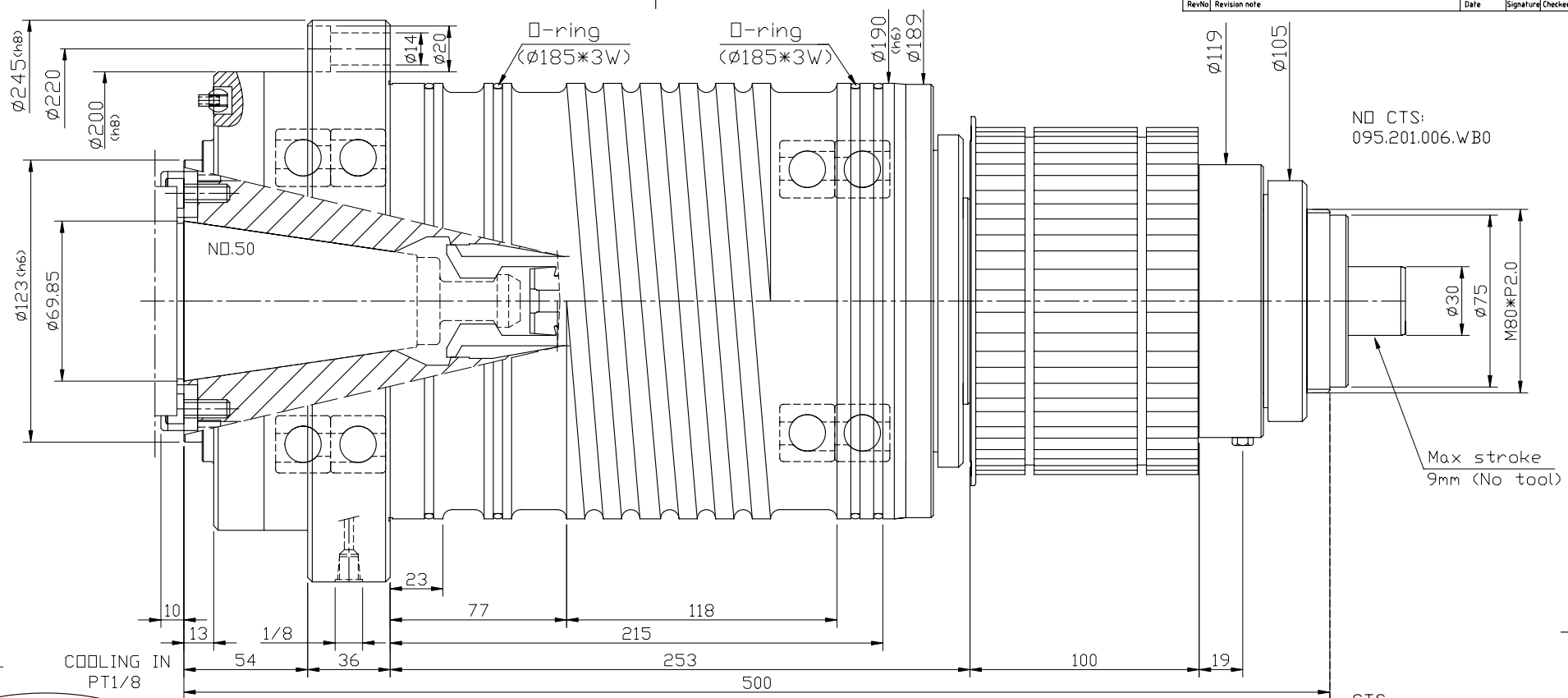
	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	5,000	B7016E B7014E	Rigid	Grease	15,000	8YU-54teeth	BT or ISO	095.161.005.Y_0
	6,000							095.161.006.Y_0
	8,000	HS7016E HS7014E	Rigid	Grease	15,000		CAT SK	095.161.008.Y_0





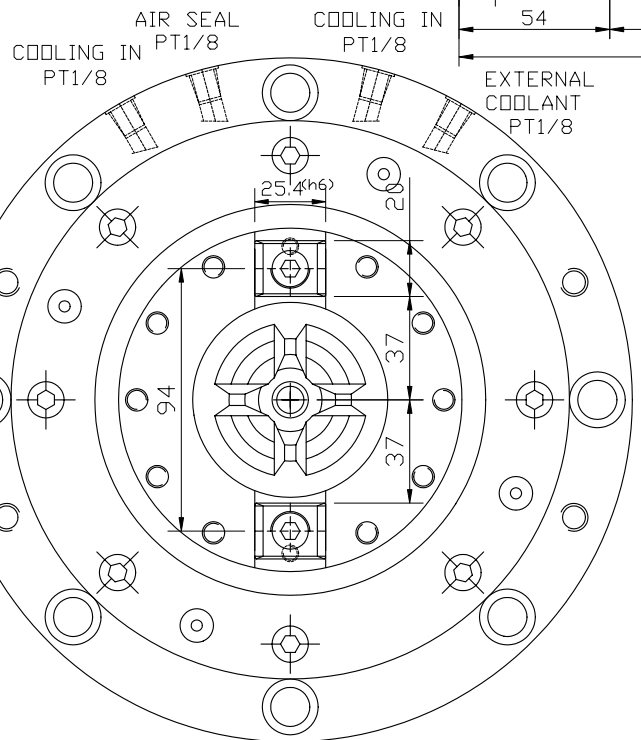
	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	6,000	B7020E	Rigid	Grease	20,000	8YU-60teeth	BT or ISO CAT SK	095.201.006.W_0
		B7018E						
	8,000	HS7020E	Rigid	Grease	20,000			095.201.008.W_0
		HS7018E						





NO CTS:
095.201.006.WB0

Max stroke
9mm (No tool)



	RPM	Bearing	Preload	Lubrication	Pull-force(N)	Belt	Tool	Number
T Y P E	6,000	B7020E	Rigid	Grease	20,000	8YU-60teeth	BT or ISO CAT SK	095.201.006.W_0
		B7018E						
	8,000	HS7020E	Rigid	Grease	20,000			095.201.008.W_0
		HS7018E						

CTS:
095.201.006.WD0

