Healthcare Deck 2 - Sample ODA 2

DRAFT



AGENDA

Initial perspectives and thesis

Asset overview

Market and competitive positioning

Potential scope and approach

Summary "outside-in" perspectives

What we like

- MedTech is a highly attractive precision engineering segment with macro tailwinds, sticky customer relationships, and long product lifecycles
- Target has forged enduring blue chip customer relationship with Customer 1 in MedTech
- Value chain integration on design / engineering and proprietary tech (to be validated) leading to customer stickiness
- End-to-end capabilities—from product design and tooling to highvolume manufacturing—which creates a differentiated value proposition for customers
- Cost-effective scale through manufacturing base in Malaysia coupled with innovation center supporting R&D and advanced automation (Industry 4.0) adoption in Singapore
- Clear strategic exit opportunities for precision engineering groups looking to enter coveted MedTech space

PRELIMINARY OUTSIDE-IN PERSPECTIVES

What gives us a pause

- High concentration of economics with major share of revenues coming from concentrated set of customers, mainly Customer 1 and Customer 2; ability to sustain high margins in future depends on relationship with these customers and customer's position vs. peers in market
- Operationally, ability to scale up current capacity of 16 manufacturing sites (CAPEX required, ability to scale utilization, supply chain performance)
- Manufacturing focused on Singapore and Malaysia and potentially exposed (favorably or unfavorably) to global supply chain shifts
- Degree of differentiation on consumer business and existence of barriers to margin erosion still remain unclear
- · With any precision manufacturing diligence, key to understand:
 - Truly addressable TAM (given product focus/capabilities and manufacturing footprint) and potential for growth
 - Long-range plan and extent to which programs are secured / how target is performing on win-rates
 - Customer perceptions and stickiness + sustainability of margins

Hypothesis Deal Thesis For Target

HYPOTHESIS TO BE VALIDATED, FOR DISCUSSION

- Fundamentally attractive market w/ growing demand esp. in key segments
 - Strong fundamental growth profiles of MedTech / Consumer electronics industries backed by macro tailwinds (defendable position in Consumer, higher growth validated in MedTech)
 - Stable outlook for CDMO industry (clear value proposition towards customers, any macro shifts towards in-sourcing)
 - Stable or positive price and profitability outlook (low risk of margin compressions) in key market segments
 - Limited (or manageable) risks
 of market disruption (e.g. trade
 war, reimbursement risks for
 MedTech in key countries)

- Strong competitive and defensible position w/ key accounts
- MY / SG macro stability as a CDMO location (e.g. vs. other lower cost locations like CN)
- High stickiness to switching (e.g. friction to switching to other manufacturers esp. in MedTech)
- Evidence of growing market share / share of customer amongst key accounts and / or strong relationships (e.g. high stickiness of book, increasing share of wallet)
- Competitive advantage vs. other similar competitors in the APAC region
- Deep dives into Customer 1 & (to lighter extent – Customer 2) given outsized share of EBITDA

- High confidence in management plan
- Substantial and realistic (i.e. formal purchase orders? Locked in contracts?) revenue growth potential from existing customers; pathway to economies of scale
- Overall attractive & pressure tested base case and upside
- No red flags on current plant and manufacturing capabilities
- No obvious choke points to scale up volume (i.e. growth scaling accounted for in business plan, performance on key KPIs & benchmarks, SLA & supply chain metrics, CAPEX requirements accounted for in plan

- Attractive upside from value creation levels
 - Expansion potential to other geos / close adjacent segments (both product and customer level given current capabilities
 - Hypothesis proven on various opportunities:
 - M&A of other CDMOs and synergies from the combined entities
 - Consumer electronic carve out
 - Others as identified in CDD

AGENDA

Initial perspectives and thesis

Asset overview

Market and competitive positioning

Potential scope and approach

Precision engineering player with MedTech contract mfg. capability; operates 16 sites with 3600+ staff members across Singapore, Malaysia, and China

TARGET

BUSINESS OVERVIEW

Business description

Foundation: 1987

Private company (de-listed 2012); owned by Holding Company 1; Dymon Ownership:

Asia PE holds stake in the company as well

HQ: Singapore

Target is an **established EMS partner** catering to various industries.

including medical devices (ISO 13485 certified*), consumer electronics, Description:

and business equipment

B2B contract manufacturer offering turnkey manufacturing solutions

Business model:

Derives revenue from **long-term agreements** or purchase orders with large original equipment manufacturers (OEMs)

• Serves a concentrated set of key customers, primarily global MNCs in its focus industries

Current employees:

~3600 (2025)

Capability overview

Design & Engineering

(3D printing, Industrial design, mechanical design, UI/UX design, design for mfg.)

