

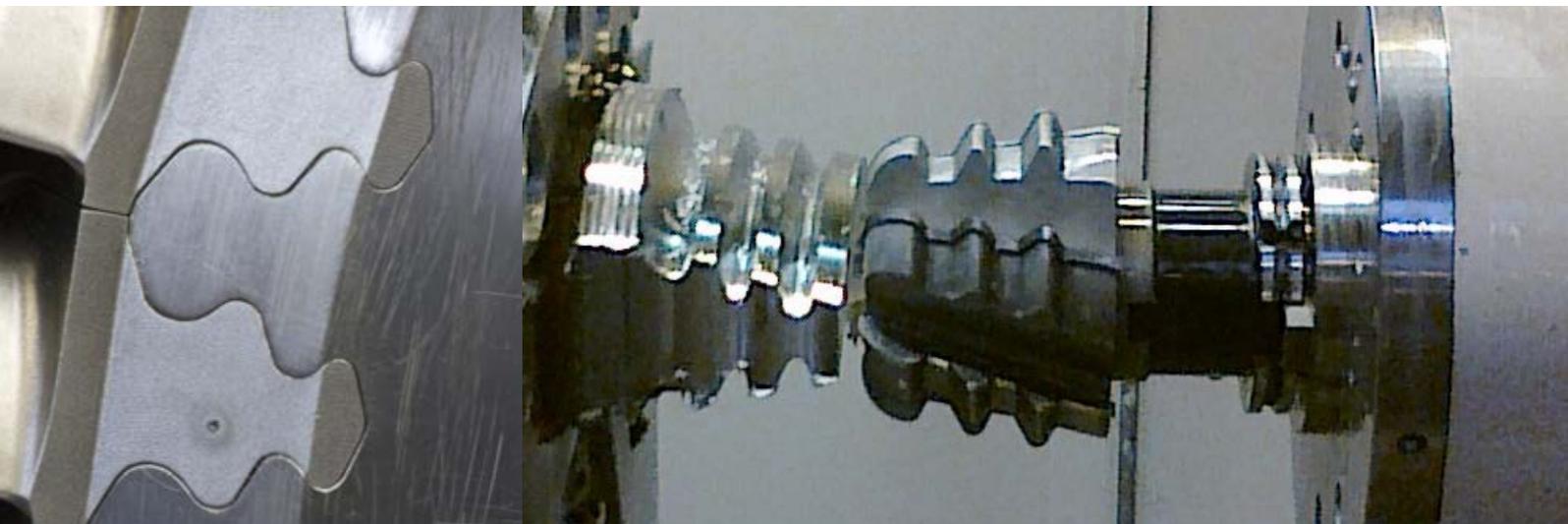
THE NEW VALUE FRONTIER



POWER GENERATION

Turbine
machining

Turbine machining



Intelligent tooling solutions – cutting your costs

Brazed carbide



**KEEPS YOU
AHEAD**

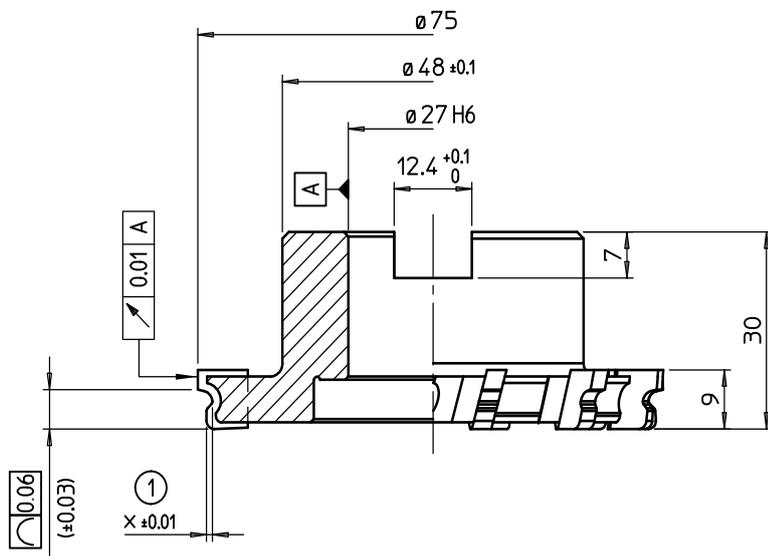


List of included tools

TURBINE MACHINING

Drawing number	Diameter	Profile length	Number of teeth	Length	Page
410708/999998	75	9	12	30	3
410708/999997	75	11	12	30	4
410708/999996	75	14	12	30	5
410708/999995	75	18	10	35	6
410708/999994	75	18	12	38	7
410708/999993	75	21	10	38	8
410708/999992	75	25	10	40	9
410708/999991	100	25	10	40	10
410708/999990	100	28	10	41	11
410708/999989	100	31	8	41	12
410708/999988	100	32	8	45	13
410708/999987	100	37	10	50	14
410708/999986	100	38	8	50	15
410708/999985	110	40	6	52	16
410708/999984	100	40	8	53	17
410708/999983	115	40	10	53	18
410708/999982	110	45	8	57	19
410708/999981	100	47	8	60	20
410708/999980	110	48	6	60	21
410708/999979	125	52	8	65	22
410708/999978	100	53	7	66	23
410708/999977	110	55	6	67	24
410708/999976	110	57	7	70	25
410708/999975	125	60	7	73	26
410708/999974	125	62	8	75	27
410708/999973	135	65	7	80	28
410708/999972	120	68	7	81	29
410708/999971	135	70	6	90	30
410708/999970	130	75	7	88	31
410708/999969	120	82	5	95	32
410708/999968	125	92	5	105	33
410708/999967	126	92	5	105	34
410708/999966	150	92	6	105	35
410708/999965	150	92	7	105	36
410708/999964	145	106	6	119	37
410708/999963	160	118	5	135	38
410708/999962	170	130	5	150	39
410708/999961	170	139	5	160	40
410708/999960	180	159	5	175	41

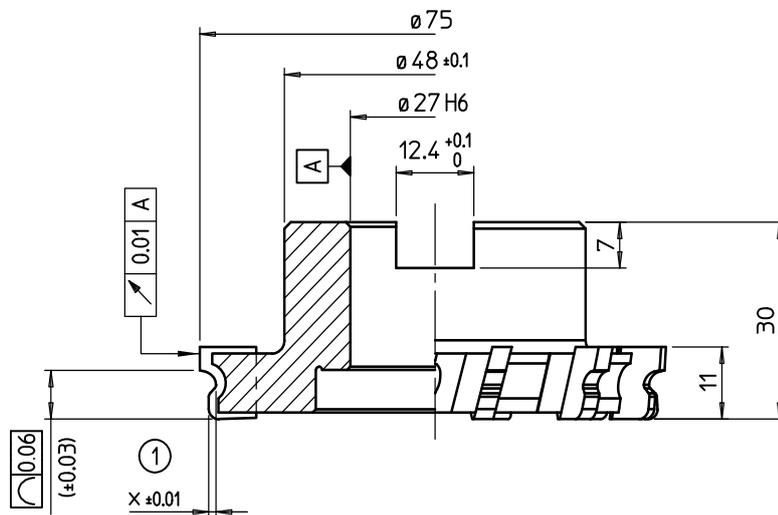
CONCEPT-DRAWING



○ = Measuring Report

Customer ref.: -			Customer No: 43000			Post code: 7451			Type of tool: PROFILE CUTTER			N-max:			Constructor: KLJ 11.04.08			Last revised: KLJ 13.08.08											
UNIMERCO Ref. PETER KRISTOFFERSEN			Edition: 2			Profile No: 1			Tool dim: $\varnothing 75-9-30 \varnothing 27 Z12$			Coating: C2			Weight: (kg)			Pa.			Work piece: STAINLESS			Cutting edge: HW U-01/3					
Drawing no: 410708/999998 COM									Template no:			HRc:			Scale: 1:1			Body: 42CrMo4			TEL.+4597141411 FAX.+4597141486								

CONCEPT-DRAWING

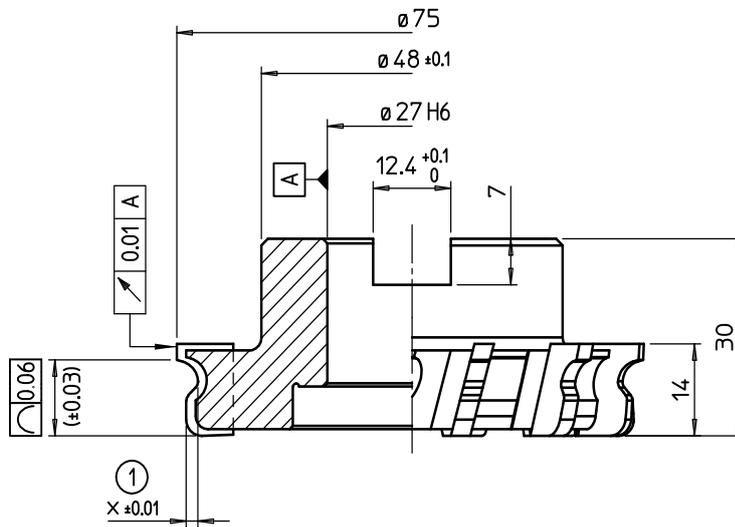


○ = Measuring Report

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 13.08.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: ∅75-11-30 ∅27 Z12	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg)		Pa.
Drawing no.: 410708/999997 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486		

CONCEPT-DRAWING

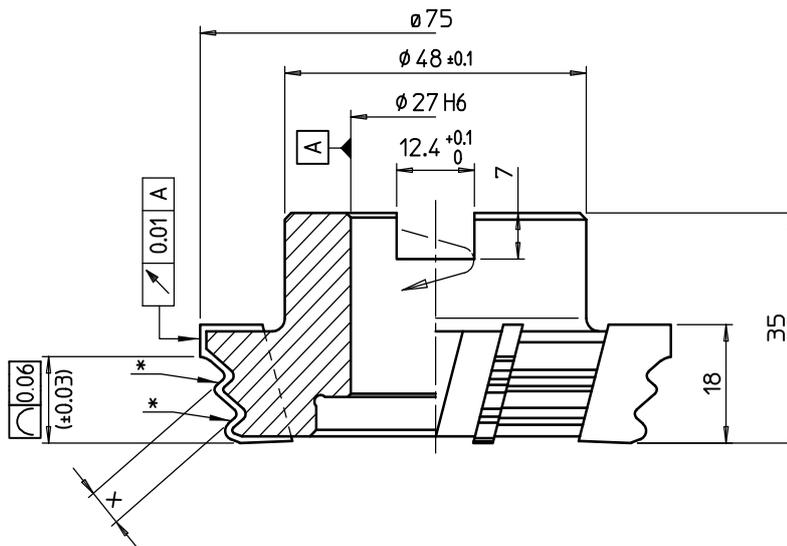


○ = Measuring Report

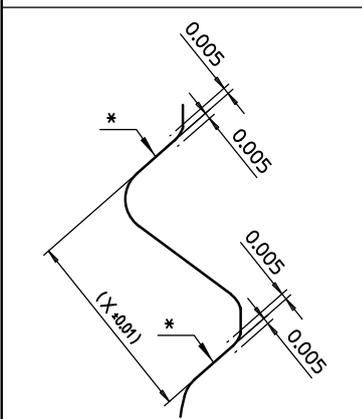
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: ø75-14-30 ø27 Z12	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg)		Pa.
Drawing no.: 410708/999996 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486		

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

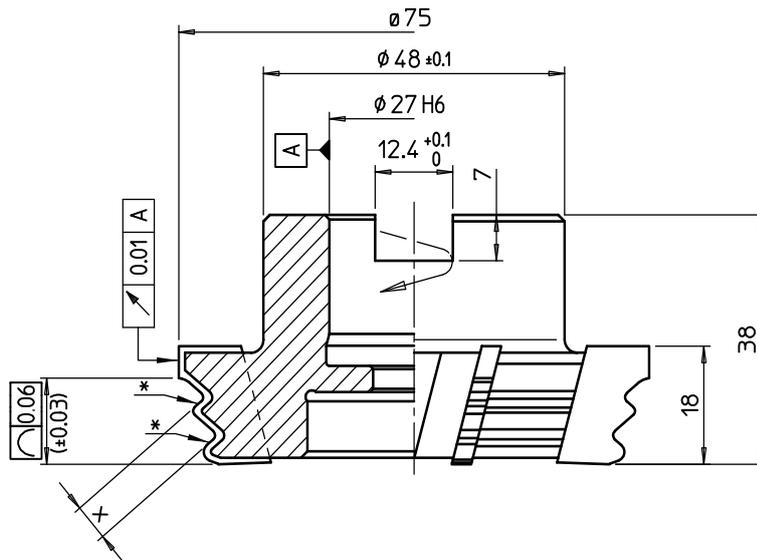


- Measuring Report (Profiling) (Profiling)

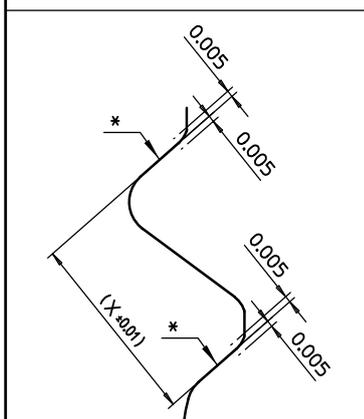
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim: $\varnothing 75-18-35 \varnothing 27 Z10$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Cutting edge: HW U-01/3		
Drawing no: 410708/999995 COM	Edition: 2	Profile No: 1	Template no:	Weight: (kg): Pa.	Body: 42CrMo4	Scale: 1:1
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CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ±0.005)

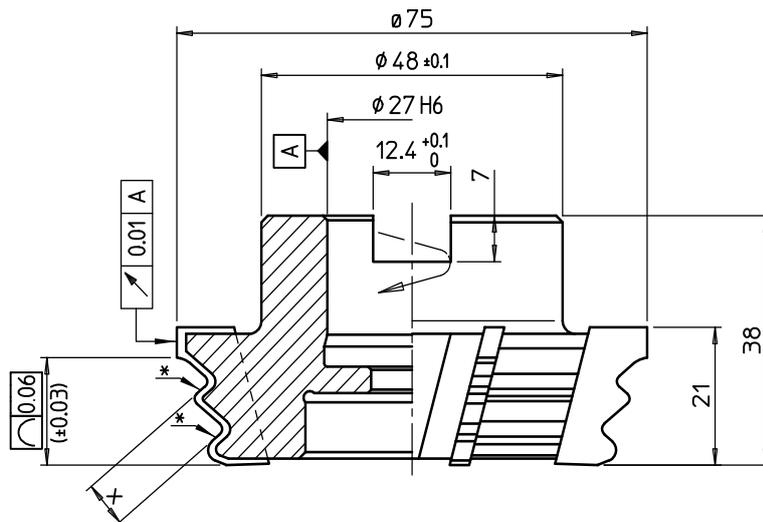


- Measuring Report (Profiling)

