

V. Mueller™ minimally invasive cardiothoracic instruments



BD is proud to offer a line of V. Mueller™ instruments and products for video-assisted thoracoscopic surgery (VATS) and minimally invasive cardiac surgery (MICS).

V. Mueller minimally invasive cardiothoracic (MI-CT) instruments are manufactured by skilled instrument craftsmen, using high quality materials at exacting specifications.



Unique designs

V. Mueller MI-CT instruments feature unique designs for both VATS and MICS, including:

Sliding shaft handles—the sliding shaft design allows the instrument to fully function through small incisions.

Ergonomic aluminum squeeze handle design—this comfortable, easy-to-use handle offers ergonomics and a lightweight design, which allow you to concentrate on the procedure and patient.

V. Mueller instrument warranty

We warranty every instrument bearing the V. Mueller brand name to be free of functional defects in workmanship and materials when used normally for its intended use. Any V. Mueller product that proves to be defective in materials and workmanship will be repaired or replaced at our discretion. This guarantee (*warranty*) does not cover damage caused by abuse or misuse and is voided if personnel other than authorized BD personnel or service resources repair or modify the instrument.



Handle with sliding shaft



Ergonomic squeeze handle

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Clamps

Thoracoscopic DeBAKEY clamps

		Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
 CH7233		CH7233	60 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	5 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
		CH7233-1	65 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	9 in (23 cm)	12.75 in (32 cm)
 CH7233-3		CH7233-2	100 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14.25 in (36 cm)
		CH7233-3	100 mm curved 2 x 3 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14.25 in (36 cm)

Thoracoscopic DeBAKEY clamps—tapered jaw

 CH7237		CH7237	115 mm straight 1 x 2 DeBAKEY atraumatic tapered jaws, matte finish	10 mm	Ratchet	11.75 in (30 cm)	15 in (38.5 cm)
 CH7237-1		CH7237-1	110 mm curved 1 x 2 DeBAKEY atraumatic tapered jaws, matte finish	10 mm	Ratchet	11.5 in (29.5 cm)	15 in (38.5 cm)

Clamps (cont'd)





VATS SEMB clamps

			Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
 CH1811			CH1811	140 mm fully curved 1 x 2 atraumatic jaws, matte finish	10 mm	Ratchet	12.25 in (31 cm)	15.5 in (39.5 cm)

VATS LAMBERT KAY clamps

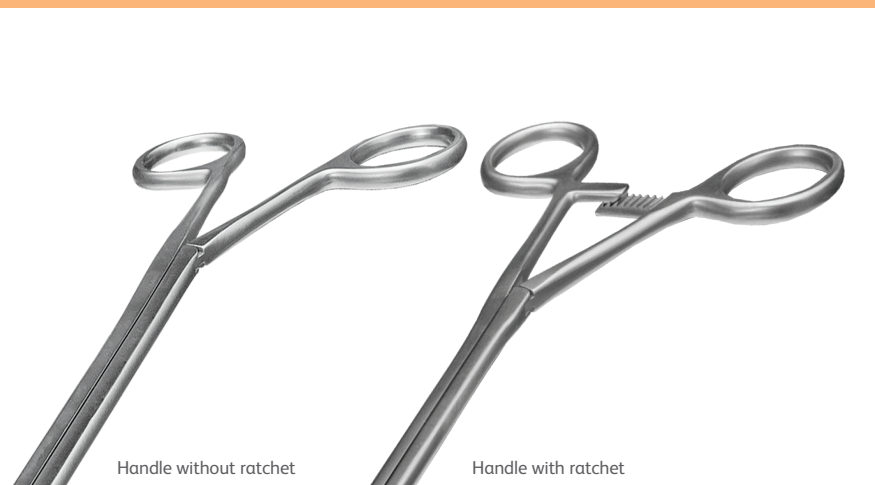
 CH7352			CH7352	Curved 1 x 2 DeBAKEY atraumatic jaws, angled shanks, matte finish	10 mm	Ratchet	8.25 in (21 cm)	12.25 in (31 cm)
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VATS HARKEN clamps

