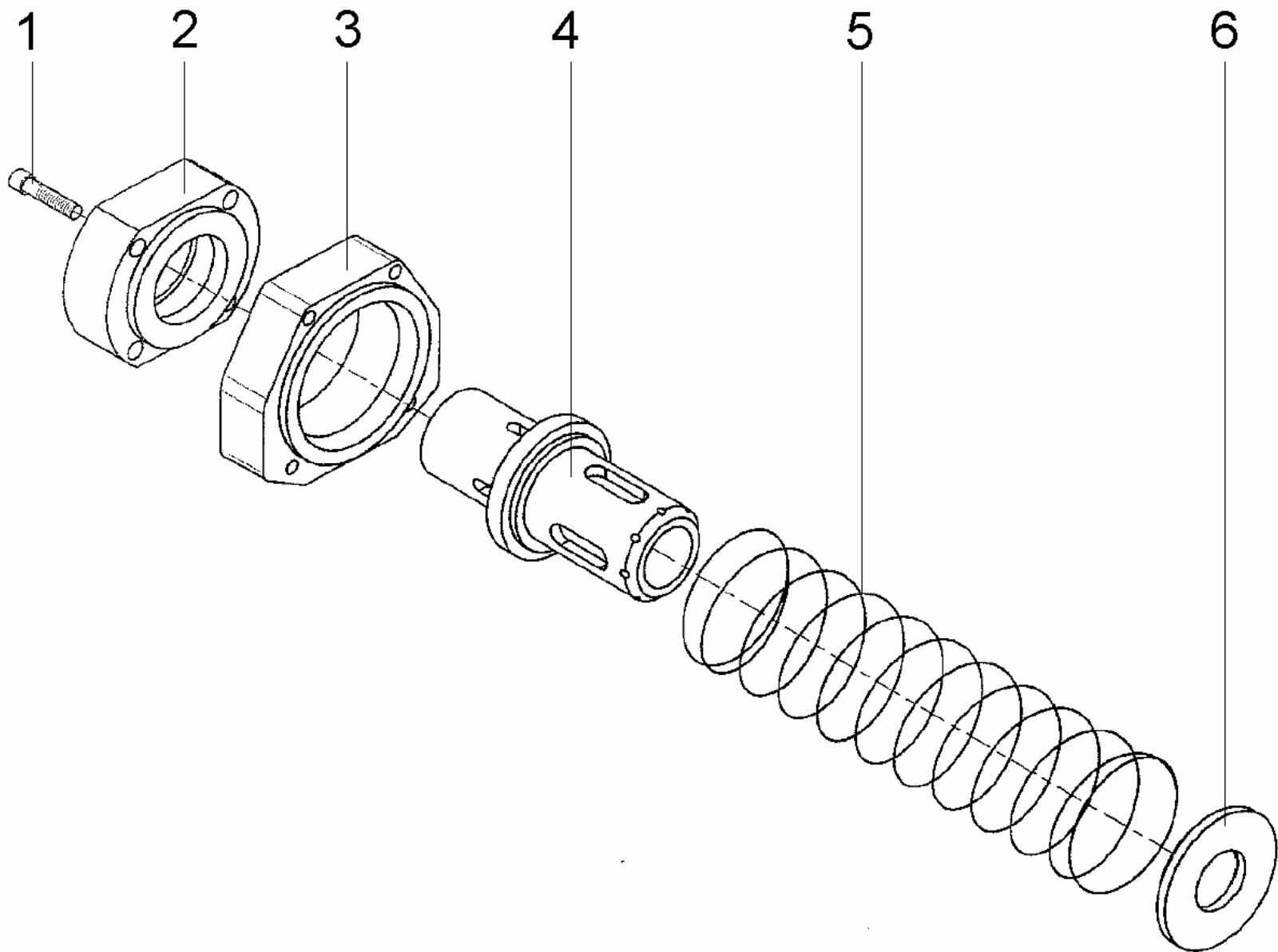


Hartmann & Bender – Spare Parts – Selection Manual 5 1/2"“

Page	Description	IS Part No.	H&B Ident No.
2	NNPB Plunger Positioners max. finish 38 mm	62-404	0762-404
3	Plunger Positioners up to 70 mm / up to 83 mm	62-402	0762-402
4	Plunger Positioners up to 90 mm	62-402	0762-402
5	Quick Change Cartridges Blow & Blow	62-186	0762-186
6	Quick Change Cartridges Blow & Blow	62-3036	0762-3036
7	Baffle Arms	23-253	0723-253
8	Funnel Arms	23-41	0723-41
9	Blank Mould Holder No.1 Blow Mould Holder No.1	23-171 23-170	0723-171 0723-170
10	Blank Mould Holder No2 Blow Mould Holder No.2	23-1013 23-1017	0723-1013 0723-1017
11	Assemblies 1 & 11		Assy. 1 & 11
12	Assemblies 2 & 12		Assy. 2 & 12
13	Assemblies 21 & 51		Assy. 21 & 51
14	Assemblies 22 & 52		Assy. 22 & 52
15	Assemblies 23 & 53		Assy. 23 & 53
16	Assemblies 24 & 54		Assy. 24 & 54
17	Assemblies 61 & 64		Assy. 61 & 64
18	Assembly 62		Assy. 62
19	Assembly 63		Assy. 63
20	Assembly 65		Assy. 65
21	Assembly 66		Assy. 66
22	Assemblies 67 & 68		Assy. 67 & 68
23	Assemblies 69 & 70		Assy. 69 & 70
24	Blank Mould Holder Verti Flow Cooling	23-171 Gr.5	0723-171-5
25	Mould Holder Insert Verti Flow Cooling	191-9189	0791-9189
26	Verti Flow Cooling Single Deck – Assembly Drawing, , Spare Parts List		
27	Verti Flow Cooling Double Deck – Assembly Drawing		
28	Verti Flow Cooling Plenum Chamber Assembly	191-9152	0791-9152
29	Verti Flow Cooling Upper Air Tube Assembly Verti Flow Cooling Adjusting Pin Assembly	191-9148 191-9158	0791-9148 0791-9158
30	Neck Ring Holders 70 mm DIA., straight Neck Ring Holders 70 mm DIA., offset	23-1404 Gr.1 23-1407 Gr.1	0723-1404-1 0723-1407-1
31	Lightweight Blow Head Arm	23-45 Gr.9	0723-45-9
32	Blow Head Arm Hinge Type		H&B-83550
33	Blow Head Arm for direct connecting of flexible hoses at lockrings		H&B-550-001
34	Take Out Tong Arms Belt Drive for Standard Take Out Tong Mech. Take Out Tong Arms Belt Drive for Bottero Servo Take Out Tong Mech		Type 72-06 Type 72-07
35	Take Out Tong Arms Type 72-06 – Spare Parts List		Type 72-06
36	Take Out Tong Arms Type 72-07 – Spare Parts List		Type 72-07
37	Q.C. Take Out Tong Head Assemblies DG Q.C. Take Out Tong Head Assemblies DG “ Anti Wink “	191-9125 210-275	0791-9125 7210-275
38	Take Out Tong Holder	191-8319	0791-8319
39	Technical Bulletin for Take Out Tong Holder	191-8319	0791-8319
40	Take Out Tong Holder “ Anti Wink “	191-9535	0791-9535
41	Q.C. Take Out Tong Head Assemblies for finish cooling		0791-9125-NBV
42	Mounting Parts Q.C. Baffle	210-194	07210-194
43	Q.C. Baffle Arms	23-1435	0723-1435
44	Mounting Parts Q.C. Funnel	23-1429	0723-1429
45	Q.C. Funnel Arms	23-1429	0723-1429
46	Mounting Parts Q.C. Blow Head	210-178	7210-178
47	Q.C. Blow Head Arms DG	200-202	7200-202
48	SG 5 1/2" Inserts for DG Moulds Operation Assy. 21,51,22		SG-Assy.21,51,22
49	SG 5 1/2" Inserts for DG Moulds Operation Assy. 52,23,53		SG-Assy. 52,23,53
50	SG 5 1/2" Inserts for DG Moulds Operation Assy. 24,54		SG-Assy. 24,54
51	SG 5 1/2" Inserts for DG Moulds Operation Assy. 65		SG-Assy. 65
52	SG 5 1/2" Inserts for DG Moulds Operation Assy. 66		SG-Assy. 66
53	SG 5 1/2" Inserts for DG Moulds Operation Assy. 67		SG-Assy. 67
54	SG 5 1/2" Inserts for DG Moulds Operation Assy. 67		SG-Assy. 68
55	Q.C. Take Out Tong Head Assemblies SG Q.C. Take Out Tong Head Assemblies SG “ Anti Wink “	191-9125 210-275	0791-9125 7210-275

NNPB Plunger Positioner max. finish 38 mm

Description	IS-Part No.	H&B-Order No.
Plunger Positioner	62-404 Gr.5	0762-404-5
Plunger Positioner	62-404 Gr.9	0762-404-9



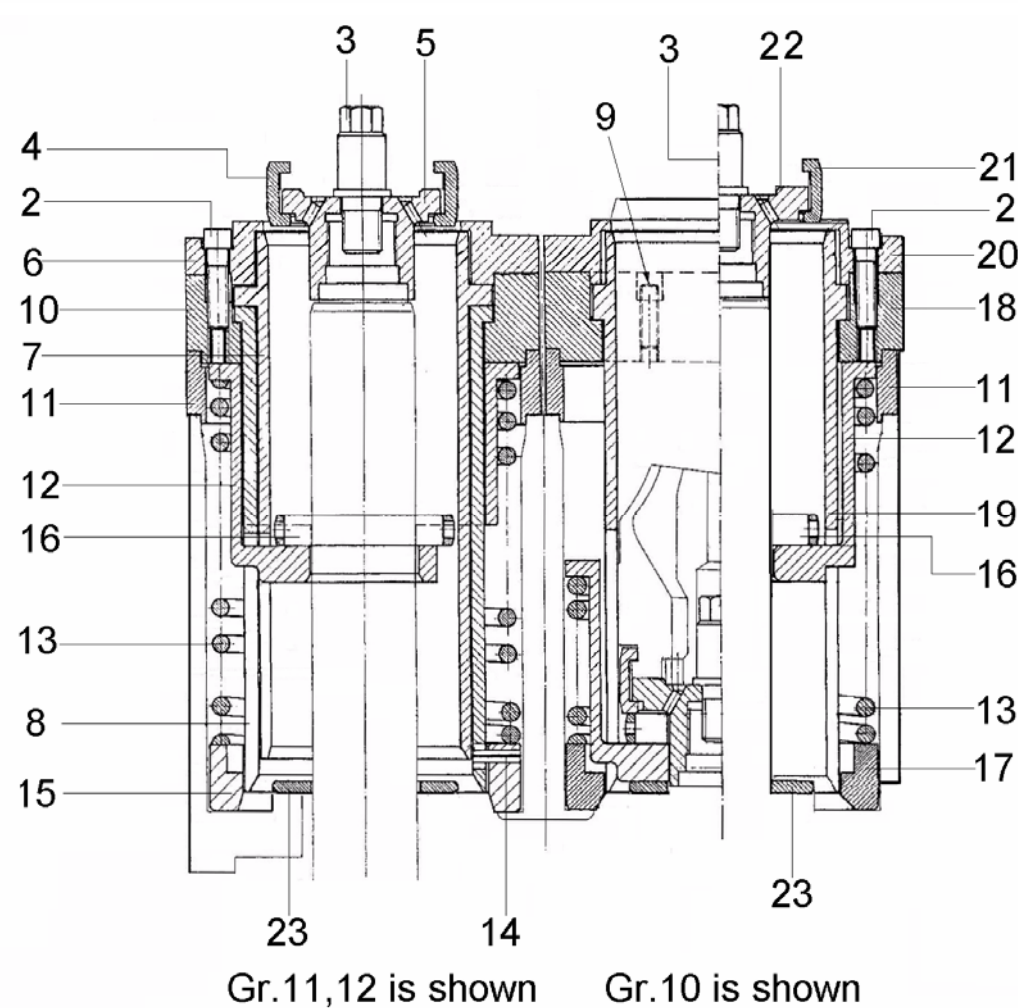
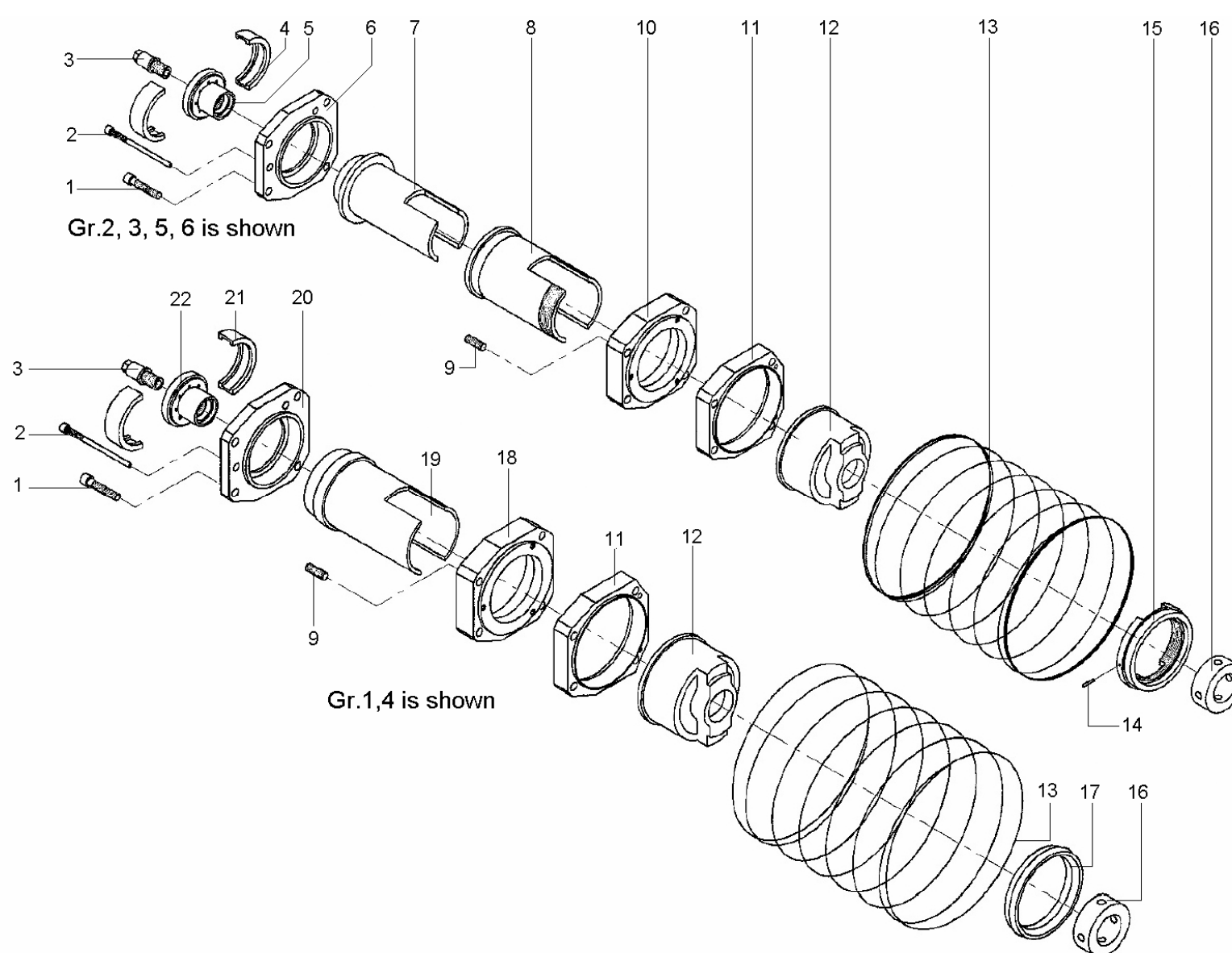
0762-404-5
Parts for one Positioner with Centering Bushing for DG 5 1/2", DG 6 1/4"
Q.C.Plunger Mechanism

0762-404-9
Parts for one Positioner with 35 mm kick back for DG 5 1/2", DG 6 1/4"
Q.C.Plunger Mechanism

x		2	Hex.Soc.Hd.Cp.Screw	2640-1560	DIN-912-M6 X 10		not illustrated
x	x	1	Washer, protecting	62-2985	0762-2985	6	
x	x	1	Compression Spring	62-1377	0762-1377	5	
x		1	Sleeve, centering	62-6726	0762-6726	4	not illustrated
	x	1	Centering Bushing	62-2633	0762-2633	4	
x	x	1	Spacer	62-2954	0762-2954	3	
x		1	Ring, sleeve guiding	62-6727	0762-6727	2	not illustrated
	x	1	Cover	62-2634	0762-2634	2	
x		4	Hex..Hd.Cp.Screw	2660-530	DIN-931-3/8 UNC x 2 1/4	1	not illustrated
	x	4	Hex. Soc.Hd.Cp.Screw	2640-590	DIN-912-3/8 UNC x 1 3/4	1	
Gr.9	Gr.5	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		NNPB Plunger Positioner
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.:
		Zust.	Änderung	Datum	Name		

Floating Plunger Positioner

Description	IS-Part No.	H&B-Order No.
Floating Plunger Positioner finish up to 90 mm for use with 5 1/2" Plunger Mech. 62-200	62-402 Gr.1	0762-402-1
Floating Plunger Positioner finish up to 83 mm for use with 5 1/2" Plunger Mech. 62-200	62-402 Gr.2	0762-402-2
Floating Plunger Positioner finish up to 70 mm for use with 5 1/2" Plunger Mech. 62-200	62-402 Gr.3	0762-402-3
Floating Plunger Positioner finish up to 90 mm for use with 5 1/2" , 6 1/4" Q.C. Plunger Mech.	62-402 Gr.4	0762-402-4
Floating Plunger Positioner finish up to 83 mm for use with 5 1/2" , 6 1/4" Q.C. Plunger Mech.	62-402 Gr.5	0762-402-5
Floating Plunger Positioner finish up to 70 mm for use with 5 1/2" , 6 1/4" Q.C. Plunger Mech.	62-402 Gr.6	0762-402-6
Floating Plg. Positioner finish up to 90 mm for use w. 5 1/2" , 6 1/4" Q.C. Plg. Mech. 7 1/2" Stroke	62-402 Gr.10	0762-402-10
Floating Plg. Positioner finish up to 83 mm for use w. 5 1/2" , 6 1/4" Q.C. Plg. Mech. 7 1/2" Stroke	62-402 Gr.11	0762-402-11
Floating Plg. Positioner finish up to 70 mm for use w. 5 1/2" , 6 1/4" Q.C. Plg. Mech. 7 1/2" Stroke	62-402 Gr.12	0762-402-12

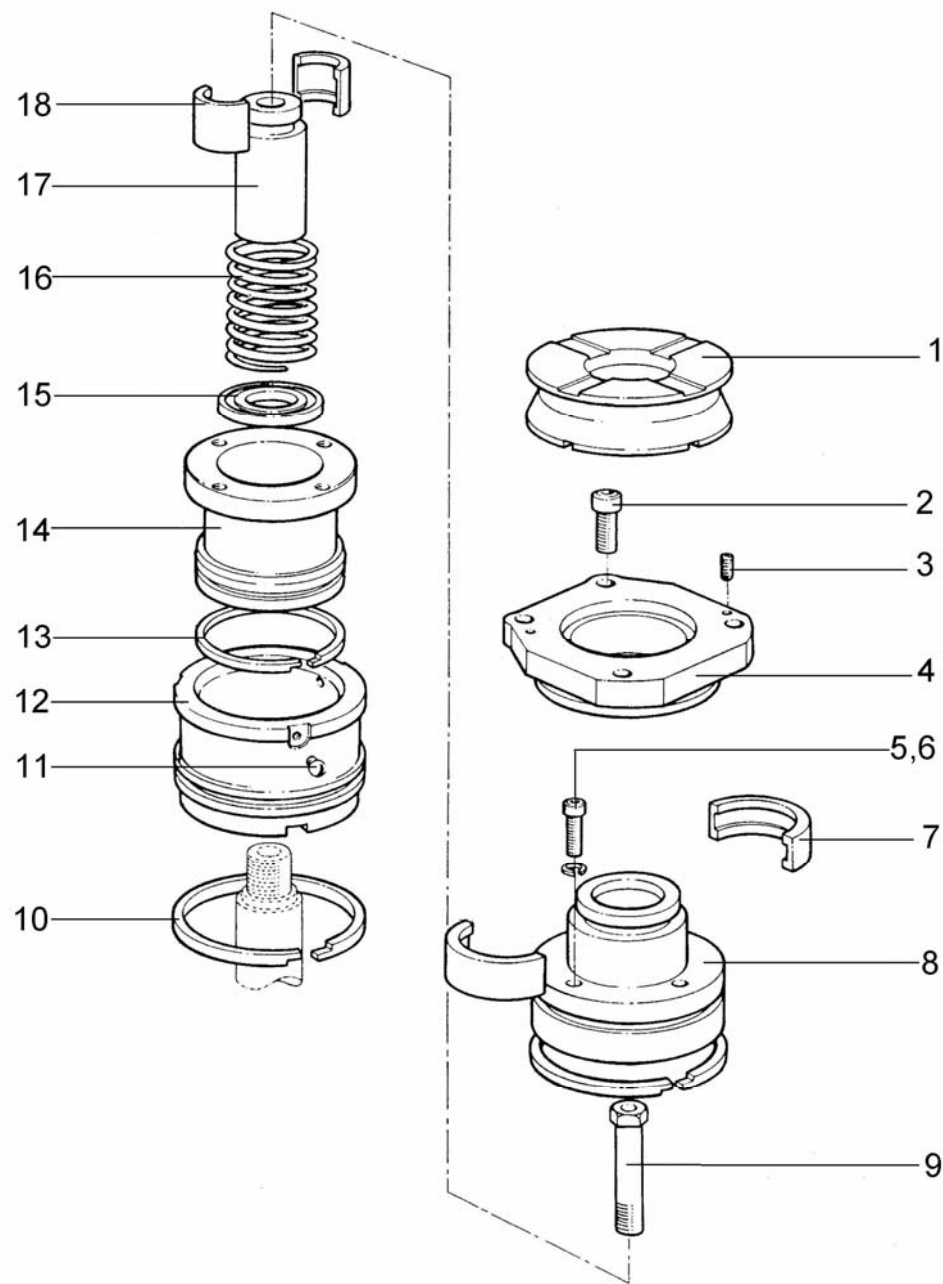


x	x					1	Washer, protecting	62-6528	0762-6528	23	
x						1	Spacer	62-2564	0762-2564	16	
	x					1	Spacer	62-2574	0762-2574	16	
		x	x			1	Spacer	62-2968	0762-2968	16	
x	x					1	Spring Retainer	62-6531	62-6531	15	
		x	x	x	x	1	Spring Retainer	62-1554	0762-1554	15	
x	x					4	Straight Pin	2100-1027	DIN-1481-5 x 20	14	
		x	x	x	x	1	Straight Pin	2100-1014	DIN-1481-3 x 20	14	
		x	x	x	x	1	Compression Spring	62-1532	0762-1532	13	
x	x	x	x	x	x	1	Sleeve	62-1534	0762-1534	12	
x	x	x	x			1	Spacer	62-2012	0762-2012	11	
x	x	x	x	x	x	1	Distance Ring	62-2537	0762-2537	10	
x	x	x	x	x	x	2	Soc.Set Screw	2640-1388	DIN-913-1/4“UNC x 1“	9	
x	x					1	Bushing	62-6524	0762-6524	8	
		x	x	x	x	1	Bushing	62-2536	0762-2536	8	
x						1	Bushing 2 1/2"	62-6525	0762-6525	7	
		x		x		1	Bushing 2 1/2"	62-2535	0762-2535	7	
	x					1	Bushing 3“	62-6526	0762-6526	7	
			x		x	1	Bushing 3“	62-2540	0762-2540	7	
x						1	Cap 70 mm	62-6068	0762-6068	6	
		x		x		1	Cap 70 mm	62-2534	0762-2534	6	
	x					1	Cap 83 mm	62-6067	0762-6067	6	
			x		x	1	Cap 83 mm	62-2541	0762-2541	6	
x		x		x		1	Plunger Adapter	62-2528	0762-2528	5	
	x		x		x	1	Plunger Adapter	62-2530	0762-2530	5	
x		x		x		1	Split Ring	62-2527	0762-2527	4	
	x		x		x	1	Split Ring	62-2529	0762-2529	4	
x	x	x	x	x	x	1	Locking Stud	62-1872	0762-1872	3	
x	x	x	x	x	x	3	Stop Screw	62-659	0762-659	2	
x	x					4	Hx.Hd.Cap Screw	2660-600	DIN-931-3/8-NC x 3 1/4	1	
		x	x			4	Hx.Soc.Hd.Cap Screw	2640-645	DIN-912-3/8-NC x 2“	1	
				x	x	4	Hx.Soc.Hd.Cap Screw	2640-610	DIN-912-3/8-NC x 2“	1	
Gr.12	Gr.11	Gr.6	Gr.5	Gr.3	Gr.2	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
									Datum	Name	Benennung : Floating Plunge Positioner up to 70 / 83 mm
									Gez.		
									Gep.		
									Hartmann & Bender Vertriebs - und Produktions - GmbH Hauptstraße 70 - 72 Walluf am Rhein		Zeichnungs- Nr.: 0762-402 Gr.2, 3, 5, 6, 11, 12
							Zust.	Änderung	Datum	Name	

		x				1	Washer, protecting	62-6528	0762-6528	23	
			x	x	x	1	Plunger Adapter	62-2533	0762-2533	22	
			x	x	x	1	Split Ring	62-2532	0762-2532	21	
			x			1	Cap 90 mm	62-6066	0762-6066	20	
				x	x	1	Cap 90 mm	62-2543	0762-2543	20	
			x			1	Bushing 3 1/4"	62-6527	0762-6527	19	
				x	x	1	Bushing 3 1/4"	62-2542	0762-2542	19	
			x	x	x	1	Distance Ring	62-2583	0762-2583	18	
				x	x	1	Spring Retainer	62-2544	0762-2544	17	
			x			1	Spacer	62-2546	0762-2546	16	
				x		1	Spacer	62-2968	0762-2968	16	
			x	x	x	1	Compression Spring	62-1532	0762-1532	13	
			x	x	x	1	Sleeve	62-1534	0762-1534	12	
			x	x		1	Spacer	62-2012	0762-2012	11	
			x	x	x	2	Soc.Set Screw	2640-1388	DIN-913-1/4“UNC x 1“	9	
			x	x	x	1	Locking Stud	62-1872	0762-1872	3	
			x	x	x	3	Stop Screw	62-659	0762-659	2	
			x			4	Hx.Hd.Cap Screw	2660-600	DIN-931-3/8-NC x 3 1/4	1	
				x		4	Hx.Soc.Hd.Cap Screw	2640-645	DIN-912-3/8-NC x 2“	1	
					x	4	Hx.Soc.Hd.Cap Screw	2640-610	DIN-912-3/8-NC x 2“	1	
			Gr.10	Gr.4	Gr.1	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
									Datum	Name	Benennung : Floating Plunge Positioner up to 90 mm
									Gez.		
									Gep.		
									Hartmann & Bender Vertriebs - und Produktions - GmbH Hauptstraße 70 - 72 Walluf am Rhein		Zeichnungs- Nr.: 0762-402 Gr.1, 4, 10
							Zust.	Änderung	Datum	Name	

Quick Change Cartridge Blow & Blow

Description	IS-Part No.	H&B-Order No.
Quick Change Cartridge Blow & Blow	62-186 Gr.1	0762-186-1
Quick Change Cartridge Blow & Blow	62-186 Gr.3	0762-186-3

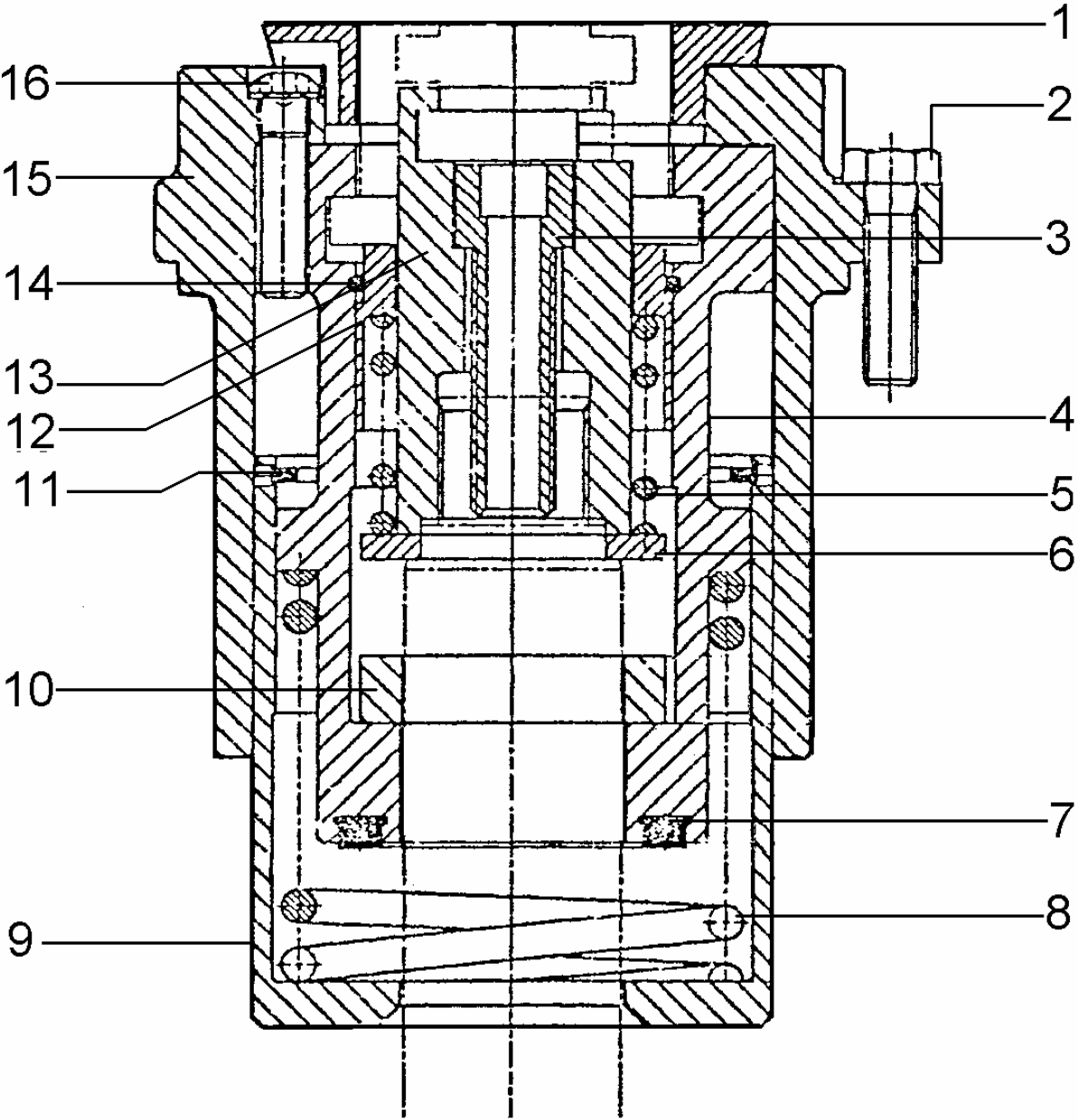


Illustrations shows special H&B Edition with Snap On Adapter

x	x	1	Lock Ring / Split Ring	62-1584	0762-1584	18	
x	x	1	Adapter, Hex socket type		0762-1183-A	17	hardened & grounded
x	x	1	Compression Spring	62-1626	0762-1626	16	
x	x	1	Washer	62-1627	0762-1627	15	
x	x	1	Piston Extension	62-1581	0762-1581	14	
x	x	1	Piston Ring	2520-183	9520-183	13	
x	x	1	Sleeve	62-1582	0762-1582	12	
x	x	3	Button Hd.Soc.Cap Screw	2640-1317	ISO-7380-10-24-NCx1/2"	11	
x	x	2	Piston Ring	2520-184	9520-184	10	
x	x	1	Stud	48-88348	0748-88348	9	
x	x	1	Piston	62-1580	0762-1580	8	
x	x	1	Lock Ring / Split Ring	62-1585	0762-1585	7	
x	x	4	Lock Washer		H-1235-8	6	
x	x	4	Hex.Soc.Hd.Cp.Screw	2640-350	DIN-912-5/16"NC x 1"	5	
x	x	1	Cap	62-1579	0762-1579	4	
x	x	2	Socket Set Screw	2640-85	DIN-916-1/4"UNC x 1/2"	3	
x	x	4	Hex.Soc.Hd.Cp.Screw	2640-530	DIN-912-3/8"UNC x 1"	2	
x		1	Ring	62-2194	0762-2194	1	
	x	1	Ring	62-1578	0762-1578	1	
Gr.3	Gr.1	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Quick Change Cartridge
					Gep.		Blow & Blow
					Hartmann & Bender		Zeichnungs- Nr.:
					Vertriebs - und		
					Produktions -GmbH		
					Hauptstraße 70 72		
					Walluf am Rhein		0762-186
			Zust.	Änderung	Datum	Name	