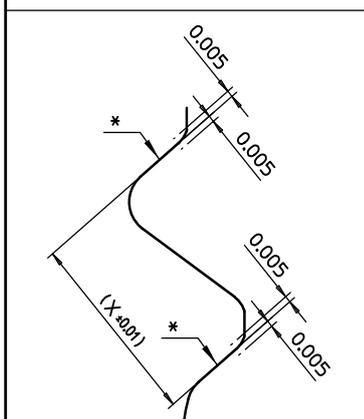
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: ø75-18-38 ø27 Z12	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg) Pa.		
Drawing no.: 410708/999994 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

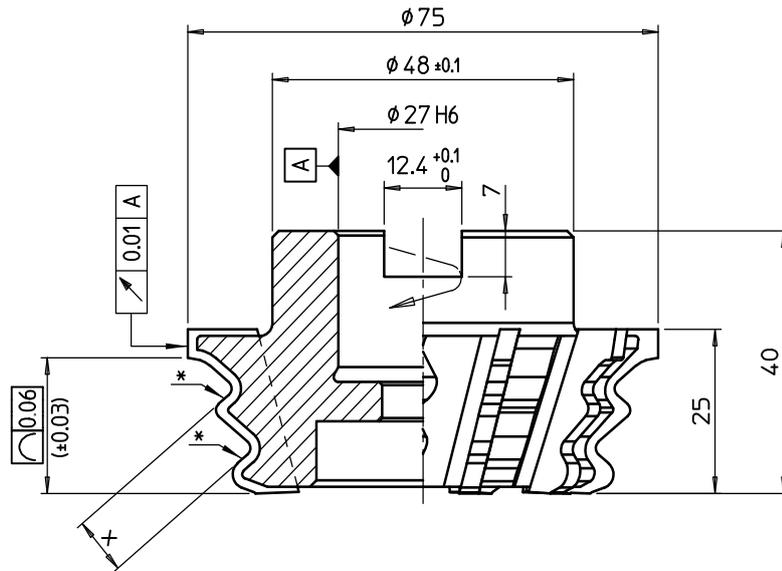


- Measuring Report (Profiling)

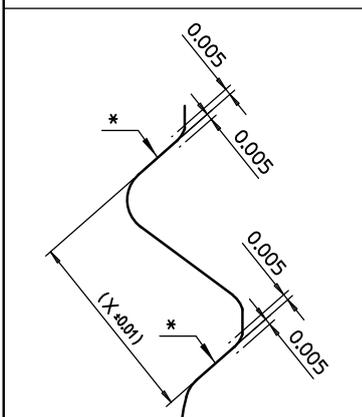
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: 75-21-38 27 Z10	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg) Pa.		
Drawing no.: 410708/999993 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

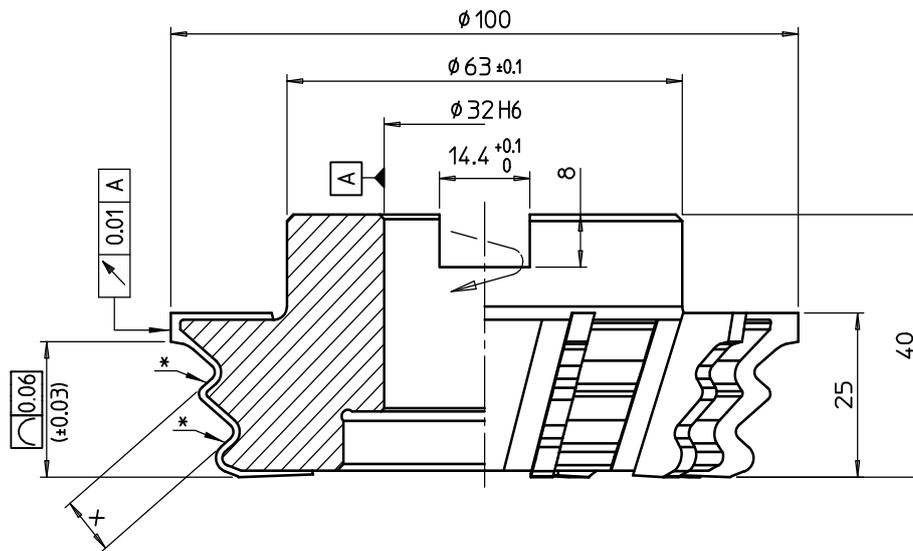


- Measuring Report (Profiling)

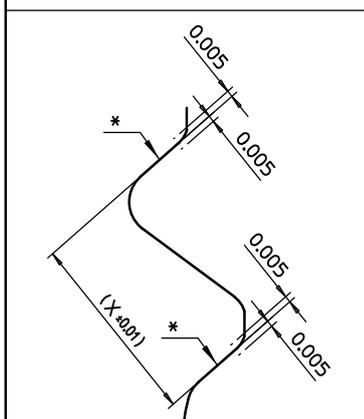
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø75-25-40 Ø27 Z10	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg) Pa.		Cutting edge: HW U-01/3
Drawing no.: 410708/999992 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1		Body: 42CrMo4
					TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING



* = $\sqrt[0.01]{0.01}$
(Element ±0.005)

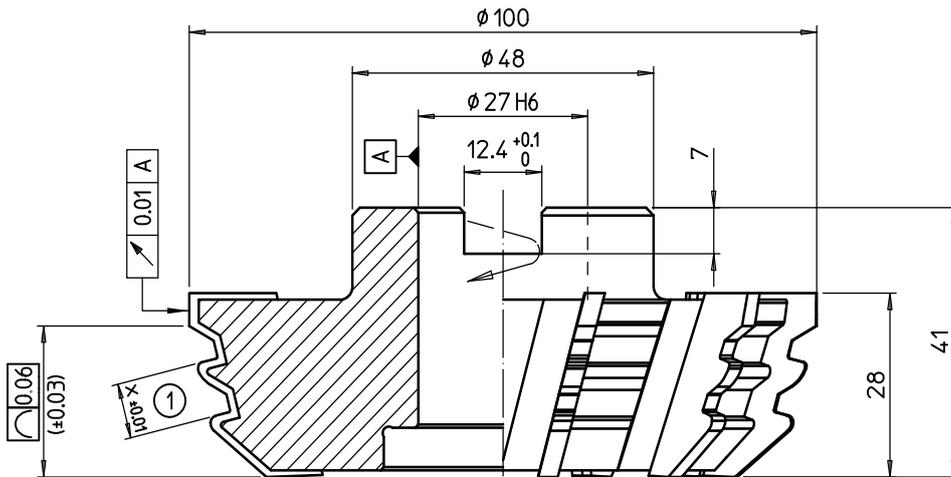


- Measuring Report (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: 100-25-40 32 Z10	Work piece: STAINLESS	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg) Pa.	
Drawing no.: 410708/999991 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING

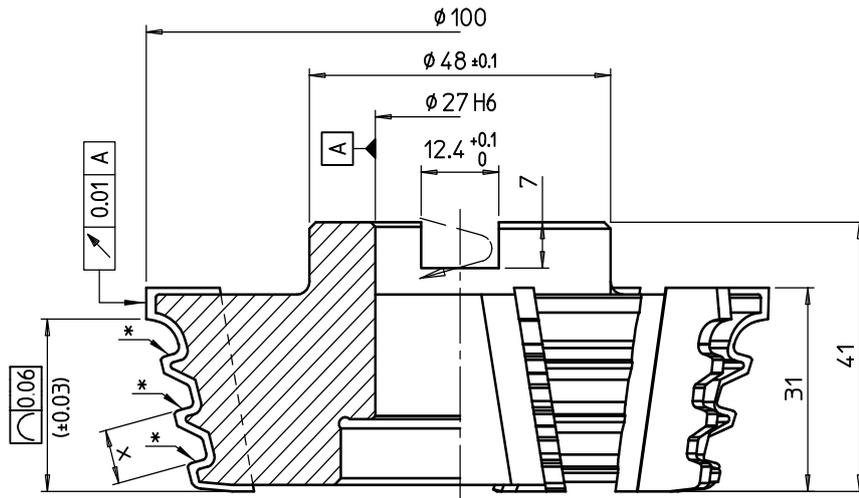


○ = Measuring Report

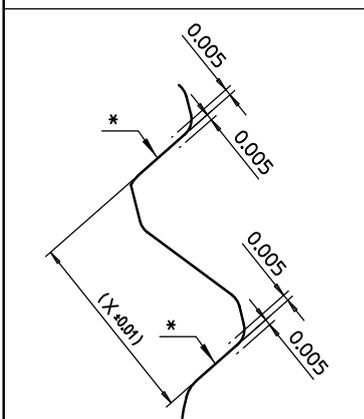
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø100-28-41 Ø27 Z=10	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		Cutting edge: HW U-01/3
Drawing no.: 410708/999990 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486		

CONCEPT-DRAWING



* = 
(Element ± 0.005)

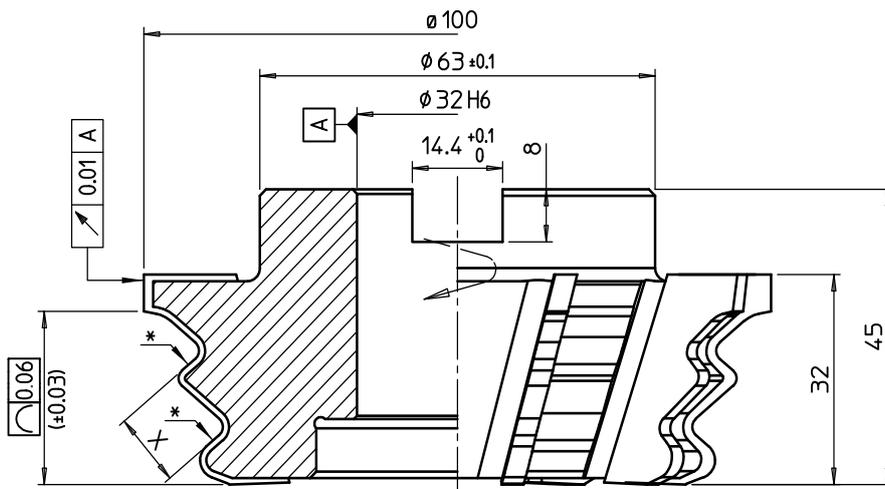


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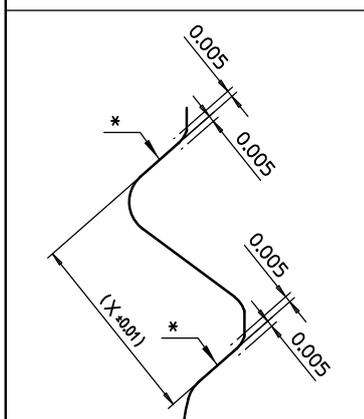
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 12.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 100-31-41 \phi 27 Z=8$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999989 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

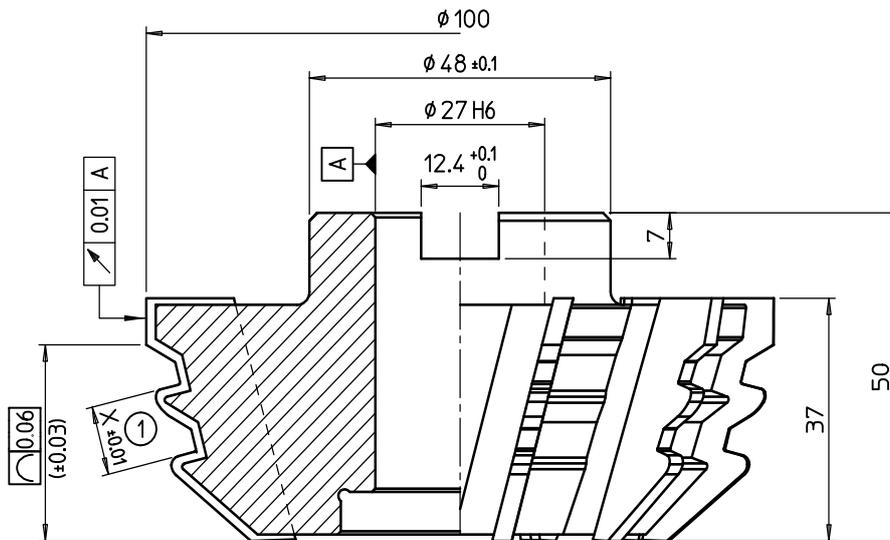


- Measuring Report (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 11.08.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\varnothing 100-32-45 \varnothing 32 Z8$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg)		Pa.
Drawing no.: 410708/999988 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486		

CONCEPT-DRAWING

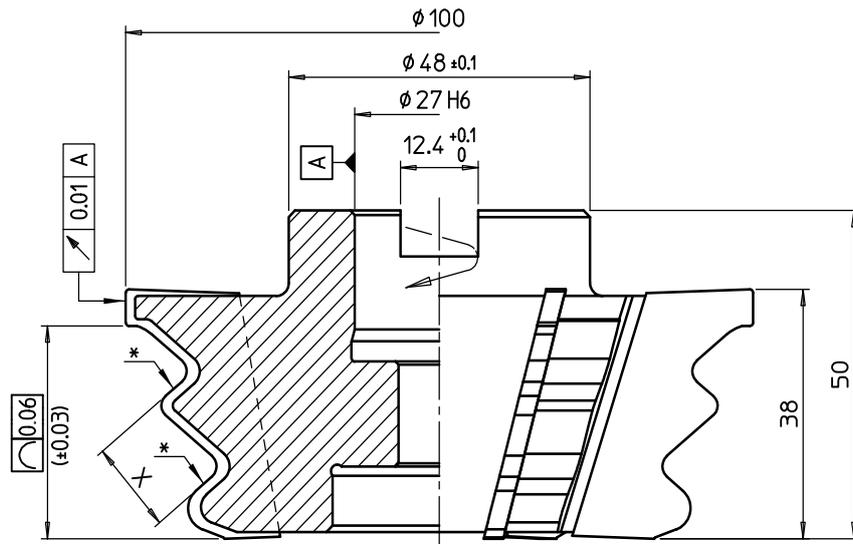


○ = Measuring Report

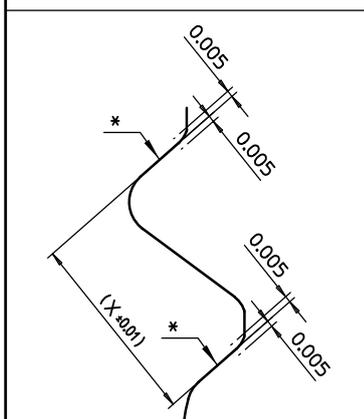
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 11.08.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: ∅100-37-50 ∅27 Z=10	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999987 COM	Edition: 2	Profile No: 1	Template no.:	HRc:	Scale: 1:1	Body: 42CrMo4
						TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ±0.005)