 CH6475	 Handle without ratchet	 Handle with ratchet	CH6475	HARKEN no. 1 clamp, 95 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
			CH6475-1	HARKEN no. 1 clamp, 95 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)
 CH6477			CH6477	HARKEN no. 2 clamp, 95 mm fully curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
			CH6477-1	HARKEN no. 2 clamp, 95 mm fully curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)

Forceps

VATS dissector forceps



	Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
	CH1778	VATS curved dissector, serrated jaws, matte finish	7 mm	None	9.125 in (23.3 cm)	13 in (33 cm)
	CH1778-1	VATS curved dissector, serrated jaws, matte finish	7 mm	Ratchet	9.125 in (23.3 cm)	13 in (33 cm)
	CH1776	VATS right angle dissector, DeBAKEY-COOLEY serrated jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
	CH1776-1	VATS right angle dissector, DeBAKEY-COOLEY serrated jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)

MIS forceps



	Cat. no.	Description	Shaft diameter	Working length	Total length
	CH5915	MIS forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	3 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5916	MIS DeBAKEY forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5916-1	MIS DeBAKEY forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH5916-2	MIS DeBAKEY forceps, straight 2.8 mm serrated jaws, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5916-3	MIS DeBAKEY forceps, straight 2.8 mm serrated jaws, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH5917	MIS RESANO forceps, straight 2.8 mm atraumatic jaws, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5917-1	MIS RESANO forceps, straight 2.8 mm atraumatic jaws, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH1521	MIS Russian forceps, oval serrated cupped tip, curved left, round squeeze handle, satin finish	5 mm	9 in (23 cm)	14.5 in (36 cm)

Forceps (*cont'd*)

VATS FOERSTER forceps



	Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
20 mm oval						
	CH9323	Curved left 20 mm, oval serrated jaws, matte finish	10 mm	None	9.75 in (25 cm)	13.5 in (34 cm)
	CH9323-1	Curved left 20 mm, oval serrated jaws, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)
12 mm oval						
	CH9323-2	Curved left 12 mm, oval serrated jaws, matte finish	7 mm	None	9.5 in (24 cm)	13.5 in (34 cm)
	CH9323-3	Curved left 12 mm, oval serrated jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	13.5 in (34 cm)
10 mm oval						
	CH9323-4	Curved left 10 mm, oval serrated jaws, matte finish	7 mm	None	9.5 in (24 cm)	13.5 in (34 cm)
	CH9323-5	Curved left 10 mm, oval serrated jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	13.5 in (34 cm)

Forceps (cont'd)

VATS node grasping forceps

				Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
				CH9329	Straight, oblong, 11 mm serrated jaws, matte finish	5 mm	Ratchet	9.75 in (25 cm)	14 in (36 cm)
CH9329	CH9329-1			CH9329-1	Curved, oblong, 11 mm serrated jaws, matte finish	5 mm	Ratchet	9.5 in (24 cm)	14 in (36 cm)

VATS DUVAL forceps

				CH1595	VATS DUVAL clamp, 15 mm triangular serrated ring jaws, curved left, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)
CH1595	CH1596			CH1596	VATS DUVAL clamp, 25 mm triangular serrated ring jaws, curved left, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)

VATS ALLIS forceps

				CH1563	Curved left, 6mm wide jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	12.75 in (32.5 cm)
CH1563									

Needle holders





Micro needle holders






CH2467




Straight jaw

	CH2450	Straight TC coated jaws, 1 mm tip width, round squeeze handle, satin finish	3 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2453	Straight TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2453-1	Straight TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
	CH2455	Straight jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2455-1	Straight jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
	CH2465	Straight narrow Ryder jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2465-1	Straight narrow Ryder jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)

Curved jaw

	CH2450-1	Curved TC coated jaws, 1 mm tip width, round squeeze handle, satin finish	3 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2453-2	Curved TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2453-3	Curved TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
	CH2455-2	Curved jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH2455-3	Curved jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)

MIS needle holders

	CH2467	Straight TC coated jaws, ring handles, satin finish	5 mm	Ratchet	7.25 in (18.5 cm)	11.75 in (30 cm)
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Needle holders (cont'd)