Quick Change Cartridge Blow & Blow

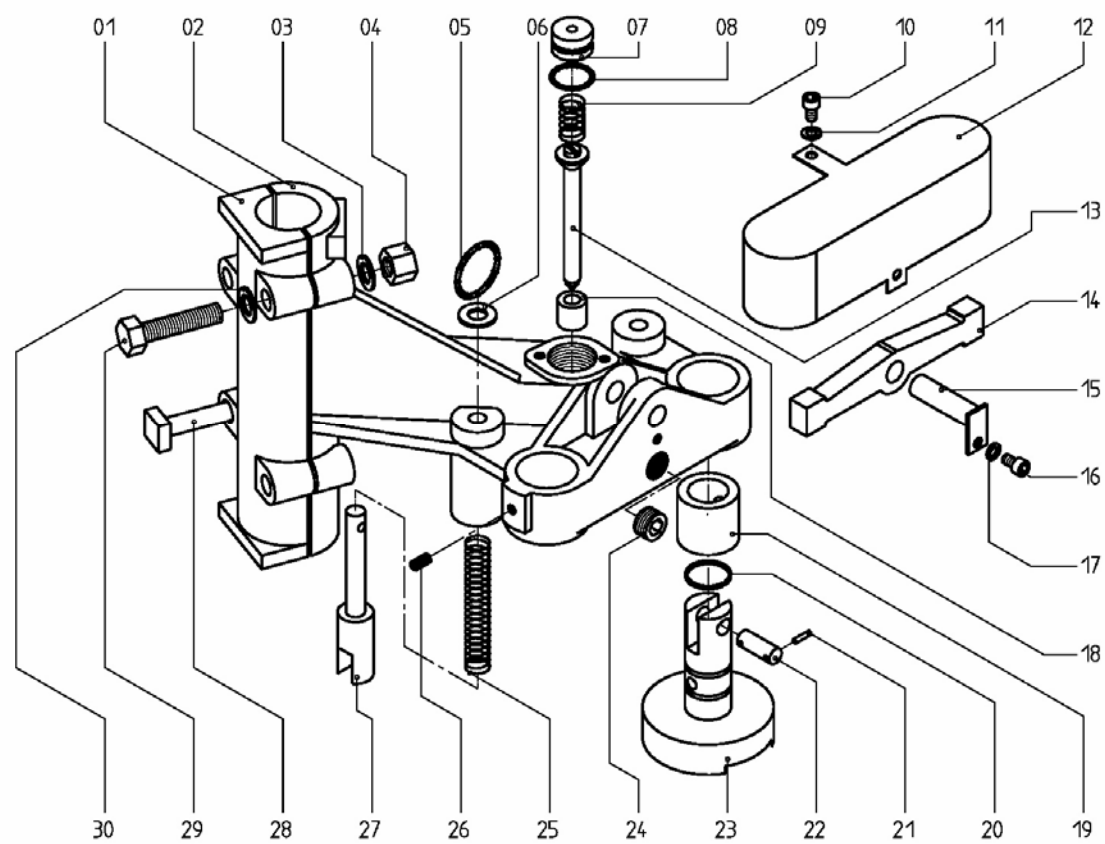
Description	IS-Part No.	H&B-Order No.
Quick Change Cartridge Blow & Blow	62-3036 Gr.8	0762-3036-8



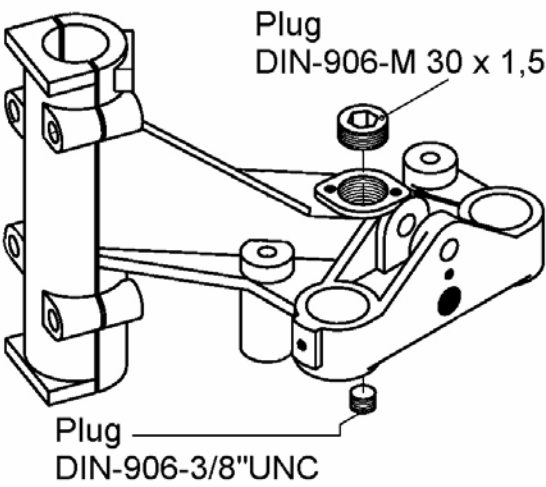
		1	Screw, piston locating	48-88490	0748-88490	16	
		1	Liner	62-6708	0762-6708	15	
		1	Ring, spring locking	62-2915	0762-2915	14	
		1	Adapter	62-6843	0762-6843	13	
		1	Sleeve, thimble locking	62-6683	0762-6683	12	
		1	Reataining Ring	2540-564	9540-564	11	
		1	Spacer	62-6703	0762-6703	10	
		1	Spring Retainer	62-6719	0762-6719	9	
		1	Compression Spring	62-6586	0762-6586	8	
		1	Ring, cushioning	59-86536	0759-86536	7	
		1	Washer	62-2918	0762-2918	6	
		1	Compression Spring	62-2920	0762-2920	5	
		1	Piston Cartridge	62-6844	0762-6844	4	
		1	Stud	48-88493	0748-88493	3	
		4	Hex.Hd.Cap Screw	2660-470	DIN-933-3/8"NC x 1 1/2"	2	
		1	Ring, covering	62-2912	0762-2912	1	
		Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Quick Change Cartridge Blow & Blow
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.: 0762-3036-8
			Zust.	Änderung	Datum	Name	

Baffle Arm with buildt in Valve DG 5 1/2"

Description	IS-Part No.	H&B-Order No.
Baffle Arm with buildt in Valve DG 5 1/2"	23-253 Gr.2	0723-253-2
Baffle Arm with buildt in Valve DG 6 1/4"	23-253 Gr.3	0723-253-3



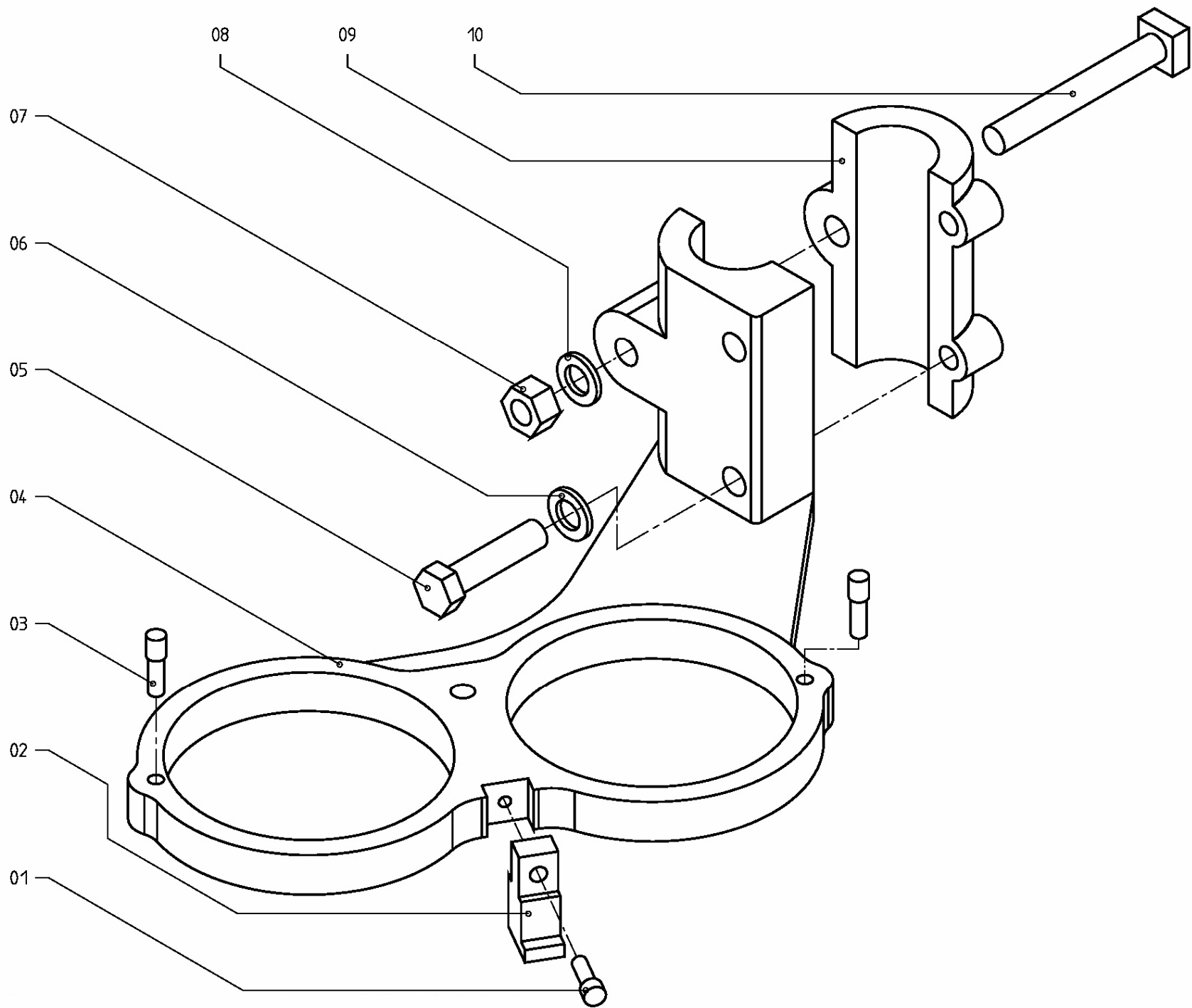
Baffle Arm without buildt in Valve



x	x	2	Washer		DIN-125-13	30			
x	x	2	Hexagon Head Cap Screw		DIN-931-1/2“ UNC x 2“	29			
x	x	1	Square Head Bolt 1/2“ UNC x 3 1/4“	191-16142	0791-16142	28			
x	x	2	Retainer	23-6040	0723-6040	27			
x	x	2	Hex. Socket Set Screw		DIN-916-1/4“ UNC x 1/2“	26			
x	x	2	Compression Spring	191-1286	0791-1286	25			
x	x	1	Plug		DIN-906 – 3/8“	24			
x	x	2	Lock Ring	191-10835	0791-10835	23			
x	x	2	Pin	23-5326	0723-5326	22			
x	x	4	Cotter Pin		DIN-94 - 2,5 x 15	21			
x	x	4	Piston Ring	2520-10	9520-10	20			
x	x	2	Bushing, hardened	23-5890	0723-5890	19			
x	x	2	Bushing / 3/8 I.D x 9/16 O.D. x 3/4"	1300-1684	7300-1684	18			
x	x	1	Hex. Soc. Head Cap Screw		DIN-912-1/4" UNC x 1/2“	17			
x	x	1	Washer		DIN-134 – 6,4	16			
x	x	1	Pivot	23-6434	0723-6434	15			
x		1	Equalizer	23-6608	0723-6608	14			
	x	1	Equalizer	23-5327	0723-5327	14			
x	x	1	Valve	23-6436	0723-6436	13			
x		1	Guard		0723-6606-B	12			
	x	1	Guard		0723-6608-A	12			
x	x	1	Washer		DIN 125 – 6,4	11			
x	x	1	Hex. Soc.Head Cap Screw		DIN-912-1/4“ UNC x 1/2“	10			
x	x	1	Compression Spring	3080-45	7080-45	9			
x	x	1	O-Ring, Viton	1700-634	7700-634	8			
x	x	1	Cap	23-6437	0723-6437	7			
x	x	2	Washer		DIN 125 - 10	6			
x	x	2	Ring 32 x 4		H&B-01927	5			
x	x	1	Hex Nut	1180-1601	7180-161	4			
x	x	1	Washer		DIN-125 - 13	3			
x		1	Body DG 6 1/4“		0723-6514-HB	2			
	x	1	Body DG 5 1/2“		0723-6421-HB	2			
x	x	1	Cap		0723-6270-HB	1			
Gr.3	Gr.2	Qty.	Description	IS Part No.		H&B Order No.		Index	Note
						Datum	Name	Benennung : Baffle Arm with buildt in Valve	
					Gez.				
					Gep.				
						Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein			Zeichnungs- Nr.: 0723-253
			Zust.	Änderung	Datum	Name			

Funnel Arm DG 5 1/2"

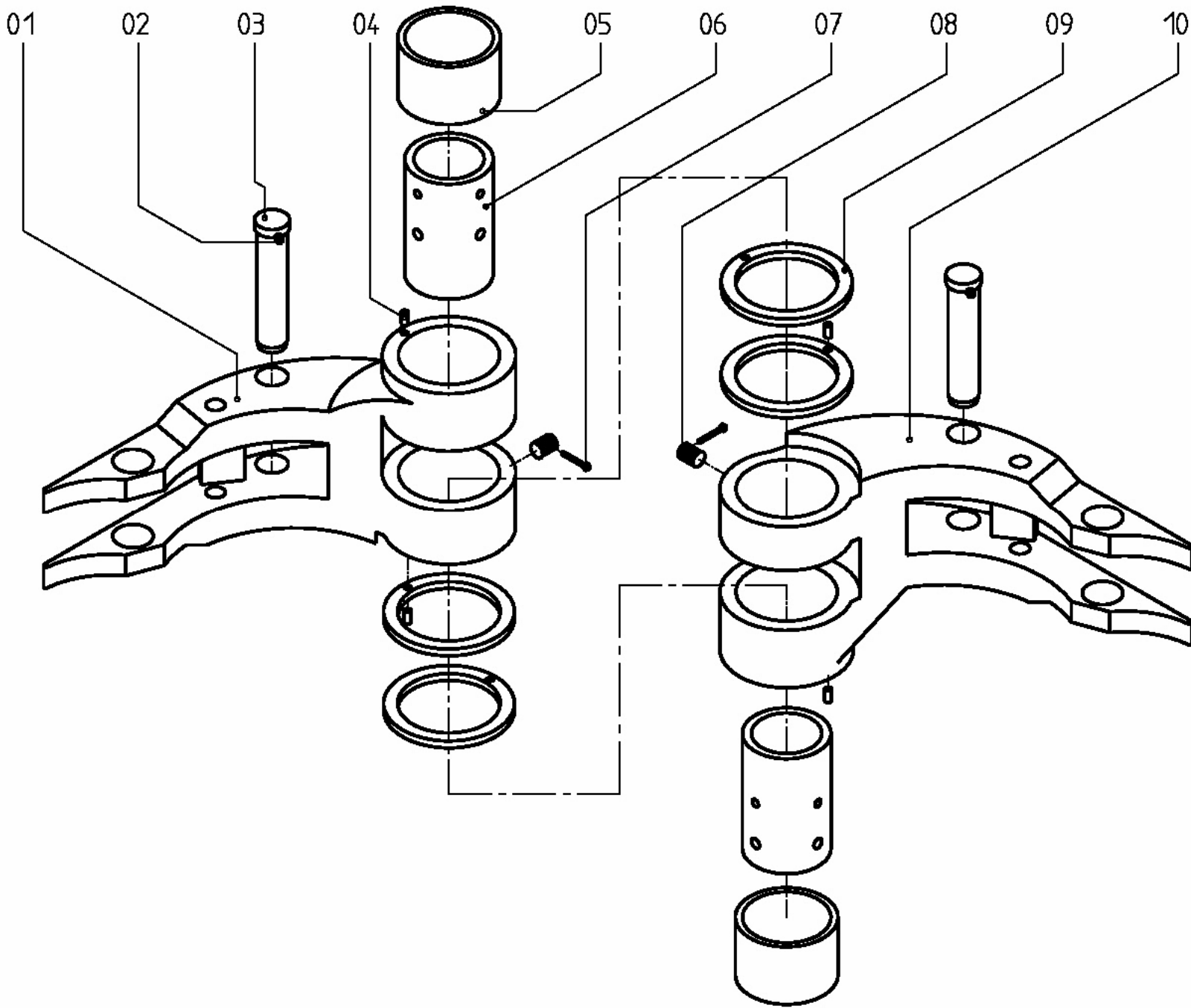
Description	IS-Part No.	H&B-Order No.
Funnel Arm DG 5 1/2" – 3 1/2" DIA.	23-41 Gr.3	0723-41-3
Funnel Arm DG 5 1/2" – 4 7/16" DIA.	23-41 Gr.4	0723-41-4



x	x	1	Square Hd.Bolt 1/2" NC x 3 1/4"	191-16142	0791-16142	10	
x	x	1	Cap		1284-216	9	
x	x	1	Washer		DIN-125-13	8	
x	x	1	Hex Nut	1180-1601	7180-1601	7	
x	x	2	Washer		DIN-125-13	6	
x	x	2	Hex.Hd.Cap Screw		DIN-931-1/2“UNC x 2“	5	
x		1	Funnel Arm 4 7/16” DIA.		1284-211	4	
	x	1	Funnel Arm 3 1/2” DIA.		1284-217	4	
x	x	2	Pin	191-1941	0791-1941	3	
x	x	1	Hook	23-7272	0723-7272	2	
x	x	1	Hook	23-6435	0723-6435	2	
x	x	1	Hex.Soc.Hd.Cap Screw		DIN-912-1/4“NC x 7/8“	1	
Gr.4	Gr.3	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung : Funnel Arm DG 5 1/2"
					Gez.		
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.: 0723-41
			Zust.	Änderung	Datum	Name	

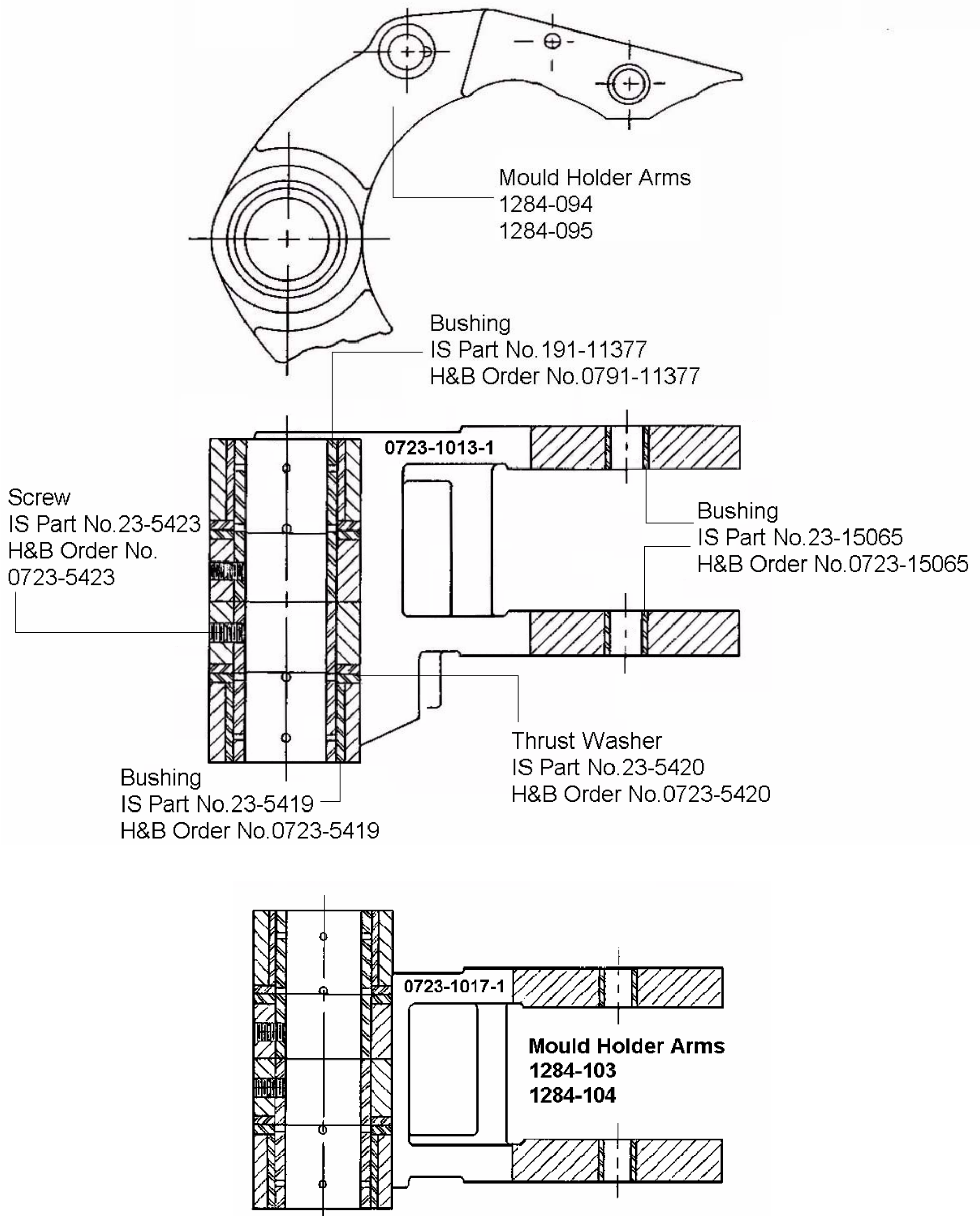
Blank & Blow Mould Holder No.1 DG 5 1/2"

Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1 - DG 5 1/2"	23-171 Gr.1	0723-171-1
Blow Mould Holder No.1 - DG 5 1/2"	23-170 Gr.1	0723-170-1

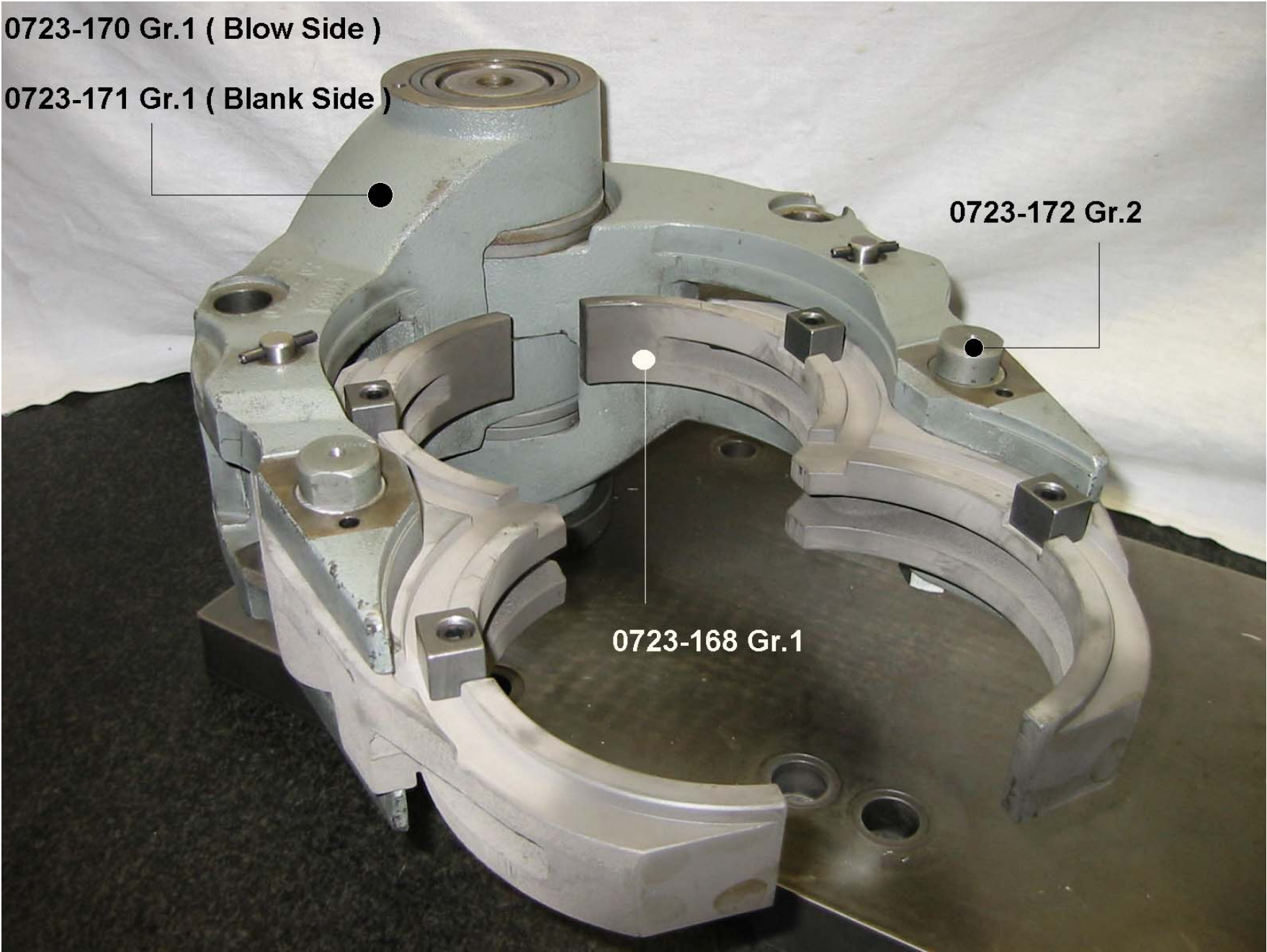


x		1	Blow Mould Holder Arm		On request	10	
	x	1	Blank Mould Holder Arm		On request	10	
x	x	4	Thrust Washer	23-5420	0723-5420	9	
x	x	2	Screw	23-5423	0723-5423	8	
x	x	2	Cotter Pin		DIN-94- 3,2 x 20	7	
x	x	2	Bushing	191-11377	0791-11377	6	
x	x	2	Bushing	23-5419	0723-5419	5	
x	x	4	Straight Pin		DIN-1481-5 x 16	4	
x	x	2	Link Pin	200-10431	7200-10431	3	
		1	Straight Pin		DIN-1481-5 x 12	2	for 1 Link Pin
x		1	Blow Mould Holder Arm		On request	1	
	x	1	Blank Mould Holder Arm		On request	1	
0723-170-1	0723-171-1	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Blank Mould Holder
					Gep.		Blow Mould Holder
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.:
			Zust.	Änderung	Datum	Name	

Blank Mould Holder No.2 DG 5 1/2" 0723-1013-1
Blow Mould Holder No.2 DG 5 1/2" 0723-1017-1



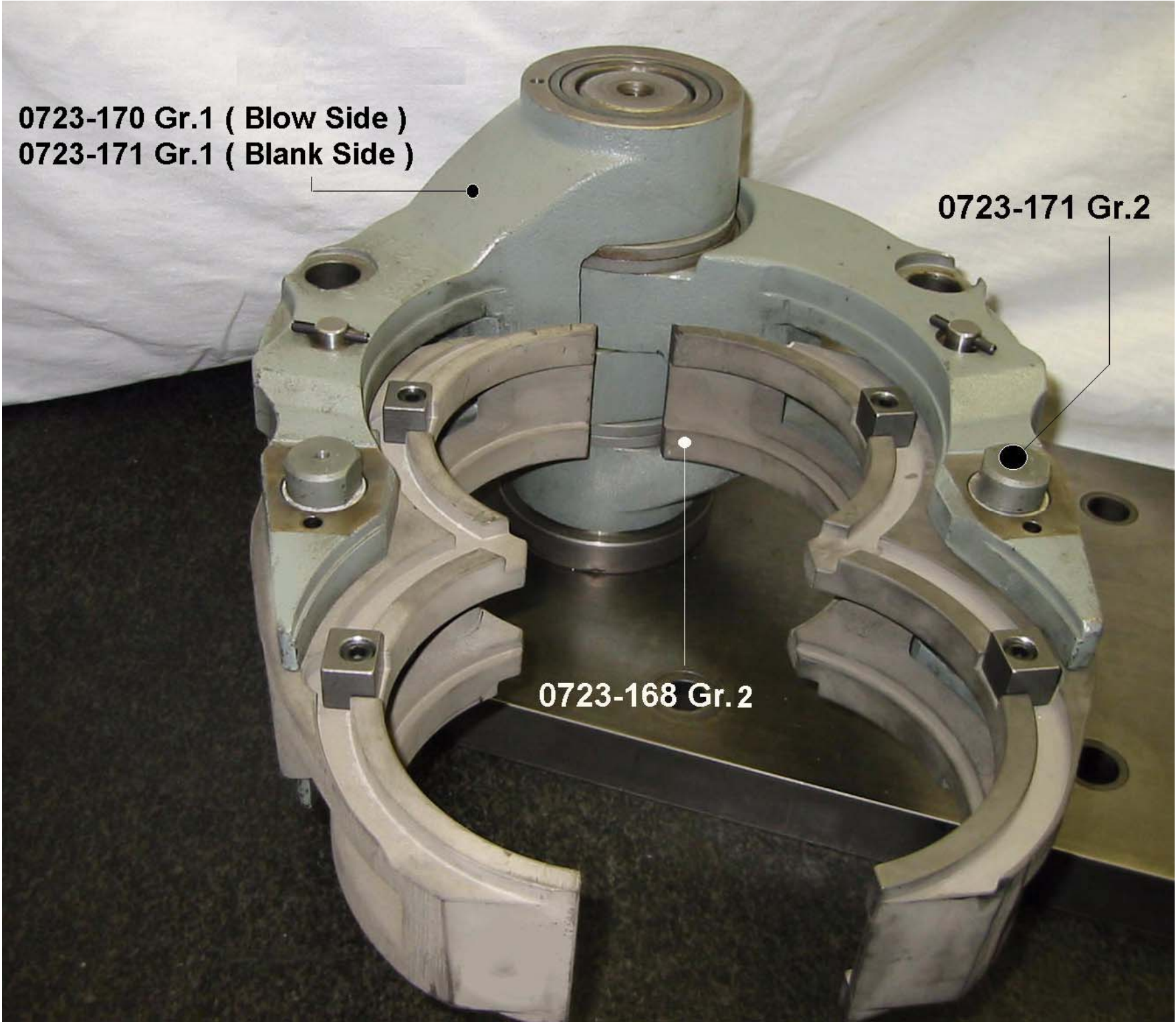
Mould Holder No.1 DG 5 1/2"
Assembly 1 (Blank Side)
Assembly 11 (Blow Side)



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1	23-171 Gr.1	0723-171-1
Blow Mould Holder No.1	23-170 Gr.1	0723-170-1
Insert 5 3/8" DIA.	23-168 Gr.1	0723-168-1
Mounting Parts	23-171 Gr.2	0723-171-2

23-171 Gr.2	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	48-88269	0748-88269	2 pcs.
	Hex Nut 5/8 UNF	1180-1650	7180-1650	2 pcs.
	Spacer Bushing	23-5476	0723-5476	2 pcs.
	Control Pin	2080-517	7080-517	2 pcs.