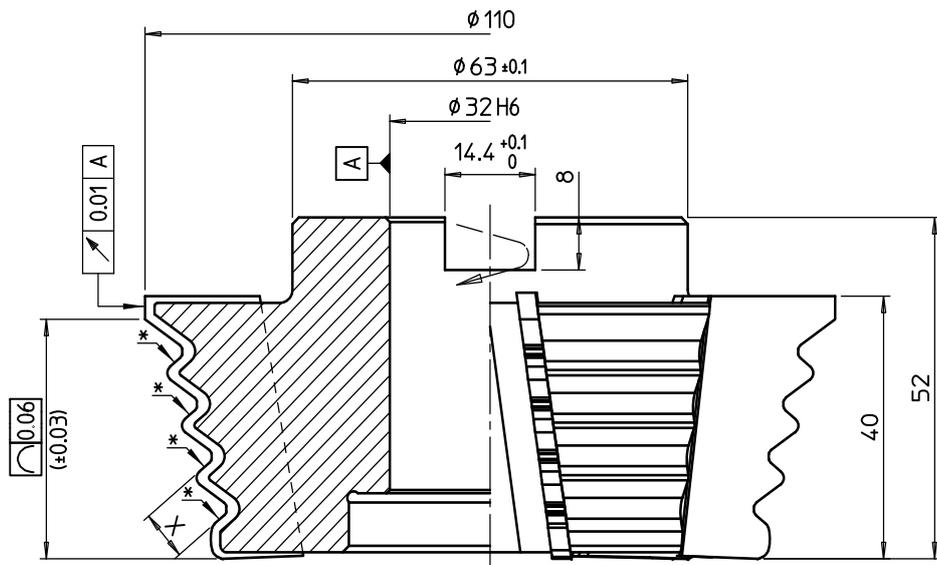


- Measuring Report (Profiling)

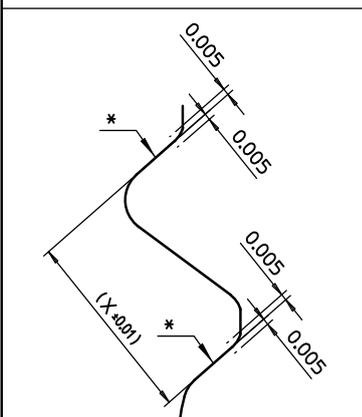
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 25.07.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: ∅100-38-50 ∅27 Z8	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		Cutting edge: HW U-01/3
Drawing no.: 410708/999986 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1		Body: 42CrMo4
					TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

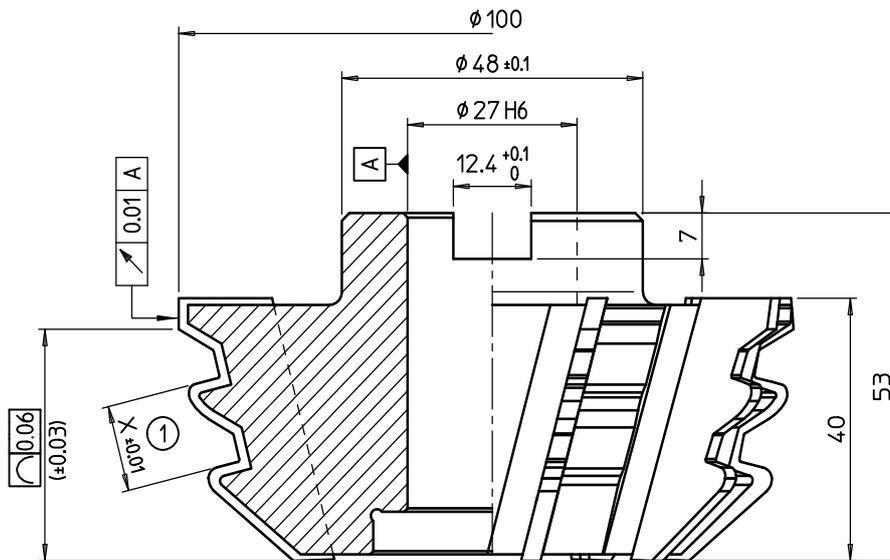


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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 25.07.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø110-40-52 Ø32 Z=6	Work piece: STAINLESS	 TEL.+4597141411 FAX.+4597141486	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg)		Pa.
Drawing no.: 410708/999985 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4			

CONCEPT-DRAWING

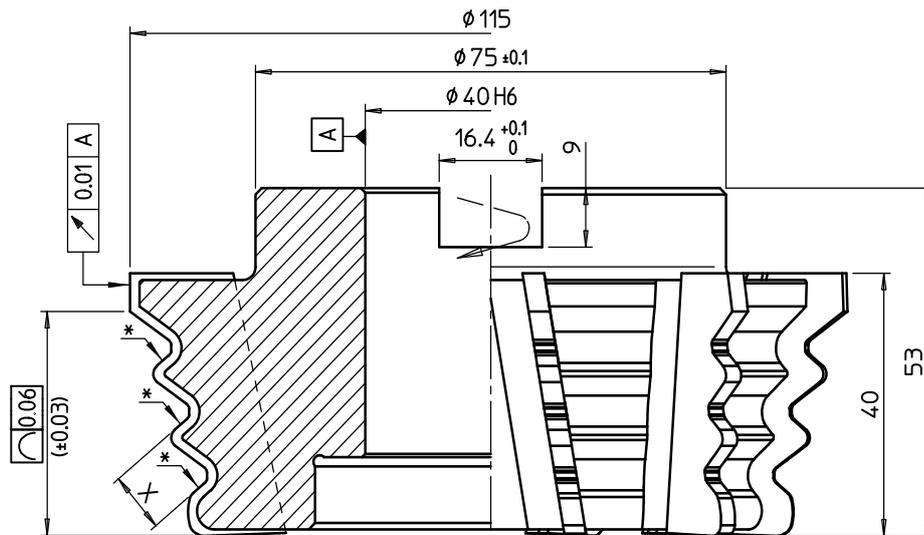


○ = Measuring Report

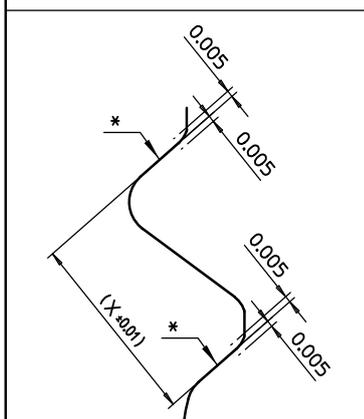
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 25.07.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 100-40-53 \phi 27 Z=8$	Work piece: STAINLESS	 TEL.+4597141411 FAX.+4597141486	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg)		Pa.
Drawing no.: 410708/999984 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4			

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

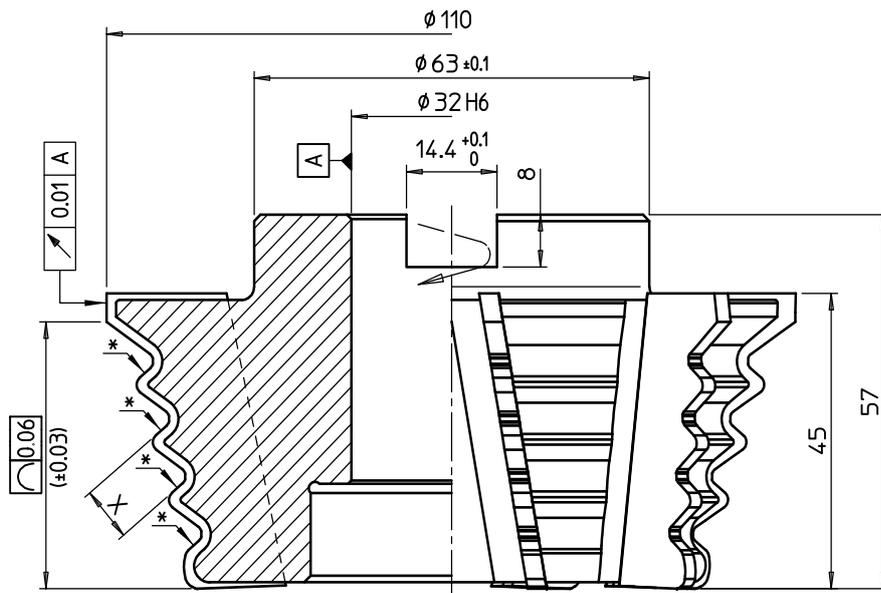


- Measuring Report (Profiling) (Profiling)

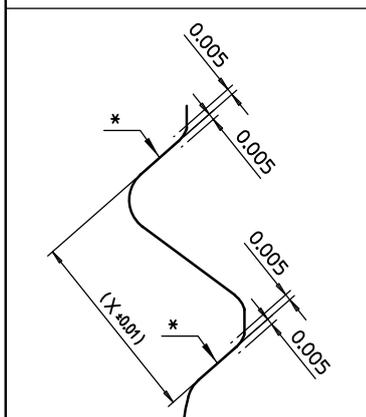
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 25.07.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim: Ø115-40-53 Ø40 Z=10	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C2	Weight: (kg) Pa.		Cutting edge: HW U-01/3
Drawing no: 410708/999983 COM	Edition: 2	Profile No: 1	Template no:	HRc:		Scale: 1:1
				Body: 42CrMo4	TEL:+4597141411 FAX:+4597141486	

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

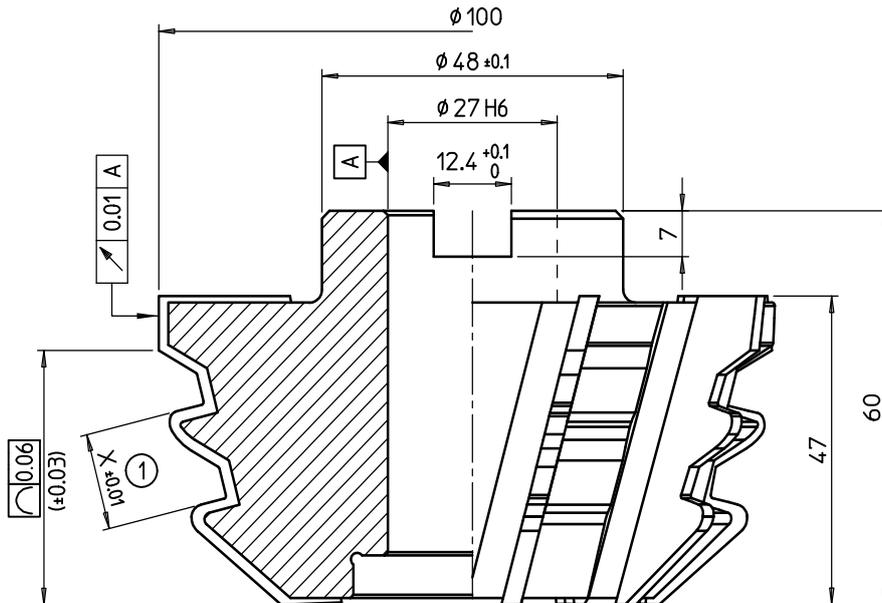


- Measuring Report (Profiling) (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: BOW 14.04.08	Last revised: KLJ 25.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\varnothing 110-45-57 \varnothing 32 Z8$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999982 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING

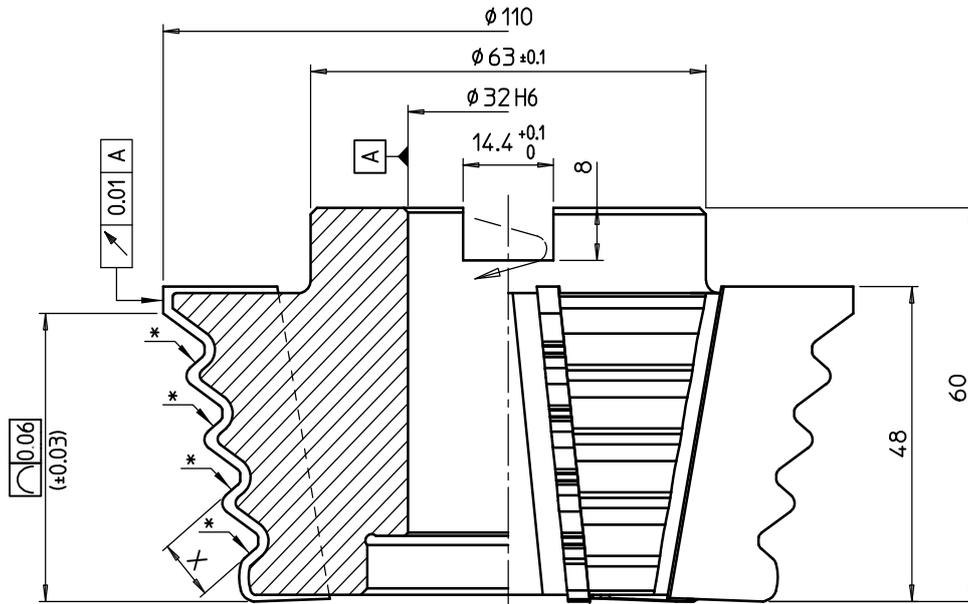


○ = Measuring Report

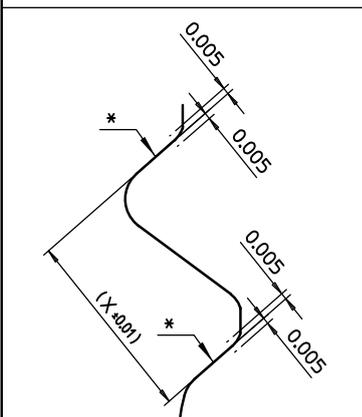
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 25.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: 100-47-60 27 Z=8	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999981 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

