

API	Equipment Model	Comment	no of devices	Linac	effort, man-month		Outlook	challenge
					convert	replace?		
BCU	Unilac Chopper		2	X		0.25		
CEHV	Switch of Electron Cooler		2				0.5	Use Exploder (WR-TIF)?
CS	Stochastic Cooling		1			2		many elements on byte-ports, partly ramped
DC	Strommessung Cup	only ion sources	9	X			0.5	option: use DCI/DTI HW
DCI	Integrale Pulsstrommessung Cup		67	X		0.25		new HW? Not yet planned
DGX	Profile Grid		190			2		many devices – keep?
DPB	Bunchgenerator		5	X				time critical, multiplexer
DPX	Phasensonde		37	X		1		uses DPX
DS	Stepping Motor		205			2		established installation – keep?
DSK	Collimator, see Stepping Motor	Properties only, uses DS				0.25		many devices – keep?
DSME	Motorsteuerung des Injektions-Sept		1			1.5		see DS
DTC	Trafos		6				0.5	MicroIOC, but special handling
DTI	Integrale Pulsstrommessung Trafo		55	X			0.5	adapt FAIR-HW, FESA ready
DTTC	Beamloss Monitor (High Current)		26	X			0.5	thoughts for HW-replacement
DX	Beam Position Monitor					0.25		combine with DTI
ESAU	E-Cooler Special Application Units		9			0.5		range setting phase-probes only
EZR	EZR RF	basiert auf STD	2	X				subset in STD
FBSD	Feedback Schottky Diagnose							probably no longer used
HFU	Unilac RF		36	X		1		time critical, pulse/pause handling
HFUM	HFU Medien		6	X			0.5	-> SILECS?
HSAU	HLI Special Application Units	basiert auf STD	20	X		0.5		subset in STD
IQX	Ion Source Power Supplies		49	X		0.5		subset in PowerSupply
ISAU	Ion Source Special Application Units	basiert auf STD	9	X				subset in STD
ISCP	Ion Source Current Peak	basiert auf STD	3	X				subset in STD
ISDP	Ion Source Cup	basiert auf STD	3	X				subset in STD
ISEE	Ion Source Extraction Electrodes	basiert auf STD	2	X				subset in STD
ISMO	Ion Source Motor Drive	basiert auf STD	5	X				subset in STD
ISRM	X-Ray Monitor	basiert auf STD	2	X				subset in STD
ISSD	Sputter Puls Super Device	basiert auf STD	2	X				subset in STD
ISSP	Sputter Puls	basiert auf STD	1	X				subset in STD
ISVT	Turbopump	basiert auf STD	12	X				subset in STD
MB	Bumper		5			2		replacement by FESA planned
MBUK	Bunch Compressor	basiert auf STD						closed-loop control, testing with device only
MD	DC-Magnet			(x)		0.25		anyhow new SW (FESA)
ME	Elektrostatic Septum		3			1		use PowerSupply
MK	Kicker		3			3		integrate in PowerSupply
MS	Sweeper		2	X		0.5		single modules like SIS100?
MX	Pulsed Magnet	HSI Timing		(x)		2		integrate in PowerSupply
MXS	Serial Connected Pulsed Magnet		2	X		0.5		time critical
PLA	Pressluftantriebe		367			0.5		handle in PowerSupply
PPOS	Positionierbarer PLA		9			1		many devices – keep?
RPG	Rahmenpulsgenerator		13				1	Use Exploder (WR-TIF)?
STD	Standard Devices					0.5		diff. Models: use subsets
STHV	Stepping HV		1				1.5	replace device?
TGX	Timing Generator Kicker					0.5		rotating preloading of sub power supplies
UG	Unilac Gasstripper		1	X		0.5		new device (pulsed)?
		number of eq-models				25		8
		effort for conversion to FESA (months)				24.25		5.5