

1. Codes and Standards

The assembly and operation manual has to be supplied by the Contractor in German at least (cf. 2006/42/EG). Bilingual manuals (German and English) are welcome – then, the German text is the leading text.

2. List of Documents

D: Draft version

X: Final version (prerequisite for payment)

No	Type	PDR / CDR	FDR	FAT ¹	immediately ⁴
Manuals / Instructions					
1	Operation manual (including safety instructions in German and English)	D	X		
2	Installation manual (including disposal instructions)	D	X		
3	Risk analysis	D	X		
4	Quality Inspection Plan (including magnetic measurement plan)	D	X		
5	Production plan (including assembly plan)	D	X		
Drawings, Model					
6	Digital 3D Model of the magnet	X ²			
7	Complete and approved set of drawings of components (PDF/A)		X ²	X ³	
8	Complete and approved set of drawings of tools and units (PDF/A)		X ²		
Certificates					
9	Specification of magnetic materials, supplier, and quality certificate with analysis			X	
10	Information on type of glue for lamination and its insulation quality			X	
11	Certification of approval for Cu conductor material			X	
12	3.1 certificates of all materials being used for load pickup (crane eyes, setting areas ...)			X	
13	Welding certificates and welding instructions			X	
Measurement protocols					
14	Protocol of the dimensions of the prototype lamella, to be sent again after remanufacturing of stamping tools				X

No	Type	PDR / CDR	FDR	FAT ¹	immediately ⁴
15	Results of Epstein or ring probe measurements			X	
16	Details about bonding pressure and the heating cycle of yoke bonding			X	
17	Measurement report of the dimensional data required in TG 3.12e, TG 3.18, or TG 3.29, or similar			X	
18	Measurement report of the data required in TG 7.5e and either TG 7.6e or TG 7.7e, as applicable			X	
19	Report on resistance of the yokes before welding			X	
20	Acceptance report for the leak test of the conducting material			X	
21	Mechanical measurements			X	
22	Leakage tests			X	
23	Electrical tests			X	
Other					
24	Nonconformity report for any deviation from specification or tolerance				X
25	Calculation of all security relevant welding joints (crane eyes) in a traceable form		X		
26	Acceptance reports after production			X	
27	Spare parts list			X	
28	Photo documentation with tools and manufacturing steps performed for this order			X	
29	Declaration of CE conformity			X	
30	etc ...	as applicable			

- 1: In case there is a First of Series (FoS) magnet, this refers to the FAT of the same if possible
- 2: Final version to be delivered two weeks in advance for assessment
- 3: Drawing set as built for FAT
- 4: Important, because Company's approval is required

The documentation eventually is to be delivered in one package together with the ordered magnets. Delivery is on paper and electronically according to the rules that have been agreed upon.