Injection molding

(2k/3k molding, thermoset, cleanroom medical molding)

Electronic Manufacturing Services

(PCB assembly, SMT/ Non-SMT equipment, testing/ failure analysis, mfg. exec system.)

Contract manufacturing

(Usability & functionality test, manufacturing implementation)

Geographic footprint

- 16 production sites across Singapore, Malaysia and China
- ~300 plastic molding machines ranging from 15 to 850 tons in clamping force
- Holds 20+ patents and design registrations_

Including MedTech related patents for Method of Making Flexible Tubing with Embedded Wire Conductor, Conductive Fabric Medical Tube Using Conductive Ink, Fabric Weave on Flexible Plastic Tubing, etc.

China** Target Precision Technology Co., Ltd. Site space: 26.000m² Malaysia** Target Technologies Sdn Site space: 54,000m² Singapore** Target HQ Target Innovation Center Site space: 21,000m² Target Industrial Building Site space: 3,000m²

Key anchor customers

Customer 2 **Customer 1**

(consumer)

(med-tech)

• Medical Juvenile Products

Energy Services

Software services

(Information architecture, design, implementation)

iSmart factory

(Automation/robotics, design for smart assembly,

smart planning & logistics)

Clean Technology

Industries served

• Consumer Products •

- Storage Media & Business Equipment
- Automotive

Mold making

(Computer numerical control, electrical discharge machining, in-house software)

Innovative manufacturing tech

(Sequential Mold Technology (SMT), Maestro, Picco, Allegro, multi-level tech)

Other innovative capabilities

(Innovative Compression Molding Silicone Rubber (ICSMR), Innovative Smart Automation (ISA), Innovative Target Skin (IMS), Innovative Additive Manufacturing (IAM))

Note: (*) International quality standard for medical devices; **Key sites mentioned on the company website, not exhaustive Source: Company website, company reports, Lit. search, Bain analysis



Capabilities with MedTech focus

Target has organically grown its footprint to 16 production sites

DRAFT

	Т	Α	R	G	Е	Т
--	---	---	---	---	---	---

BUSINESS TIMELINE

1987	Founded by Mr. Xyz as a Singaporean injection molding company based in Eunos	Key sites*	
			Target HQ (Target Innovation Center)
2004	Signed a JV with Customer 2 to form Target-Customer 2 Laundry manufacturing Plant in Malaysia	Site 1	Location: Singapore
2010	Established Target Energy, a specialized subsidiary focusing on machining long products		Site space: 21,000m ²
	for the oil and gas industry, with the launch of its first manufacturing facility in Malaysia to support its operations and expand presence in the sector		Target Industrial Building
2012	Delisted from the Singapore Exchange (SGX) following the acquisition of its entire issued and paid-up share capital by Chairman and CEO Xyz through Holding Company 1	Site 2	Location: Singapore
	paid-up share capital by Ghairman and GEO Ayz through Holding Company 1		Site space: 3,000m ²
2016	Launched the Target iSmart Factory Project, an initiative focused on integrating Industry 4.0 technologies into its manufacturing processes (automation/ robotics, design for smart assembly, smart planning & logistics)		Target Technologies Sdn Bhd
	accounty, committee of regions,	Site 3	Location: Malaysia
2018	Received strategic investment from Dymon Asia Private Equity to enhance capabilities, expand its market presence, and accelerate growth		Site space: 54,000m²
2020	Opened a new subsidiary, Target Medical & Healthcare during the COVID-19 pandemic to		Target Technologies (Zhongshan)
	mass manufacture and sterilize the IM2 swabs under the xxx brand; Target Energy consolidated its Singapore and Malaysia facilities into a new 90,000 sq. ft. facility in Johor,	Site 4	Location: China
	Malaysia		Site space: 26,000m ²
2024	Currently operate 16 production sites across Singapore, Malaysia, and China catering to U.S. and European brand owners of consumer products, business equipment, medical devices etc.		