VATS heavy and extra heavy needle holders




	Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
	CH2468	Straight heavy jaws with TC inserts, matte finish with gold plating	7 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
	CH2472	Straight extra-heavy jaws with TC inserts, matte finish with gold plating	10 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
	CH2468-1	Curved heavy jaws with TC inserts, matte finish with gold plating	7 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
	CH2472-1	Curved extra-heavy jaws with TC inserts, matte finish with gold plating	10 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)

Knot tier/pushers

Knot tier/pushers




	CH06162	Round squeeze handle, satin finish	5 mm	None	6.75 in (17 cm)	12 in (30 cm)
	CH06162-1	Round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
	CH06162-2	Round squeeze handle, satin finish	5 mm	None	9.25 in (24 cm)	14.5 in (36 cm)
	CH06162-3	Round squeeze handle, satin finish	5 mm	Lock	9.25 in (24 cm)	14.5 in (36 cm)

Retractors

Fan retractors



	Cat. no.	Description	Shaft diameter	Working length	Total length
	CH8128	Straight articulating shaft, matte finish	5 mm	13.25 in (33.5 cm)	18.75 in (47.5 cm)
	CH8128-1	Straight articulating shaft, matte finish	10 mm	13.75 in (35 cm)	18.75 in (47.5 cm)

Scissors

MIS scissors



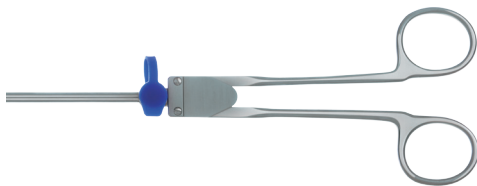
	Cat. no.	Description	Shaft diameter	Working length	Total length
	CH5707	Curved blades, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5707-1	Curved blades, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH5707-2	Strongly curved blades, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5707-3	Strongly curved blades, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH5707-4	Full curved blades, round squeeze handle, satin finish	5 mm	6.75 in (17 cm)	12 in (30 cm)
	CH5707-5	Full curved blades, round squeeze handle, satin finish	5 mm	9.25 in (23.5 cm)	14 in (35.5 cm)
	CH5709	45° angled blades, round squeeze handle, satin finish	3.5 mm	8.5 in (21.5 cm)	13.5 in (34.5 cm)
	CH5709-1	125° angled blades, round squeeze handle, satin finish	3.5 mm	8.25 in (21 cm)	13.25 in (33.5 cm)

Thoracoscopic METZENBAUM scissors



	CH2029	Thoracoscopic METZENBAUM scissors, curved 3.5 cm blades with blunt tips, satin finish	10 mm	7.75 in (19.5 cm)	11.5 in (29 cm)
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Thoracoscopic dissecting scissors



	CH2022	Thoracoscopic dissecting scissors, curved 3.5 cm blades with blunt tips, satin finish	5 mm	7.5 in (19 cm)	11.5 in (29 cm)
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Miscellaneous instruments

Chest tube passers



Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
CH04181	Curved shaft, matte finish	10 mm	None	6.75 in (17 cm)	10 in (25 cm)
CH04181-1	Curved shaft, matte finish	10 mm	Ratchet	6.75 in (17 cm)	10 in (25 cm)
CH04181-2	Curved shaft, matte finish	10 mm	None	11 in (28 cm)	13.5 in (34.5 cm)
CH04181-3	Curved shaft, matte finish	10 mm	Ratchet	11 in (28 cm)	13.5 in (34.5 cm)

Hooks



Cat. no.	Description	Working length	Total length
CH06167-1	Nerve and vessel hook, round handle, satin finish	10.5 in (26.5 cm)	13.75 in (35 cm)
CH06167-2	Vessel hook, round handle, satin finish	10.5 in (26.5 cm)	13.75 in (35 cm)
CH06167	Fine nerve and vessel hook, round handle, satin finish	10.5 in (26.5 cm)	13.75 in (35 cm)