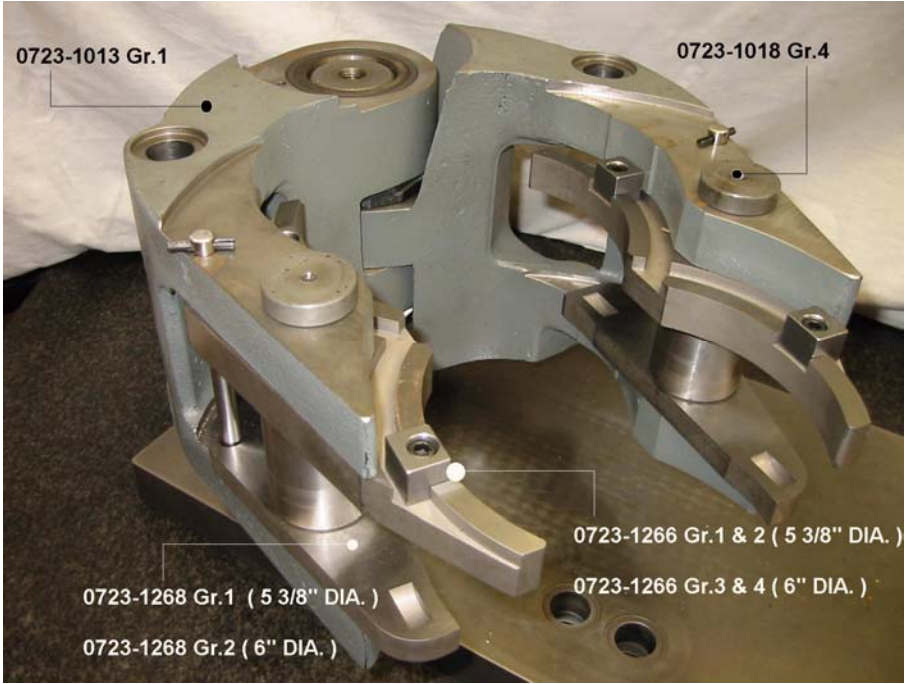
Mould Holder No.1 DG 5 1/2"
Assembly 2 (Blank Side)
Assembly 12 (Blow Side



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1	23-171 Gr.1	0723-171-1
Blow Mould Holder No.1	23-170 Gr.1	0723-170-1
Insert 5 3/8" DIA.	23-168 Gr.2	0723-168-2
Mounting Parts	23-171 Gr.2	0723-171-2

23-171 Gr.2	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	48-88269	0748-88269	2 pcs.
	Hex Nut 5/8 UNF	1180-1650	7180-1650	2 pcs.
	Spacer Bushing	23-5476	0723-5476	2 pcs.
	Control Pin	2080-517	7080-517	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 21 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 51 (Blow Side)



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2 (Assembly 21)	23-1013 Gr.1	0723-1013-1
Blow Mould Holder No.2 (Assembly 51)	23-1017 Gr.1	0723-1017-1
Plate Holders 5 3/8" DIA. (Upper & Lower)	23-1018 Gr.8	0723-1018-8
Plate Holders 6" DIA. (Upper & Lower)	23-1018 Gr.9	0723-1018-9
Mounting Parts	23-1018 Gr.4	0723-1018-4

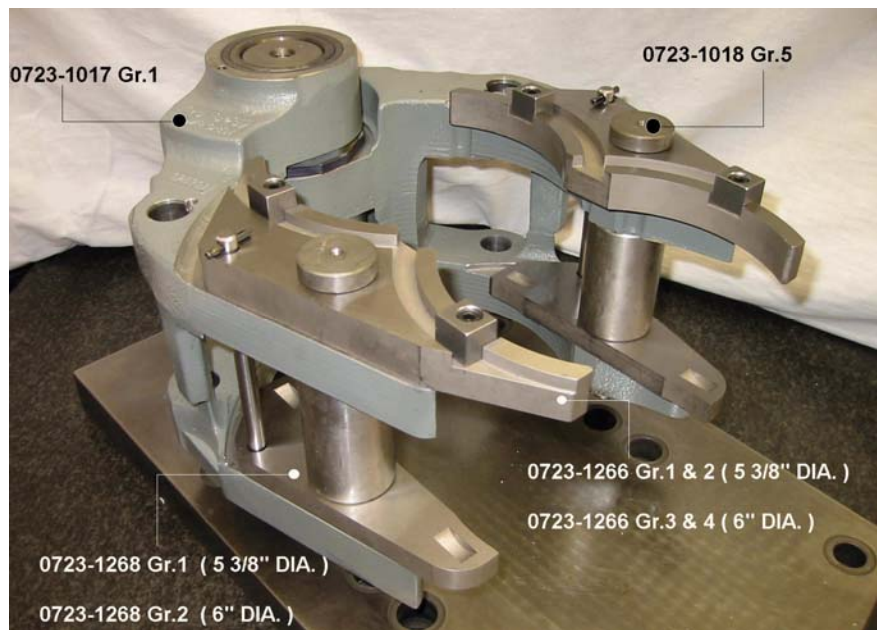
23-1018 Gr.8	Plate Holders 5 3/8" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Plate RH	23-1266 Gr.1	0723-1266-1	1 pcs.
	Upper Plate LH	23-1266 Gr.2	0723-1266-2	1 pcs.
	Lower Plate	23-1268 Gr.1	0723-1268-1	2 pcs.
23-1018 Gr.9	Plate Holders 6" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Plate RH	23-1266 Gr.3	0723-1266-3	1 pcs.
	Upper Plate LH	23-1266 Gr.4	0723-1266-4	1 pcs.
	Lower Plate	23-1268 Gr.2	0723-1268-2	2 pcs.

23-1018 Gr.4	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Bolt	23-15103	0723-15103	2 pcs.
	Spacer	23-15102	0723-15102	2 pcs.
	Control Pin	23-15104	0723-15104	2 pcs.
	Washer	3360-412	7360-412	2 pcs.
	Cotter Pin		DIN-94-3,2 x 32	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 22 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 52 (Blow Side)

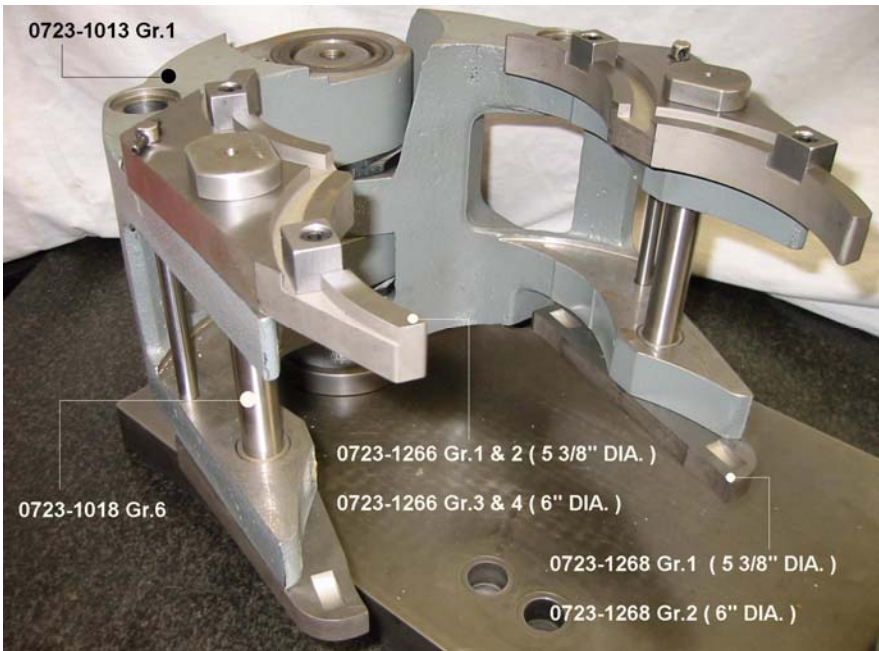


Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2 (Assembly 22)	23-1013 Gr.1	0723-1013-1
Blow Mould Holder No.2 (Assembly 52)	23-1017 Gr.1	0723-1017-1
Plate Holders 5 3/8" DIA. (Upper & Lower)	23-1018 Gr.8	0723-1018-8
Plate Holders 6" DIA. (Upper & Lower)	23-1018 Gr.9	0723-1018-9
Mounting Parts	23-1018 Gr.5	0723-1018-5

23-1018 Gr.8	Plate Holders 5 3/8" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Plate RH	23-1266 Gr.1	0723-1266-1	1 pcs.
	Upper Plate LH	23-1266 Gr.2	0723-1266-2	1 pcs.
	Lower Plate	23-1268 Gr.1	0723-1268-1	2 pcs.
23-1018 Gr.9	Plate Holders 6" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Plate RH	23-1266 Gr.3	0723-1266-3	1 pcs.
	Upper Plate LH	23-1266 Gr.4	0723-1266-4	1 pcs.
	Lower Plate	23-1268 Gr.2	0723-1268-2	2 pcs.

23-1018 Gr.5	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Bolt	23-15106	0723-15106	2 pcs.
	Spacer	23-15105	0723-15105	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-412	7360-412	2 pcs.
	Cotter Pin		DIN-94-3,2 x 32	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 23 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 53 (Blow Side)

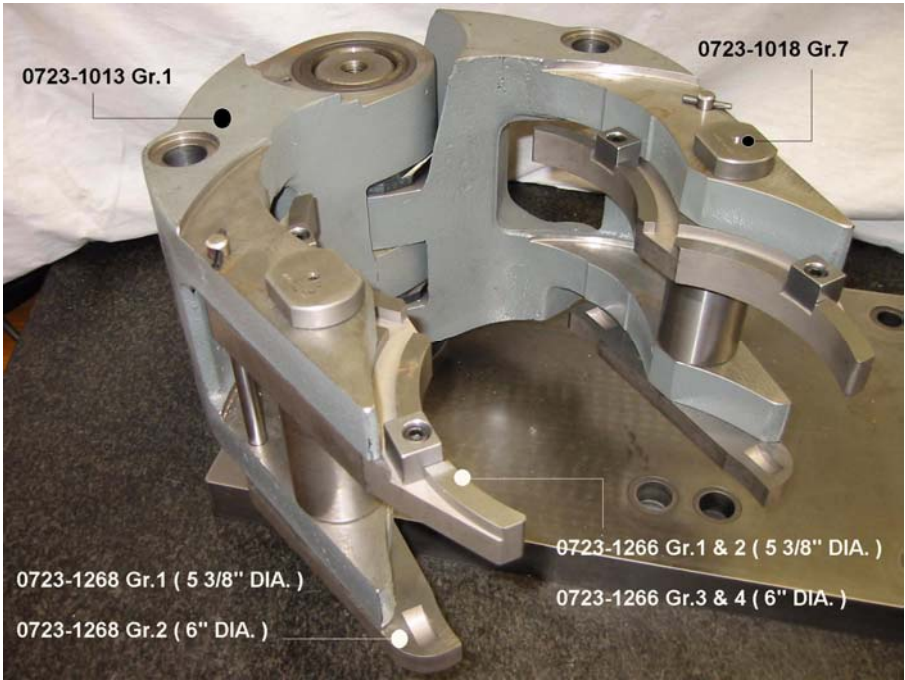


Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2 (Assembly 23)	23-1013 Gr.1	0723-1013-1
Blow Mould Holder No.2 (Assembly 53)	23-1017 Gr.1	0723-1017-1
Plate Holders 5 3/8" DIA. (Upper & Lower)	23-1018 Gr.8	0723-1018-8
Plate Holders 6" DIA. (Upper & Lower)	23-1018 Gr.9	0723-1018-9
Mounting Parts	23-1018 Gr.6	0723-1018-6

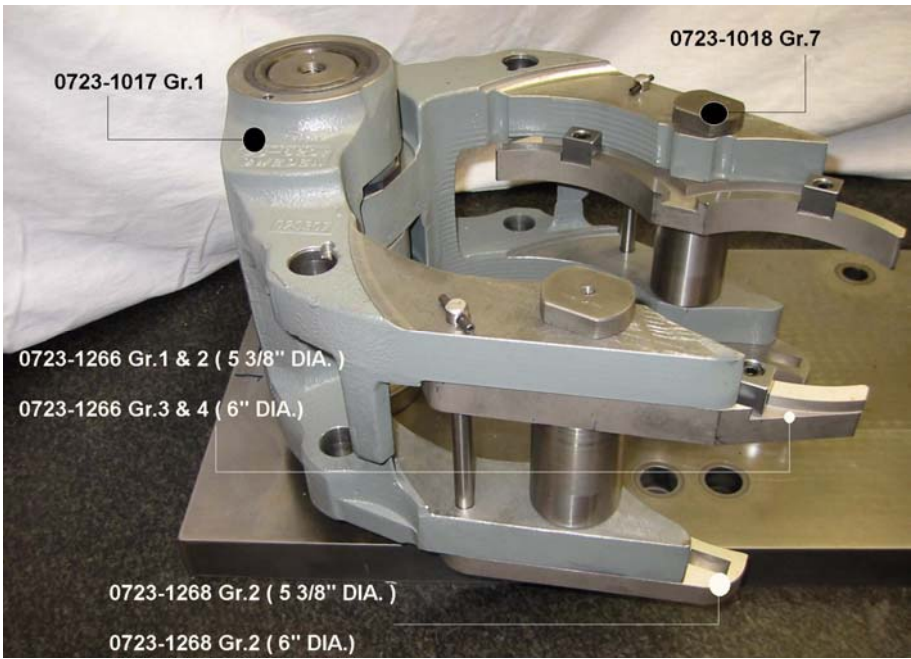
23-1018 Gr.8	Plate Holders 5 3/8" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Plate RH	23-1266 Gr.1	0723-1266-1	1 pcs.
	Upper Plate LH	23-1266 Gr.2	0723-1266-2	1 pcs.
	Lower Plate	23-1268 Gr.1	0723-1268-1	2 pcs.
23-1018 Gr.9	Plate Holders 6" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Plate RH	23-1266 Gr.3	0723-1266-3	1 pcs.
	Upper Plate LH	23-1266 Gr.4	0723-1266-4	1 pcs.
	Lower Plate	23-1268 Gr.2	0723-1268-2	2 pcs.

23-1018 Gr.6	Mounting Parts			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Shoulder Screw	23-15108	0723-15108	2 pcs.
	Control Pin	23-15109	0723-15109	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 24 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 54 (Blow Side)



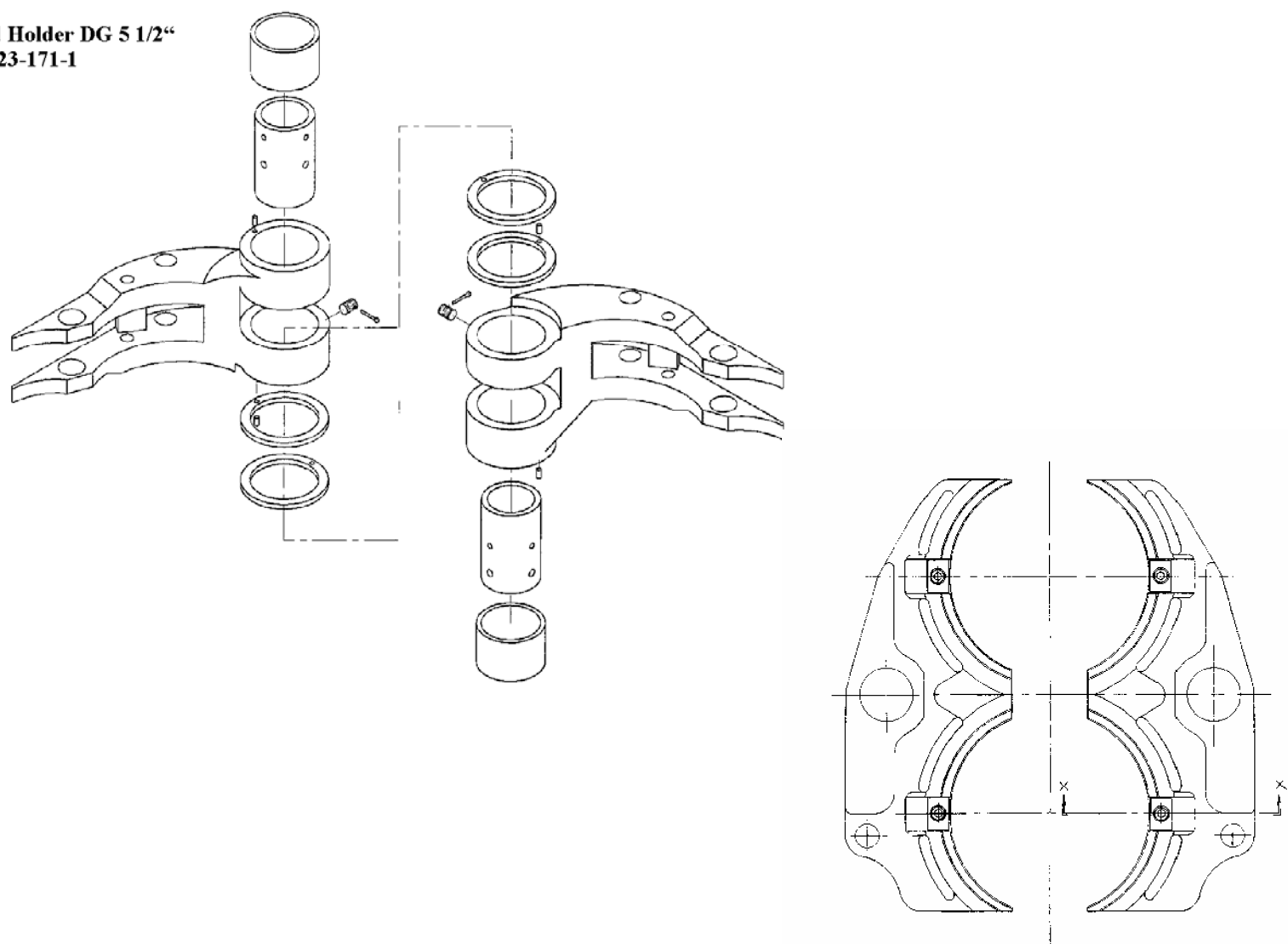
Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2 (Assembly 24)	23-1013 Gr.1	0723-1013-1
Blow Mould Holder No.2 (Assembly 54)	23-1017 Gr.1	0723-1017-1
Plate Holders 5 3/8" DIA. (Upper & Lower)	23-1018 Gr.8	0723-1018-8
Plate Holders 6" DIA. (Upper & Lower)	23-1018 Gr.9	0723-1018-9
Mounting Parts	23-1018 Gr.7	0723-1018-7

23-1018 Gr.8	Plate Holders 5 3/8" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Plate RH	23-1266 Gr.1	0723-1266-1	1 pcs.
	Upper Plate LH	23-1266 Gr.2	0723-1266-2	1 pcs.
	Lower Plate	23-1268 Gr.1	0723-1268-1	2 pcs.
23-1018 Gr.9	Plate Holders 6" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Plate RH	23-1266 Gr.3	0723-1266-3	1 pcs.
	Upper Plate LH	23-1266 Gr.4	0723-1266-4	1 pcs.
	Lower Plate	23-1268 Gr.2	0723-1268-2	2 pcs.

23-1018 Gr.7	Mounting Parts			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Shoulder Screw	23-15194	0723-15108	2 pcs.
	Spacer	23-15311	0723-15311	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.1 DG 5 1/2"
Assembly 61 (Blank & Blow Side)
Assembly 64 (Blank & Blow Side)

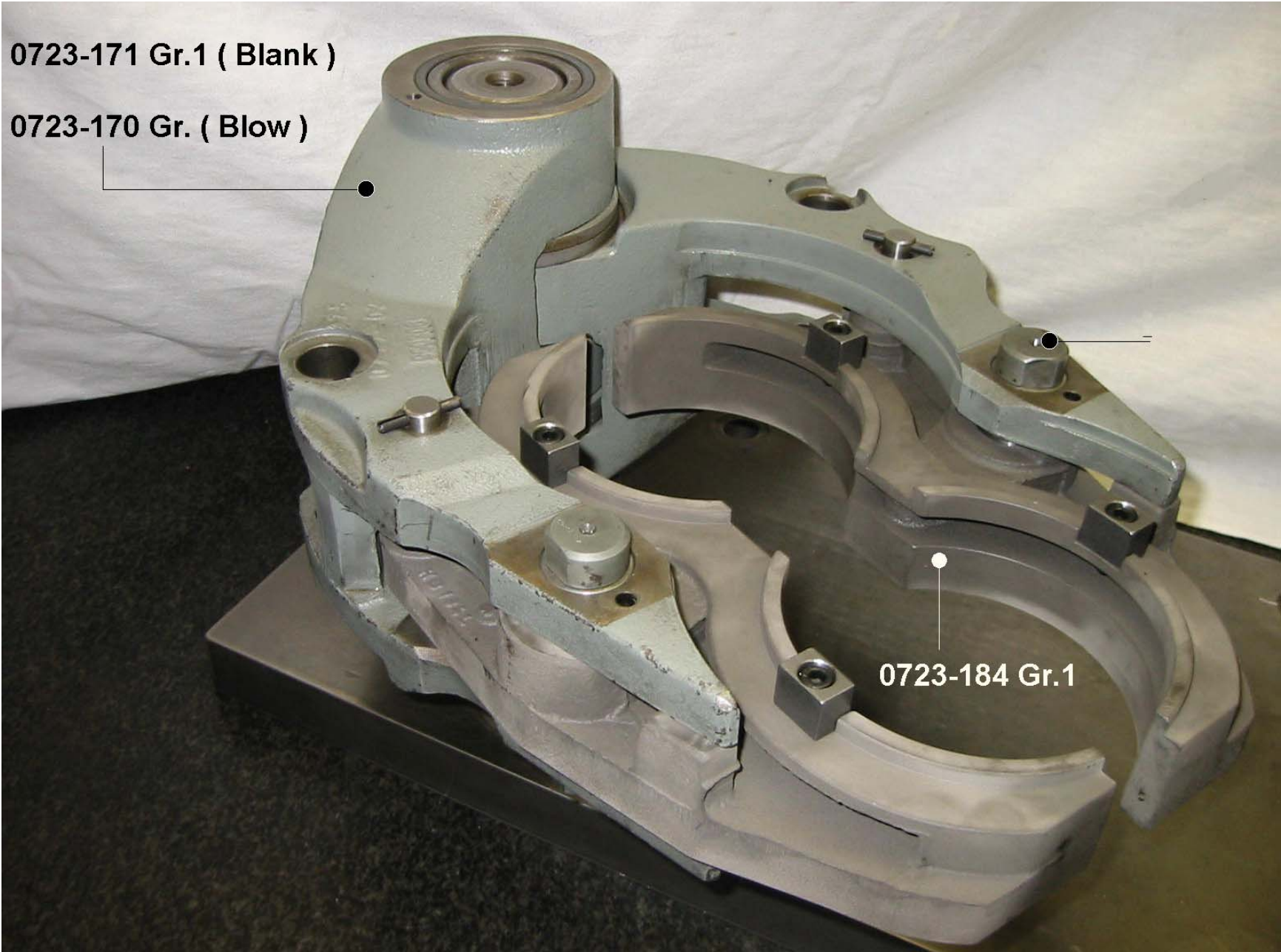
Blank Mold Holder DG 5 1/2“
Part No. 0723-171-1



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1	23-171 Gr.1	0723-171-1
Blow Mould Holder No.1	23-170 Gr.1	0723-170-1
Insert 4 5/8” DIA.	23-213 Gr.1	0723-213-1
Mounting Parts	23-171 Gr.2	0723-171-2

23-171 Gr.2	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	48-88269	0748-88269	2 pcs.
	Hex Nut 5/8 UNF	1180-1650	7180-1650	2 pcs.
	Spacer Bushing	23-5476	0723-5476	2 pcs.
	Control Pin	2080-517	7080-517	2 pcs.

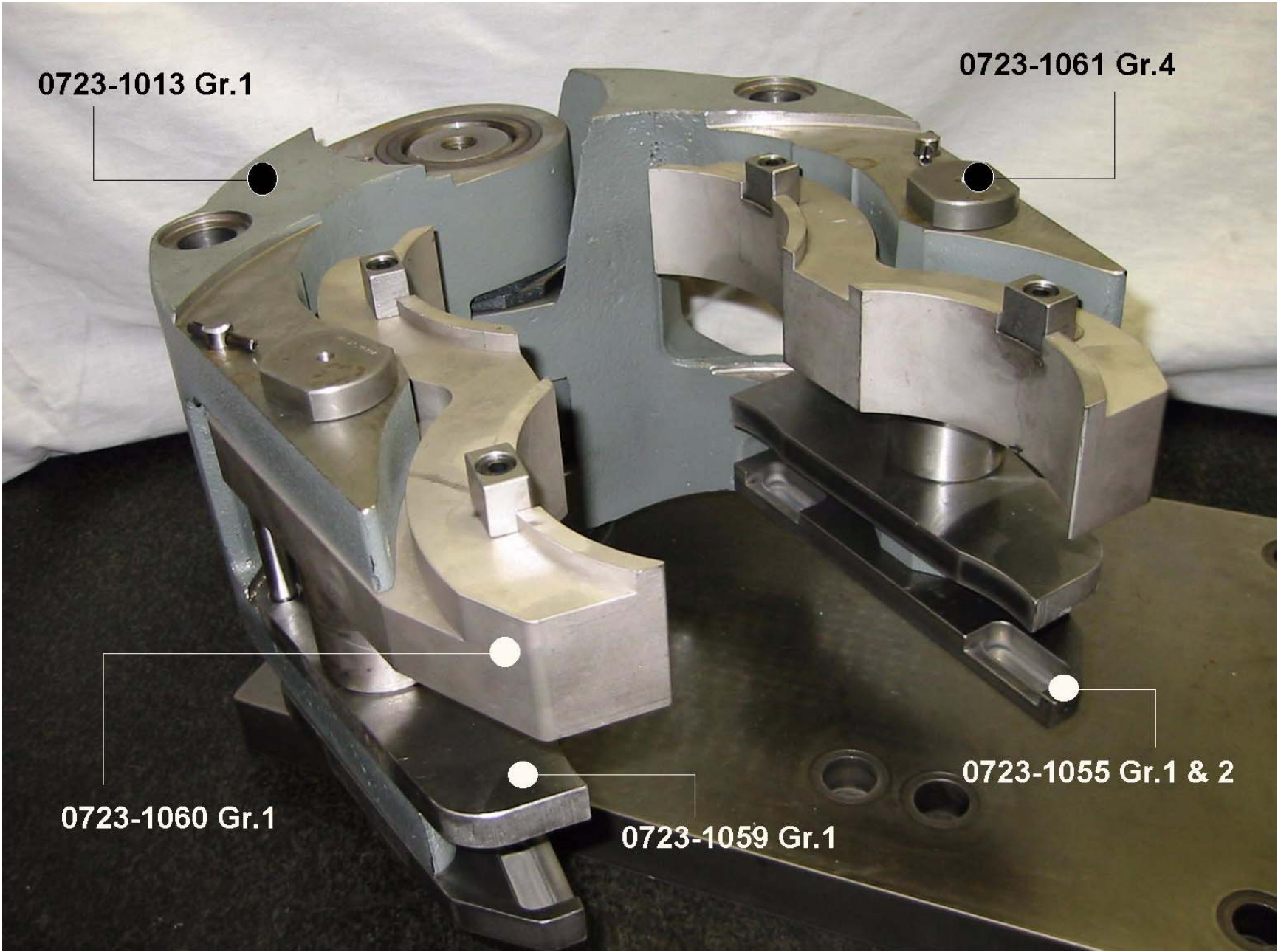
Mould Holder No.1 DG 5 1/2"
Assembly 62 (Blank & Blow Side)



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1	23-171 Gr.1	0723-171-1
Blow Mould Holder No.1	23-170 Gr.1	0723-170-1
Insert 4 5/8" DIA.	23-184 Gr.1	0723-184-1
Mounting Parts	23-171 Gr.2	0723-171-2

23-171 Gr.2	Mounting Parts			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Shoulder Screw	48-88269	0748-88269	2 pcs.
	Hex Nut 5/8 UNF	1180-1650	7180-1650	2 pcs.
	Spacer Bushing	23-5476	0723-5476	2 pcs.
	Control Pin	2080-517	7080-517	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 63 (Blank Side)



Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2	23-1013 Gr.1	0723-1013-1
Inserts Assembly 4 5/8" / 5" DIA.	23-1061 Gr.3	0723-1061-3
Mounting Parts	23-1061 Gr.4	0723-1061-4

23-1061 Gr.3	Inserts Assembly 4 5/8" / 5" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Insert 4 5/8" DIA.	23-1060 Gr.1	0723-1060-1	1 pair
	Centre Insert 4 5/8" DIA.	23-1059 Gr.1	0723-1059-1	1 pair
	Lower Insert LH 5" DIA.	23-1055 Gr.1	0723-1055-1	1 pcs.
	Lower Insert RH 5" DIA.	23-1055 Gr.2	0723-1055-2	1 pcs.

23-1061 Gr.4	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	23-15194	0723-15194	2 pcs.
	Spacer	23-15199	0723-15199	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 65 (Blank Side)

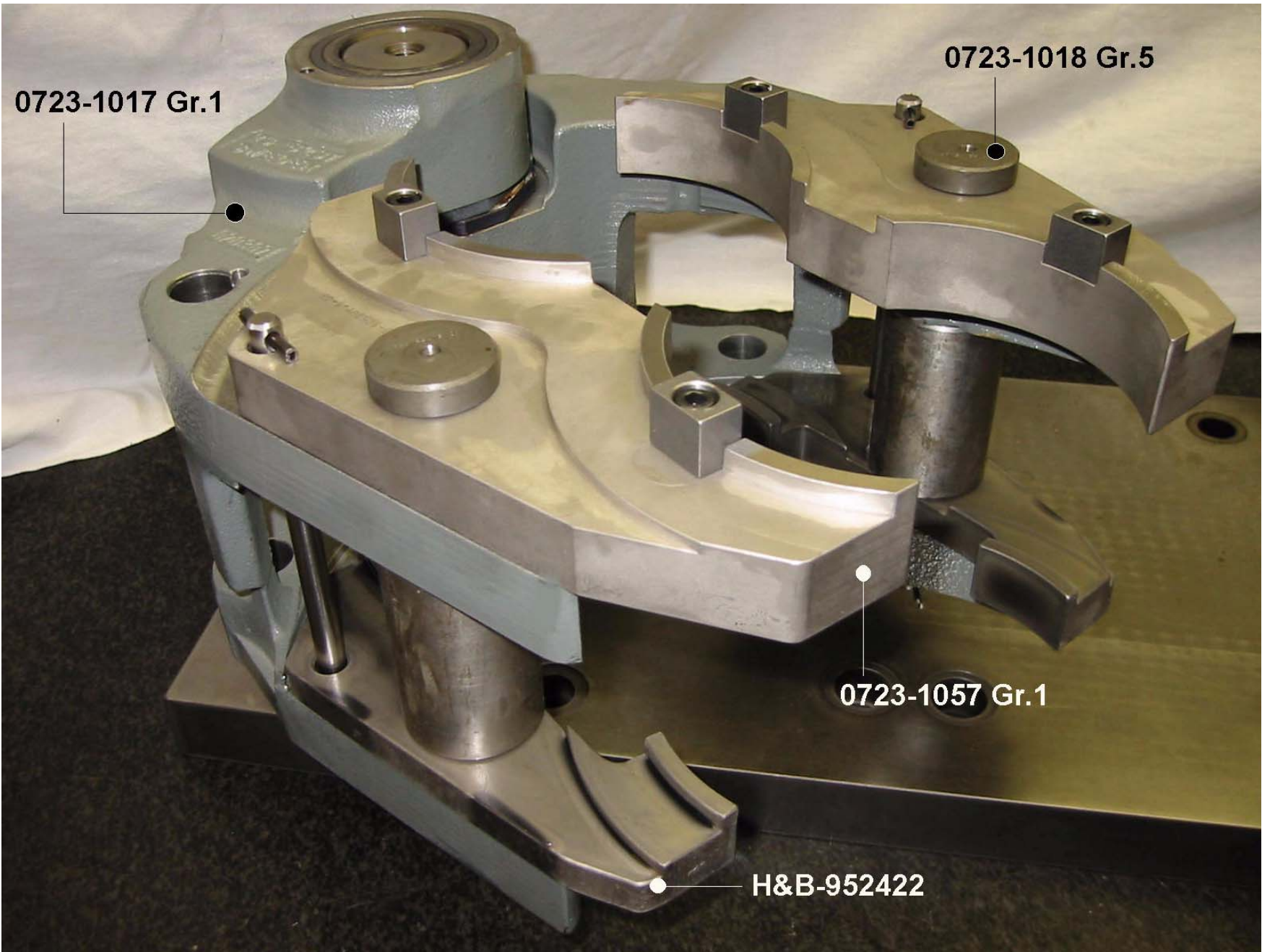


Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2	23-1013 Gr.1	0723-1013-1
Inserts Assembly 4 5/8" / 5" DIA.	23-1061 Gr.2	0723-1061-2
Mounting Parts	23-1061 Gr.4	0723-1061-4

23-1061 Gr.2	Inserts Assembly 4 5/8" / 5" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Insert 4 5/8" DIA.	23-1056 Gr.1	0723-1056-1	1 pair
	Centre Insert 4 5/8" DIA.	23-1059 Gr.1	0723-1059-1	1 pair
	Lower Insert LH 5" DIA.	23-1055 Gr.1	0723-1055-1	1 pcs.
	Lower Insert RH 5" DIA.	23-1055 Gr.2	0723-1055-2	1 pcs.