Note: *Key sites mentioned on the company website, not exhaustive Source: Company website, lit. search

Target generates a major share of revenue though its long-term contract manufacturing partnership with Customer 2 and Customer 1

TARGET

KEY CUSTOMERS

/ D R A F T

Customer 2 X Target

Customer 1 X Target

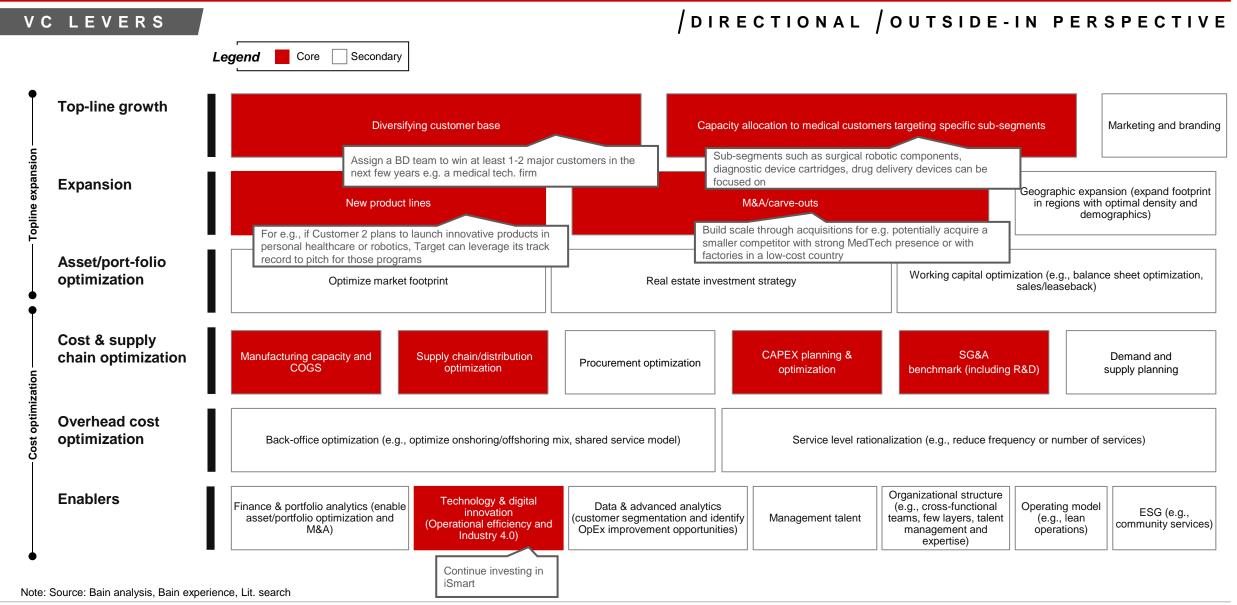
Target has been in an active and dynamic manufacturing partnership with Customer 2 and Customer 1 since the 2000s

- The partnership first began in 2004, when Customer 2 teamed up with Target to gain local production expertise upon shifting manufacturing base to Malaysia to reduce costs
- Customer 2 began working with Target in Singapore to produce the motors for its products in 2007
- In 2019, Customer 2 relocated its global headquarters from the UK to Singapore – a strategic decision to move closer to its manufacturers, including Target to speed up product roll-outs in Asian markets and enhance collaboration on R&D
- Target gained additional production after Customer 2 severed its ties with ATA IMS, Malaysia over ESG concerns

- Customer 1 first teamed up with Target in 2009 to launch its Singapore manufacturing operations – a partnership driven by Customer 1's need to grow internationally and Target's expertise in injection molding and precision tooling
- The partnership & contract manufacturing led to products such as the AirSense CPAPs, ClimateLine tubes & AirFit masks
- The partnership was advantageous for Customer 1 by enabling increased growth and supply resilience, while Target benefited through financial stability, business expansion & diversification
- Target's capacity & resource expansion in MedTech, can increase revenue share from ~ 20% today to 30–40% by 2030

Target's strong relationship with Customer 2 and Customer 1 (anchor customers) provides revenue stability

Opportunity to grow by focusing on diversifying customer base, grabbing new contract for product lines of existing customers, and cost/ supply chain optimization