Scalpel blade holders



Cat. no.	Description	Shaft diameter	Total length
CH0705	Scalpel blade holder, round handle, satin finish	5 mm	13.75 in (35 cm)



Suture pullers








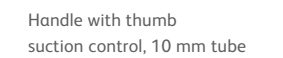
Cat. no.	Description	Shaft diameter	Working length	Total length
CH06166	Round handle, satin finish	2.1 mm	10.5 in (26.5 cm)	13.75 in (35 cm)

Suction instruments

Suction instruments—curved shaft

			CH8201	Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	None	6.75 in (17 cm)	12.25 in (31 cm)
CH8201-1			Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	Variable suction	6.75 in (17 cm)	12.25 in (31 cm)	
CH8201-2			Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	None	8.75 in (22 cm)	14.25 in (36 cm)	
CH8201-3			Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	Variable suction	8.75 in (22 cm)	14.25 in (36 cm)	
								

Suction instruments—straight shaft

	 <div>5 mm tube</div> <div>10 mm tube</div>		CH8051	Straight tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	5 mm	None	12.5 in (32 cm)	17.75 in (45.5 cm)
			CH8051-1	Straight tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	5 mm	Variable suction	12.5 in (32 cm)	17.75 in (45.5 cm)
			CH8051-2	Straight tube, Yankauer handle, 10 mm connecting end diameter, satin finish	10 mm	None	12.5 in (32 cm)	17.75 in (45.5 cm)
			CH8051-3	Straight tube, Yankauer handle, 10 mm connecting end diameter, satin finish	10 mm	Variable suction	12.5 in (32 cm)	17.75 in (45.5 cm)

Quick reference

Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
Thoracoscopic DeBAKEY clamps					
CH7233	60 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	5 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
CH7233-1	65 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	9 in (23 cm)	12.75 in (32 cm)
CH7233-2	100 mm curved 1 x 2 DeBakey atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14.25 in (36 cm)
CH7233-3	100 mm curved 2 x 3 DeBakey atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14.25 in (36 cm)
Thoracoscopic DeBAKEY clamps—tapered jaws					
CH7237	115 mm straight 1 x 2 DeBAKEY atraumatic tapered jaws, matte finish	10 mm	Ratchet	11.75 in (30 cm)	15 in (38.5 cm)
CH7237-1	110 mm curved 1 x 2 DeBAKEY atraumatic tapered jaws, matte finish	10 mm	Ratchet	11.5 in (29.5 cm)	15 in (38.5 cm)
VATS SEMB clamps					
CH1811	140 mm fully curved 1 x 2 atraumatic jaws, matte finish	10 mm	Ratchet	12.25 in (31 cm)	15.5 in (39.5 cm)
VATS LAMBERT KAY clamps					
CH7352	Curved 1 x 2 DeBAKEY atraumatic jaws, angled shanks, matte finish	10 mm	Ratchet	8.25 in (21 cm)	12.25 in (31 cm)
VATS HARKEN clamps					
CH6475	HARKEN no. 1 clamp, 95 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
CH6475-1	HARKEN no. 1 clamp, 95 mm curved 1 x 2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)
CH6477	HARKEN no. 2 clamp, 95 mm fully curved 1x2 DeBAKEY atraumatic jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
CH6477-1	HARKEN no. 2 clamp, 95 mm fully curved 1x2 DeBAKEY atraumatic jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)
VATS dissectors					
CH1778	VATS curved dissector, serrated jaws, matte finish	7 mm	None	9.125 in (23.3 cm)	13 in (33 cm)
CH1778-1	VATS curved dissector, serrated jaws, matte finish	7 mm	Ratchet	9.125 in (23.3 cm)	13 in (33 cm)
CH1776	VATS right angle dissector, DeBAKEY-COOLEY serrated jaws, matte finish	10 mm	None	10.5 in (27 cm)	14 in (35.5 cm)
CH1776-1	VATS right angle dissector, DeBAKEY-COOLEY serrated jaws, matte finish	10 mm	Ratchet	10.5 in (27 cm)	14 in (35.5 cm)
MIS forceps					
CH5915	MIS forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	3 mm		6.75 in (17 cm)	12 in (30 cm)
CH5916	MIS DeBAKEY forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)
CH5916-1	MIS DeBAKEY forceps, straight 1 mm serrated jaws, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH5916-2	MIS DeBAKEY forceps, straight 2.8 mm serrated jaws, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)

Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
MIS forceps (<i>cont'd</i>)					
CH5916-3	MIS DeBAKEY forceps, straight 2.8 mm serrated jaws, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH5917	MIS RESANO forceps, straight 2.8 mm atraumatic jaws, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)
CH5917-1	MIS RESANO forceps, straight 2.8 mm atraumatic jaws, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH1521	MIS Russian forceps, oval serrated cupped tip, curved left, round squeeze handle, satin finish	5 mm		9 in (23 cm)	14.5 in (36 cm)
VATS FOERSTER forceps					
CH9323	Curved left 20 mm, oval serrated jaws, matte finish	10 mm	None	9.75 in (25 cm)	13.5 in (34 cm)
CH9323-1	Curved left 20 mm, oval serrated jaws, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)
CH9323-2	Curved left 12 mm, oval serrated jaws, matte finish	7 mm	None	9.5 in (24 cm)	13.5 in (34 cm)
CH9323-3	Curved left 12 mm, oval serrated jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	13.5 in (34 cm)
CH9323-4	Curved left 10 mm, oval serrated jaws, matte finish	7 mm	None	9.5 in (24 cm)	13.5 in (34 cm)
CH9323-5	Curved left 10 mm, oval serrated jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	13.5 in (34 cm)
VATS node grasping forceps					
CH9329	Straight, oblong, 11 mm serrated jaws, matte finish	5 mm	Ratchet	9.75 in (25 cm)	14 in (36 cm)
CH9329-1	Curved, oblong, 11 mm serrated jaws, matte finish	5 mm	Ratchet	9.5 in (24 cm)	14 in (36 cm)
VATS DUVAL forceps					
CH1595	15 mm triangular serrated ring jaws, curved left, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)
CH1596	25 mm triangular serrated ring jaws, curved left, matte finish	10 mm	Ratchet	9.75 in (25 cm)	13.5 in (34 cm)
VATS ALLIS forceps					
CH1563	Curved left, 6 mm wide jaws, matte finish	7 mm	Ratchet	9.5 in (24 cm)	12.75 in (32.5 cm)
Micro/MIS needle holders					
CH2450	Straight TC coated jaws, 1 mm tip width, round squeeze handle, satin finish	3 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2453	Straight TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2453-1	Straight TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
CH2455	Straight jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2455-1	Straight jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
CH2465	Straight narrow Ryder jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)

Quick reference (cont'd)

Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
Micro/MIS needle holders (cont'd)					
CH2465-1	Straight narrow Ryder jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
CH2450-1	Curved TC coated jaws, 1 mm tip width, round squeeze handle, satin finish	3 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2453-2	Curved TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2453-3	Curved TC coated jaws, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
CH2455-2	Curved jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH2455-3	Curved jaws with TC inserts, round squeeze handle, satin finish	5 mm	Lock	9 in (23 cm)	14 in (35.5 cm)
CH2467	Straight TC coated jaws, ring handles, satin finish	5 mm	Ratchet	7.25 in (18.5 cm)	11.75 in (30 cm)
VATS heavy needle holders					
CH2468	Straight heavy jaws with TC inserts, matte finish with gold plating	7 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
CH2472	Straight extra-heavy jaws with TC inserts, matte finish with gold plating	10 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
CH2468-1	Curved heavy jaws with TC inserts, matte finish with gold plating	7 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
CH2472-1	Curved extra-heavy jaws with TC inserts, matte finish with gold plating	10 mm	Ratchet	8.25 in (21 cm)	13.5 in (34 cm)
MIS scissors					
CH5707	Curved blades, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)
CH5707-1	Curved blades, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH5707-2	Strongly curved blades, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)
CH5707-3	Strongly curved blades, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH5707-4	Full curved blades, round squeeze handle, satin finish	5 mm		6.75 in (17 cm)	12 in (30 cm)
CH5707-5	Full curved blades, round squeeze handle, satin finish	5 mm		9.25 in (23.5 cm)	14 in (35.5 cm)
CH5709	45° angled blades, round squeeze handle, satin finish	3.5 mm		8.5 in (21.5 cm)	13.5 in (34 cm)
CH5709-1	125° angled blades, round squeeze handle, satin finish	3.5 mm		8.25 in (21 cm)	13.25 in (33.5 cm)
Thoracoscopic scissors					
CH2029	Thoracoscopic METZENBAUM scissors, curved 3.5 cm blades with blunt tips, satin finish	10 mm		7.75 in (19.5 cm)	11.5 in (29 cm)
CH2022	Thoracoscopic dissecting scissors, curved 3.5 cm blades with blunt tips, satin finish	5 mm		7.5 in (19 cm)	11.5 in (29 cm)