23-1061 Gr.4	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	23-15194	0723-15194	2 pcs.
	Spacer	23-15199	0723-15199	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 66 (Blow Side)



Description	IS-Part No.	H&B-Order No.
Blow Mould Holder No.2	23-1017 Gr.1	0723-1017-1
Inserts Assembly 4 5/8" / 5" DIA.	23-1062 Gr.1	0723-1062-1
Mounting Parts	23-1018 Gr.5	0723-1018-5

23-1062 Gr.1	Inserts Assembly 4 5/8" / 5" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Insert 4 5/8" DIA.	23-1057 Gr.1	0723-1057-1	1 pair
	Lower Insert 5" DIA.		H&B-952422	1 pair

23-1018 Gr.5	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Bolt	23-15106	0723-15106	2 pcs.
	Spacer	23-15105	0723-15105	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-412	7360-412	2 pcs.
	Cotter Pin		DIN-94 – 3,2 x 32	2 pcs.

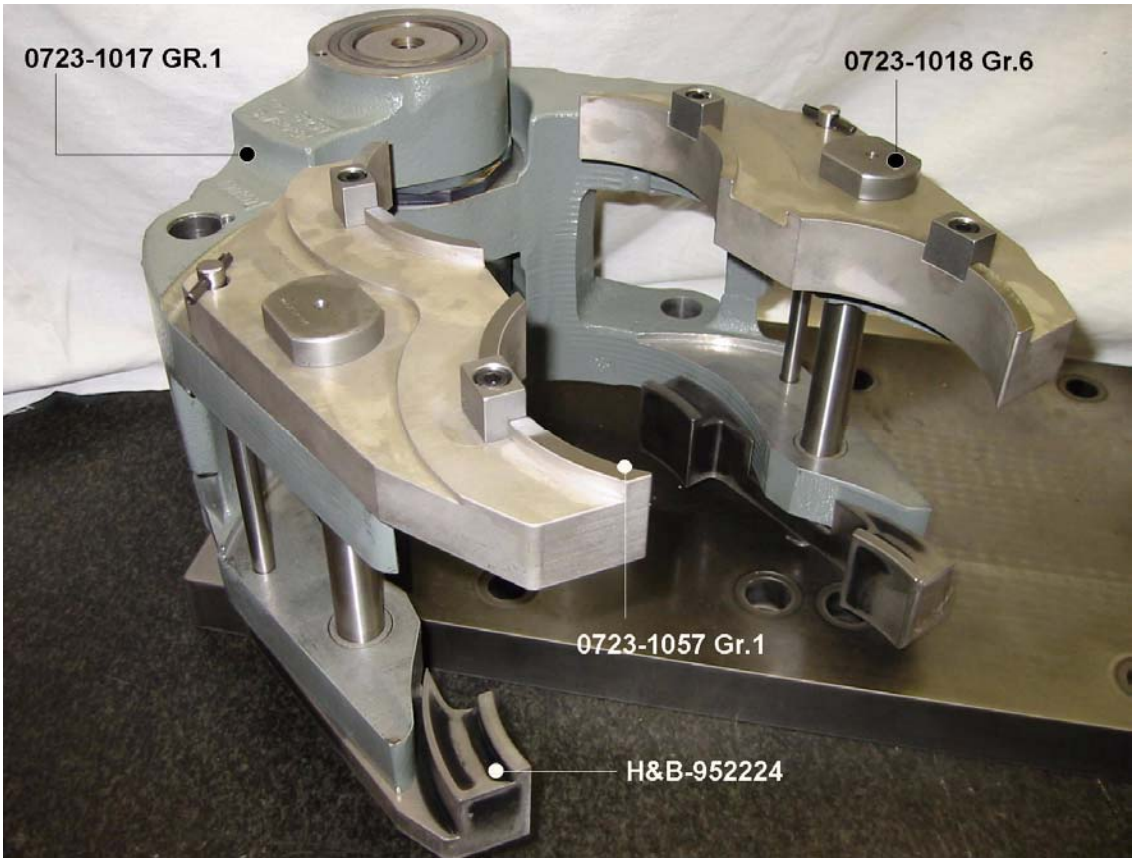
Mould Holder No.2 DG 5 1/2"
Assembly 67 (Blank Side)
Illustration not shown

Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.2	23-1013 Gr.1	0723-1013-1
Inserts Assembly 4 5/8" / 5" DIA.	23-1061 Gr.1	0723-1061-1
Mounting Parts	23-1061 Gr.5	0723-1061-5

23-1062 Gr.1	Inserts Assembly 4 5/8" / 5" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Insert 4 5/8" DIA.	23-1056 Gr.1	0723-1056-1	1 pair
	Centre Insert 5" DIA.	23-1058 Gr.1	0723-1058-1	1 pair
	Lower Insert LH 5" DIA.	23-1055 Gr.1	0723-1055-1	1 pcs.
	Lower Insert RH 5" DIA.	23-1055 Gr.2	0723-1055-2	1 pcs.

23-1061 Gr.5	Mounting Parts			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Shoulder Screw	23-15108	0723-15108	2 pcs.
	Spacer	23-15105	0723-15105	2 pcs.
	Control Pin	23-15109	0723-15109	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 68 (Blow Side)



Description	IS-Part No.	H&B-Order No.
Blow Mould Holder No.2	23-1017 Gr.1	0723-1017-1
Inserts Assembly 4 5/8" / 5" DIA.	23-1062 Gr.2	0723-1062-2
Mounting Parts	23-1018 Gr.6	0723-1018-6

23-1062 Gr.2	Inserts Assembly 4 5/8" / 5" DIA.			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Upper Insert 4 5/8" DIA.	23-1057 Gr.1	0723-1057-1	1 pair
	Lower Insert 5" DIA.		H&B-952224	1 pair

23-1018 Gr.6	Mounting Parts			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Shoulder Screw	23-15108	0723-15108	2 pcs.
	Control Pin	23-15109	0723-15109	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 69 (Blow Side)

Illustration not shown

Description	IS-Part No.	H&B-Order No.
Blow Mould Holder No.2	23-1017 Gr.1	0723-1017-1
Inserts Assembly 4 5/8" / 5 5/16" DIA.	23-1062 Gr.3	0723-1062-3
Mounting Parts	23-1018 Gr.5	0723-1018-5

23-1062 Gr.3	Inserts Assembly 4 5/8" / 5" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Insert 4 5/8" DIA.	23-1057 Gr.1	0723-1057-1	1 pair
	Lower Insert 5 5/16" DIA.		H&B-952622	1 pair

23-1018 Gr.5	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Bolt	23-15106	0723-15106	2 pcs.
	Spacer	23-15105	0723-15105	2 pcs.
	Control Pin	23-15107	0723-15107	2 pcs.
	Washer	3360-412	7360-412	2 pcs.
	Cotter Pin		DIN-94 – 3,2 x 32	2 pcs.

Mould Holder No.2 DG 5 1/2"
Assembly 70 (Blow Side)

Illustration not shown

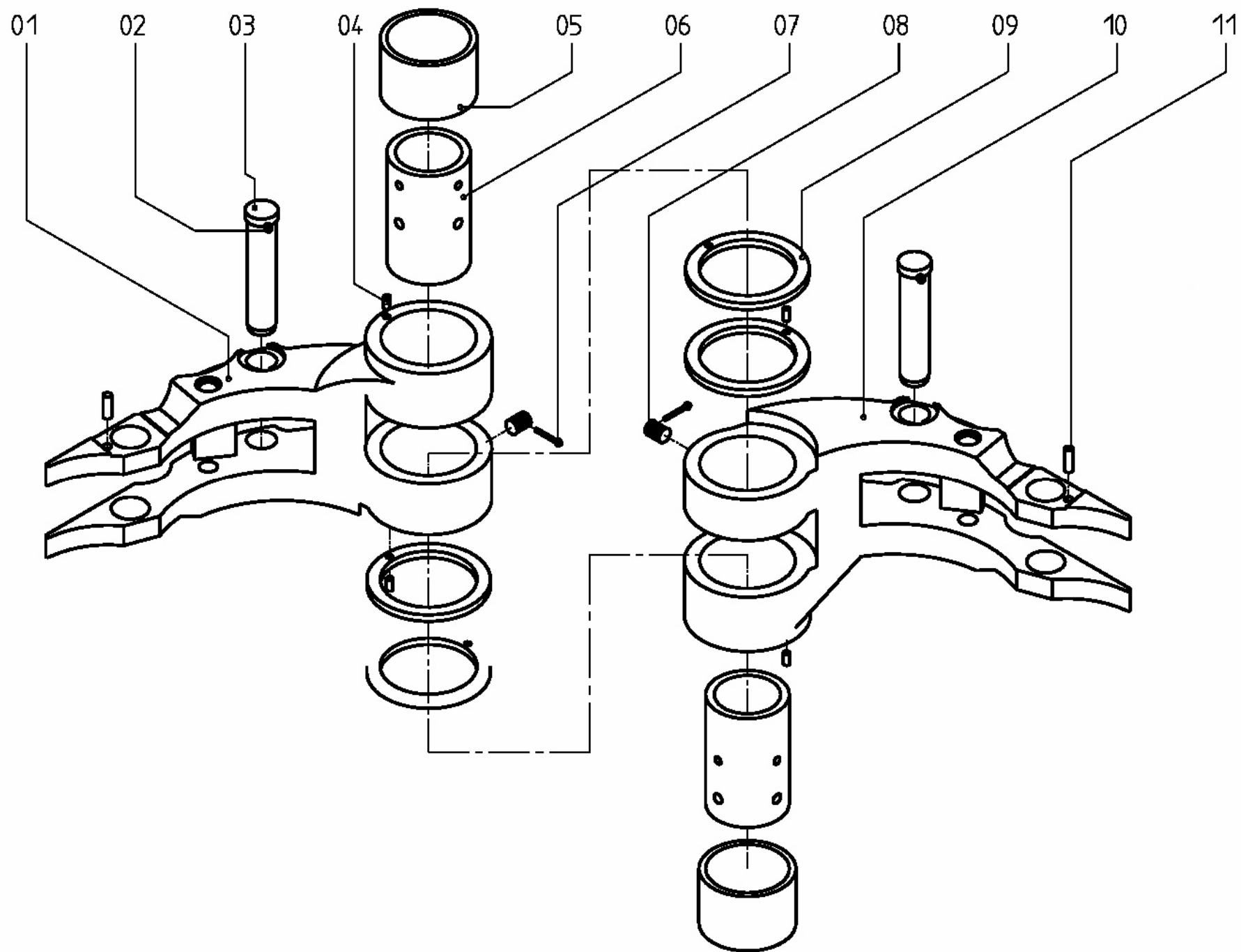
Description	IS-Part No.	H&B-Order No.
Blow Mould Holder No.2	23-1017 Gr.1	0723-1017-1
Inserts Assembly 4 5/8" / 5 5/16" DIA.	23-1062 Gr.4	0723-1062-4
Mounting Parts	23-1018 Gr.6	0723-1018-6

23-1062 Gr.4	Inserts Assembly 4 5/8" / 5" DIA.			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Upper Insert 4 5/8" DIA.	23-1057 Gr.1	0723-1057-1	1 pair
	Lower Insert 5 5/16" DIA.		H&B-952623	1 pair

23-1018 Gr.6	Mounting Parts			
contains :	Decsription	IS Part No.	H&B Order No.	Qty. 1/ unit
	Shoulder Screw	23-15108	0723-15108	2 pcs.
	Control Pin	23-15109	0723-15109	2 pcs.
	Washer	3360-180	7360-180	2 pcs.
	Flex Loc Nut 5/8" UNF	1180-3025	7180-3025	2 pcs.

Blank Mould Holder No.1 DG 5 1/2" Verti Flow Cooling

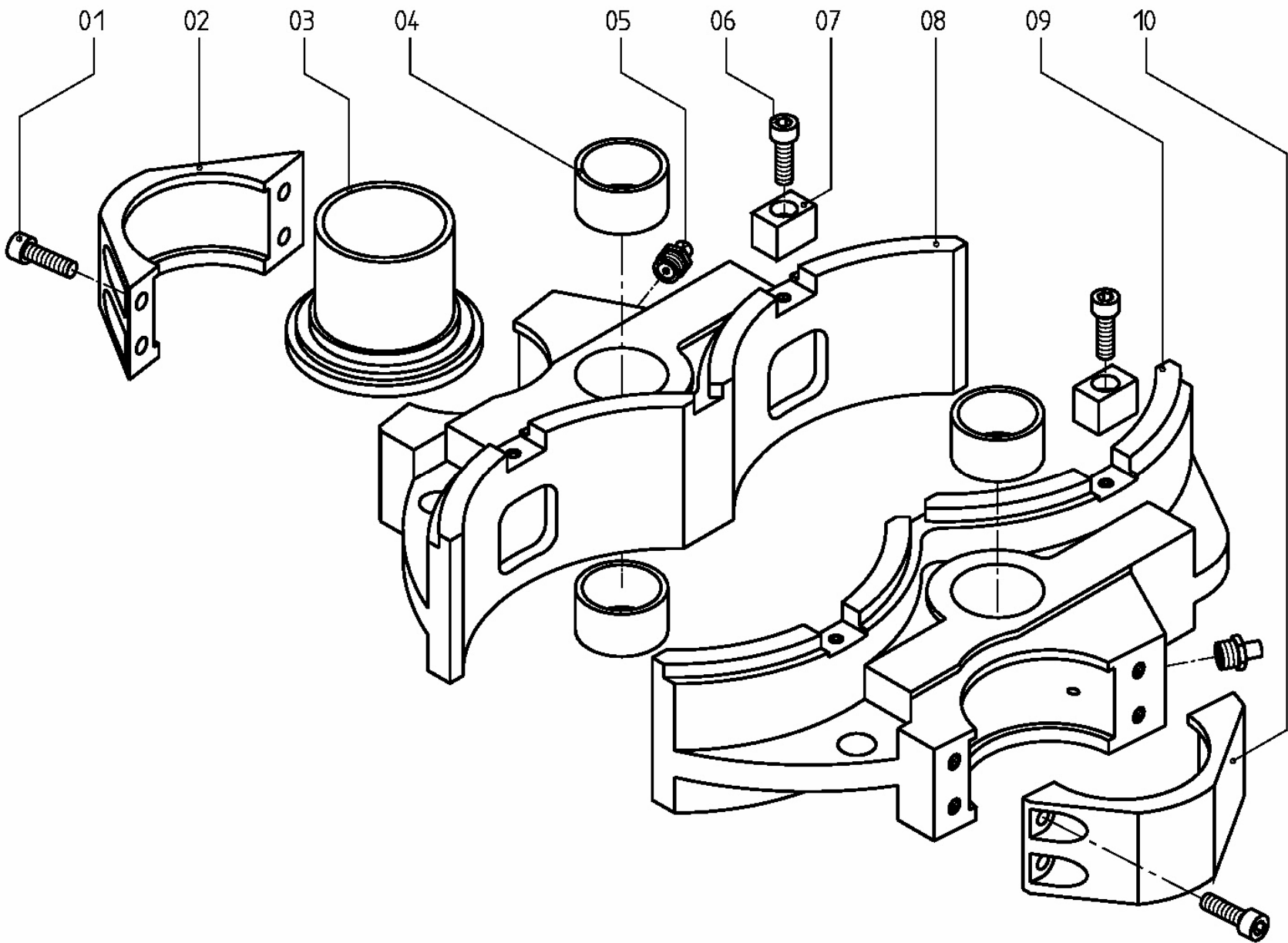
Description	IS-Part No.	H&B-Order No.
Blank Mould Holder No.1 - DG 5 1/2"	23-171 Gr.5	0723-171-5



		1	Dowel	2080-13	7080-13	11	
		1	Blank Mould Holder Arm		On request	10	
		4	Thrust Washer	23-5420	0723-5420	9	
		2	Screw	23-5423	0723-5423	8	
		2	Cotter Pin		DIN-94- 3,2 x 20	7	
		2	Bushing	191-11377	0791-11377	6	
		2	Bushing	23-5419	0723-5419	5	
		4	Straight Pin		DIN-1481-5 x 16	4	
		2	Link Pin	200-10431	7200-10431	3	
		1	Straight Pin		DIN-1481-5 x 12	2	for 1 Link Pin
		1	Blow Mould Holder Arm		On request	1	
		Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Blank Mould Holder No.1
					Gep.		Verti Flow Cooling
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.:
							0723-171-5
			Zust.	Änderung	Datum	Name	

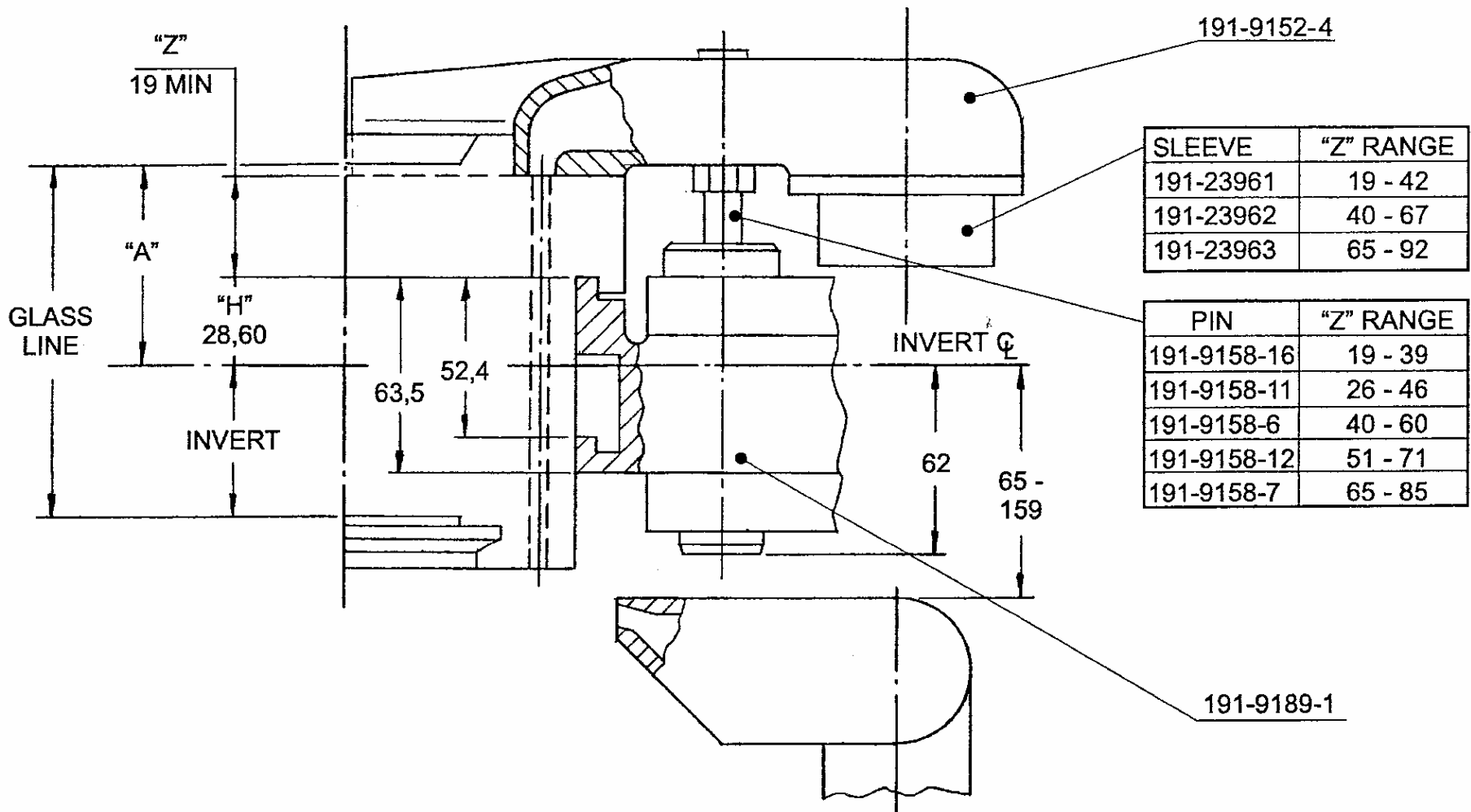
Mould Holder Insert DG 5 1/2" Verti Flow Cooling

Description	IS-Part No.	H&B-Order No.
Mould Holder Insert DG 5 1/2"	191-9189 Gr.1	0791-9189-1



	1	End Cap	191-24625		10	
	1	Insert RH	191-24670		9	
	1	Insert LH	191-24669		8	
	4	Locating Block 3/4"	191-14005		7	
	4	Hex. Soc. Head Cap Screw	2640-130	DIN-912-1/4" UNC x 3/4"	6	
	4	Straight Fitting	1780-30	DIN-71412 - H1-R 1/8"	5	
	4	Bushing	191-23949		4	
	2	Cover	191-26424		3	
	1	End Cap	191-24625		2	
	8	Hex. Soc. Head Cap Screw	2640-100	DIN-912-1/4" UNC x 1/2"	1	
	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung :
				Gez.		Mould Holder Insert
				Gep.		
						Zeichnungs- Nr.:
						0791-91891
		Zust.	Änderung	Datum	Name	

Verti - Flow Cooling – Single Deck DG 5 1/2"

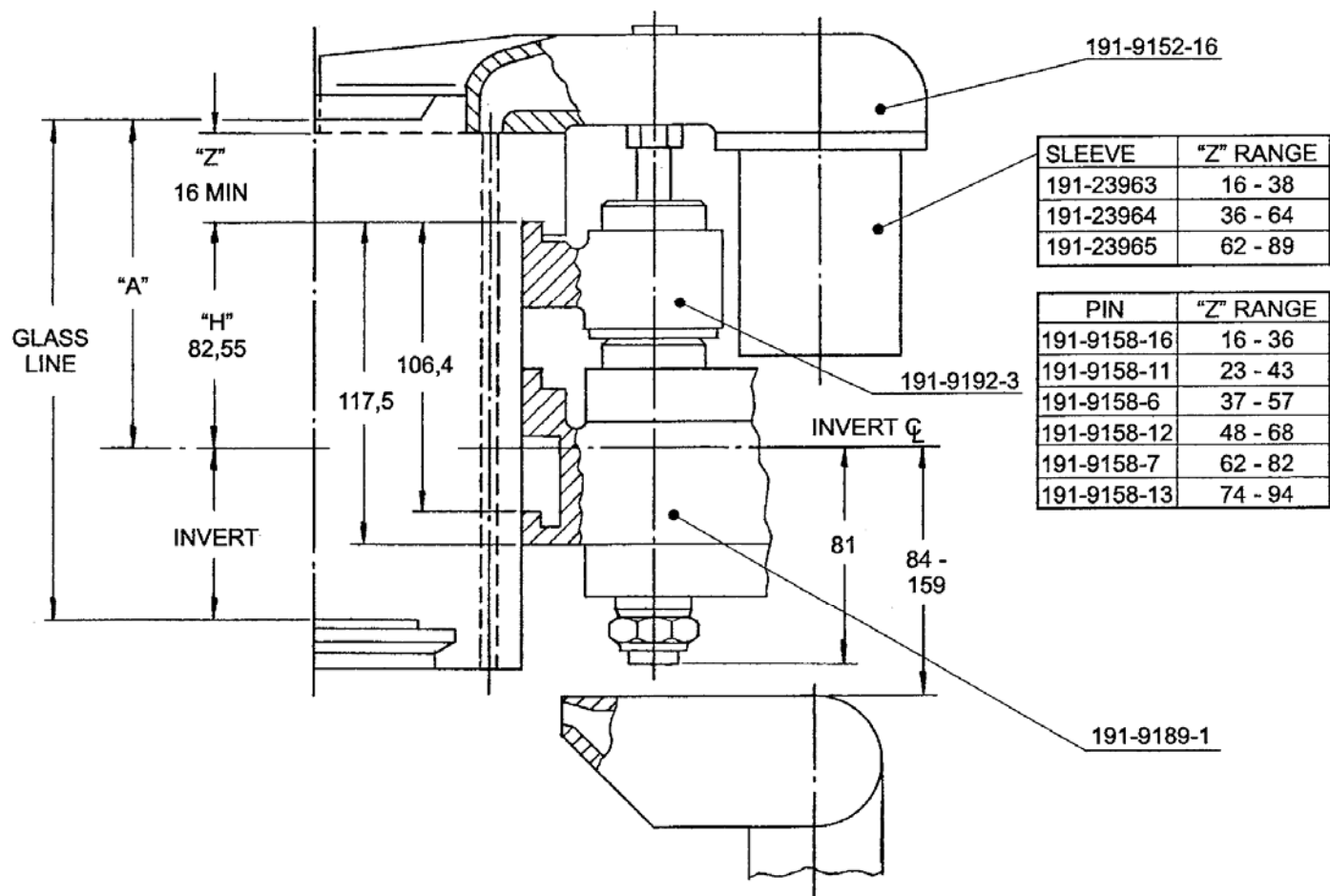


1	Plenum Chamber Assembly		191-9152 Gr.4		0791-9152-4	2	Single Deck
1	Mounting Assembly		191-9150 Gr.9		0791-9150-9	1	Single Deck
Qty. 1/unit	Description		IS Part No.		H&B Order No.	Index	Note
				Datum	Name		
			Gez.				
			Gep.				
			Verti – Flow Cooling DG 5 1/2” Single Deck Blank Mould Holder Plenum Chamber Assembly 6“ Moulds				
Änderung	Datum	Name					
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 - 72 65396 Walluf am Rhein				

191-9150 Gr.9	Mounting Assembly			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/unit</i>
	Blank Mould Holder	23-171 Gr.5	0723-171-5	1 pcs.
	Mould Holder Insert Assy.	191-9189 Gr.1	0791-9189-1	1 pair
	Upper Air Tube Assy.	191-9148 Gr.3	0791-9148-3	2 set
	Control Pin	191-24077	0791-24077	2 pcs.
	Sleeve Pin	191-24627	0791-24627	2 pcs.
	Circlip	2540-513	9540-513	2 pcs.

191-9152 Gr.4	Plenum Chamber Assembly			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Plenum Chamber RH	191-24029	0791-24029	1 pcs.
	Plenum Chamber LH	191-24028	0791-24028	1 pcs.
	Adjustin Pin Assy.	191-9158 Gr.6	0791-9158-6	2 pcs.
	Sleeve	191-23961	0791-23961	2 pcs.
	Screw SOCHD 5/16NCX5/8	2640-1882	9640-1882	4 pcs.
	Washer	3360-371	7360-371	2 pcs.
	Hex. Jam Nut 1/2-20	1180-1770	7180-1770	2 pcs.
	Hex. Soc.Plug 1/8 NPT	2260-23	9260-23	4 pcs.
	Compression Spring	3080-468	7080-468	2 pcs.
	Adjusting Bushing Assy.	191-9161 Gr.1	0791-9161-1	2 pcs.
	Air Indicator Assy.	191-9153 Gr.1	0791-9153-1	2 pcs.
	Retaining Ring	191-23982	0791-23982	2 pcs.

Verti - Flow Cooling – Double Deck DG 5 1/2"

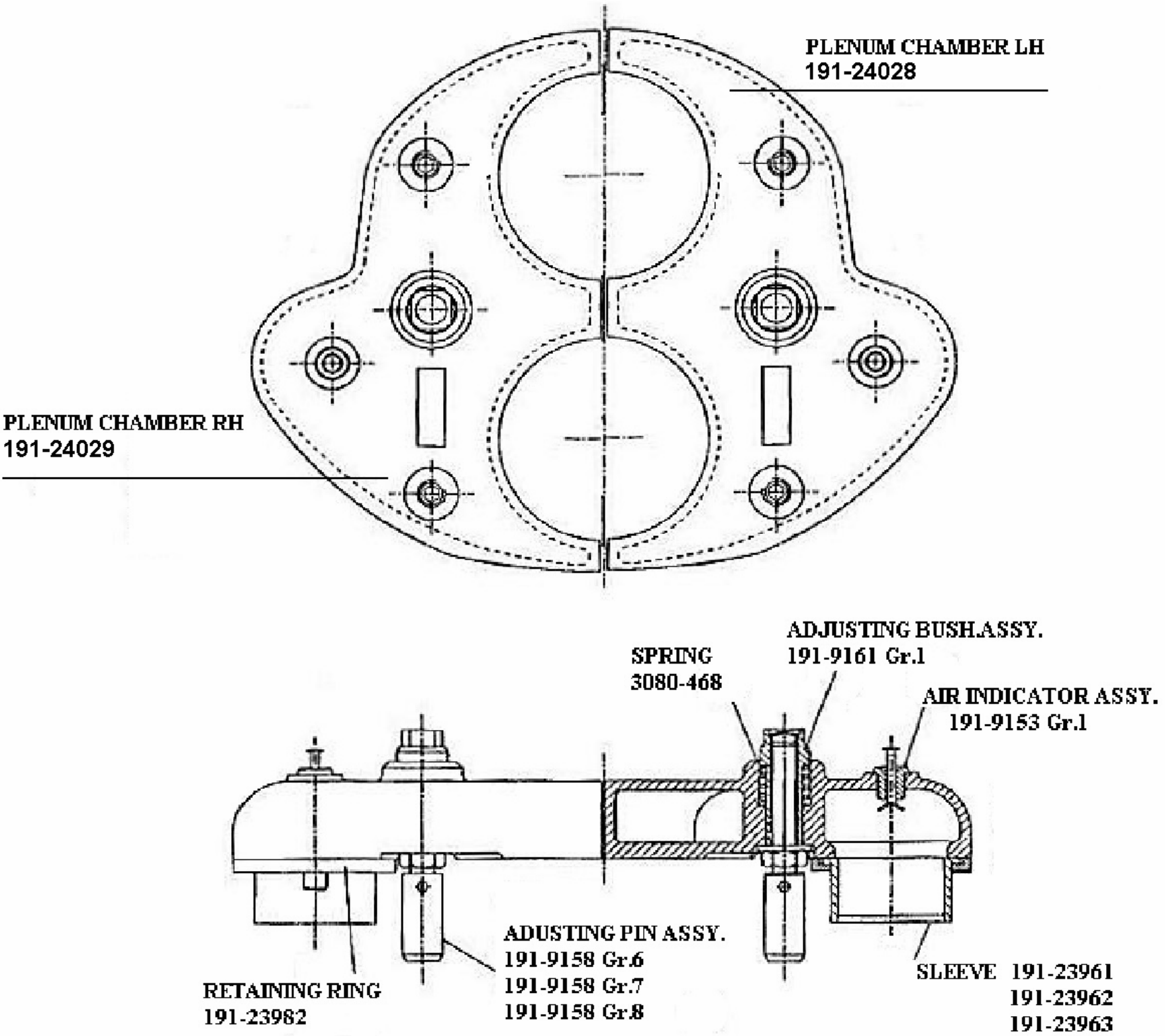


1	Plenum Chamber Assembly	191-9152 Gr.16	0791-9152-16	2	Double Deck
1	Mounting Assembly	191-9150 Gr.10	0791-9150-10	1	Double Deck
Qty. 1/unit	Description	IS Part No.	H&B Order No.	Index	Note
					Verti – Flow Cooling DG 5 1/2” Double Deck Blank Mould Holder Plenum Chamber Assembly 6“ Moulds
			Datum	Name	
			Gez.		
			Gep.		
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 - 72 65396 Walluf am Rhein		
Änderung	Datum	Name			

191-9150 Gr.10	Mounting Assembly			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blank Mould Holder	23-171 Gr.5	0723-171-5	1 pcs.
	Mould Holder Insert Assy.	191-9189 Gr.1	0791-9189-1	1 pair
	Mould Holder Insert Assy.	191-9192 Gr.3	0791-9192-3	1 pair
	Upper Air Tube Assy.	191-9148 Gr.3	0791-9148-3	2 set
	Control Pin	191-24616	0791-24616	2 pcs.
	Wear Washer	191-24612	0791-24612	2 pcs.
	Extension Pin	191-24611	0791-24611	2 pcs.
	Flex Loc Nut	1180-3036	7180-3036	2 pcs.
	Sleeve Pin	191-24627	0791-24627	2 pcs.
	Circlip	2540-513	9540-513	2 pcs.