AGENDA

Initial perspectives and thesis

Asset overview

Market and competitive positioning

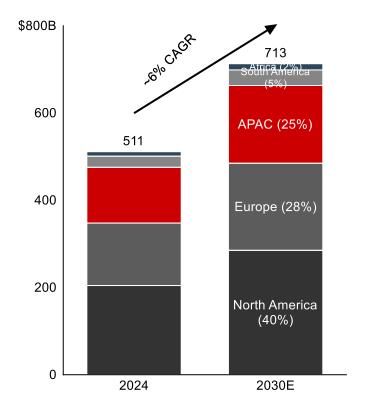
Potential scope and approach

Growth in MedTech contract manufacturing is outpacing that of MedTech devices, driven by industry cost pressures and service provider improvements

MEDTECH MARKET SIZE

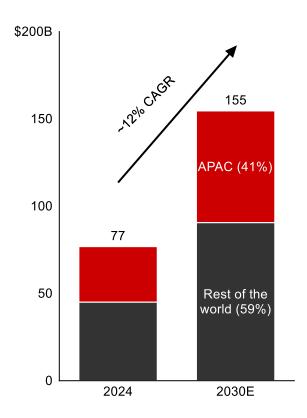
While MedTech devices is expected to grow by ~6% through 2030...

Global Medical Device Market (\$B)



...MedTech contract manufacturing is expected to grow by ~12%....

Global MedTech Contract Manufacturing (\$B)



...driven by cost, shorter development timelines, and improved capabilities

- Rising cost pressures are driving OEMs to increase outsourcing as a way of managing costs
- Increased customer demand for rapid product innovation is accelerating development timelines
- Service providers are increasingly growing in sophistication and building capabilities to serve large OEMs
- OEMs are growing increasingly comfortable with outsourcing as the industry moves up the adoption curve

Market expert

Source: Nagarro, Grandview Research

[&]quot;We are being pushed to outsource more and more at our company, with the increasingly fast timelines we realize we cannot meet them on our own."

CDMOs are benefiting from the end-market growth in demand for MedTech devices, but also from the increasing preference of OEMs to outsource

CDMO TRENDS

Drivers pushing MedTech companies (OEMs) to outsource



Pricing pressure from customer (hospital) consolidation and increased sourcing sophistication



Complex and evolving regulatory requirements (e.g., EU MDR)



Inconsistent utilization of resources and functions due to product lifecycle (e.g., regulatory expertise)



Vendor consolidation enabling more cost-efficient services and reliable quality standard



High capex and niche expertise that med tech companies don't want to build in-house



International expansion to emerging markets, requiring decentralized operations and understanding of consumer and regulatory landscape



Emerging desire of OEMs to offer **value-added services** to customers (e.g., cath lab management)





Aging populations expected to increase demand for MedTech devices, with population aged 60+ is expected to reach ~2.1B by 2050, up from ~1.4B in 2020

 The location of the world's aging population is significantly skewed towards geographies that are relevant markets for MedTech devices, increasing the relevance of this trend for the industry



Prevalence of cardiovascular diseases, which already account for ~30% of deaths globally, **is expected to continue increasing,** in part due to the world's aging population



Prevalence, diagnosis and management of chronic diseases is expected to continue growing, again in part due to the world's aging population



Further, innovation should continue to fuel growth, primarily through the increase of tech-enabled products and growth of homecare devices

4 trends within MedTech are shaping the CDMO market, and driving growth

CDMO TRENDS

Key trend	Description	CDMO implication	Commentary from CDMOs
Shortened product life cycles	 Medical product life cycles are shortening, making speed-to-market a key priority for OEMs 	Drives importance of closer alignment and deeper partnerships with OEMs	"A key reason OEMs use CDMOs is because the CDMOs have much faster development timelines—development cycles for CDMOs are typically half as long as OEM's because of enhanced focus and expertise"
Cost pressure	 Cost pressures on OEMs are causing them to both outsource additional activities and rationalize their number of 3rd party vendors 	 Increases CDMO adoption Pushes CDMOs to offer a broader set of services / capabilities 	"Cost affects OEMs in how they deal with CDMOs. In the past they tried to operate their own equipment, but they're increasingly relying on CDMOs for this and focusing on their core competencies."
		Drives price pressure	
Consolidation	 Consolidation in the broader provider and payer ecosystem is causing OEMs to consolidate at a rapid pace to stay competitive 	 Propels consolidation forward within highly fragmented CDMO industry, as players seek to achieve the scale needed to serve large OEMs 	"As more and more OEMs have approved vendor lists due to increasing regulation, consolidation is critical to gain access to RFPs as a CDMO."
Technology / innovation	 Advances in technologies (e.g., 3D printing, analytics, laser cutting) are driving OEM investments 	Improves appeal of CDMOs with advanced engineering capabilities and expertise	"CDMOs invest in new technologies across the value chain because this is their core business. For many OEMS, manufacturing is not their competency, so they're less likely to make the capital outlay for the latest manufacturing technology"