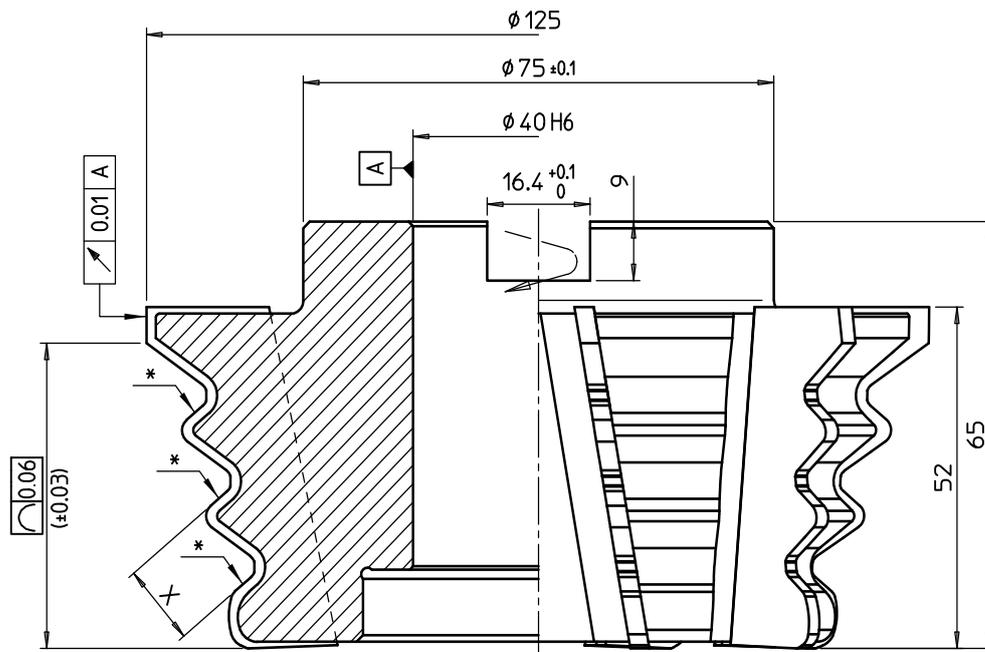


- Measuring Report (Profiling) (Profiling)

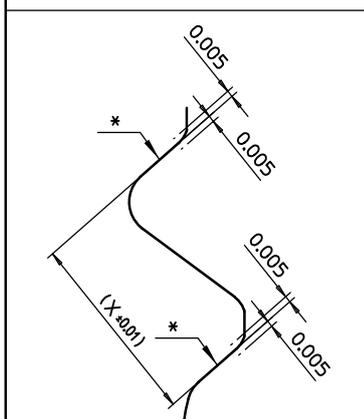
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 25.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 110-48-60 \phi 32 Z6$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999980 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

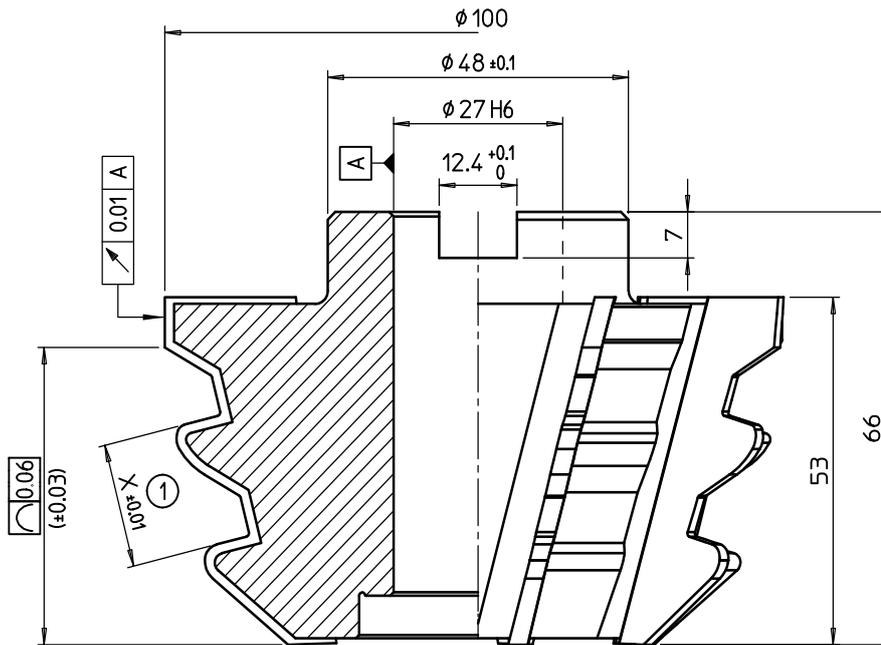


- Measuring Report (Profiling Scanning)

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Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER			N-max:		Constructor: YUD 14.04.08		Last revised: KLJ 24.07.08	
Customer ref.: -		Customer No: 43000		Post code: 7451		Tool dim.: $\phi 125-52-65 \phi 40 Z=8$			Work piece:		
UNIMERCO Ref. PETER KRISTOFFERSEN			Cooling: C5			Weight: (kg)		Pa.		Cutting edge: HW U-01/3	
Drawing no.: 410708/999979 COM		Edition: 2		Profile No: 1		Template no.:		HRc:		Scale: 1:1	
						Body: 42CrMo4					
						TEL.+4597141411 FAX.+4597141486					

CONCEPT-DRAWING

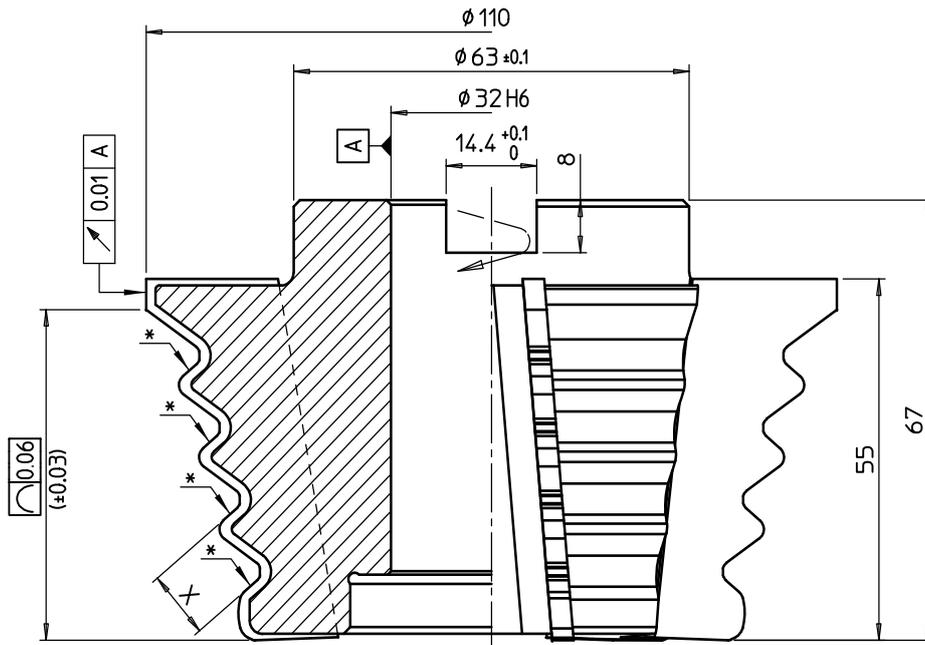


○ = Measuring Report

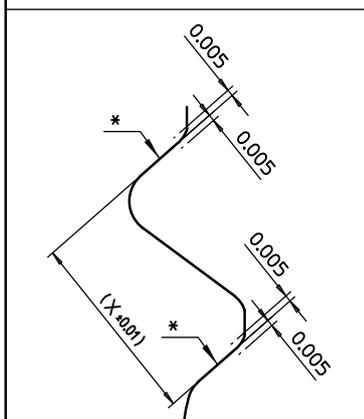
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max.:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 100-53-66 \phi 27 Z=7$	Work piece: STAINLESS	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Cutting edge: HW U-01/3	
Drawing no.: 410708/999978 COM	Edition: 2	Profile No: 1	Template no.:	HRc:	
			Weight: (kg)	Pa.	Body: 42CrMo4
TEL.+4597141411 FAX.+4597141486					

CONCEPT-DRAWING



* = 
(Element ± 0.005)

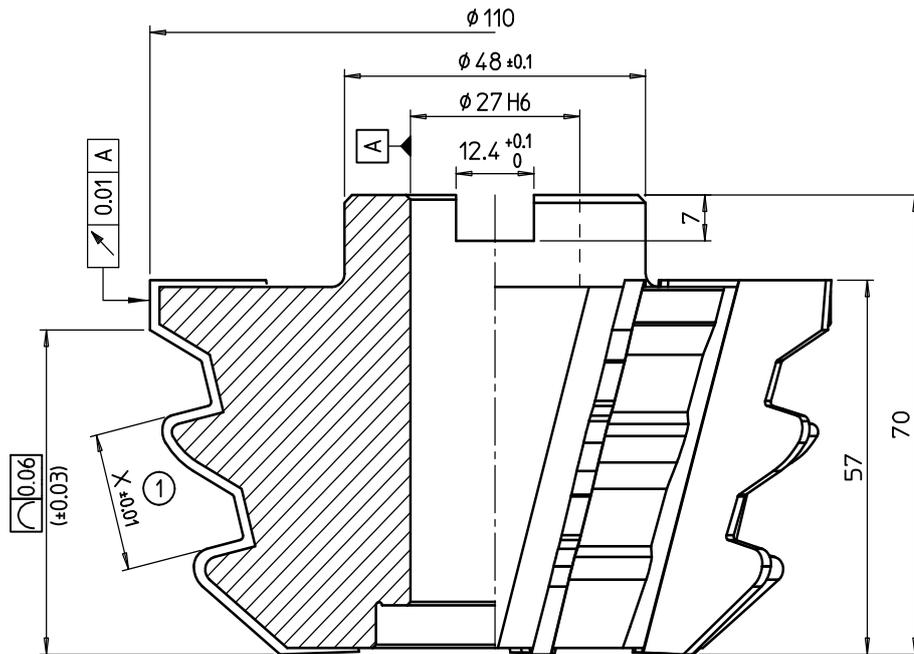


- Measuring Report (Profiling) (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08	
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim: $\phi 110-55-67 \phi 32 Z6$	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg)		Pa.
Drawing no: 410708/999977 COM	Edition: 2	Profile No: 1	Template no.:	HRc:		Scale: 1:1
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486		

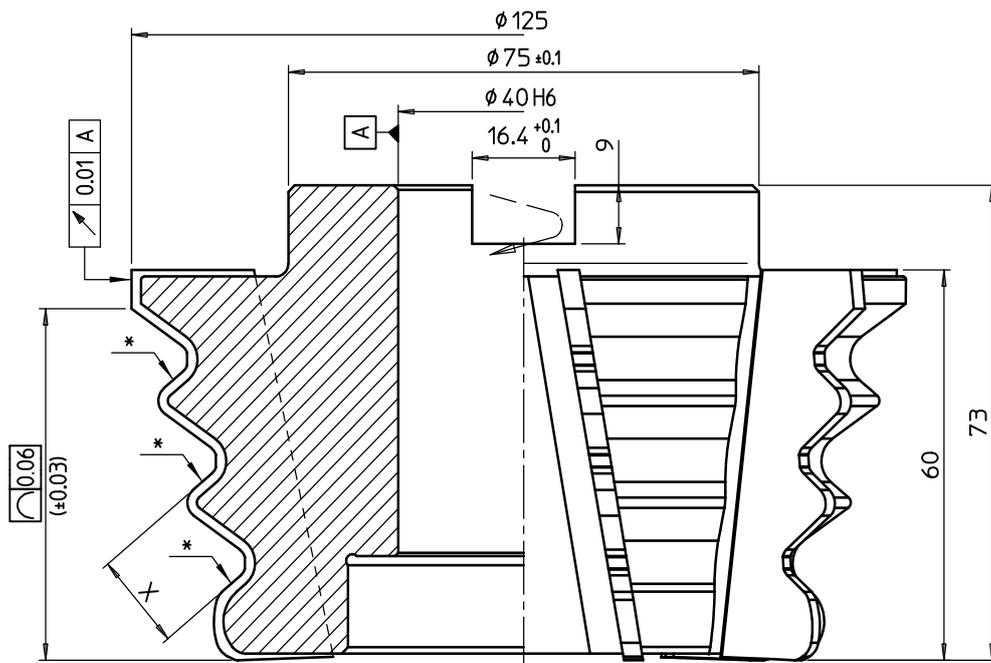
CONCEPT-DRAWING



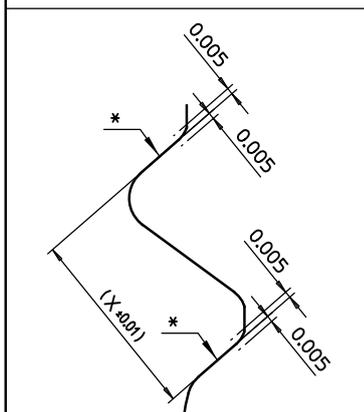
○ = Measuring Report

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08		
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø110-57-70 Ø27 Z=7	Work piece: STAINLESS				
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Cutting edge: HW U-01/3				
Drawing no.: 410708/999976 COM		Edition: 2	Profile No: 1	Template no.:	HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