Cat. no.	Description	Shaft diameter	Ratchet	Working length	Total length
Knot tier/pushers					
CH06162	Round squeeze handle, satin finish	5 mm	None	6.75 in (17 cm)	12 in (30 cm)
CH06162-1	Round squeeze handle, satin finish	5 mm	Lock	6.75 in (17 cm)	12 in (30 cm)
CH06162-2	Round squeeze handle, satin finish	5 mm	None	9.25 in (24 cm)	14.5 in (36 cm)
CH06162-3	Round squeeze handle, satin finish	5 mm	Lock	9.25 in (24 cm)	14.5 in (36 cm)
Fan retractors					
CH8128	Straight articulating shaft, matte finish	5 mm		13.25 in (33.5 cm)	18.75 in (47.5 cm)
CH8128-1	Straight articulating shaft, matte finish	10 mm		13.75 in (35 cm)	18.75 in (47.5 cm)
Chest tube passers					
CH04181	Curved shaft, matte finish	10 mm	None	6.75 in (17 cm)	10 in (25 cm)
CH04181-1	Curved shaft, matte finish	10 mm	Ratchet	6.75 in (17 cm)	10 in (25 cm)
CH04181-2	Curved shaft, matte finish	10 mm	None	11 in (28 cm)	13.5 in (34.5 cm)
CH04181-3	Curved shaft, matte finish	10 mm	Ratchet	11 in (28 cm)	13.5 in (34.5 cm)
Scalpel blade holders					
CH0705	Round handle, satin finish	5 mm			13.75 in (35 cm)
Hooks					
CH06167-1	Nerve and vessel hook, round handle, satin finish			10.5 in (26.5 cm)	13.75 in (35 cm)
CH06167-2	Vessel hook, round handle, satin finish			10.5 in (26.5 cm)	13.75 in (35 cm)
CH06167	Fine nerve and vessel hook, round handle, satin finish			10.5 in (26.5 cm)	13.75 in (35 cm)
Suture pullers					
CH06166	Round handle, satin finish	2.1 mm		10.5 in (26.5 cm)	13.75 in (35 cm)
Suction instruments					
CH8201	Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm		6.75 in (17 cm)	12.25 in (31 cm)
CH8201-1	Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	Variable suction	6.75 in (17 cm)	12.25 in (31 cm)
CH8201-2	Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm		8.75 in (22 cm)	14.25 in (36 cm)
CH8201-3	Curved tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	3.2 mm	Variable suction	8.75 in (22 cm)	14.25 in (36 cm)
CH8051	Straight tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	5 mm		12.5 in (32 cm)	17.75 in (45.5 cm)
CH8051-1	Straight tube, Yankauer handle, 7.5 mm connecting end diameter, satin finish	5 mm	Variable suction	12.5 in (32 cm)	17.75 in (45.5 cm)
CH8051-2	Straight tube, Yankauer handle, 10 mm connecting end diameter, satin finish	10 mm		12.5 in (32 cm)	17.75 in (45.5 cm)
CH8051-3	Straight tube, Yankauer handle, 10 mm connecting end diameter, satin finish	10 mm	Variable suction	12.5 in (32 cm)	17.75 in (45.5 cm)

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