



a Interval in years
h Interval in operating hours
nA Interval following indication

Cooling		
Machine section	Spindle and electrical cabinet cooling unit	
Cooling point No.	K1	K2
Graphics character		
Instruction		
Check and top up if necessary	200 h	
Flush and replace		1 a
Cooling water:	DIN ISO 3696, quality 3	
Demineralsed water	Antifrogen N	
Mixture water: Antifrogen N	65:35 % by volume	
Container capacity (litres)	42	

The precise details in the Maintenance Instructions on cooling water and procedure must be observed!

* Filling level to centre of sight glass

Lubrication and hydraulics

Machine section	Rotary table		Tool change door	Traverse	Setting station	Spindle unit		Hydraulics		Central	Central
	S1	S2	Guideway	attachment	Guideway	S6	S7	S8	S9	lubrication 1	lubrication 2
Lubrication point no.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
Graphics character											
Instruction											
Check											
Check and top up if necessary	200 h					200 h		n A		n A	n A
Relubricate			2 a	2 a	2 a						
Replace		1 a					1 a		1 a		
DIN 51502 lubricant	SAE 80W API GL-4		K2K-20	K2K-20	K2K-20	CLP 46		HLP 46		CLP 68	CLP 68
ISO 6743 lubricant	SAE J 306/DIN 51512		DIN 51825	DIN 51825	DIN 51825	ISO-L-CKC 46		ISO-L-HM 46		ISO-L-CKC 68	ISO-L-CKC 68
Container capacity (litres)	17*					5*		160		6	6

Use lubricant to purity class ISO 4406-18/16/13!
See separate Lubrication Instructions for chip conveyor, cooling lubricant unit, pallet magazine.

HELLER

2016-10-10
APDO/MED002

H 10000 MC

Chain-type magazine

Lubrication Instructions

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