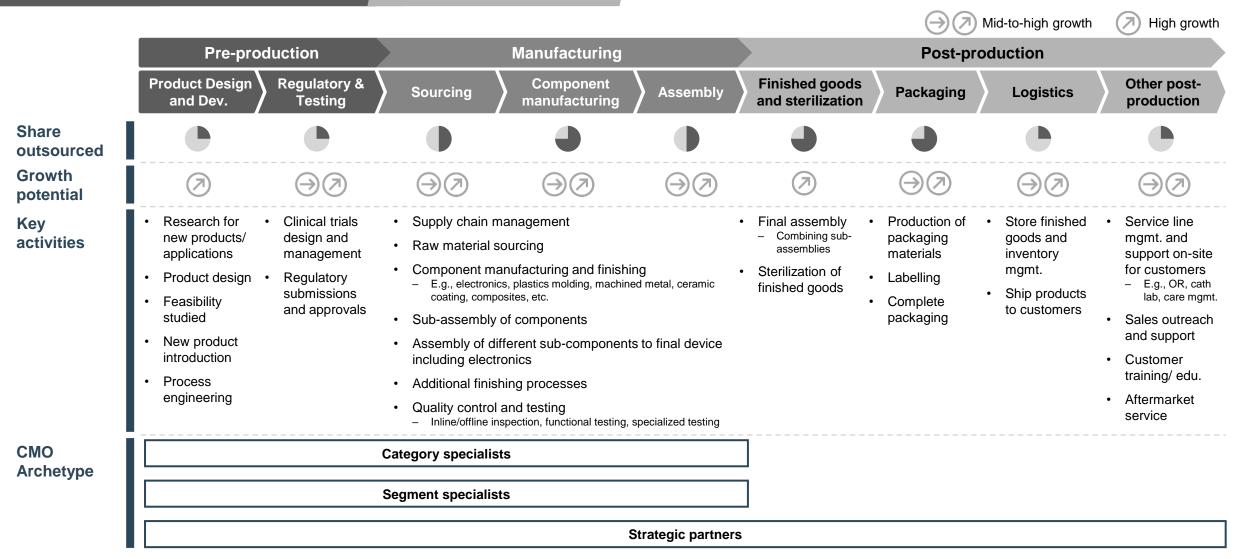
Source: Duff & Phelps Medical Device Manufacturing Update, Bain experience, Lit. Search

This information is confidential and was prepared by Bain & Company solely for the use of our client; it is not to be relied on by any 3rd party without Bain's prior written consent

OEM outsourcing has historically been focused mainly on manufacturing activities, now seeing a shift towards outsourcing more of the value chain

COMPETITIVE DYNAMICS

VALUE CHAIN



Source: Market participant interviews

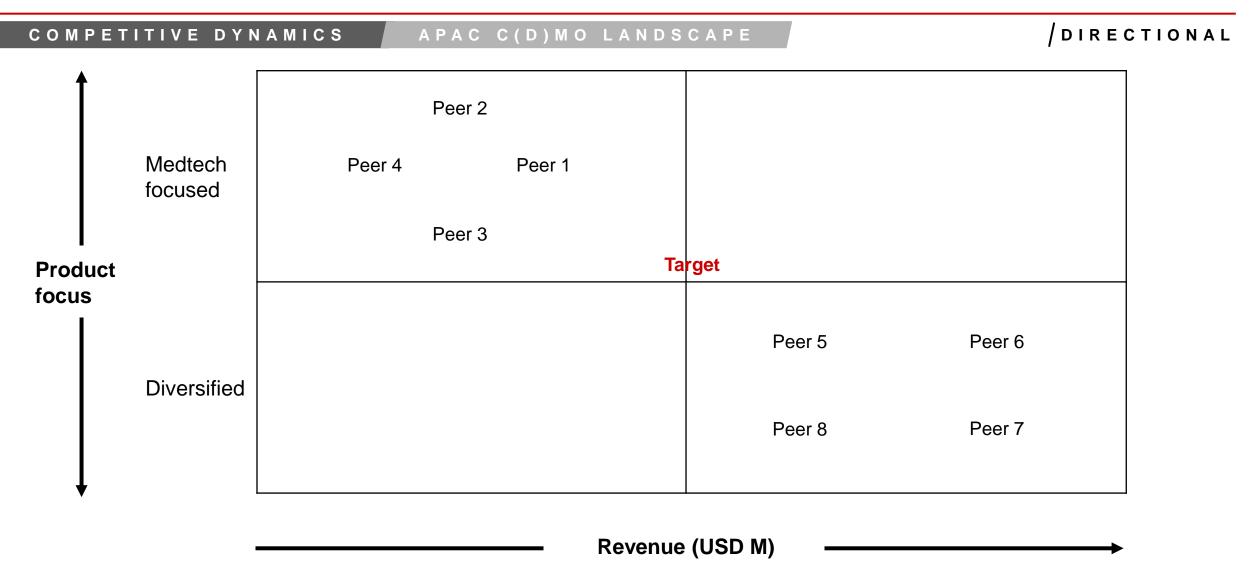
OEMs choose CDMOs based on product stage, with technical expertise being key in the initial stages, and service range being more important in the later stages