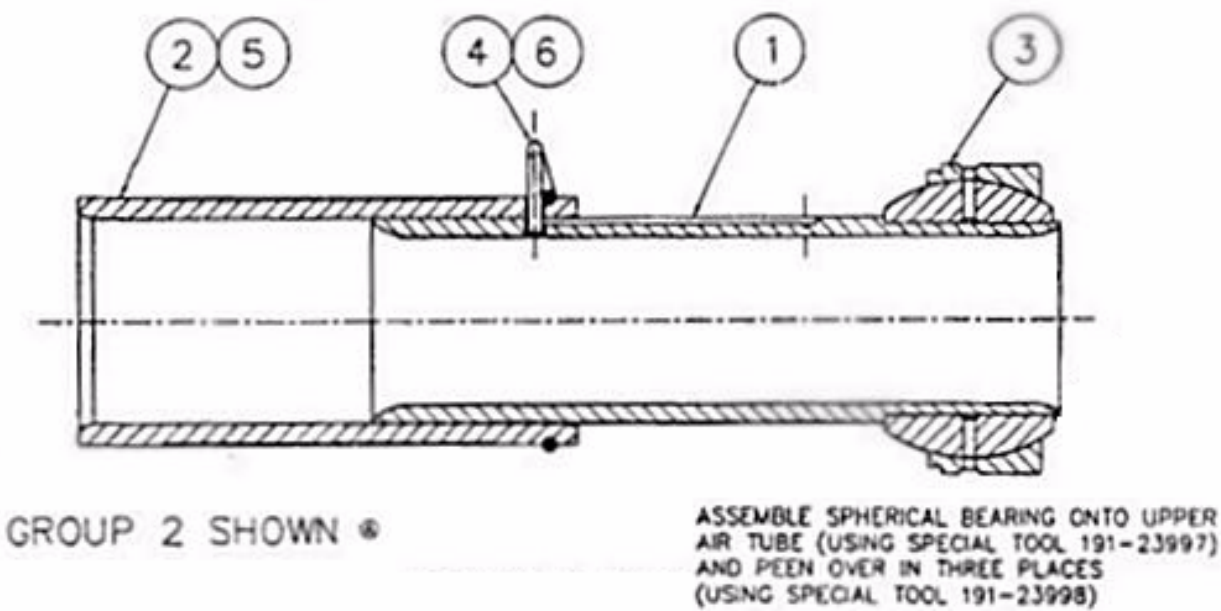
191-9152 Gr.16	Plenum Chamber Assembly			
<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Plenum Chamber RH	191-24029	0791-24029	1 pcs.
	Plenum Chamber LH	191-24028	0791-24028	1 pcs.
	Adjustin Pin Assy.	191-9158 Gr.6	0791-9158-6	2 pcs.
	Sleeve	191-23963	0791-23963	2 pcs.
	Screw SOCHD 5/16NCX5/8	2640-1882	9640-1882	4 pcs.
	Washer	3360-371	7360-371	2 pcs.
	Hex. Jam Nut 1/2-20	1180-1770	7180-1770	2 pcs.
	Hex. Soc.Plug 1/8 NPT	2260-23	9260-23	4 pcs.
	Compression Spring	3080-468	7080-468	2 pcs.
	Adjusting Bushing Assy.	191-9161 Gr.1	0791-9161-1	2 pcs.
	Air Indicator Assy.	191-9153 Gr.1	0791-9153-1	2 pcs.
	Retaining Ring	191-23982	0791-23982	2 pcs.

Verti - Flow Cooling – Plenum Chamber Assembly DG 5 1/2”



				Datum	Name	Verti – Flow Cooling DG 5 1/2” Plenum Chamber Assembly 0791-9152-4 (Single Deck) 0791-9152-16 (Double Deck)
			Gez.			
			Gep.			
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 - 72 65396 Walluf am Rhein			
Änderung	Datum	Name				

Verti - Flow Cooling –Upper Air Tube Assembly

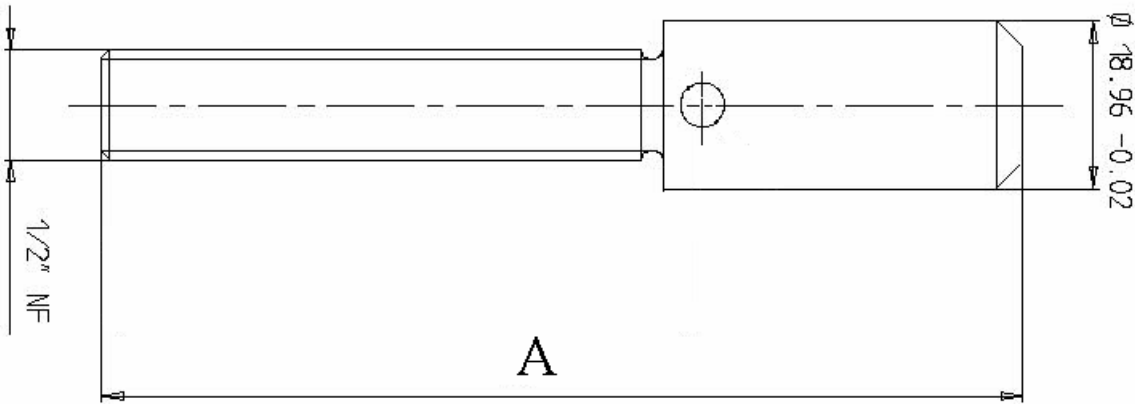


1	Spring Clip	191-24012	0791-24012	6	Gr.1
1	Connecting Sleeve	191-24003	0791-24003	5	Gr.2
1	Spring Clip	191-23945	0791-23945	4	Gr.2
1	Spherical Bearing	48-93060	0748-93060	3	Gr.1 ; Gr.2 ; Gr.3
1	Connecting Sleeve	191-26971	0791-26971	2	Gr.1
1	Upper Air Tube	191-23943	0791-23943	1	Gr.1 ; Gr.2 ; Gr.3
Qty. 1/unit	Description	IS Part No.	H&B Ident No.	Index	Note
					Verti – Flow Cooling DG 5” Upper Air Tube Assembly 0791-9148
		Datum	Name		
		Gez.			
		Gep.			
		Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 - 72 65396 Walluf am Rhein			
Änderung	Datum			Name	

Verti - Flow Cooling –Adjusting Pin Assembly

Note :

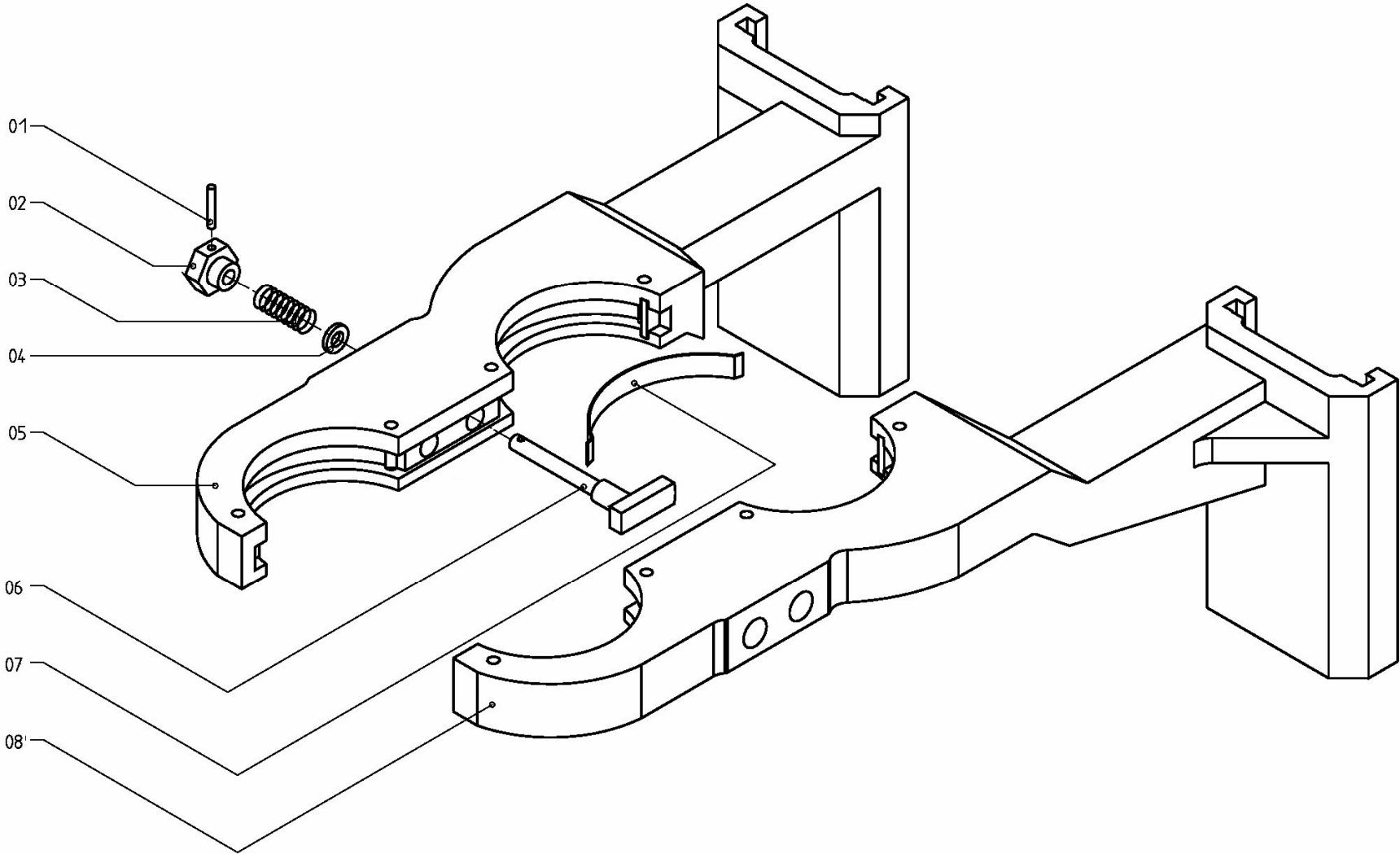
Part No.	“Z“ Range
191-9158 Gr.8	68 – 88 mm
191-9158 Gr.7	38 – 68 mm
191-9158 Gr.6	16 – 38 mm



2	Adjusting Pin Assembly	191-9158 Gr.8	0791-9158-8	1	A = 6 1/8 (155,6 mm)	
2	Adjusting Pin Assembly	191-9158 Gr.7	0791-9158-7	1	A = 5 1/8 (130,2 mm)	
2	Adjusting Pin Assembly	191-9158 Gr.6	0791-9158-6	1	A = 4 1/8 (104,8 mm)	
Qty. 1/unit	Description	IS Part No.	H&B Ident No.	Index	Note	
		Datum	Name	Verti – Flow Cooling DG 5” Adjusting Pin Assembly 0791-9158		
		Gez.				
		Gep.				
		Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 - 72 65396 Walluf am Rhein				
Änderung	Datum					Name

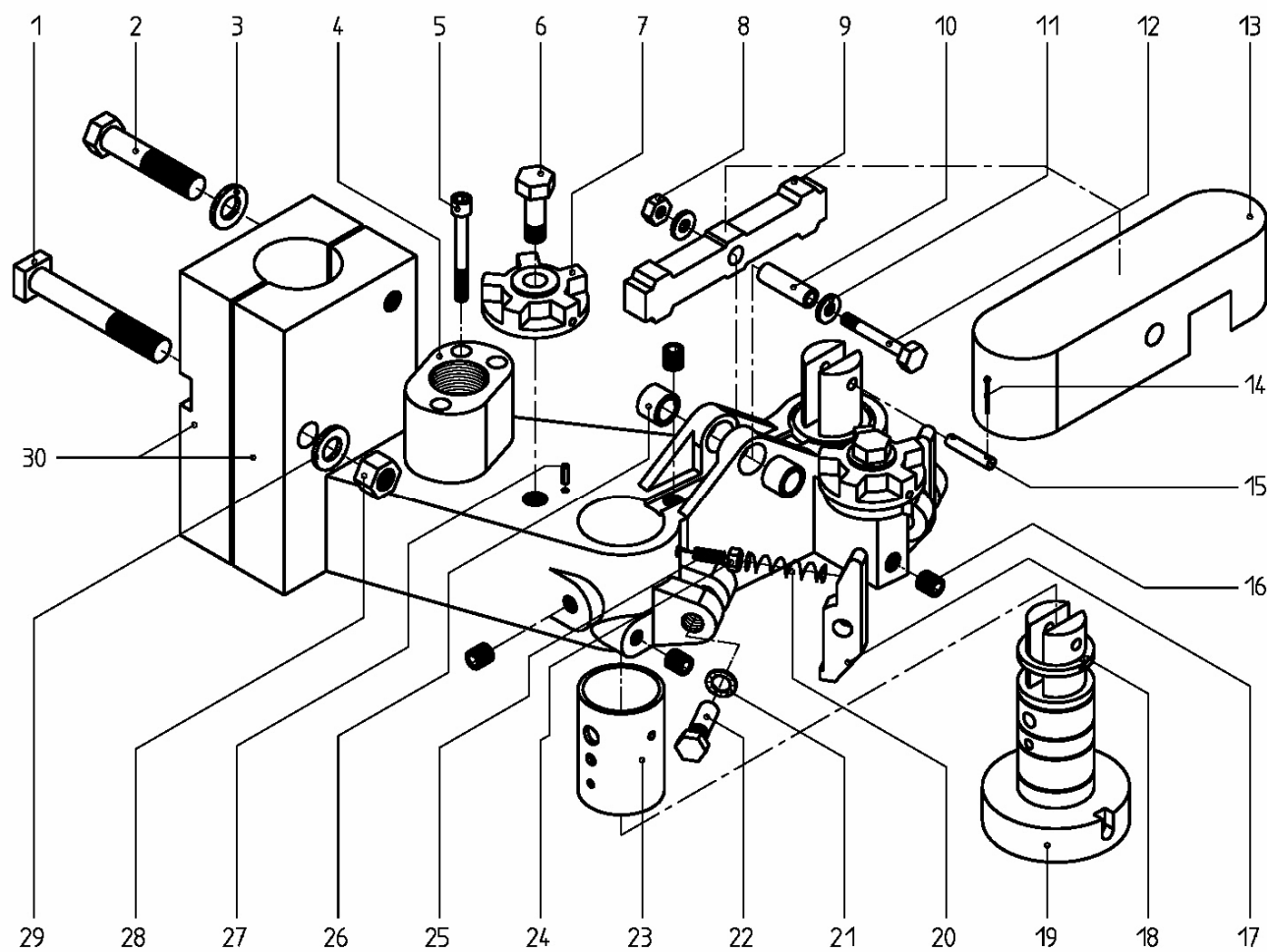
Neck Ring Holders DG 5 1/2"

Description	IS-Part No.	H&B-Order No.
Neck Ring Holder 70 mm Offset	23-1404 Gr.1	0723-1404-1
Neck Ring Holder 70 mm Straight	0723-1407-1	0723-1407-1



		4	Woodruff Stop (not shown)	23-6918	0723-6918	9	
		1	Neck Ring Arm LH - offset		On request	8	
		1	Neck Ring Arm LH - straight		1284-213	8	
		4	Leaf Spring	23-5527	1284-086	7	
		4	Lock	23-6660	0723-6660	6	
		1	Neck Ring Arm RH - offset		On request	5	
		1	Neck Ring Arm RH - straight		1284-212	5	
		4	Spacer	23-8810	0723-8810	4	
		4	Spring	191-10032	0791-10032	3	
		4	Knob	23-10911	0723-10911	2	
		4	Straight Pin		DIN-1481-2,5 x 18	1	
23-1407 70 mm.	23-1404 70 mm	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
O F F S E T	S T R A I G H T		Hartmann & Bender Vertriebs – und Produktionsgesellschaft mbH Hauptstraße 70 - 72 65396 Walluf am Rhein		Neck Ring Holders DG 5 1/2" 70 mm DIA. 0723-1404-1 0723-1407-1		

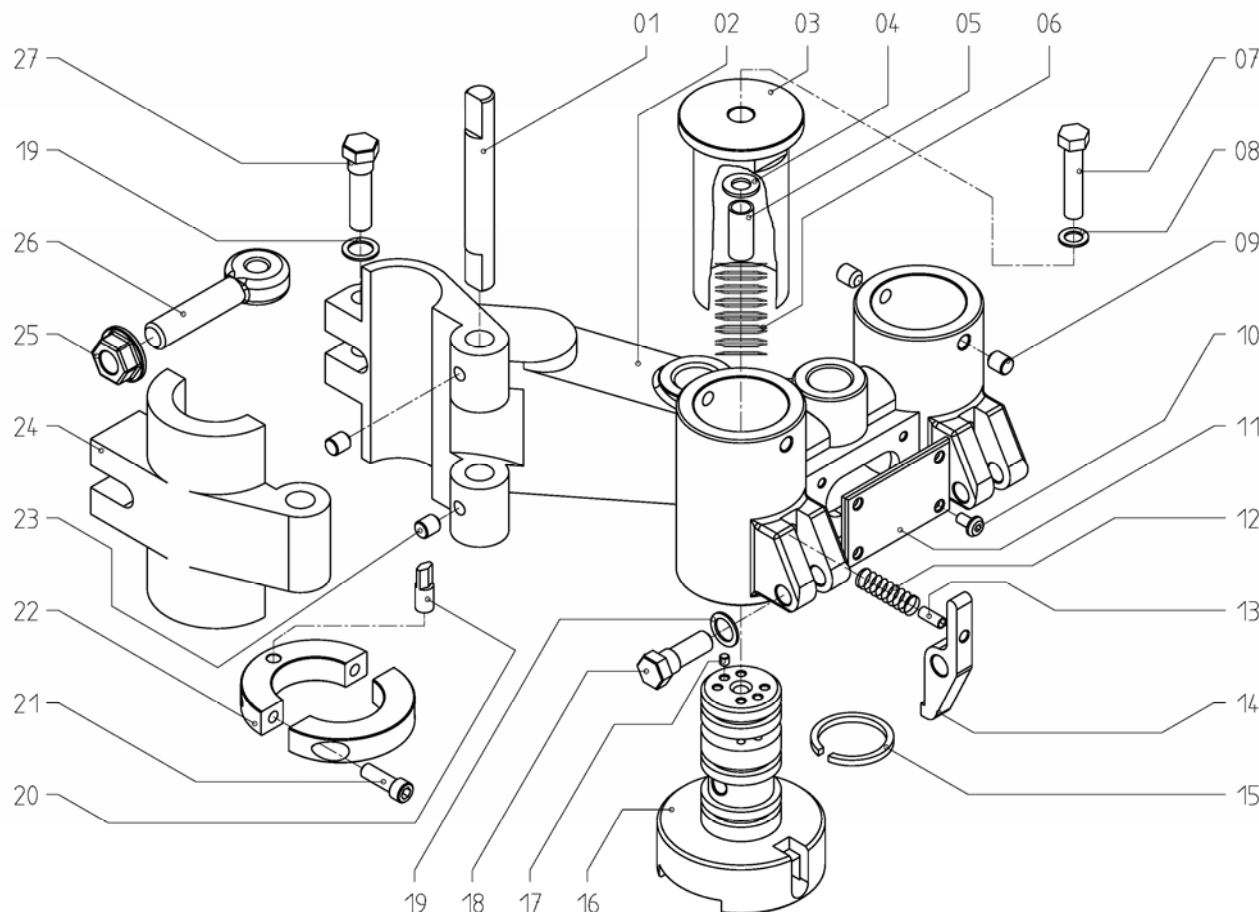
Lightweight Blow Head Arm DG 5 1/2"



		1	Housing & Cap		0723-1796 -1-H&B	30	
		1	Washer		DIN-125-13	29	
		1	Hex Nut	1180-1601	7180-1601	28	
		2	Straight Pin		DIN-1481- 3 x 12	27	
		2	Steel – Bushing		H&B-02002	26	
		2	Hex. Socket Set Screw		DIN-915-1/4“UNC x 1“	25	
		2	Nylon Insert Stop Nut		DIN-985-1/4“ UNC	24	
		2	Bushing	23-5830	0723-5830	23	
		2	Shoulder Screw M 12 x 1,5 x 30 substitute for 191-23500		H&B-01925 DIN 961	22	
		2	Lock Washer		H-1235-12	21	
		2	Compression Spring substitute for 191-23397		H&B-01836	20	
		2	Lock Ring	191-14844	0791-14844	19	
		8	Piston Ring 38,1 x 3,17	2520-40	9520-40	18	
		2	Spec. Finger substitute for 191-23372		H&B-01926	17	
		8	Plug		DIN-906 – R 1/8	16	
		2	Pin	191-14321	0791-14321	15	
		4	Cotter Pin		DIN-94 –2,5 x 14	14	
		1	Guard	23-5271	0723-5271	13	
		1	Hexagon Head Cap Screw		DIN-931-1/4“NC x 2 1/2“	12	
		2	Washer		DIN-134 – 6,4	11	
		1	Pin	23-5274	0723-5971	10	
		1	Equalizer	23-5971	0723-5971	9	
		1	Nylon Insert Stop Nut		DIN-985-1/4“ UNC	8	
		2	Exhaust Valve	23-5273	0723-5273	7	
		2	Hexagon Head Cap Screw		DIN-9313/8“ NC x 1 3/4“	6	
		3	Hex. Soc.Head Cap Screw		DIN-912-1/4“NC x 1 3/4“	5	
		1	Segment for Internal Cooling		H&B-01786	4	
		2	Washer		DIN-125-13	3	
		2	Hexagon Head Cap Screw DIN 931		1/2“UNC x 2 1/2“	2	
		1	SquareHeadBolt 1/2“ UNC x 3 3/4“	191-16144-A	0791-16144-A	1	
		Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Blow Head Arm DG 5 1/2"
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions -GmbH Hauptstraße 70 72 Walluf am Rhein	Zeichnungs- Nr.:	
						0723-45-9	
			Zust.	Änderung	Datum	Name	

Blow Head Arm Hinge Type- DG 5 1/2” - Cast Iron

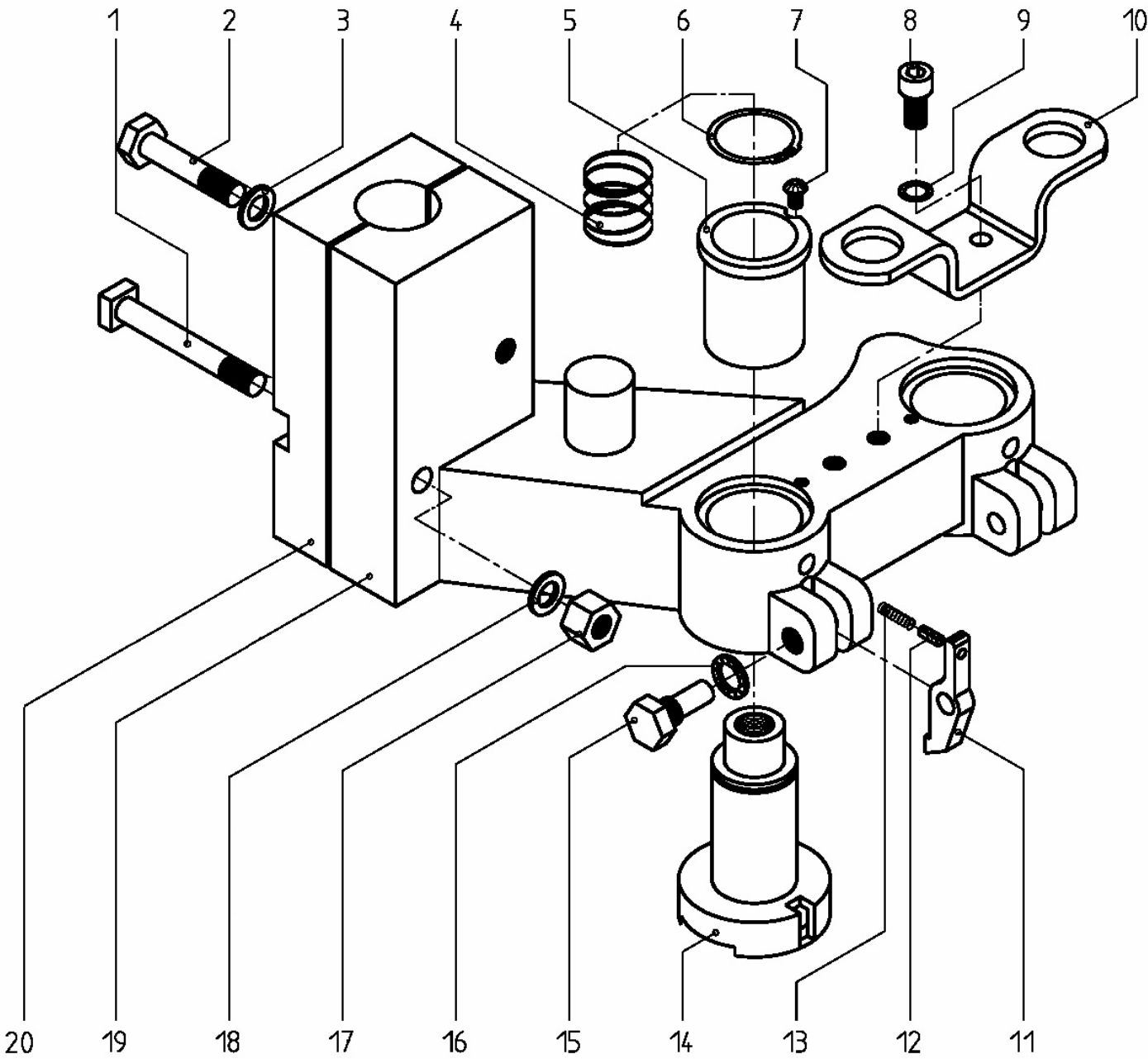
Description						IS-Part No.	H&B-Order No.
Blow Head Arm							H%B-83550-01



x	x	x	x	1	Screw	H&B-16790	27
x	x	x	x	1	Joint Screw	H&B-C-1035	26
x	x	x	x	1	Nut	H&B-C-1035-1	25
x	x			1	Cap DG 5 1/2", DG 6 1/4"	1284-183	24
		x	x	1	Cap DG 4 1/4", DG 5"	1284-157	24
x	x	x	x	2	Plug	DIN-916-5/16NC x 3/8"	23
x	x	x	x	1	Split Ring	H&B-83425-05	22
x	x	x	x	1	Screw	DIN-912-1/4NFx3/4"	21
x	x	x	x	1	Centering Pin	H&B-83425-08	20
x	x	x	x	4	Lock Washer	H-1235-10	19
x	x	x	x	2	Screw	H&B-1671	18
x	x	x	x	12	Plug	DIN-916-8-32-NC x 3/16"	17
x	x	x	x	2	Lock Ring	H&B-83425-03	16
x	x	x	x	6	Piston Ring	2520-30	15
x	x	x	x	2	Finger	H&B-83425-02	14
x	x	x	x	2	Straight Pin	DIN-1481-5x12	13
x	x	x	x	2	Compression Spring	600-708-522-3	12
x	x	x	x	1	Sealing Plate	H&B-83425-07	11
x	x	x	x	4	Screw	ISO-7380-10-24-NCx3/8"	10
x	x	x	x	4	Plug	DIN-916-5/16NC x 3/8"	9
x	x	x	x	2	Washer	DIN-125-8	8
x	x	x	x	2	Screw	DIN-931-5/16NC x1 1/2"	7
x	x	x	x	28	Connical Spring Washer	H&B-83425-03-A	6
x	x	x	x	2	Tube	H&B-83425-09	5
x	x	x	x	2	Washer	DIN-125-8	4
x	x	x	x	2	Bushing	H&B-83425-04	3
x				1	Body DG 6 1/4"	1284-182	2
	x			1	Body DG 5 1/2"	on Request	2
		x		1	Body DG 5"	on Request	2
			x	1	Body DG 4 1/4"	1284-158	2
x	x	x	x	1	Pivot Pin	H&B-83425-06	1
6 1/4"	5 1/2"	5"	4 1/4"	Qty.	Description	H&B-Order No.	Index
						Datum	Blow Head Arm Hinge Type Slim Line
				Gez.			
				Gep.			
				Hartmann & Bender			Type
				Vertriebs - und		H&B-83425-01	DG 4 14"
				Produktions - GmbH		H&B-83500-01	DG 5"
				Hauptstraße 70 72		H&B-83550-01	DG 5 1/2"
	Änderung	Datum	Name	Walluf am Rhein		H&B-83625-01	DG 6 1/4"

Blow Head Arm DG 5” – Lightweight for direct connecting of flexible hoses at both lock rings
without finish cooling