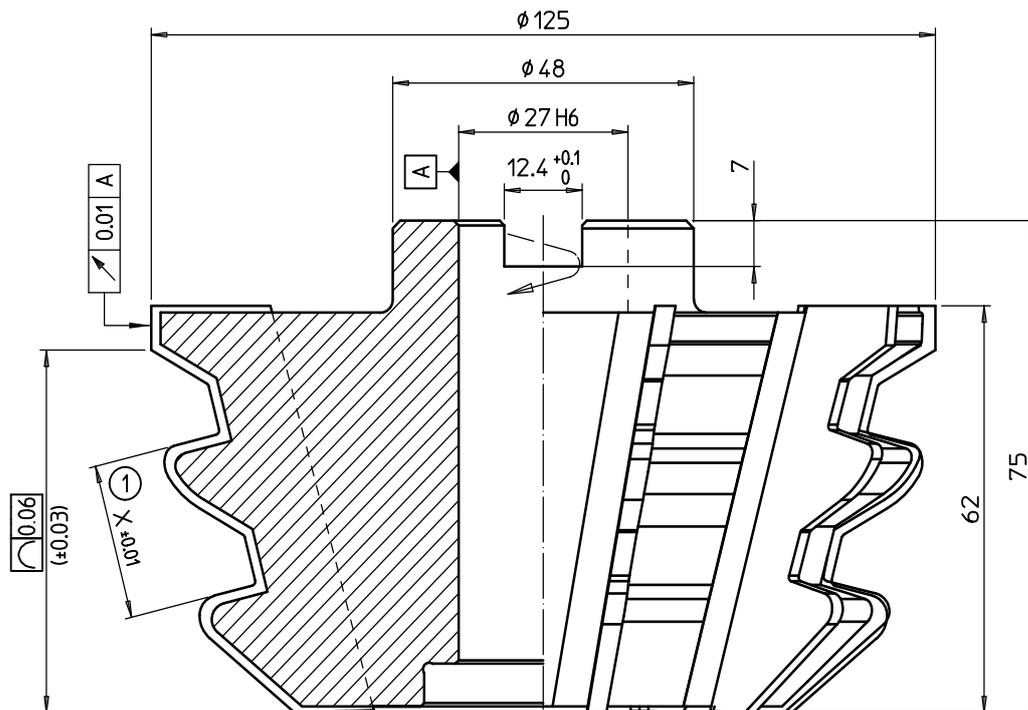
* = $\sqrt{0.01}$
(Element ± 0.005)



- Measuring Report (Profiling)

Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER			N-max:		Constructor: YUD 14.04.08		Last revised: KLJ 24.07.08	
Customer ref.: -		Customer No: 43000	Post code: 7451	Tool dim.: $\phi 125-60-73 \phi 40 Z=7$		Work piece: STAINLESS					
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5		Weight: (kg) Pa.	Cutting edge: HW U-01/3					
Drawing no.: 410708/999975 COM		Edition: 2	Profile No 1	Template no.: HRc:		Scale: 1:1	Body: 42CrMo4		TEL.+4597141411 FAX.+4597141486		

CONCEPT-DRAWING

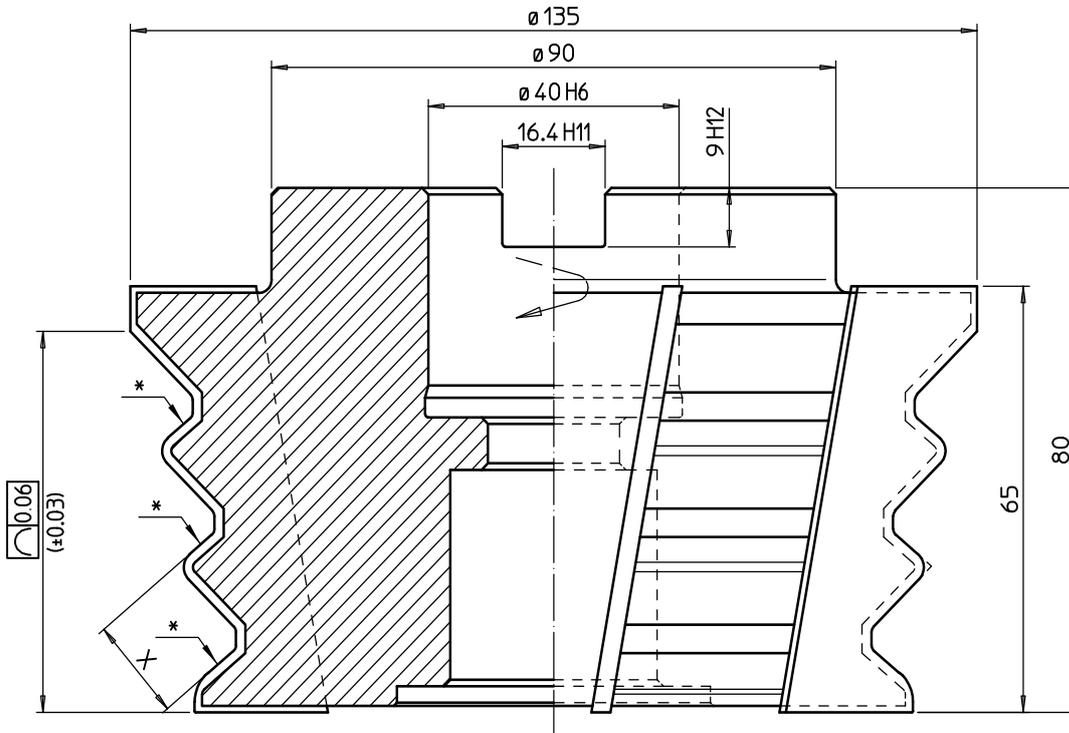


○ = Measuring Report

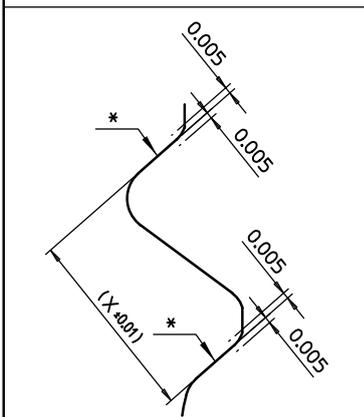
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Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 125-62-75 \phi 27 Z=8$		Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.	Cutting edge: HW U-01/3		
Drawing no.: 410708/999974 COM	Edition: 2	Profile No: 1	Template no.:	HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

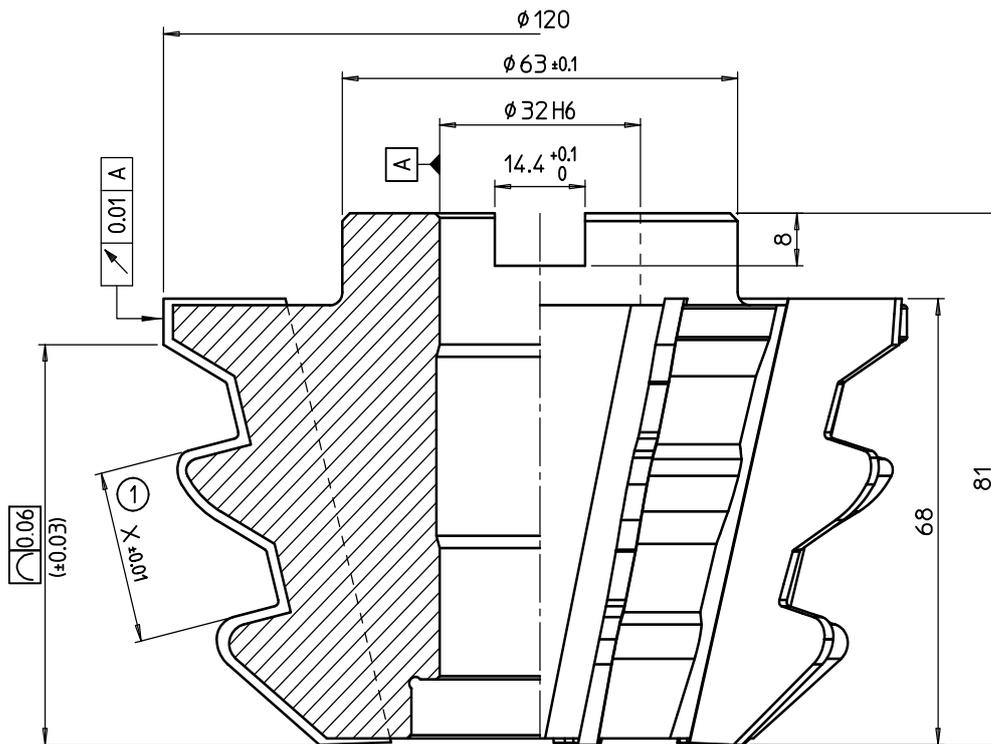


- Measuring Report (Profiling) (Profiling)

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Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER			N-max:		Constructor: YUD 14.04.08		Last revised: KLJ 24.07.08	
Customer ref.: -		Customer No: 43000		Post code: 7451		Tool dim: 135-65-80 40 Z=7		Work piece: STAINLESS			
UNIMERCO Ref. PETER KRISTOFFERSEN			Cooling: C5			Weight: (kg) Pa.		Cutting edge: HW U-01/3			
Drawing no: 410708/999973 COM		Edition: 2		Profile No 1		Template no: HRC:		Scale: 1:1		Body: 42CrMo4	
										TEL.+4597141411 FAX.+4597141486	

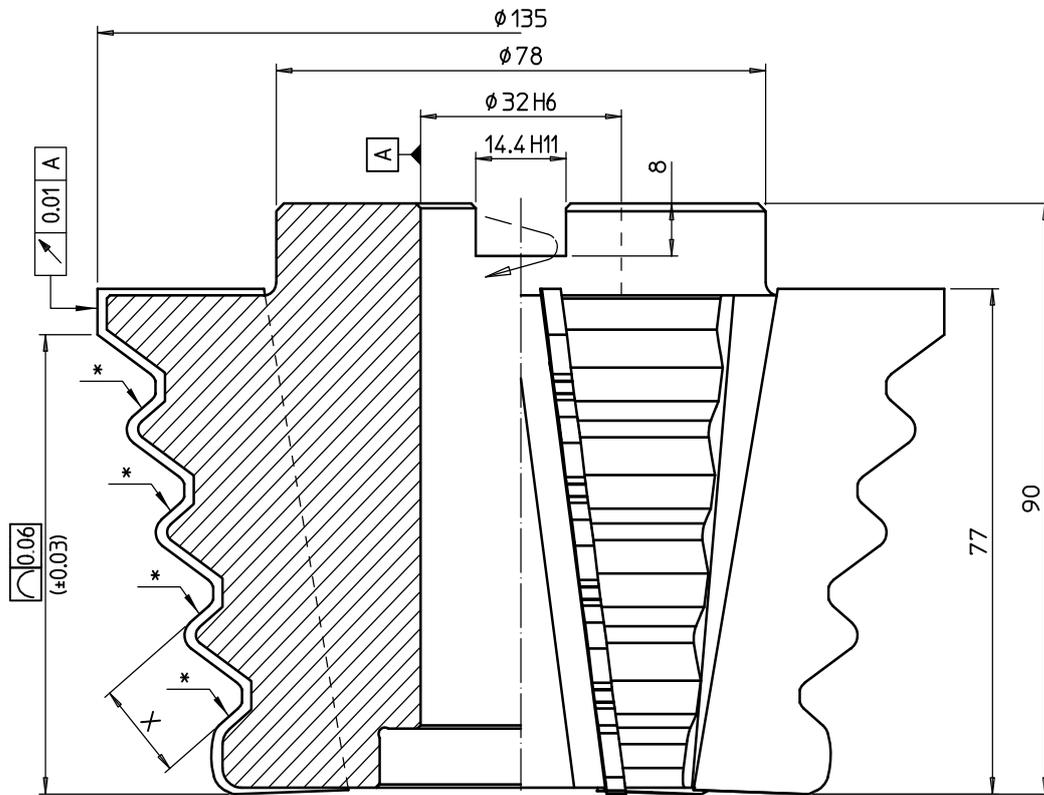
CONCEPT-DRAWING



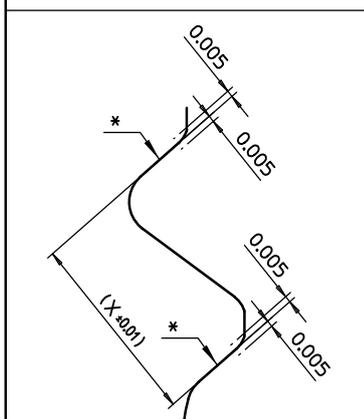
○ = Measuring Report

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08			
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\phi 120-68-81 \phi 32 Z=7$	Work piece: STAINLESS					
UNIMERCO Ref. PETER KRISTOFFERSEN			Cooling: C5	Weight: (kg) Pa.				Cutting edge: HW U-01/3	
Drawing no: 410708/999972 COM		Edition: 2	Profile No 1	Template no: -	HRc:	Scale: 1:1	Body: 42CrMo4		
								TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING



* = $\sqrt{0.01}$
(Element ± 0.005)

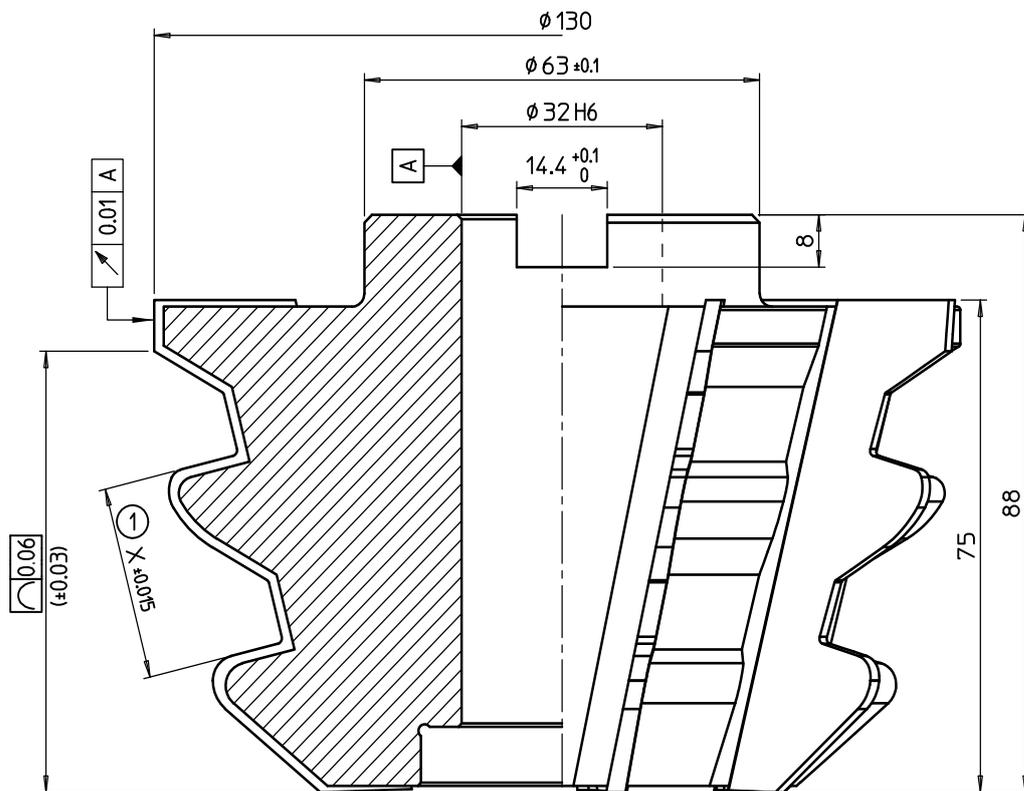


- Measuring Report (Profiling) (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 24.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø135-77-90 Ø32 Z6	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999971 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING

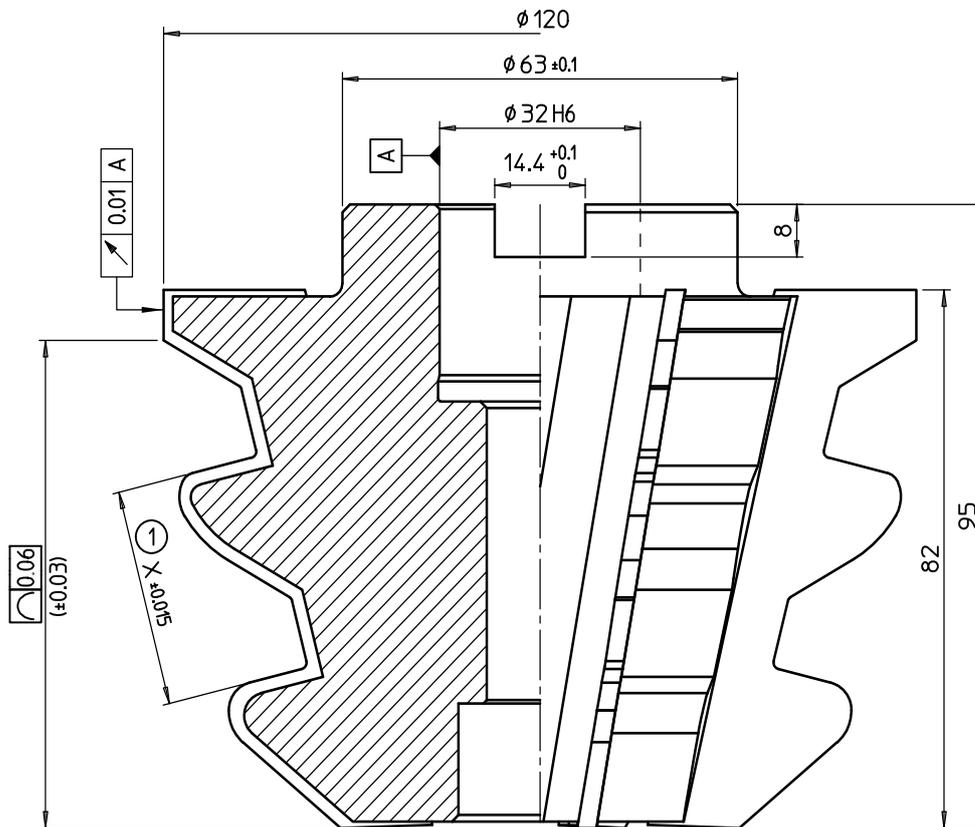


○ = Measuring Report

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 23.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø130-75-88 Ø32 Z=7	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999970 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING

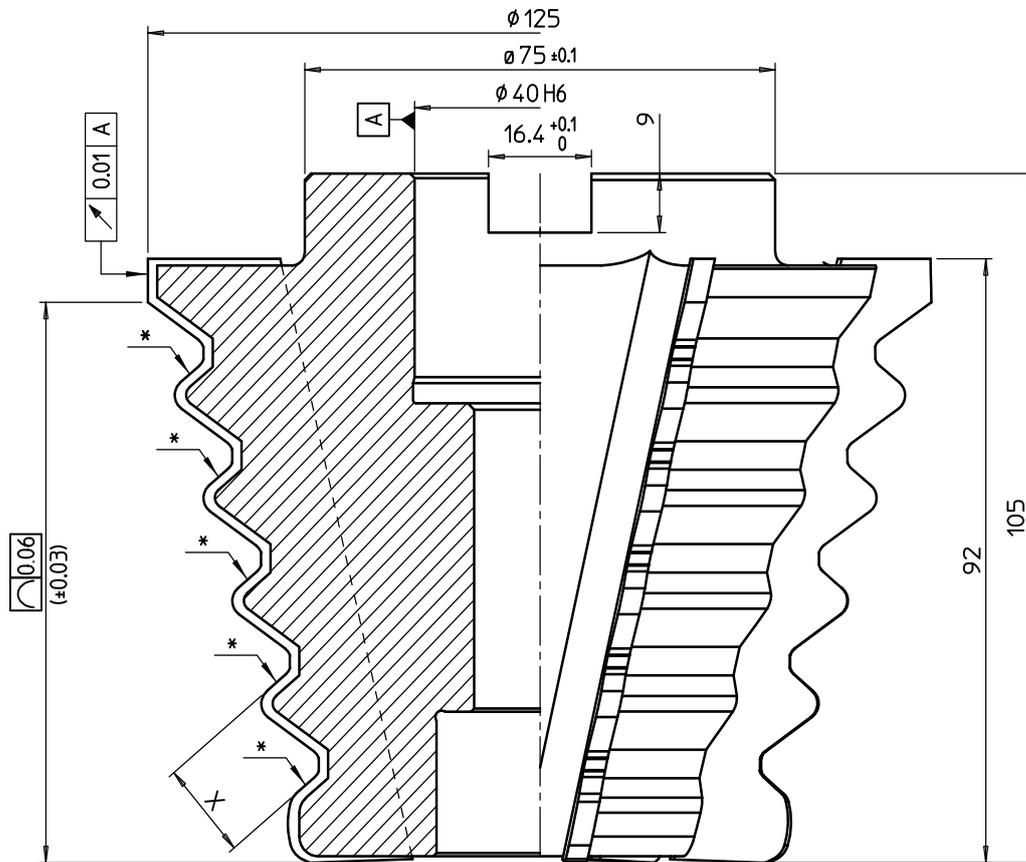


○ = Measuring Report

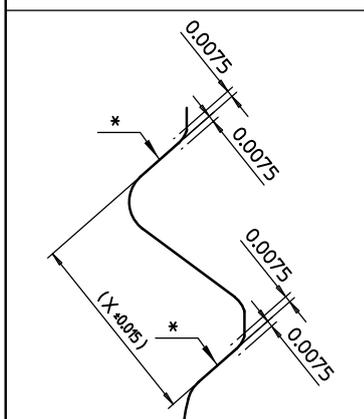
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 23.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: Ø120-82-95 Ø32 Z=5	Work piece: STAINLESS		
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.		
Drawing no.: 410708/999969 COM	Edition: 2	Profile No: 1	Template no.:	HRc:	Scale: 1:1	Body: 42CrMo4
						TEL.+4597141411 FAX.+4597141486

CONCEPT-DRAWING



* = $\sqrt{0.015}$
(Element ± 0.0075)

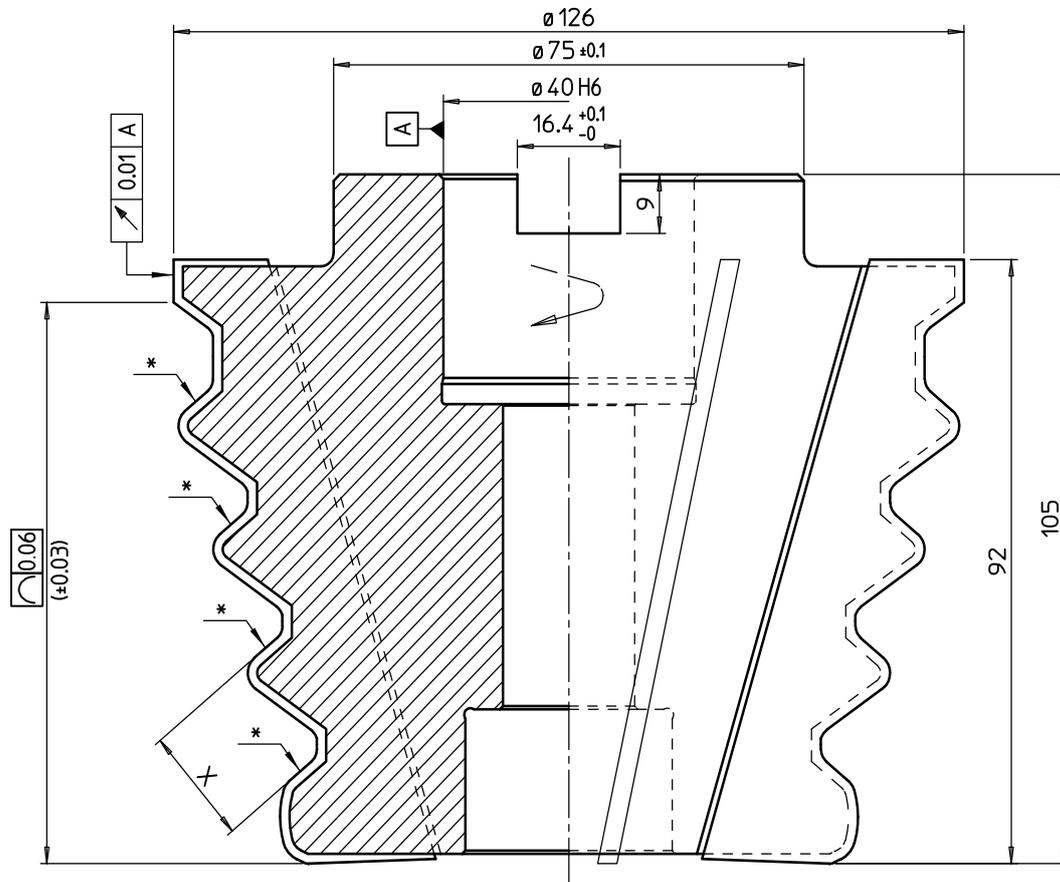


- Measuring Report (Profiling) (Profiling)

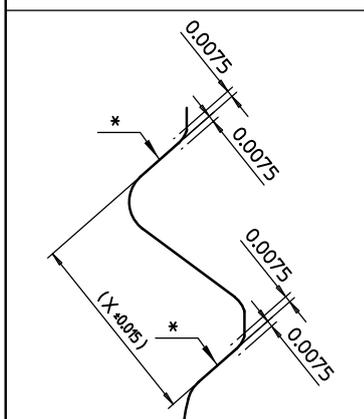
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Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 23.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\varnothing 125-92-105 \varnothing 40 Z5$	Coating: C5	Weight: (kg) Pa.	Work piece: STAINLESS	
UNIMERCO Ref. PETER KRISTOFFERSEN	Drawing no.: 410708/999968 COM	Edition: 2	Profile No: 1	Template no.:	HRc:	Scale: 1:1	
						TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING



* = $\sqrt{0.015}$
(Element ± 0.0075)

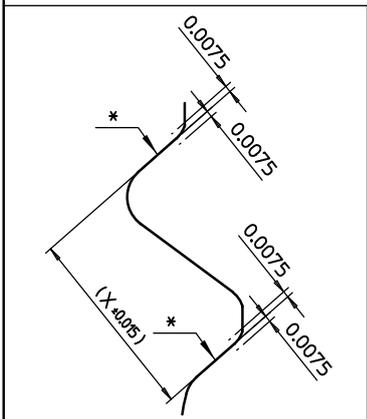
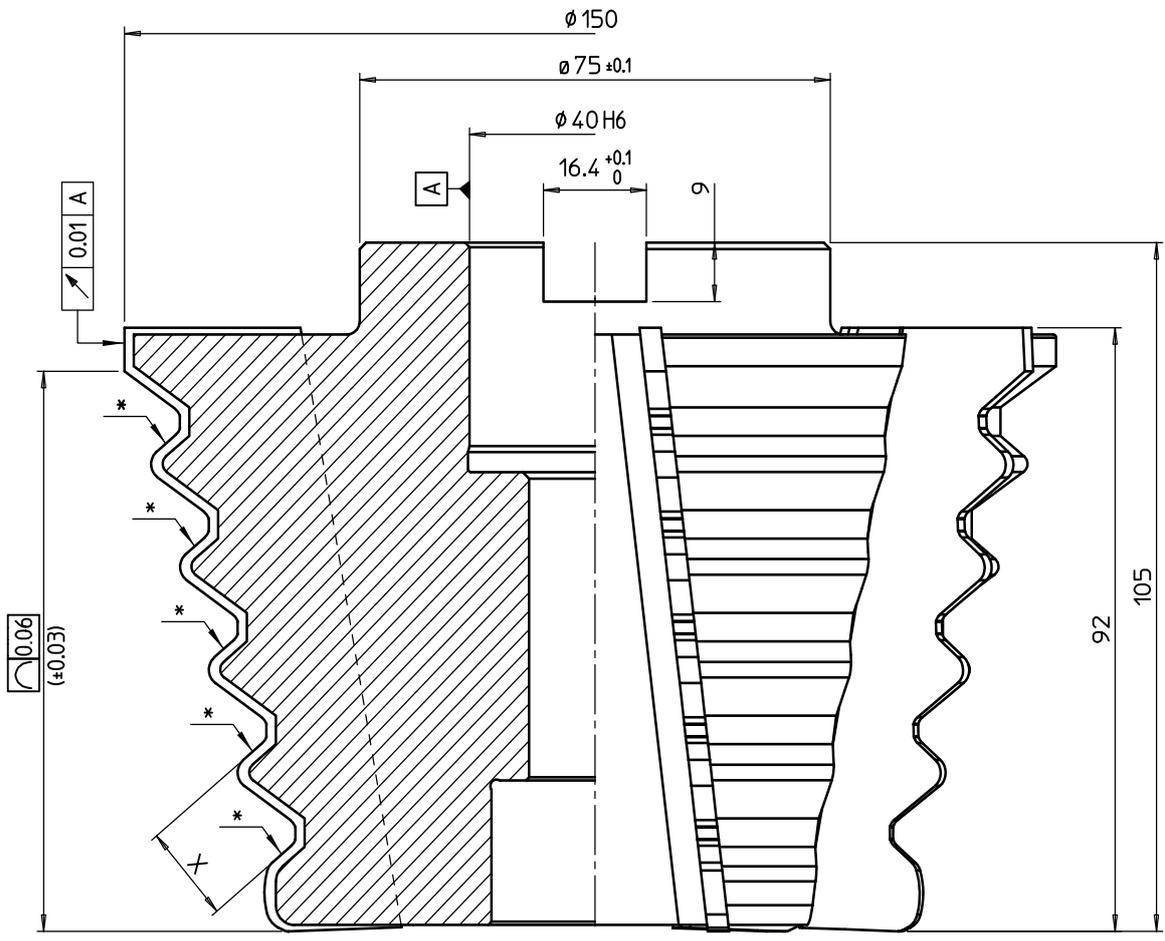