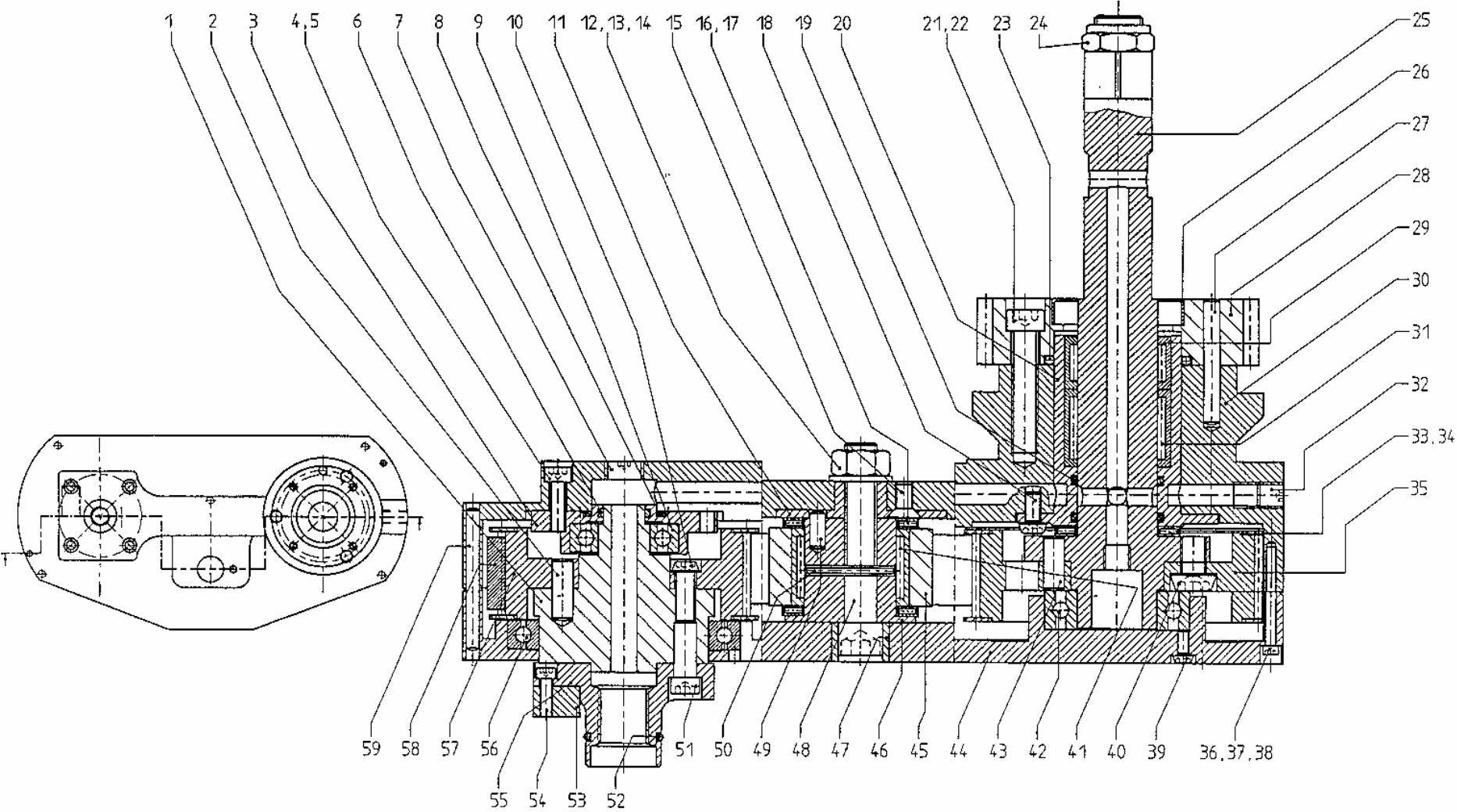
Description	IS-Part No.	H&B-Order No.
Blow Head Arm		H&B-550-001



	1	Cap		H&B-01209	20	
	1	Body		H&B-01210	19	
	1	Washer		DIN-125-13	18	
	1	Hex Nut	1180-1601	7180-1601	17	
	2	Lock Washer		H-1235-14	16	
	2	Shoulder Screw		H&B-01336	15	
	2	Lock Ring		H&B-500-002	14	
	2	Compression Spring		0600-708-522-3	13	
	2	Straight Pin		DIN-1481- 5 x 12	12	
	2	Finger		0400-706-575-10	11	
	1	Spring Guide		H&B-550-004	10	
	2	Lock Washer		H-1235-10	9	
	2	Hex. Soc. Hd. Cap Screw		DIN- 912-3/8“UNC x 3/4“	8	
	2	Button Soc. Cap Screw		ISO-7380-1/4“UNC x 3/8“	7	
	2	Retaining Ring DIN 471		9540-190-42	6	
	2	Bushing		H&B-500-003	5	
	2	Compression Spring		0600-708-522-4	4	
	2	Washer		DIN-125 – 13	3	
	2	Hex Hd. Cap Screw		DIN-931-1/2“ NC x 2 1/2“	2	
	1	Square Head Bolt 1/2“ UNC x 3 3/4“		0791-16144-A	1	
	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Zeichnungs- Nr.:
				Gez.		H&B-550-001
				Gep.		
				Hartmann & Bender		Benennung :
				Vertriebs - und		Lightweight Blow Head Arm DG 5 1/2“
				Produktions - GmbH		for direct connecting of flexible hoses
				Hauptstraße 70 72		at both lock rings without neck ring cooling.
				Walluf am Rhein		
Index 7 war 1/4“ UNC x 5/8“			28.05.99	K. Wolff		
	Zust.	Änderung	Datum	Name		

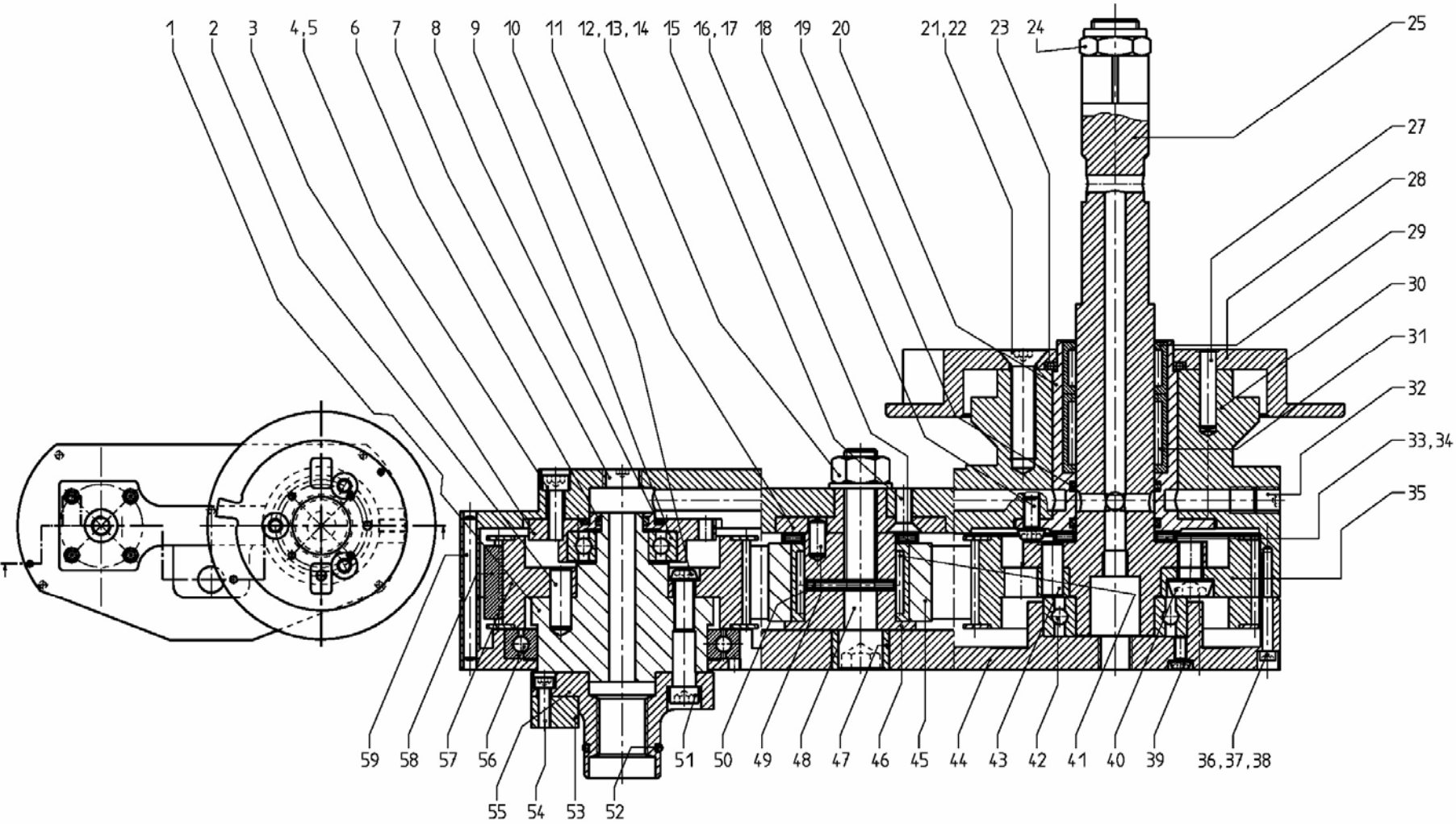
Take Out Tong Arm Belt Drive

Description	IS-Part No.	H&B-Order No.
Take Out Tong Arm Belt Drive		H&B-72550-06



Description	IS-Part No.	H&B-Order No.
Take Out Tong Arm Belt Drive valid for Bottero Servo – Take Out Mechanism		H&B-72550-07

Take Out Tong Arm
Bottero Servo Take Out



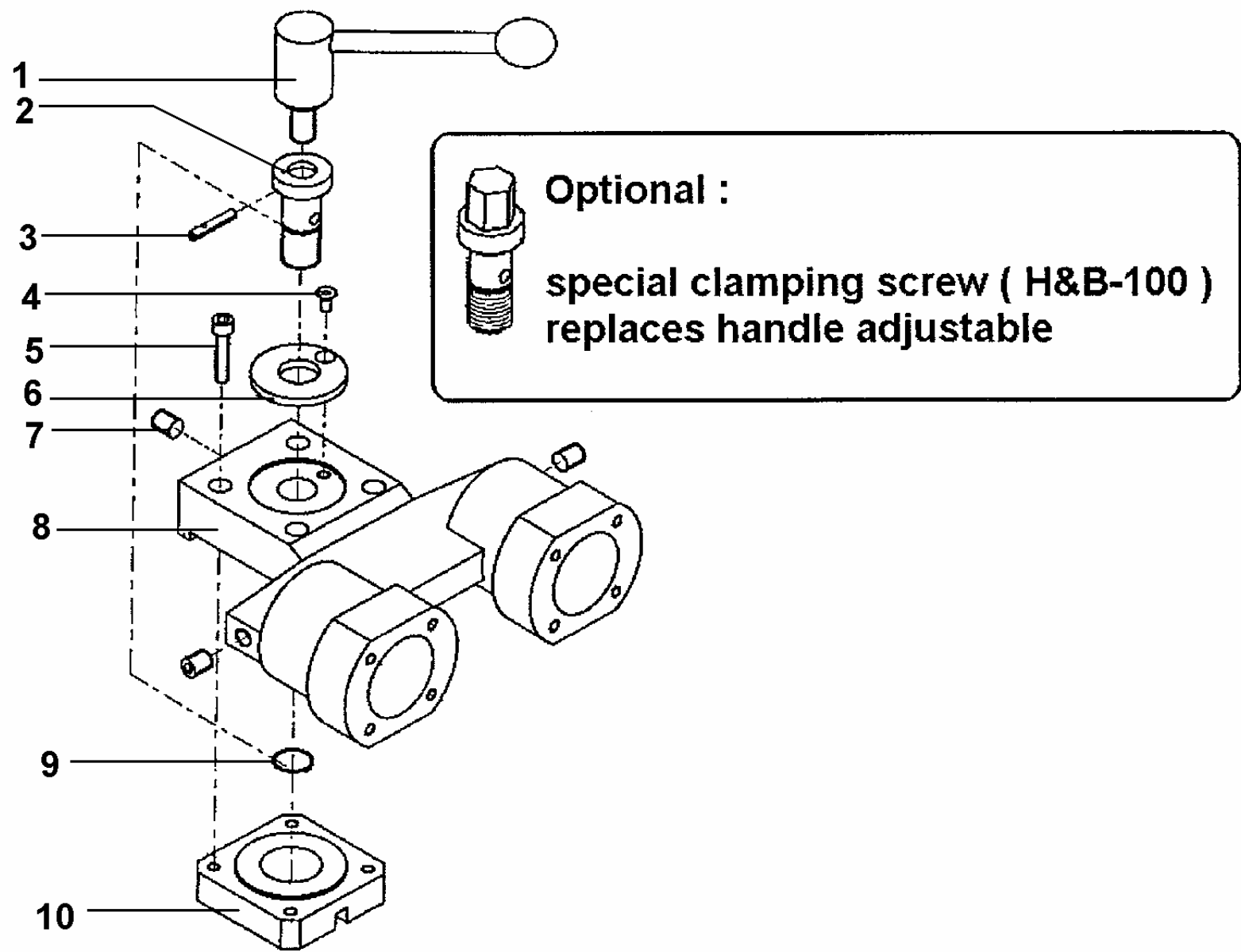
Description						IS-Part No.	H&B-Order No.
Take Out Tong Arm Belt Drive – Spare Parts List							H&B-72550-06
x	x	x	x	2	Button Sc.Cp.Screw	ISO 7380-10-24 .NC x 1/8“	n.shown
x	x	x	x	2	Hx.Sc.Set Screw	DIN 915- 5/16“ NC x 1“	n.shown
x	x	x	x	2	Pin	DIN 6325- 5 x 55	59
x	x			1	Belt Type CXA 8 M x 28 x 800	H&B-82533	58
		x	x	1	Belt Type CXA 8 M x 28 x 640	H&B-82433	58
x				1	Rear Pulley	H&B-72630	57
x	x			1	Rear Pulley	H&B-72530	57
		x	x	1	Rear Pulley	H&B-72430	57
x	x	x	x	1	Ball Bearing	61913 TNH	56
x	x	x	x	1	Adapter 191-26773	0791-26773	55
x	x	x	x	1	Hx.Sc.Hd.Cp.Screw	DIN 912-10-24 G.NC x 1/2“	54
x	x	x	x	1	Key 191-26458	0791-26458	53
x	x	x	x	1	O - Ring ,Viton 1700-912	7700-912	52
x	x	x	x	3	Hx.Sc.Hd.Cp.Screw	DIN 912- 5/16“ NC x 3/4“	51
x	x	x	x	1	Straight Pin	DIN 1481- 4 x 30	50
x	x	x	x	1	Pin	DIN 6325- 6 x 14	49
x	x	x	x	1	Eccentric Hd.Cp.Screw	H&B-72446	48
x	x	x	x	1	Bushing (17 x 22 x 13 mm)	H&B-72447	47
x	x	x	x	1	Eccentric Shaft	H&B-82445	46
x	x	x	x	1	Idler Pulley , improved Material : 1.4021	H&B-82431	45
x				1	Cover	H&B-72602	44
	x			1	Cover	H&B-72552	44
		x		1	Cover	H&B-72502	44
			x	1	Cover	H&B-72427	44
x	x	x	x	1	Pin	DIN 6325 -8 x 20	43
x	x	x	x	1	Ball Bearing	6006	42
x	x	x	x	1	Needle Bearing	NK 35/30	41
x	x	x	x	3	Button Sc.Cp.Screw	ISO 7380- 3/8“ NC x 1/2“	40
x	x	x	x	3	Button Sc.Cp.Screw	ISO 7380- 10 - 24 G.x 3/8“	39
x	x	x	x	5	Hx.Sc.Hd.Cp.Screw	DIN 912-1/4“ UNC x 1 1/4“	38
x	x	x	x	5	Lock Washer	H 1235- 1/4“	37
x	x	x	x	9	Helicoil Typ Standard (Item.18 & 38)	1/4“ - 20 G.x 3,0 D	36
x				1	Front Pulley	H&B-72629	35
	x			1	Front Pulley	H&B-72529	35
		x	x	1	Front Pulley	H&B-72429	35
x	x	x	x	2	Axial Washer	AS-3047	34
x	x	x	x	1	Axial Needle Bearing	AXK-3047	33
x	x	x	x	1	Plug	DIN 906-R 1/8“	32
x	x	x	x	1	Needle Bearing	NK 30/30	31
x				1	Housing	H&B-72601	30
	x			1	Housing	H&B-72551	30
		x		1	Housing	H&B-72501	30
			x	1	Housing	H&B-72426	30
x	x	x	x	1	Needle Bearing	NK 30/20	29
x	x	x	x	1	Drive Gear	H&B-72444	28
x	x	x	x	1	Pin	DIN 7-6,35 x 48	27
x	x	x	x	1	Seal Ring Viton	H&B-72448	26
x	x	x	x	1	Drive Shaft	H&B-72442	25
x	x	x	x	1	Flex Loc Nut (3/4“ UNF)	1180-3036	24
x	x	x	x	1	O - Ring ,Viton	48 x 3,5	23
x	x	x	x	3	Helicoil Typ Standard	3/8“ - 16 G.x 2,0 D	22
x	x	x	x	3	Hx.Sc.Hd.Cp.Screw	DIN 912-3/8“ UNC x 1 1/2“	21
x	x	x	x	1	Front Bushing	H&B-72440	20
x	x	x	x	2	O - Ring ,Viton	30 x 2,5	19
x	x	x	x	4	Button Sc.Cp.Screw	ISO 7380-1/4“ NC x 1/2“	18
x	x	x	x	4	Axial Washer	AS-3552	17
x	x	x	x	2	Axial Needle Bearing	AXK-3552	16
x	x	x	x	1	Count.Sc.Hd.Screw	DIN 7991-1/4“ UNC x 5/8“	15
x	x	x	x	1	Hex Nut	DIN 934-1/2“ UNC	14
x	x	x	x	1	Lock Washer	H 1235-1/2“	13
x	x	x	x	1	Washer	DIN 134-13	12
x	x	x	x	1	Eccenter - Stop - Bushing	H&B-82439	11
x	x	x	x	4	Spec.Button Sc.Cp.Screw	H&B-01835 (5/16“ NC x 5/8“)	10
x	x	x	x	1	Ball Bearing	6004	9
x	x	x	x	1	O - Ring ,Viton	27 x 2,5	8
x	x	x	x	1	Plug	DIN 906-R 3/8“	7
x	x	x	x	1	Quad Ring	15,55 x 2,62	6
x	x	x	x	4	Lock Washer	H 1235-1/4“	5
x	x	x	x	4	Hx.Sc.Hd.Cp.Screw	DIN 912-1/4“ UNC x 3/4“	4
x	x	x	x	1	Pilot Bushing	H&B-72441	3
x	x	x	x	1	Pin	DIN 6325 -8 x 24	2
x	x			1	Rear Shaft	H&B-72543	1
		x	x	1	Rear Shaft	H&B-72443	1
6“	5 1/2“ 6 /4“	5“	4 1/4“	Qty.	Description	H&B Order No.	Index
H&B*72600	H&B*72550	H&B*72500	H&B*72425		Take Out Tong Arm Belt Drive Vertriebs und Produktionsgesellschaft mbH Hartmann & Bender	H&B-72425-06 H&B-72500-06 H&B-72550-06 H&B-72600-06	

Description	IS-Part No.	H&B-Order No.
Take Out Tong Arm Belt Drive for Bottero Servo Take Out – Spare Parts List		H&B-72500-07

x	x	x	2	Button Sc.Cp.Screw	ISO 7380-10-24 .NC x 1/8“	n.shown
x	x	x	2	Hx.Sc.Set Screw	DIN 915- 5/16“ NC x 1“	n.shown
x	x	x	2	Pin	DIN 6325- 5 x 55	59
x			1	Belt Type CXA 8 M x 28 x 800	H&B-82533	58
	x	x	1	Belt Type CXA 8 M x 28 x 640	H&B-82433	58
x			1	Rear Pulley	H&B-72530	57
	x	x	1	Rear Pulley	H&B-72430	57
x	x	x	1	Ball Bearing	61913 TNH	56
x	x	x	1	Adapter 191-26773	0791-26773	55
x	x	x	1	Hx.Sc.Hd.Cp.Screw	DIN 912-10-24 G.NC x 1/2“	54
x	x	x	1	Key 191-26458	0791-26458	53
x	x	x	1	O - Ring ,Viton 1700-912	7700-912	52
x	x	x	3	Hx.Sc.Hd.Cp.Screw	DIN 912- 5/16“ NC x 3/4“	51
x	x	x	1	Straight Pin	DIN 1481- 4 x 30	50
x	x	x	1	Pin	DIN 6325- 6 x 14	49
x	x	x	1	Eccentric Hd.Cp.Screw	H&B-72446	48
x	x	x	1	Bushing (17 x 22 x 13 mm)	H&B-72447	47
x	x	x	1	Eccentric Shaft	H&B-82445	46
x	x	x	1	Idler Pulley , improved Material : 1.4021	H&B-82431	45
x			1	Cover	H&B-72552	44
	x		1	Cover	H&B-72502	44
		x	1	Cover	H&B-72427	44
x	x	x	1	Pin	DIN 6325 -8 x 20	43
x	x	x	1	Ball Bearing	6006	42
x	x	x	1	Needle Bearing	NK 35/30	41
x	x	x	3	Button Sc.Cp.Screw	ISO 7380- 3/8“ NC x 1/2“	40
x	x	x	3	Button Sc.Cp.Screw	ISO 7380- 10 - 24 G.x 3/8“	39
x	x	x	5	Hx.Sc.Hd.Cp.Screw	DIN 912-1/4“ UNC x 1 1/4“	38
x	x	x	5	Lock Washer	H 1235- 1/4“	37
x	x	x	9	Helicoil Typ Standard (Item.18 & 38)	1/4“ - 20 G.x 3,0 D	36
x			1	Front Pulley	H&B-72529	35
	x	x	1	Front Pulley	H&B-72429	35
x	x	x	2	Axial Washer	AS-3047	34
x	x	x	1	Axial Needle Bearing	AXK-3047	33
x	x	x	1	Plug	DIN 906-R 1/8“	32
x	x	x	1	Needle Bearing	NK 30/30	31
x			1	Housing	H&B-72551	30
	x		1	Housing	H&B-72501	30
		x	1	Housing	H&B-72426	30
x	x	x	1	Needle Bearing	NK 30/20	29
x	x	x	1	Adapter	A707-9-51	28
x	x	x	1	Pin	DIN 7-6,35 x 48	27
x	x	x	1	Seal Ring Viton	H&B-72448	26
x	x	x	1	Drive Shaft	H&B-72442	25
x	x	x	1	Flex Loc Nut (3/4“ UNF)	1180-3036	24
x	x	x	1	O - Ring ,Viton	48 x 3,5	23
x	x	x	3	Helicoil Typ Standard	3/8“ - 16 G.x 2,0 D	22
x	x	x	3	Hx.Sc.Hd.Cp.Screw	DIN 912-3/8“ UNC x 1 1/2“	21
x	x	x	1	Soecial Front Bushing	H&B-72440-BT	20
x	x	x	2	O - Ring ,Viton	30 x 2,5	19
x	x	x	4	Button Sc.Cp.Screw	ISO 7380-1/4“ NC x 1/2“	18
x	x	x	4	Axial Washer	AS-3552	17
x	x	x	2	Axial Needle Bearing	AXK-3552	16
x	x	x	1	Count.Sc.Hd.Screw	DIN 7991-1/4“ UNC x 5/8“	15
x	x	x	1	Hex Nut	DIN 934-1/2“ UNC	14
x	x	x	1	Lock Washer	H 1235-1/2“	13
x	x	x	1	Washer	DIN 134-13	12
x	x	x	1	Eccenter - Stop - Bushing	H&B-82439	11
x	x	x	4	Spec.Button Sc.Cp.Screw	H&B-01835 (5/16“ NC x 5/8“)	10
x	x	x	1	Ball Bearing	6004	9
x	x	x	1	O - Ring ,Viton	27 x 2,5	8
x	x	x	1	Plug	DIN 906-R 3/8“	7
x	x	x	1	Quad Ring	15,55 x 2,62	6
x	x	x	4	Lock Washer	H 1235-1/4“	5
x	x	x	4	Hx.Sc.Hd.Cp.Screw	DIN 912-1/4“ UNC x 3/4“	4
x	x	x	1	Pilot Bushing	H&B-72441	3
x	x	x	1	Pin	DIN 6325 -8 x 24	2
x			1	Rear Shaft	H&B-72543	1
	x	x	1	Rear Shaft	H&B-72443	1
5 1/2“ 6 1/4“	5“	4 1/4“	Qty.	Description	H&B Order No.	Index
H&B-72550	H&B-72500	H&B-72425		Take Out Tong Arm Belt Drive BOTTERO – SERVO – TAKE - OUT Vertriebs und Produktionsgesellschaft mbH Hartmann & Bender	H&B-72425-07 H&B-72500-07 H&B-72550-07	

Q.C. Take Out Tong Head Assembly DG 5 1/2”

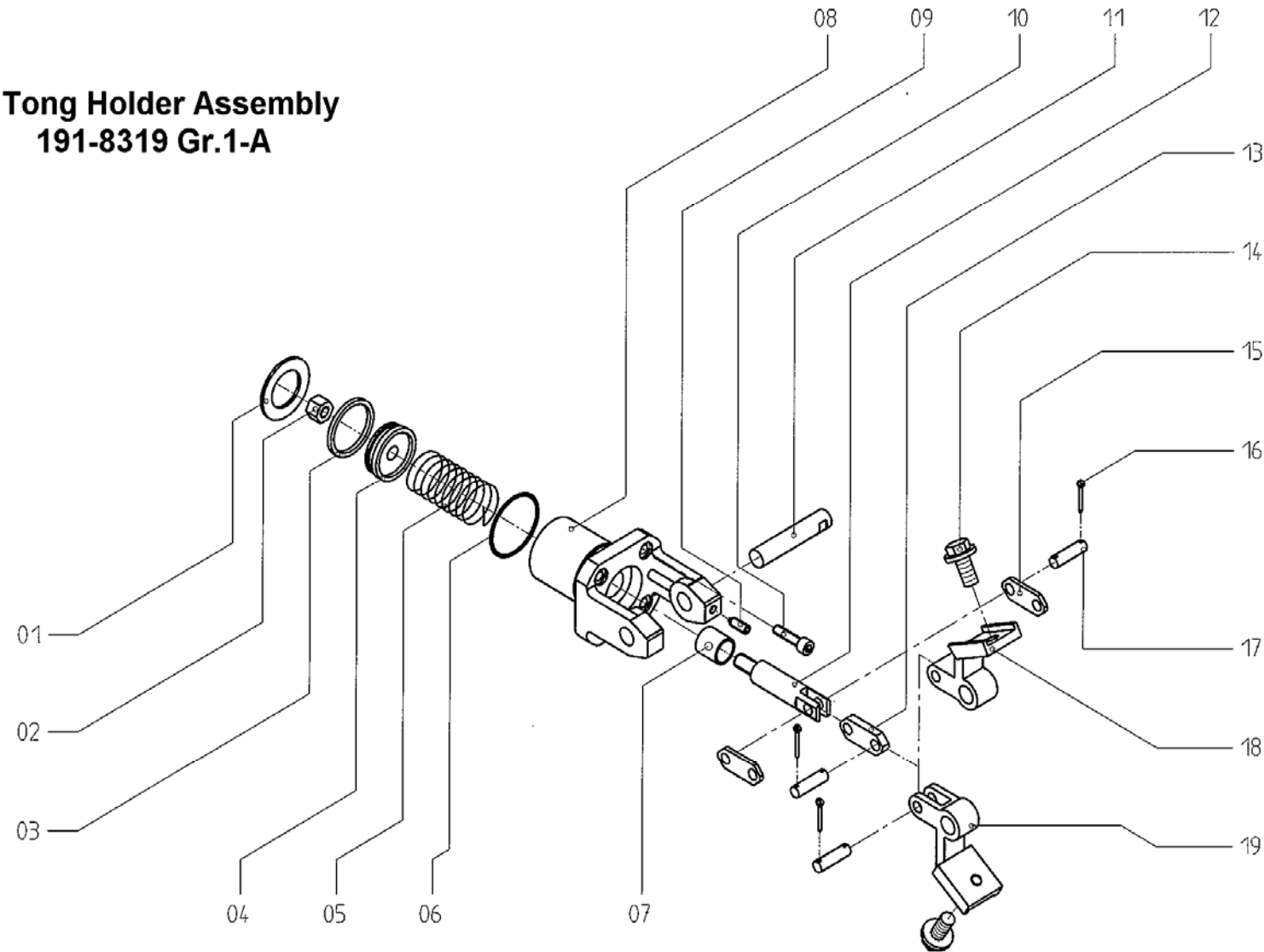
Description	IS-Part No.	H&B-Order No.
Q.C.Take Out Tong Head Assembly DG 5 1/2”	191-9125 Gr.23	0791-9125-23
Q.C.Take Out Tong Head Assembly DG 5 1/2” Anti Wink	210-275 Gr.17	7210-275-17



1	Adapter Plate	191-26127	0791-26127	10			
1	Retaining Ring	2540-541	9540-541	9			
1	Body 4 1/4 TG	191-24416	0791-24416	8	0791-9125-21 / 7210-275-20		
1	Body 3” TG	191-24413	0791-24413	8	0791-9125-18 / 7210-275-19		
1	Body 5 1/2 SG	191-24412	0791-24412	8	0791-9125-16 / 7210-275-13		
1	Body 5” SG	191-24444	0791-24444	8	0791-9125-17 / 7210-275-12		
1	Body 4 1/4 SG	191-24411	0791-24411	8	0791-9125-15 / 7210-275-11		
1	Body 6 1/4 DG	191-24420	0791-24420	8	0791-9125-25 / 7210-275-18		
1	Body 6” DG	191-24419	0791-24419	8	0791-9125-24 / 7210-275-21		
1	Body 5 1/2 DG	191-24418	0791-24418	8	0791-9125-23 / 7210-275-17		
1	Body 5” DG	191-24417	0791-24417	8	0791-9125-22 / 7210-275-16		
1	Body 4 1/4 DG	191-24415	0791-24415	8	0791-9125-20 / 7210-275-15		
3	Plug		DIN-906-R1/8	7			
1	Washer	191-24422	0791-24422	6			
4	Hx.Sc.Hd.Cp.Screw		DIN-912-1/4NCX11/4	5			
1	Screw		DIN-7991-10-24 UNC x 3/8	4			
1	Straight Pin		DIN-1481-4,5 x 28	3			
1	Bolt	191-24423	0791-24423	2			
1	Handle Adjustable	59-94602	0759-94602	1			
Qty.	Description		IS Part No.	H&B Order No.	Index	Superordinate Assy. No.	
			Datum	Name	Benennung : Take Out Tong Head DG 5 1/2"		
			Gez.				
			Gep.				
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70-72 65396 Walluf am Rhein		Zeichnungs- Nr.:		
					0791-9125 (use Tong Holder Assy. 0791-8319-1)		
					7210-275 (use Tong Holder Assy. 0791-9535-2)		
Änderung	Datum	Name					

Take Out Tong Holder – Type H&B (Emhart Compatible)

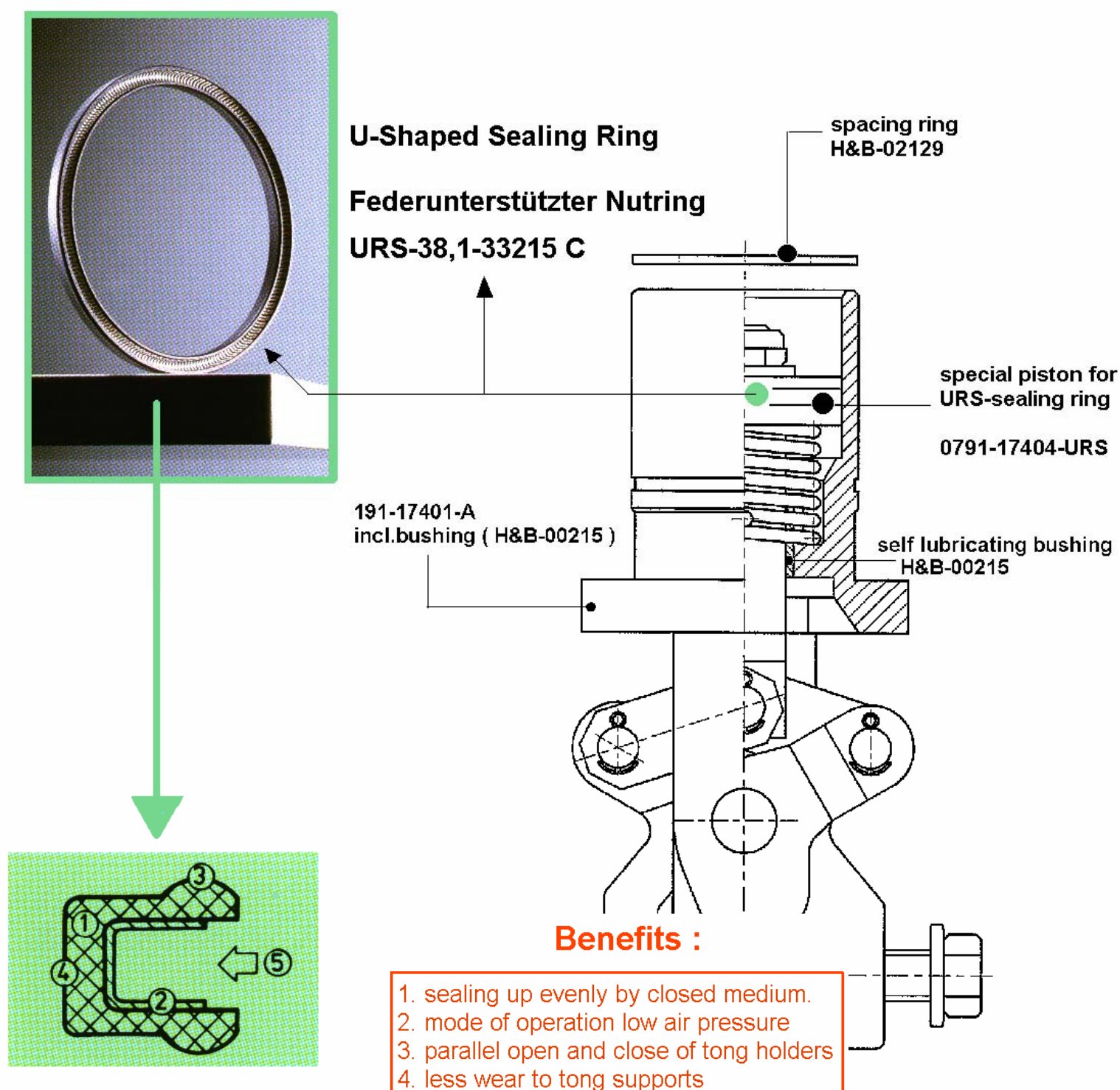
Description	IS-Part No.	H&B-Order No.
Take Out Tong Holder (see below Bulletin)	191-8319 Gr.1	0791-8319-1-A