- Measuring Report (Profiling) (Profiling)

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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 23.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim.: $\varnothing 126-92-105 \varnothing 40 Z5$	Work piece: X22CrMoV112	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Weight: (kg) Pa.	
Drawing no.: 410708/999967 COM	Edition: 2	Profile No: 1	Template no.: HRc:	Scale: 1:1	
			Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486	

CONCEPT-DRAWING



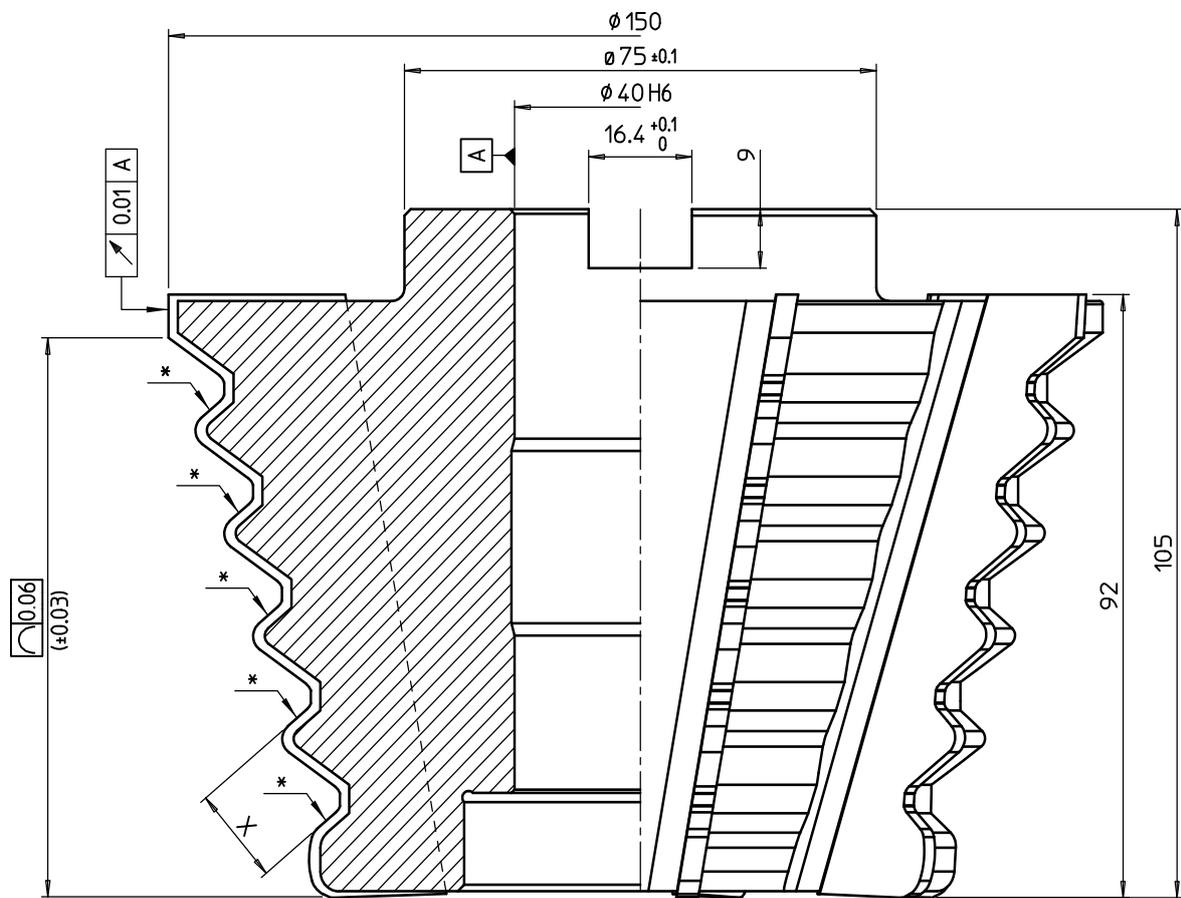
* = $\text{R}0.015$
(Element ± 0.0075)

- Measuring Report (Profiling) (Profiling)

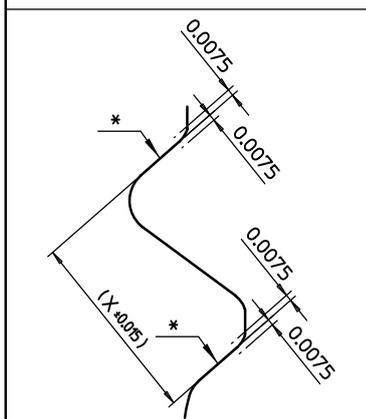
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Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER	N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 23.07.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim: 150-92-105 40 Z6	Work piece: STAINLESS	
UNIMERCO Ref. PETER KRISTOFFERSEN			Coating: C5	Cutting edge: HW U-01/3	
Drawing no: 410708/999966 COM	Edition: 2	Profile No: 1	Template no:	HRc:	
			Weight: (kg)	Body: 42CrMo4	TEL.+4597141411 FAX.+4597141486

CONCEPT - DRAWING



* = $\sqrt{0.015}$
(Element ±0.0075)

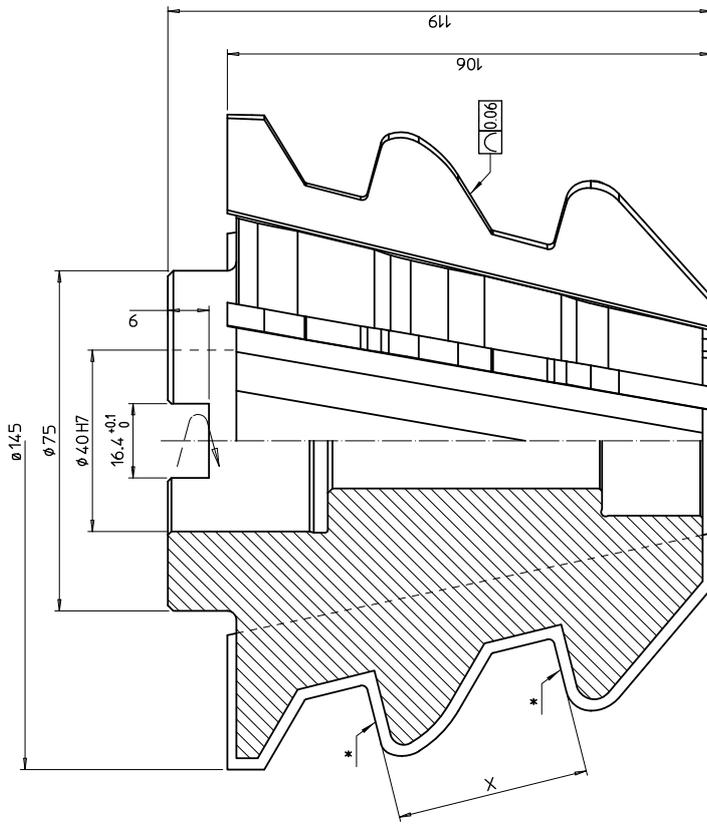


- Measuring Report (Profiling)

Customer: GROUP SALES - POWER GENERATION			Type of tool: PROFILE CUTTER		N-max:	Constructor: YUD 14.04.08	Last revised: KLJ 22.05.08
Customer ref.: -	Customer No: 43000	Post code: 7451	Tool dim: 150-92-105 40 Z7	Coating: C5	Weight: (kg) Pa.	Work piece: STAINLESS	
UNIMERCO Ref. PETER KRISTOFFERSEN	Drawing no.: 410708/999965 COM	Edition: 2	Profile No: 1	Template no.:	HRC:	Scale: 1:1	
					Tolerances, surfaces and geometries not indicated are in acc. with the UNIMERCO Norm.		TEL.+4597141411 FAX.+4597141486

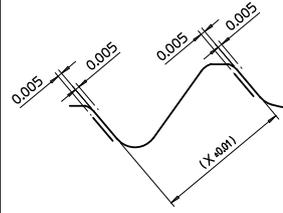
CUSTOMER DRAWING

CONCEPT-DRAWING



* Element Tolerance (±0.005)

Tool Tolerance	
Class	— = $\sqrt{0.006}$ (±0.003)
A	— = $\sqrt{0.001}$ (±0.0005)



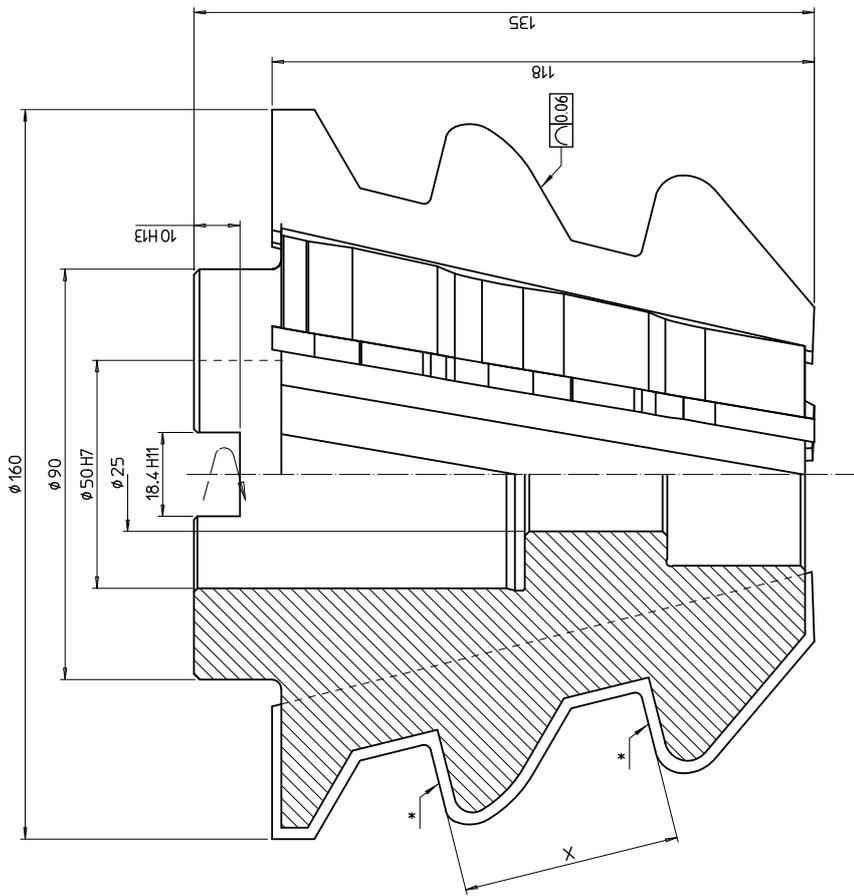
Customer: GROUP SALES - POWER GENERATION		Type of tool: PROFILE CUTTER		Series: 2000			
Customer ref: 43000		Tool dia: $\emptyset 145-106-119$ $\emptyset 40$ Z6		Work piece: STAINLESS		KYOCERA UNIMERCO Tooling, A/S Tlf: +45 97 14 11 - Fax: +45 97 14 14 86	
UNIMERCO Ref: Allan Siounstrup Petersen		Coating: C5		Cutting edge: HW U-01/5		Measuring Report - Form Tolerance	
Drawing no.: 410708/999964		HRC:		Body:		Profile Scan Report (360° Rotation)	
Edition: 1		Template no: PROFIL FRASER		Scale: 1:1		Last revised: BJJ 01.07.09	

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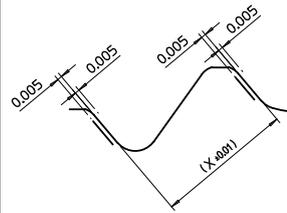
CUSTOMER DRAWING

CONCEPT-DRAWING



* Element Tolerance (+0.005)

Tool Tolerance	
Class	— = $\sqrt[0.005]{+0.03}$
A	≡ = $\sqrt[0.005]{+0.005}$



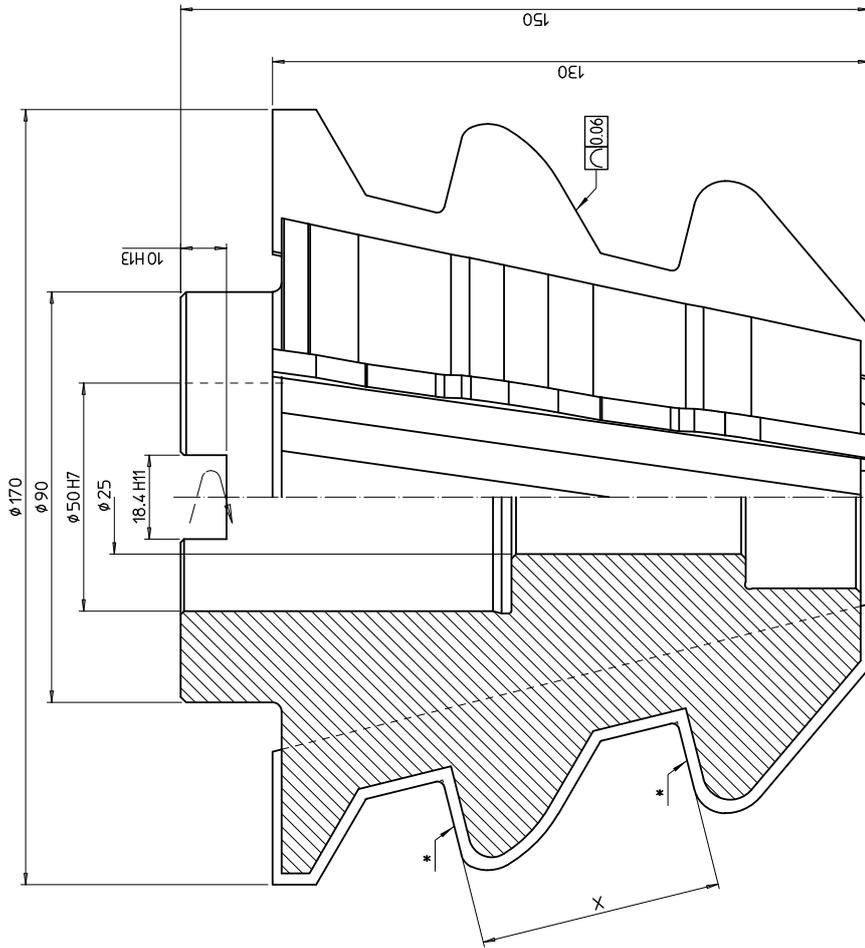
<p>This drawing is the property of KYOCERA UNIMERCO and must not be handed over, copied or used by any third party. Two- and three-dimensional reproductions are not allowed without prior consent of KYOCERA UNIMERCO.</p>		<p>Tolerances, surfaces and geometries not indicated are in acc. with the KYOCERA UNIMERCO Norm.</p>	
Customer:	GROUP SALES - POWER GENERATION	Year:	2000
Customer ref.:	43000	Work piece:	STAINLESS
UNIMERCO Ref.:	Allan Sjaunstrup Petersen	Cutting edge:	HW U-01/5
Drawing no.:	410708/999963	Pa.	1
		Weight (kg)	1
		Scale:	1:1
		Temp. no.:	
		PROFIL FRÄSER	
		Profile No.	
		Edition:	1
		Construction:	BJN 01.07.09
		Last revision:	
		<p>KYOCERA UNIMERCO TOOLING A/S III 45 97 14 11 - Fax 45 97 14 86</p>	

Measuring Report - Form Tolerance

Profile Scan Report (360° Rotation)

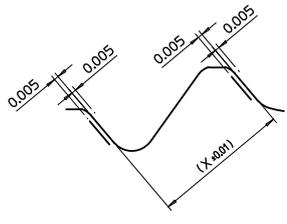
CUSTOMER DRAWING

CONCEPT-DRAWING



* Element Tolerance (+0.005)

Tool Tolerance	
Class	— = $\sqrt{0.005}$ (+0.003)
A	— = $\sqrt{0.01}$ (+0.005)



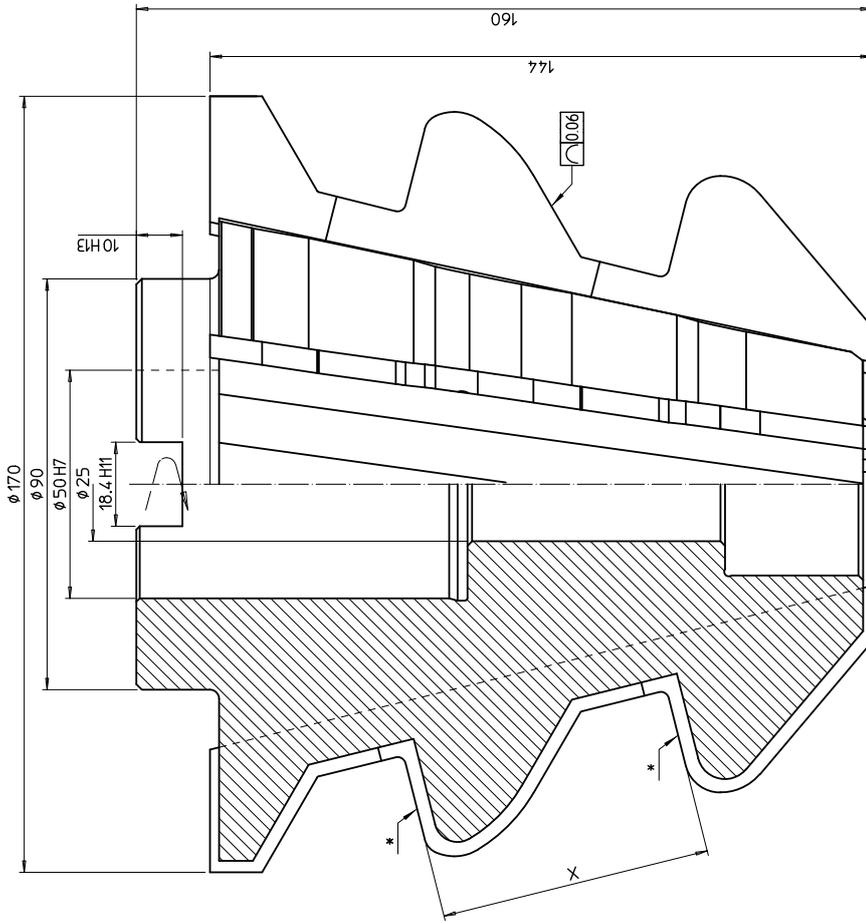
Customer ref.: GROUP SALES - POWER GENERATION		Customer No.: 43000		Profile No.: 1	
UNIMERCO Ref.: Allan Stainstrup Petersen		Edition: 1		Drawing no.: 410708/999962	
Drawing no.: 410708/999962		Edition: 1		Profile No.: 1	
Customer ref.: GROUP SALES - POWER GENERATION		Customer No.: 43000		Profile No.: 1	
UNIMERCO Ref.: Allan Stainstrup Petersen		Edition: 1		Drawing no.: 410708/999962	
Type of tool: PROFILE CUTTER		Tool dia.: $\phi 170-130-150 \phi 50 Z5$		Weight: 1kg	
N-no.: 2000		Mark piece: STAINLESS		Pa.:	
Constructor: BUN 01.07.09		Cutting edge: HW U-01/5		Scale: 1:1	
Last revised:		Body:		HRC:	
Tolerances, surfaces and geometries not indicated are in acc. with the KYOCERA UNIMERCO Norm.		KYOCERA UNIMERCO Tooling A/S		Tl: +45 97 14 14 11 - Fax: +45 97 14 86	



Measuring Report - Form Tolerance Profile Scan Report (360° Rotation)

CUSTOMER DRAWING

CONCEPT-DRAWING



* Element Tolerance (±0.005)

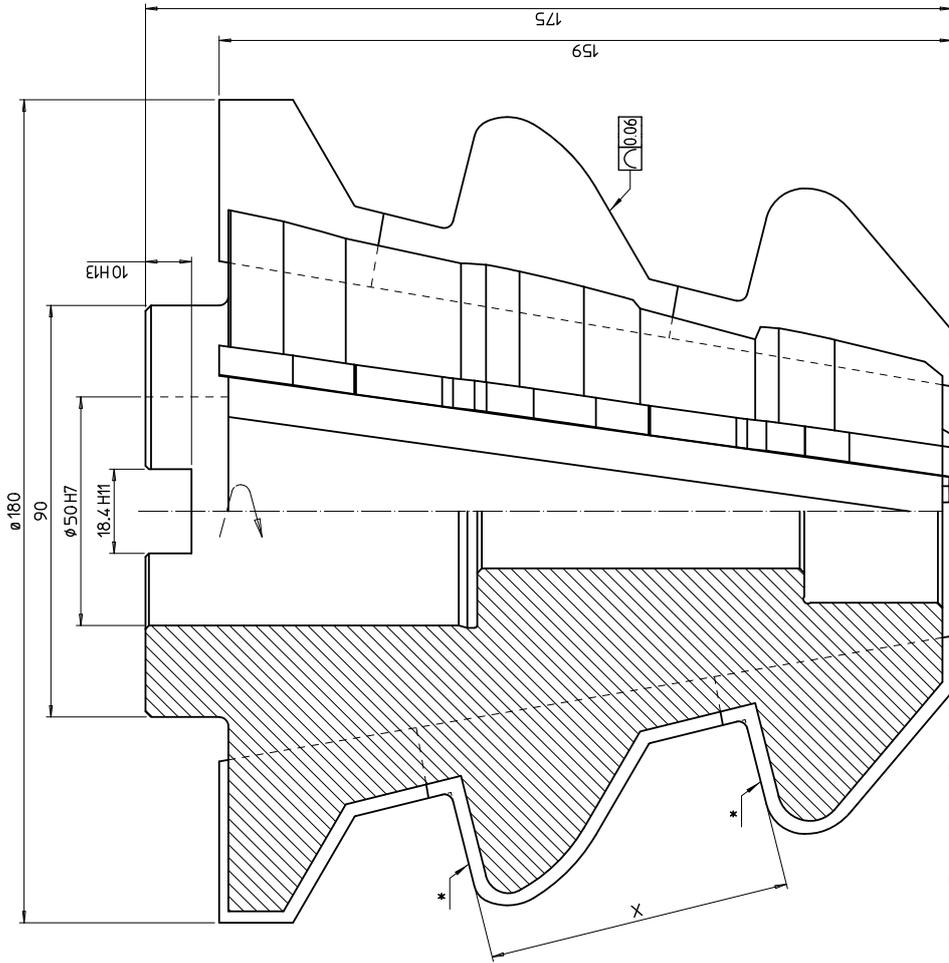
Tool Tolerance	
Class	— = $\sqrt[0.005]{\pm 0.03}$
A	— = $\sqrt[0.005]{\pm 0.005}$

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Customer ref.: GROUP SALES - POWER GENERATION	Customer No.: 43000	Part code: PROFILE CUTTER	Number: 2000
UNIMERCO Ref.: Allan Strainstrup Petersen	Customer No.: 43000	Tool dim.: Ø170-139-160 Ø50 Z5	Work piece: STAINLESS
Drawing no.: 410708/999961	Customer No.: 43000	Coating: —	Cutting edge: HW U-01/5
Ed.: 1	Profile No.: —	Weight: kg: —	Body: —
		HRC: —	Scale: 1:1
			Temp. no.: —
			Contractor: BJN 0107.09
			Last revised: —

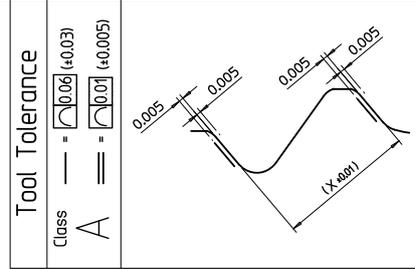


CUSTOMER DRAWING

CONCEPT-DRAWING



* Element Tolerance (±0.005)



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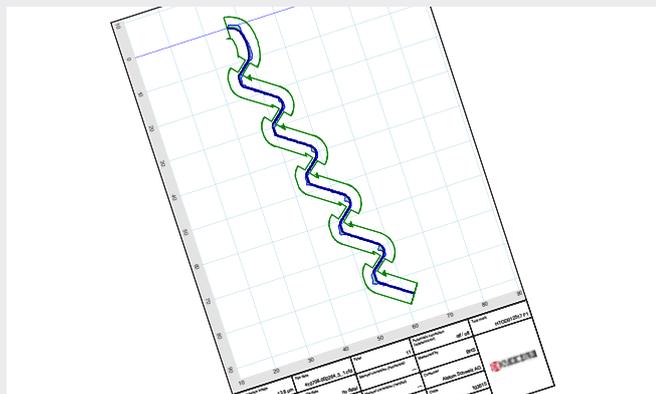
Customer ref.: UNIMERCO Ref. Ailton Staunstrup Petersen	Customer No.: 43000	Post code: —	Year of issue: 2000	Revision: BIN 01.07.09	Last revised: —
Drawing no.: 410708/999960	Editions: 1	Profile No. —	Type of tool: PROFILE CUTTER	Material: 2000	Work piece: STAINLESS
			Tool dia.: Ø180-159-175 Ø50 Z5	Weight: kg: —	Cutting edge: HW U-0116
			Coating: —	HRC: —	Body: —
			Template no.: —	Scale: 1:1	



Measuring Report - Form Tolerance Profile Scan Report (360° Rotation)

Total quality – YOUR GUARANTEE FOR CONTINUOUS PERFORMANCE

Specification system and service concept



Measuring report

Turbine blade root forms require extremely accurate machining. In order to add additional value to your manufacturing process, each single profile tool is supplied with a measuring report documenting compliance with the specific profile tolerance. This documentation is also produced each time we return your cutter after RE•NEW®.



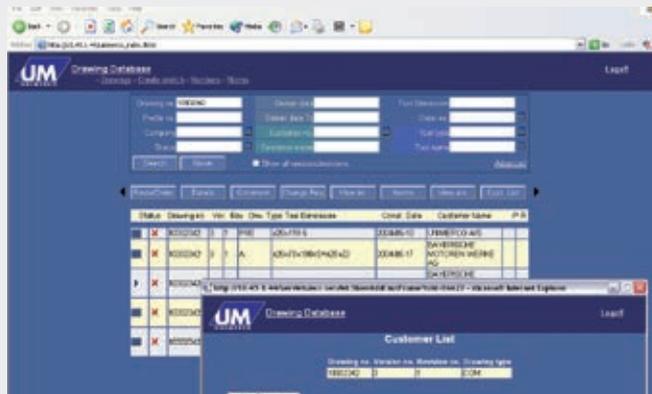
Packaging solutions

Profile cutters for turbine blade root forms are high-performance tools manufactured to extremely tight tolerances. In order to retain this μm accuracy throughout the tool life time, each cutter is safely stored in a dedicated box. This gives maximum protection to the tool during transportation and storage.



RE•NEW® concept

All tools are reground and re-coated utilising the same advanced technology as for the manufacture of the tools. And we regrind your tools with the same care that we use to manufacture new tools. We also RE•NEW® other tool brands with very good results. You will benefit from tool performances on reground tools which can match or even surpass the performance of new tools.



100% repeatability

Due to a unique internally developed norm system and a very advanced drawing database, we are able to deliver tools with the exact same geometries throughout all future deliveries, regardless in which Kyocera Unimerco manufacturing facility your tools are being produced.

Corporate Motto: "Respect the Divine and Love People"

敬天愛人

Preserve the spirit to work fairly and honorably,
respecting people, our work, our company
and our global community.

THE NEW VALUE FRONTIER



"The New Value Frontier" reflects Kyocera's commitment to continuously creating new value at the cutting edge of technology. The global Kyocera Group develops unique technologies and applies its vision to create valuable products that the markets continually seek.

Industrial tooling solutions

Kyocera Unimerco is a global manufacturer and distributor, providing standard and customised cutting tool solutions as well as know-how and optimisation guidance for the manufacturing industry.

The company was founded in 1964 and has since expanded into 17 countries, with more than 700 employees.

Today the company is part of the Japan-based Kyocera Corporation.



www.kyocera-unimerco.com