1	Tong Holder				191-17390	0791-17390	19	
1	Tong Holder				191-17389	0791-17389	18	
3	Pin				191-10290	0791-10290	17	
6	Cotter Pin					DIN-94 -2,5 x 12	16	
2	Link				191-10285	0791-10285	15	
2	Collar Screw				191-10630	0791-10630	14	
1	Link				191-10292	0791-10292	13	
1	Piston & Rod				191-17402	0791-17402	12	
1	Pivot Shaft				191-17403	0791-17403	11	
4	Screw for fitting the complete holder					DIN-912-1/4”UNC x 1”	10	
1	Plug					DIN-915- 1/4“ UNC x 1/2“	9	
1	Tong Support incl.self lubric.bushing					0791-17401-A	8	
1	Bushing, self lubricatet 19,05-15,875					H&B-00215	7	
1	O-Ring, viton				1700-805	7700-805	6	
1	Compression Spring				23-11025	0723-11025	5	
1	Special Piston					0791-17404-URS	4	
1	U-Shaped Sealing Ring					URS-38,1-33215 C	3	
1	Hex Nut					DIN-985 – 1/2“ UNC	2	
1	Spacing Ring					H&B-02129	1	
Qty.	Description				IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung : Take Out Tong Holder		
			Gez.					
			Gep.					
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 65396 Walluf am Rhein			Zeichnungs- Nr.: 0791-8319 -1-A H&B-Standard - System see technical Bulletin		
Änderung	Datum	Name						

Take Out Tong Holder – Type H&B (Emhart Compatible)

Description	IS-Part No.	H&B-Order No.
Technical Bulletin	191-8319 Gr.1	0791-8319-1-A

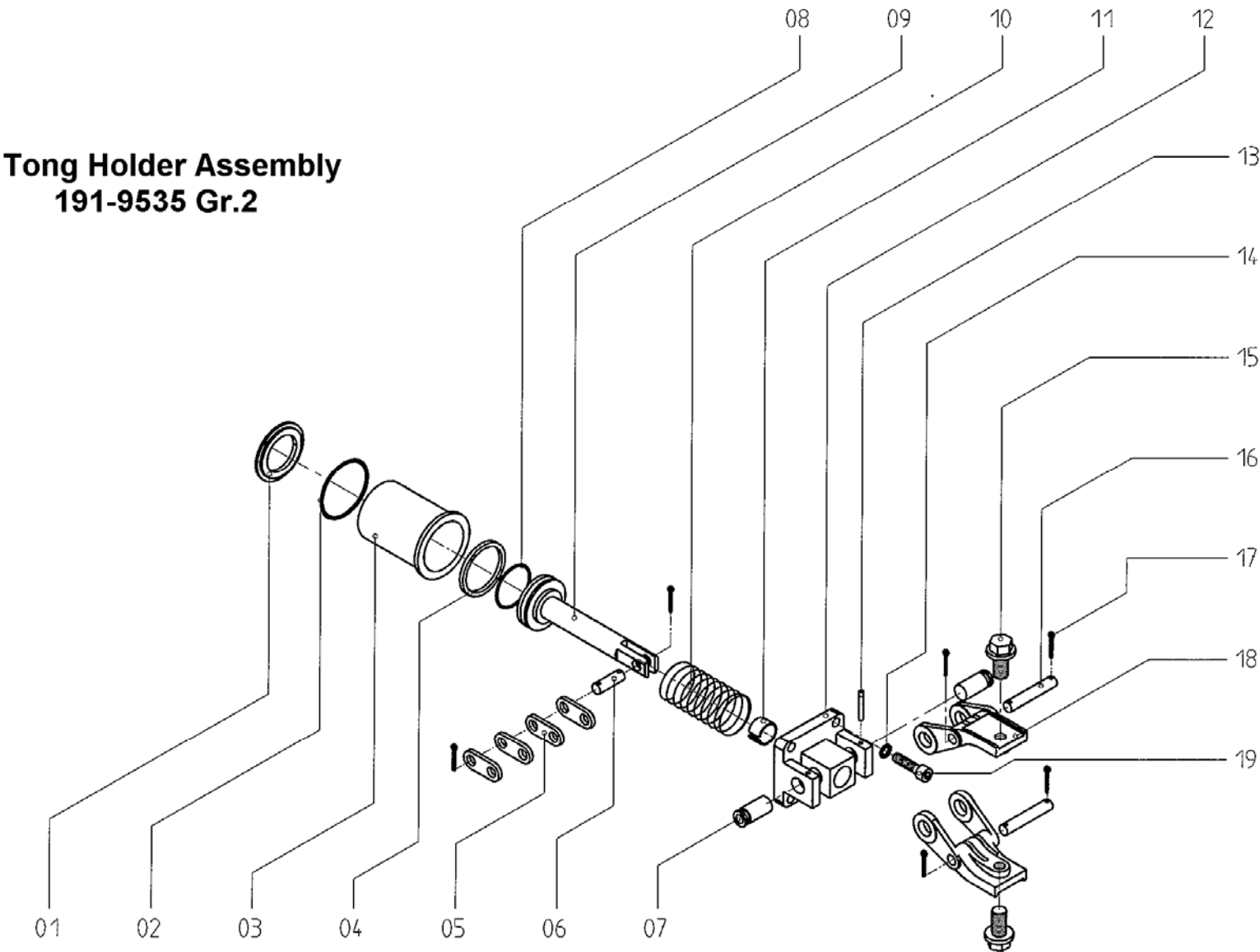


1. Kunststoffhülle mit hoher thermischer und chemischer Beständigkeit
2. Edelstahlfeder für definierte Dichtkräfte
3. Dichtlippe
4. Dichtungsrücken, maßgeblich für die stabile Lage im Einbauraum
5. Druck bzw. Medienseite

1. Synthetic materials with high thermal and chemical resistance
2. High quality steel spring for defined thick strengths
3. Sealing lip
4. Sealing back, substantial for the stable situation in the installation room
5. Pressure and medium side

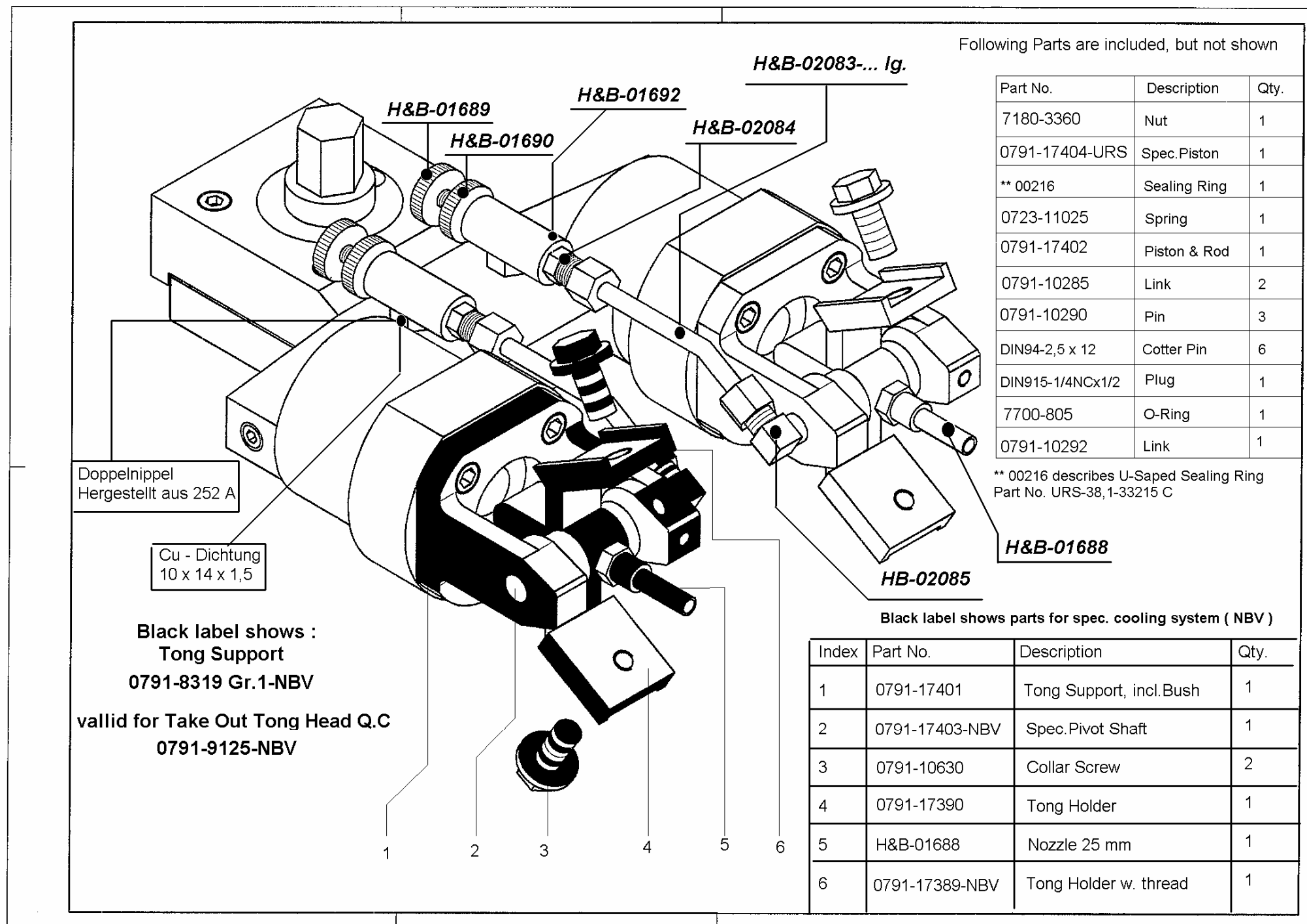
Take Out Tong Holder

Description	IS-Part No.	H&B-Order No.
Take Out Tong Holder	0191-9535 GR.2	0791-9535-2



4	Screw for fitting the complete holder					DIN-912-1/4 UNC x 1"	19	
2	Tong Holder				191-27163	0791-27163	18	
6	Cotter Pin					DIN-94 -2,5 x 12	17	
2	Pin				191-27210	0791-27210	16	
2	Collar Screw				191-10630	0791-10630	15	
4	Lock washer					H1235-6,4	14	
2	Straight Pin					DIN-1481-3 x 24	13	
1	Tong Support				191-27158	0791-27158	12	
1	Guide Ring				59-86533	0759-86533	11	
1	Compression Spring				23-11025	0723-11025	10	
1	Piston & Rod				191-27156	0791-27156	9	
1	O-Ring, Viton				1700-43	7700-43	8	
2	Pivot Sleeve				191-26989	0791-26989	7	
1	Pin				191-27209	0791-27209	6	
4	Link				191-26795	0791-26795	5	
1	Piston Ring				2520-547	9520-547	4	
1	Cylinder				191-27157	0791-27157	3	
1	O-Ring, Viton				1700-813	7700-813	2	
1	Spacing Ring				200-10495	7200-10495	1	
Qty.	Description				IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung : Take Out Tong Holder		
			Gez.					
			Gep.					
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 65396 Walluf am Rhein			Zeichnungs- Nr.: 0791-9535-2 Anti Wink - System		
Änderung	Datum	Name						

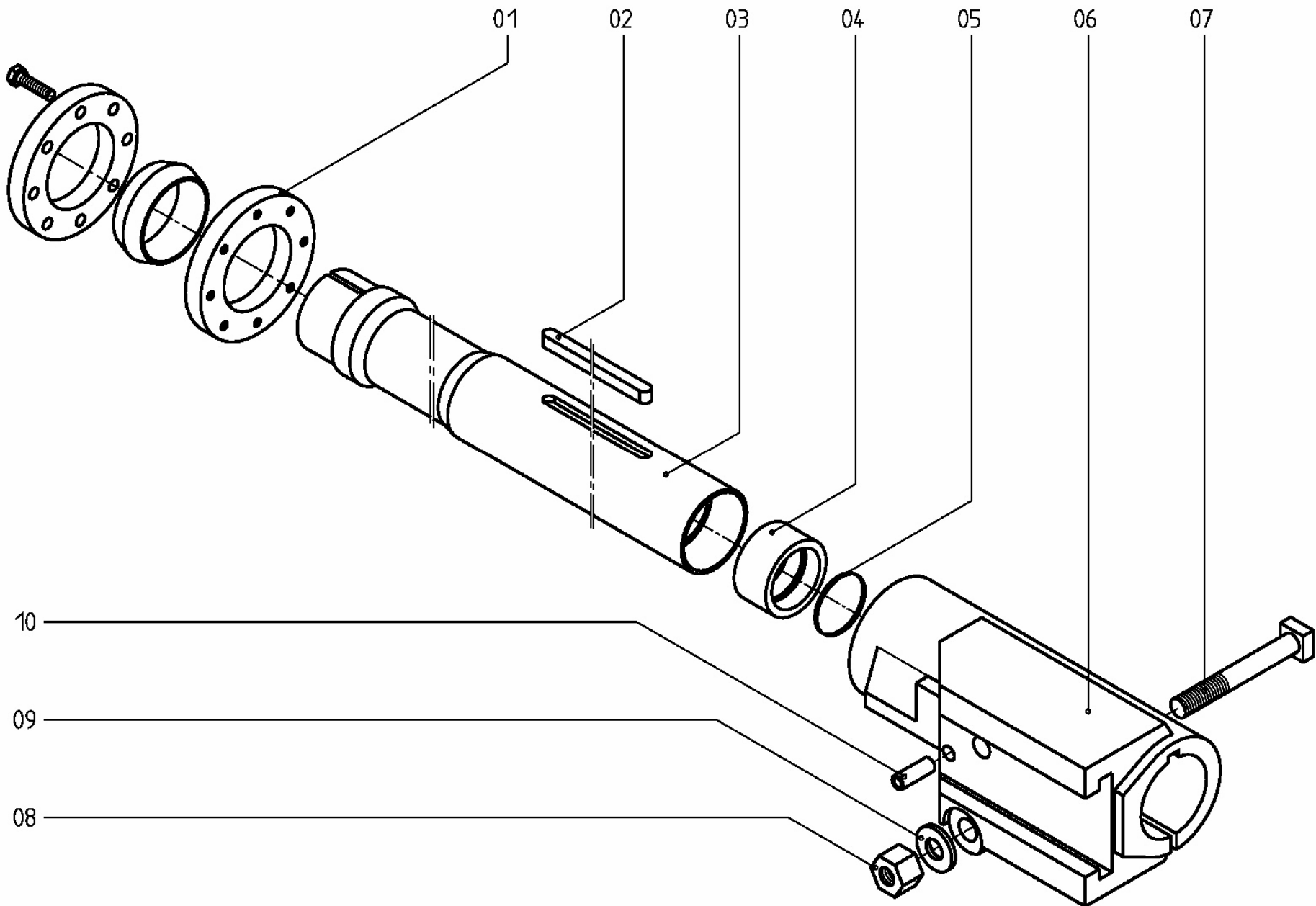
Take Out Tong Heads Q.C. **with separate adjustable finish cooling by needle valves**



IS Part.No	H&B Order No.	Description
191-9125 Gr.15	0791-9125-15-NBV-1	Take Out Tong Head Q.C.4 1/4" SG with finish cooling
191-9125 Gr.16	0791-9125-16-NBV-1	Take Out Tong Head Q.C.5 1/2" SG with finish cooling
191-9125 Gr.17	0791-9125-17-NBV-1	Take Out Tong Head Q.C.5" SG with finish cooling
191-9125 Gr.18	0791-9125-18-NBV-1	Take Out Tong Head Q.C.TG.3" with finish cooling
191-9125 Gr.20	0791-9125-20-NBV-1	Take Out Tong Head Q.C. DG 4 1/4" with finish cooling
191-9125 Gr.21	0791-9125-21-NBV-1	Take Out Tong Head Q.C.TG 4 1/4" with finish cooling
191-9125 Gr.22	0791-9125-22-NBV-1	Take Out Tong Head Q.C. DG 5" with finish cooling
191-9125 Gr.23	0791-9125-23--NBV-1	Take Out Tong Head Q.C. DG 5 1/2" with finish cooling
191-9125 Gr.24	0791-9125-24-NBV-1	Take Out Tong Head Q.C. DG 6" with finish cooling
191-9125 Gr.25	0791-9125-25-NBV-1	Take Out Tong Head Q.C. DG 6 1/4" with finish cooling

Mounting Parts Q.C. Baffle

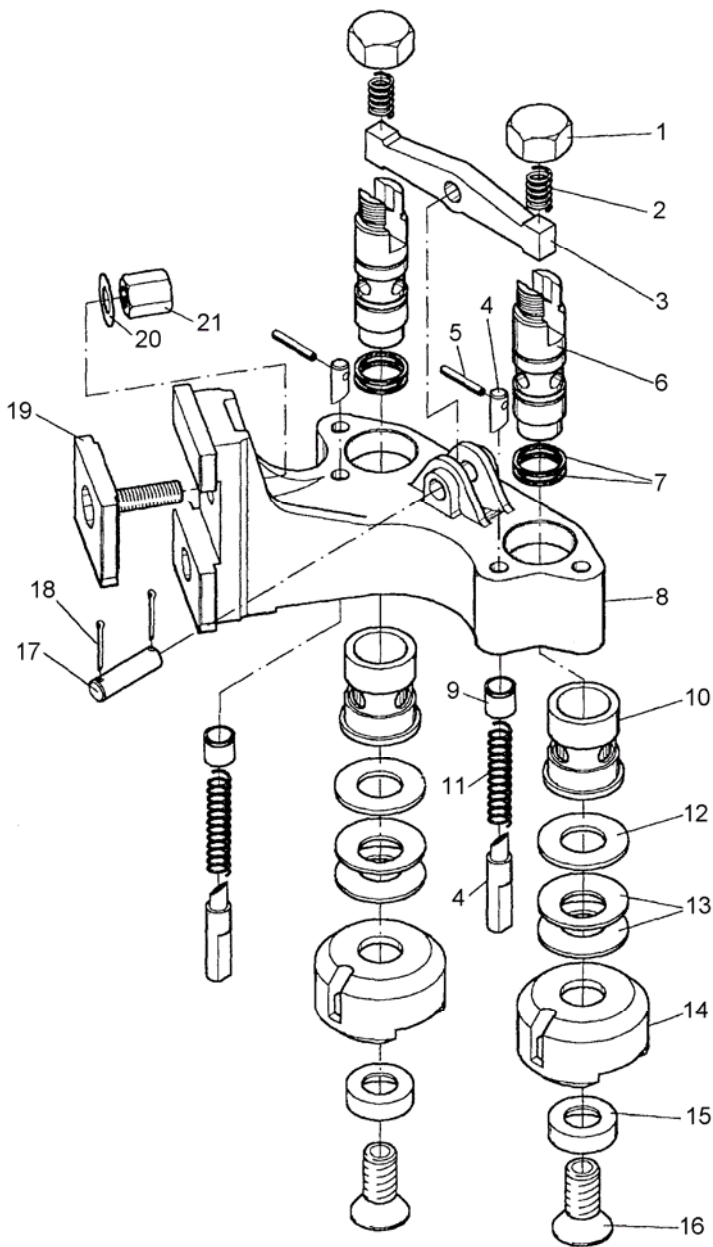
Description	IS-Part No.	H&B-Order No.
Mounting Parts Q.C. Baffle	210-194 Gr.3	7210-194-3



1	Dowel	2080-503			7080-503	10	
1	Washer				DIN-125-13	9	
1	Hex Nut	1180-1601			7180-1601	8	
2	Hex. Hd.Cp.Screw	2660-880			DIN-931-1/2 UNC x 3 3/4"	7	
1	Baffle Arm Holder	23-16999			07 23-16999	6	
1	O-Ring, Viton	1700-710			7700-710	5	
1	Bushing	23-16998			0723-16998	4	
1	Sleeve	23-16997			0723-16997	3	
1	Key	7847-355			9847-355	2	
1	Clamping Ring	48-61104			0748-61104	1	
Qty.	Description			IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung : Mounting Parts Q.C.Baffle	
			Gez.				
			Gep.				
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 65396 Walluf am Rhein			Zeichnungs- Nr.: 7210-194-3	
Änderung	Datum	Name					

Q.C. Baffle Arm DG 5 1/2"

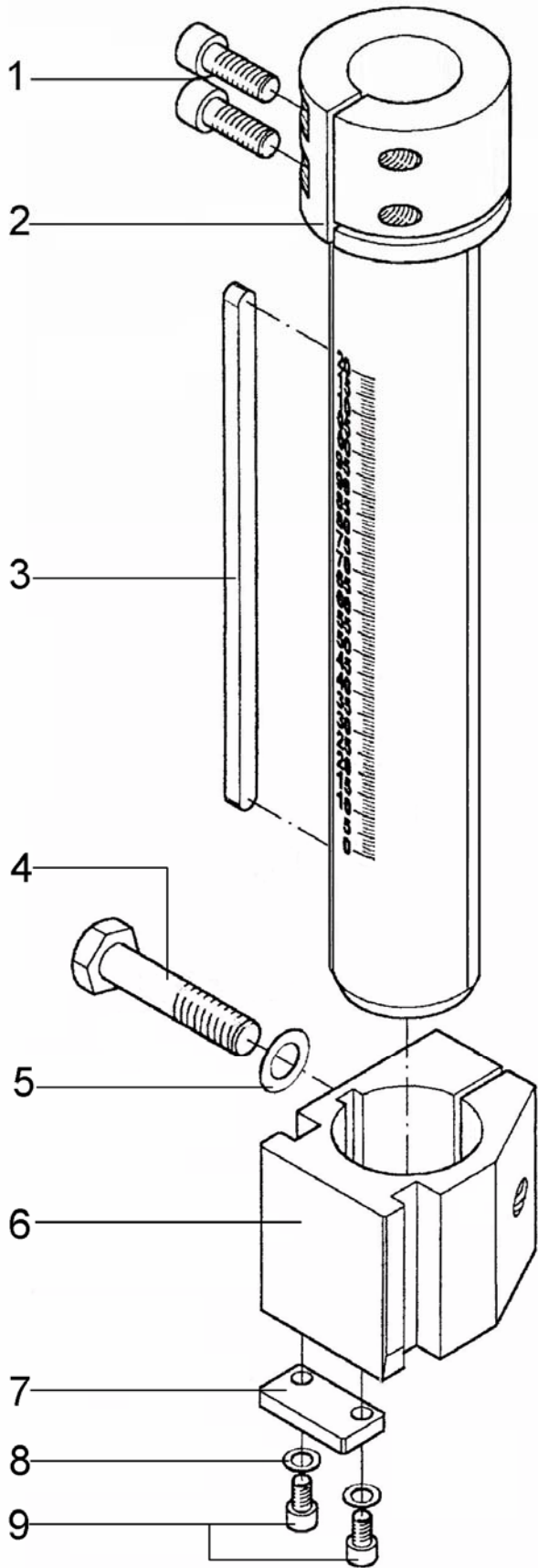
Description	IS-Part No.	H&B-Order No.
Q.C. Baffle Baffle Arm DG 5 1/2"	23-1435 Gr.2	0723-1435-2
Q.C. Baffle Baffle Arm DG 6 1/4"	23-1435 Gr.3	0723-1435-3



x	x	1	Hex Nut		DIN-934-1/2" UNC	21	
x	x	1	Washer		DIN-125-13	20	
x	x	1	Holding Plate	191-24435	0791-24435	19	
x	x	2	Cotter Pin		DIN-94-3,2 x 20	18	
x	x	1	Bolt	191-24437	0791-24437	17	
x	x	2	Screw	48-88437	0748-88437	16	
x	x	2	Washer	191-24433	0791-24433	15	
x	x	2	Lock Ring	191-25691	0791-25691	14	
x	x	4	Conical Spring Washer	59-20524	0759-20524	13	
x	x	2	Washer, hardened	3360-257	7360-257	12	
x	x	2	Compression Spring	191-24466	0791-24466	11	
x	x	2	Bushing	191-24430	0791-24430	10	
x	x	4	Bushing self lubricated	59-20528	0759-20528	9	
x		1	Body DG 6 1/4"	23-16995	0723-16995	8	
	x	1	Body DG 5 1/2"	23-16994	0723-16994	8	
x	x	4	Piston Ring	2520-531	9520-531	7	
x	x	2	Retainer Stud	191-24429	0791-24429	6	
x	x	2	Straght Pin		DIN-1481-5 x 30	5	
x	x	2	Position Pin	191-24436	0791-24436	4	
x		1	Equalizer	23-6608	0723-6608	3	
	x	1	Equalizer	23-5327	0723-5327	3	
x	x	2	Compression Spring	191-24467	0791-24467	2	
x	x	2	Cap	191-24431	0791-24431	1	
Gr.3	Gr.2	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Q.C.Baffle Arm DG
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions - GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.:
							0723-1435-2 (DG 5 1/2")
							0723-1435-3 (DG 6 1/4")
			Zust.	Änderung	Datum	Name	

Mounting Parts Q.C. Funnel

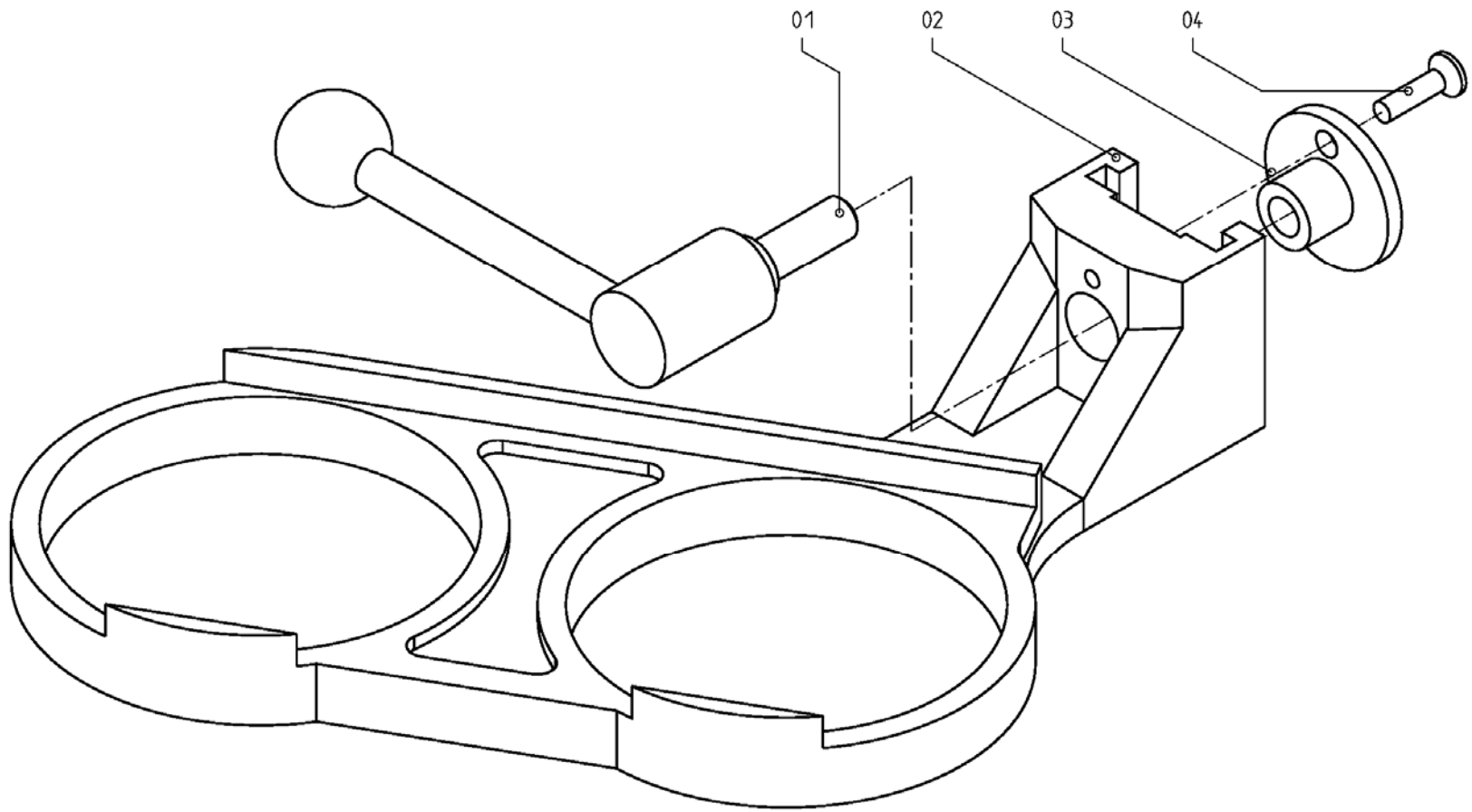
Description	IS-Part No.	H&B-Order No.
Mounting Parts Q.C. Funnel	23-1429 Gr.12	0723-1429-12



2	Hex.Soc. Hd.Cp.Screw					DIN-912-1/4”UNC x 3/4"	9	
2	Washer					DIN-125-6,4	8	
1	Plate				191-24463	0791-24463	7	
1	Clamping Device				23-18154	0723-18154	6	
1	Washer					DIN-125-13	5	
1	Hex. Hd.Cp.Screw				2660-80	DIN-931-1/2”UNC x 21/2”	4	
1	Key				7847-210	9847-210	3	
1	Sleeve				23-16995	0723-16995	2	
2	Hex.Soc. Hd.Cp.Screw					DIN-912-3/8”UNC x 1”	1	
Qty.	Description				IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung : Mounting Parts Q.C.Funnel		
			Gez.					
			Gep.					
			Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 65396 Walluf am Rhein			Zeichnungs- Nr.: 0723-1429-12		
Änderung	Datum	Name						

Q.C. Funnel Arms DG 5 1/2”

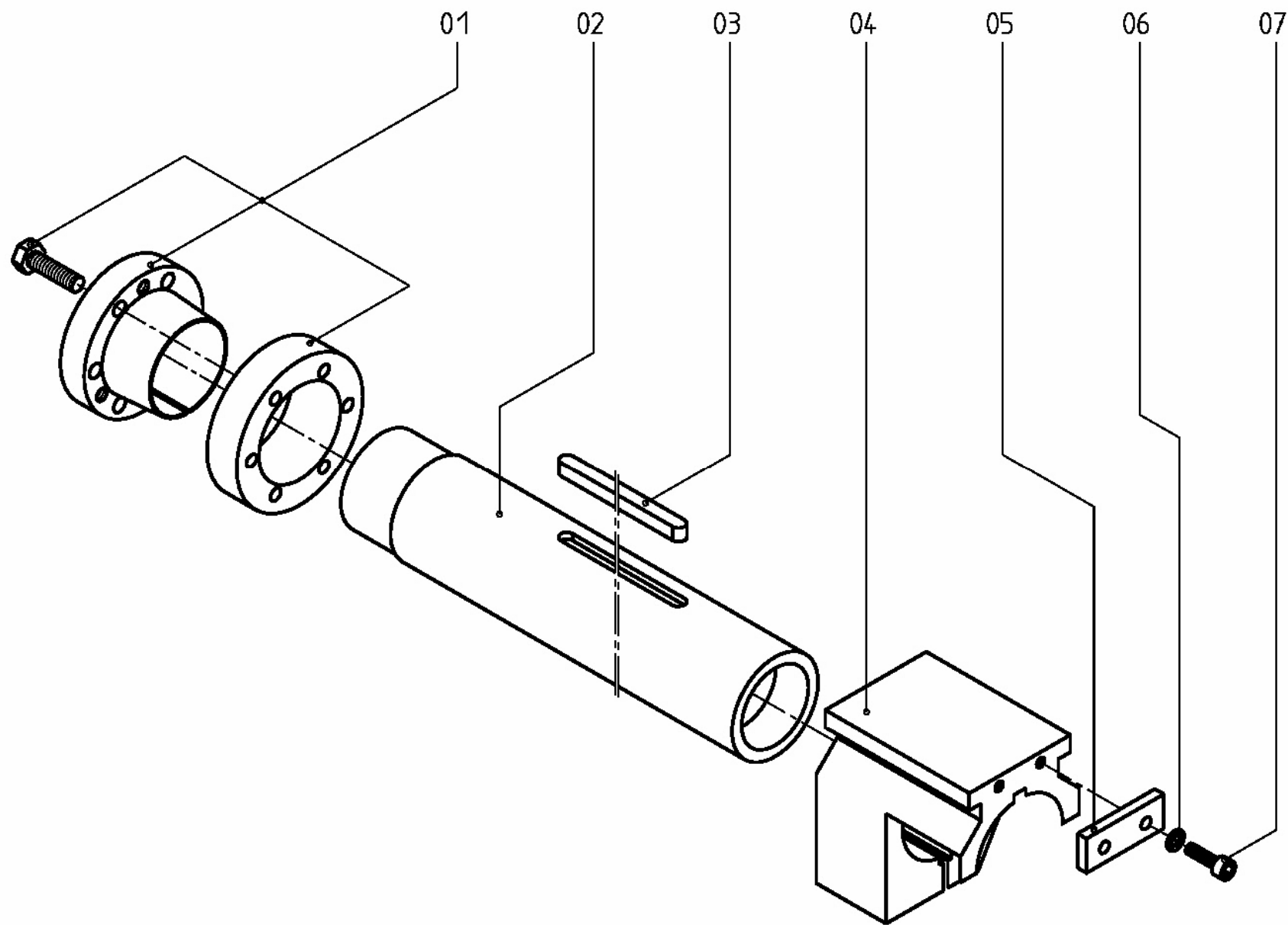
Description	IS-Part No.	H&B-Order No.
Q.C. Funnel Arm 3 1/2"DIA.	23-1429 Gr.2	0723-1429-2
Q.C. Funnel Arm 4 7/16"DIA.	23-1429 Gr.3	0723-1429-3



x	x	2	Count.Sc.Hd.Screw		DIN-7991-1/4“NC x 5/8“	4	
x	x	1	Bushing	191-26477	0791-26477	3	
x		1	Body 4 7/16"DIA.	23-16989	0723-16989	2	
	x	1	Body 3 1/2"DIA.	23-16988	0723-16988	2	
x	x	1	Handle Adjustable	59-94603	0759-94603	1	
Gr.3	Gr.2	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
					Datum	Name	Benennung :
					Gez.		Q.C. Funnel Arms DG
					Gep.		
					Hartmann & Bender Vertriebs - und Produktions - GmbH Hauptstraße 70 72 Walluf am Rhein		Zeichnungs- Nr.:
							0723-1429
			Zust.	Änderung	Datum	Name	

Mounting Parts Q.C. Blow Head

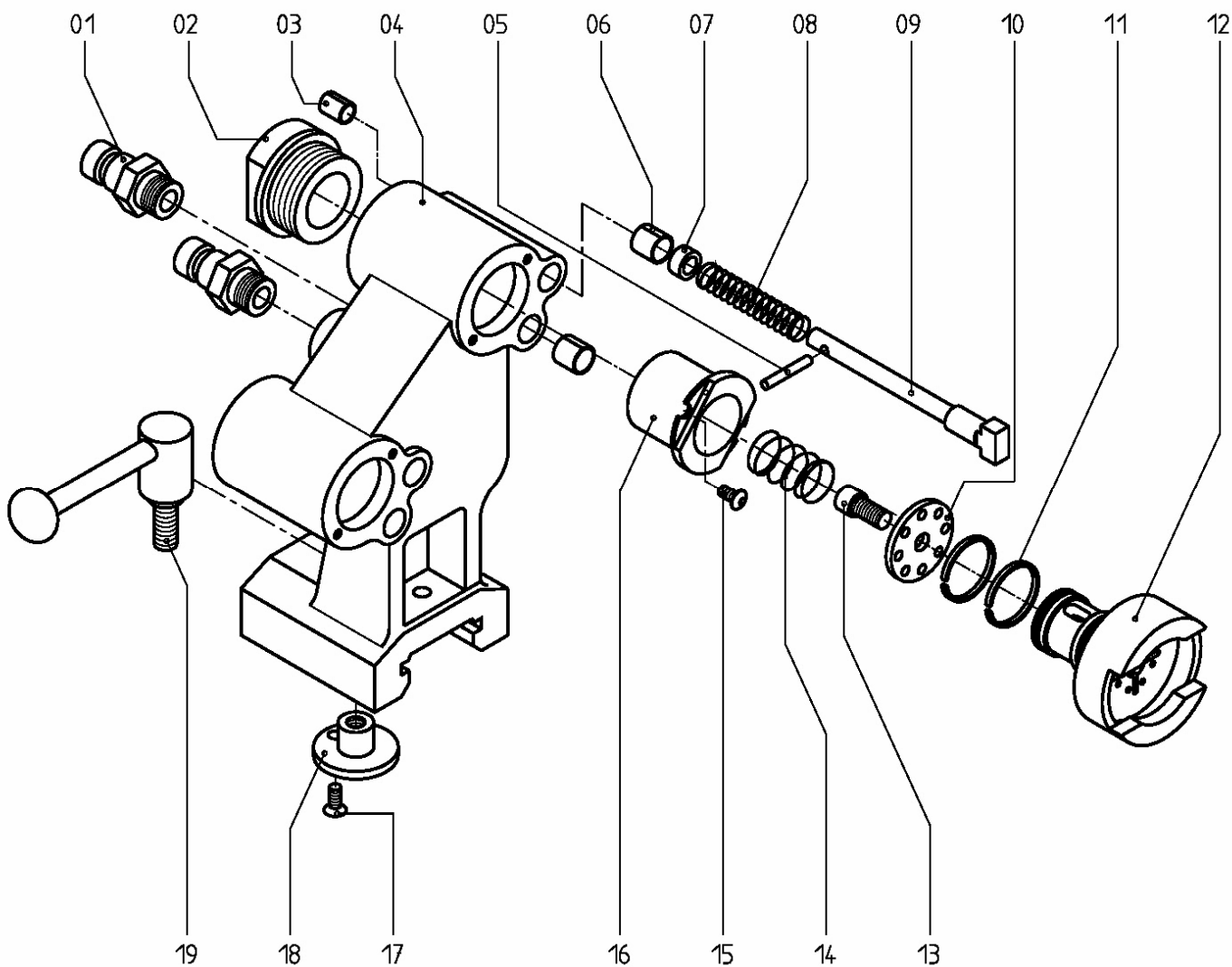
Description	IS-Part No.	H&B-Order No.
Mounting Parts Q.C. Blow Head	210-178 Gr.1	7210-178-1



1	Washer		DIN125-13	9	not illustrated
1	Hex. Hd.Cp.Screw	2660-810	DIN-931-1/2”UNC x 2 3/4”	8	not illustrated
2	Hex.Soc. Hd.Cp.Screw	2640-130	DIN-912-1/4”UNC x 3/4"	7	
2	Washer		DIN-125-6,4	6	
1	Plate	191-25462	0791-25462	5	
1	Clamping Device	23-17303	0723-17303	4	
1	Key	7847-210	9847-210	3	
1	Sleeve	23-16960	0723-16960	2	
1	Clamping Ring	48-61104	0748-6104	1	
Qty.	Description	IS Part No.	H&B Order No.	Index	Note
				Benennung : Mounting Parts Q.C. Blow Head	
		Datum	Name		
		Gez.			
				Zeichnungs- Nr.: 7210-178-1	
		Gep.			
		Hartmann & Bender Vertriebs – und Produktions - GmbH Hauptstraße 70 65396 Walluf am Rhein			
Änderung	Datum	Name			

Q.C. Blow Head Arm DG 5 1/2”

Description	IS-Part No.	H&B-Order No.
Q.C. Blow Head Arm DG 5 1/2" Thread Type	200-202 Gr. 3	7200-202 - 3
Q.C. Blow Head Arm DG 5 1/2" Thread Type	200-202 Gr.15	7200-202 -15
Q.C. Blow Head Arm DG 5 1/2" Bayonet Type	200-202 Gr. 7	7200-202 - 7
Q.C. Blow Head Arm DG 5 1/2" Bayonet Type	200-202 Gr.19	7200-202 -19



200-202 Gr.19 Bayonet Type is shown

x	x	x	x	1	Handle Adjustable	59-94603	0759-94603	19	
x	x	x	x	1	Bushing	191-26477	0791-26477	18	
x	x	x	x	1	Count.Sc.Hd.Screw		DIN-7991-1/4"NC x 5/8"	17	
x	x	x	x	2	Bushing	191-26494	0791-26494	16	
x	x	x	x	4	Button Soc. Cap Screw	2640-1620	ISO-7380- M 6 x 12	15	
x	x	x	x	2	Compression Spring	59-75011	0759-75011	14	
x	x	x	x	2	Hex. Soc.Hd.Cap Screw		DIN-912-3/8" NC x 3/4"	13	
x	x			2	Lock Ring (Bayonet Type)	191-26490	0791-26490	12	
		x	x	2	Lock Ring (Thread Type)	191-26491	0791-26491	12	
x	x	x	x	4	Piston Ring	2520-30	9520-30	11	
x	x	x	x	2	Washer	191-26495	0791-26495	10	
x	x			2	Piston Pin (Bayonet Type)	191-26749	0791-26749	9	
		x	x	2	Piston Pin (Thread Type)	191-26748	0791-26748	9	
x	x	x	x	2	Compression Spring	191-24466	0791-24466	8	
x	x	x	x	2	Distance Washer	191-26776	0791-26776	7	
x	x	x	x	4	Bushing , self lubricated	59-20528	0759-20528	6	141615 F
x	x	x	x	2	Straight Pin DIN 1481		DIN-1481-5 x 26	5	
x	x	x	x	1	Blow Head Arm Body DG 5 1/2"	191-26756	0791-26756	4	
x	x	x	x	4	Bushing, self lubricated	59-20545	0759-20545	3	101215 F
x	x	x	x	2	Retainer	191-26493	0791-26793	2	
x		x			Q.C.Connector Male MD	1460-828	7460-828	1	
	x		x	2	Connector Male	1460-444	7460-444	1	LP-012-1-WR021-11
Gr.19	Gr.7	Gr.15	Gr.3	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
							Datum	Name	Benennung :
							Gez.		Blow Head Arm Q.C.
							Gep.		DG 5 1/2"
							Hartmann & Bender Vertriebs - und Produktions - GmbH Hauptstraße 70 - 72 Walluf am Rhein		Zeichnungs- Nr.:
									7200-202 - 3 Thread Type
									7200-202 -15 Thread Type
									7200-202 -7 Bayonet Type
					Zust.	Änderung	Datu m	Name	7200-202 -19 Bayonet Type

5 1/2" SG Inserts for DG-Moulds Operation

Assemblies 21, 51, 22, 52, 23, 53, 24, 54 (Blank & Blow)

Mould Holder No.2 SG 5 1/2" Assembly 21 (Blank Side)



Mould Holder No.2 DG 5 1/2" Assembly 51 (Blow Side)



Mould Holder No.2 SG 5 1/2" Assembly 22 (Blank Side)



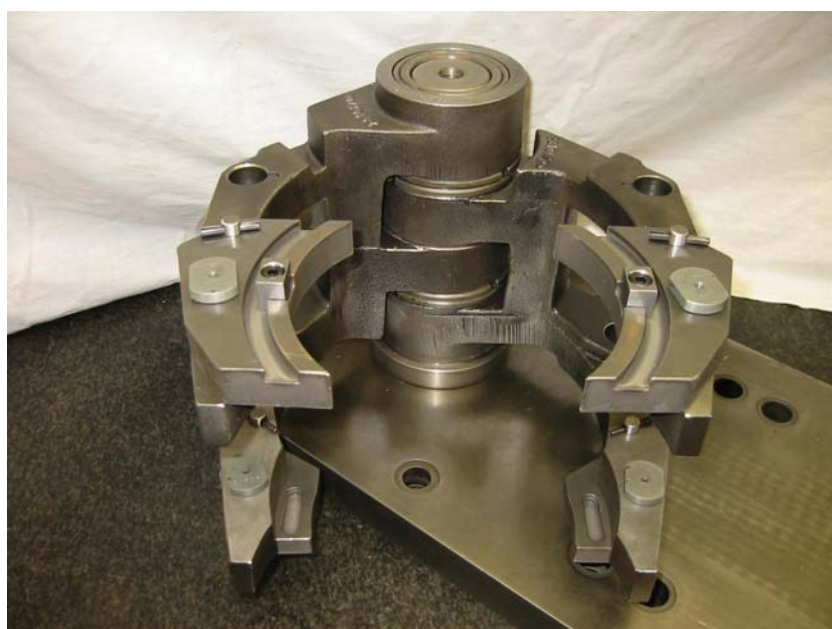
Mould Holder No.2 DG 5 1/2"
Assembly 52 (Blow Side)



Mould Holder No.2 SG 5 1/2"
Assembly 23 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 53 (Blow Side)



Mould Holder No.2 SG 5 1/2"
Assembly 24 (Blank Side)



Mould Holder No.2 DG 5 1/2"
Assembly 54 (Blow Side)



Spare Parts – List for Assemblies 21,51,22,52,23,53,24,54

<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blank Mould Holder No.2 SG		H&B-2391-001	1 pcs.
	Blow Mould Holder No.2 SG		H&B-2392-001	1 pcs.
	Upper Plate SG 5 1/2" 6" DIA.		H&B-02018	1 pair
	Lower Plate SG 5 1/2" 6" DIA.		H&B-02019	1 pair
	Upper Plate SG 5 1/2" 5 3/8" DIA.		H&B-02020	1 pair
	Lower Plate SG 5 1/2" 5 3/8" DIA.		H&B-02021	1 pair
	Upper Bolt 1/2" DIA.		H&B-1522-A	2 pcs.
	Lower Bolt 1/2" DIA.		H&B-1522-B	2 pcs.
	Washer		H&B-1523	4 pcs.
	Flexloc Nut 1/2" UNC		1180-3015	4 pcs.
	Control Pin		H&B-1710	4 pcs.

5 1/2" SG Inserts for DG-Moulds Operation

Assembly 65 (Blank Side)



<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blank Mould Holder No.2 SG		H&B-2391-001	1 pcs.
	Upper Insert SG 4 5/8" DIA.		H&B-02093-SG-A	1 pair
	Lower Insert SG 5" DIA.		H&B-02096-SG-A	1 pair
	Upper Bolt 1/2" DIA.		H&B-1522-A	2 pcs.
	Lower Bolt 1/2" DIA.		H&B-1522-B	2 pcs.
	Washer		H&B-1523	4 pcs.
	Flexloc Nut 1/2" UNC		1180-3015	4 pcs.
	Control Pin		H&B-1710	4 pcs.

5 1/2" SG Inserts for DG-Moulds Operation

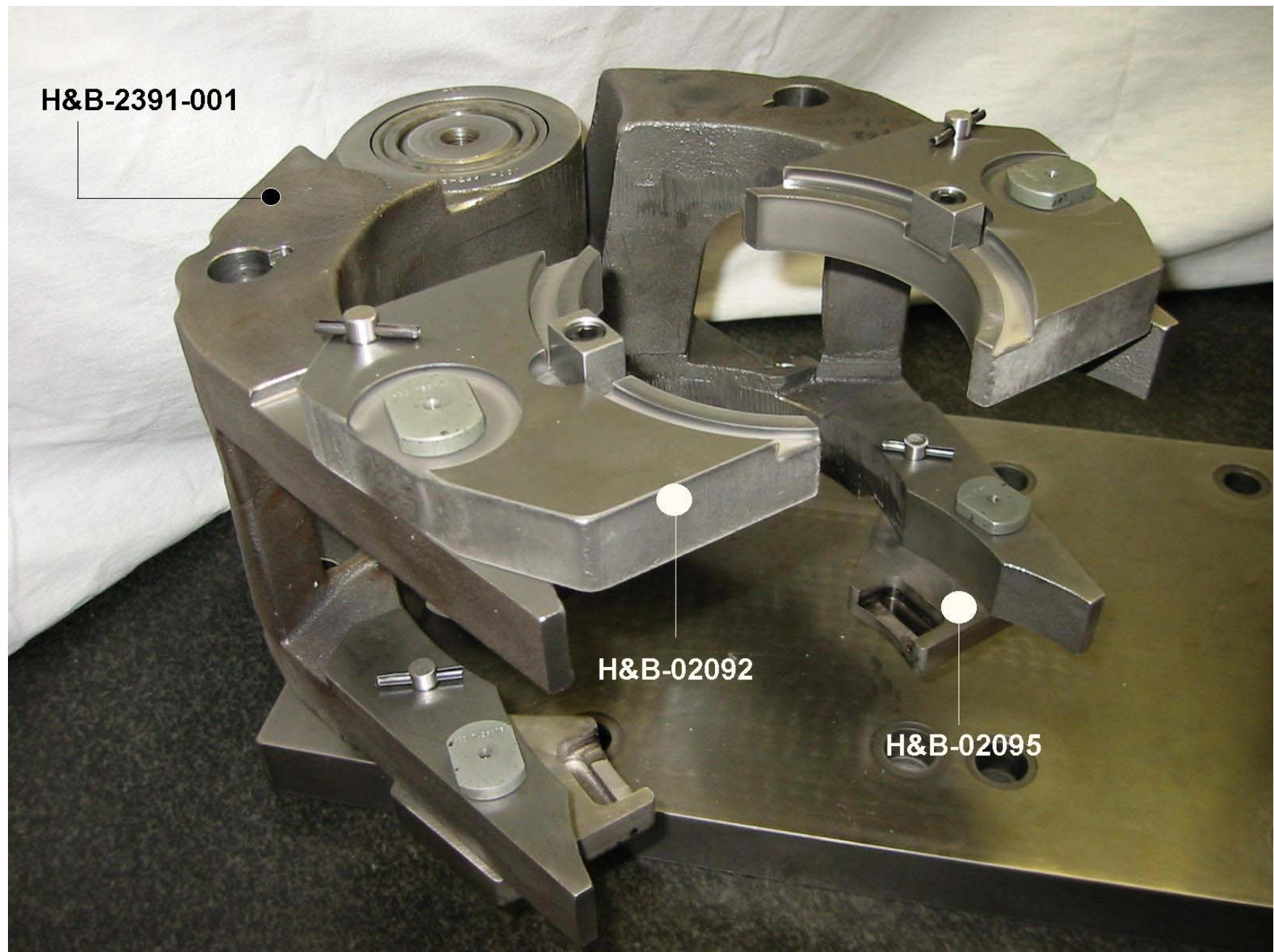
Assembly 66 (Blow Side)



<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blow Mould Holder No.2 SG		H&B-2392-001	1 pcs.
	Upper Insert SG 4 5/8" DIA.		H&B-02093-SG-A	1 pair
	Lower Insert SG 5" DIA.		H&B-02119-SG-A	1 pair
	Upper Bolt 1/2" DIA.		H&B-1522-A	2 pcs.
	Lower Bolt 1/2" DIA.		H&B-1522-B	2 pcs.
	Washer		H&B-1523	4 pcs.
	Flexloc Nut 1/2" UNC		1180-3015	4 pcs.
	Control Pin		H&B-1710	4 pcs.

5 1/2" SG Inserts for DG-Moulds Operation

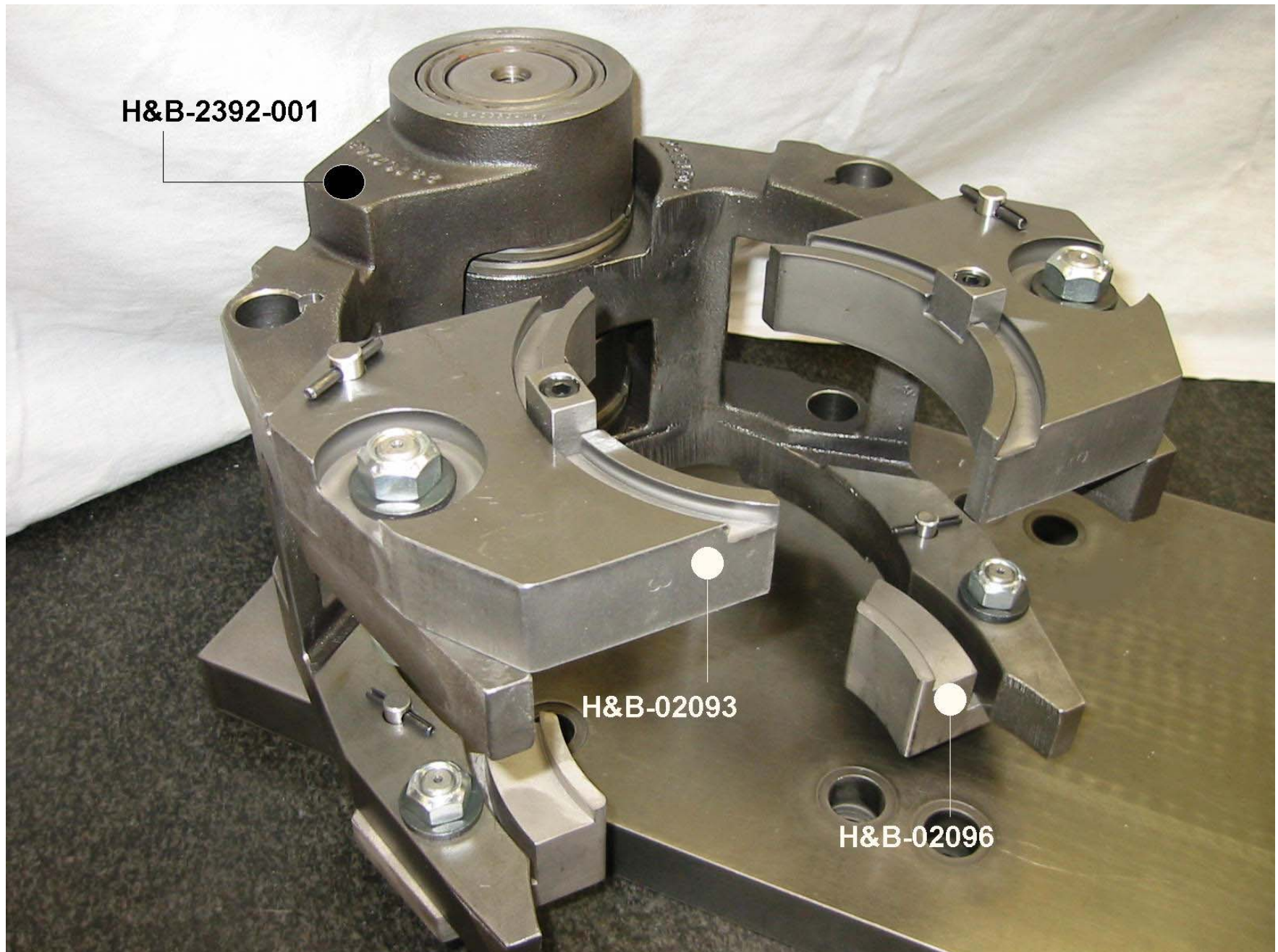
Assembly 67 (Blank Side)



<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blank Mould Holder No.2 SG		H&B-2391-001	1 pcs.
	Upper Insert SG 4 5/8" DIA.		H&B-02093-SG-A	1 pair
	Lower Insert SG 5" DIA.		H&B-02096-SG-A	1 pair
	Upper Bolt 1/2" DIA.		H&B-1522-A	2 pcs.
	Lower Bolt 1/2" DIA.		H&B-1522-B	2 pcs.
	Washer		H&B-1523	4 pcs.
	Flexloc Nut 1/2" UNC		1180-3015	4 pcs.
	Control Pin		H&B-1710	4 pcs.

5 1/2" SG Inserts for DG-Moulds Operation

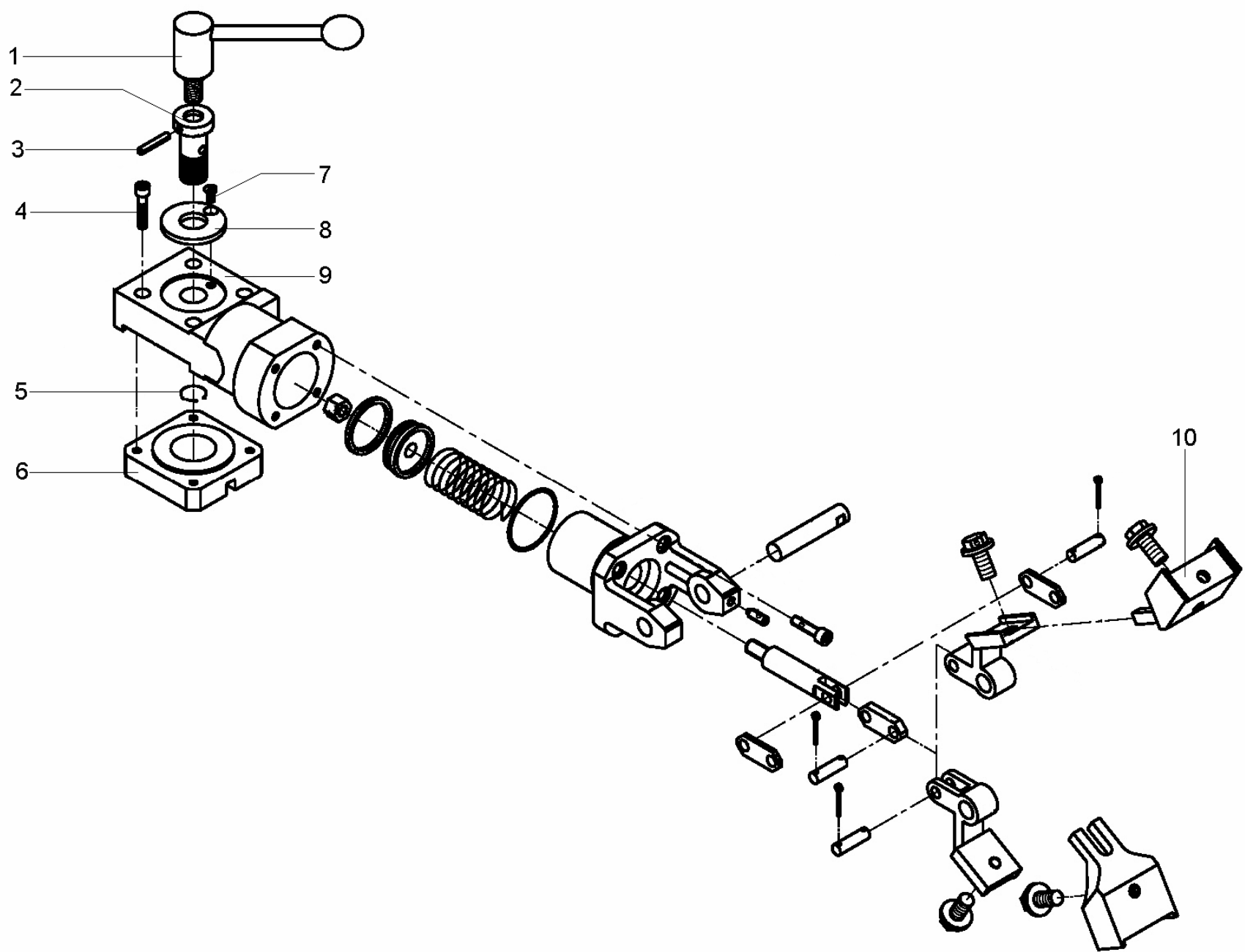
Assembly 68 (Blow Side)



<i>contains :</i>	<i>Decsription</i>	<i>IS Part No.</i>	<i>H&B Order No.</i>	<i>Qty. 1/ unit</i>
	Blow Mould Holder No.2 SG		H&B-2392-001	1 pcs.
	Upper Insert SG 4 5/8" DIA.		H&B-02093-SG-A	1 pair
	Lower Insert SG 5" DIA.		H&B-02096-SG-A	1 pair
	Upper Bolt 1/2" DIA.		H&B-1522-A	2 pcs.
	Lower Bolt 1/2" DIA.		H&B-1522-B	2 pcs.
	Washer		H&B-1523	4 pcs.
	Flexloc Nut 1/2" UNC		1180-3015	4 pcs.
	Control Pin		H&B-1710	4 pcs.

Q.C. Take Out Tong Head Assembly SG 5 1/2"

Description	IS-Part No.	H&B-Order No.
Q.C.Take Out Tong Head Assembly SG 4 1/4"	191-9125 Gr.16	0791-9125-16
Q.C.Take Out Tong Head Assembly SG 4 1/4" Anti Wink	210-275 Gr.13	7210-275-13



1		X	Tong Holder Assembly	191-9135 Gr.2	0791-9135-2		"Anti Wink "
	1	X	Tong Holder Assembly	191-8319 Gr.1	0791-8319-1-A		
x	x	2	Tong Adapter	191-17561	0791-17561	10	
x	x	1	Body 5 1/2" SG	191-24412	0791-24412	9	
x	x	1	Washer	191-24422	0791-24422	8	
x	x	1	Screw		DIN-7991-10-24 NC x 3/8	7	
x	x	1	Adapter Plate	191-26127	0791-26127	6	
x	x	1	Retaining Ring	2540-541	9540-541	5	
x	x	4	Hx.Sc.Hd.Cp.Screw		DIN-912-1/4 NC x1 1/4	4	
x	x	1	Straight Pin		DIN-1481-4,5X28	3	
x	x	1	Bolt	191-24423	0791-24423	2	
x	x	1	Handle Adjustable	59-94602	0759-94602	1	
7210-275 Gr.13	0791-9125 Gr.16	Qty.	Description	IS Part No.	H&B Order No.	Index	Note
				Datum	Name	Benennung : Take Out Tong Head SG 5 1/2"	
				Gez.			
				Gep.			
					Hartmann & Bender Vertriebs – und Produktions - GmbH 65396 Walluf am Rhein	Zeichnungs- Nr.: 0791-9125-16 (use Tong Holder Assy. 0791-8319-1) 7210-210-13	
		Änderung	Datum	Name	(use Tong Holder Assy. 0791-9535-2)		