COMPETITIVE	DYNAMICS DR	IVERS						
	·	•	Product life	ecycle phase ——		-•		
Drivers	Description	Pre-commercial (~5 years)	Introduction (1-2 years)	Growth (2-3 years)	Maturity	Commentary	Legend: Low	High
Technical expertise	OEM purchasing decisions generally made by end-market leaders (e.g., Ortho group at Medtronic), making specific technical expertise critical to expanding share-of-wallet			•		impossible to become OEMmany CMOs markets (e.g., surgic	and-market expertise, its me the primary CMO for a are focusing on the high-g al robotics). This makes it If you lack that expertis- tion."	large rowth end- critical to
Customer advocac	Strong positioning with existing y customers is a pre-requisite to deeper partnerships	•	•		•	Over time, the OEM our value-add on a s	real-world experience wi will come to us and ask us pecific device (e.g,. drill ho hat trust we wouldn't ge	to increase bles in
Account management	As share-of-wallet grows with top customers, the expectation for best-in-class service and relationships management growth	•	•	•		managers to own 1 - handling one custo account managers	alized salespeople as glob - 2 large customer relation mer is a huge responsib are often former employ ery important to know the d	ships ility . Our ees at the
O Price	The ability to produce at low cost is a key consideration, especially for productions at scale at the latter stages of the product lifecycle		•	•	•	at low cost when ra especially key during	CMOs that can deliver higl mping up sales. Low-cost of the maturity phase, when DEMs are trying to squeeze the product"	structure is sales are
Service range	Playing a strategic partner role requires CMOs to build a broad set of capabilities across the value chain	•		•	•	OEMs, you really n e	ne primary CMO for one of eed to be able to provide king for. That's really a s ble to do it."	all the

Technical expertise and customer advocacy are most relevant in the early stages of the product lifecycle, whereas account management and service range become most relevant in the later stages

Source: Market participant interviews, Bain POV

Top-tier players have successfully diversified into higher margin high-precision and/or value-added services



Benchmarking | Target Vs. Mid-sized medical specialists (1/2)

BENCHMARKING

MID-SIZE MED SPECIALISTS

/NON-EXHAUSTIVE

	Target	Peer 1	Peer 2	Peer 3	Peer 4
Headquarters			\$		*
Founded	1987	1982	1988	1986	1997
Business description	EMS provider offering design, development, contract manufacturing, and full product assembly to medical, energy, and consumer product industries	Precision engineering company engaged in the design, manufacture and repair of products for the medical industry	Offers turnkey manufacturing solutions for the medical device industry; specializing in end-to-end production of minimally invasive medical devices	Specializes in R&D, production, component supply, and marketing of respiratory therapy products in emergency and respiratory therapy	Medical devices manufacturer specializing in respiratory therapy, imaging disposable products, and orthopedic and rehabilitation products
Ownership	Private - Owned by Holding Company 1; PE owner: Dymon Asia Capital	Private - Owned by FSP Holdings	Private - Owned by Boyu Capital	Private - Owned by Nexus Point Capital	Public - 58.5% owned by Vincent Raya International
# of employees	3,600+	Limited info	3,600+	650+	1200+
M&A Activity (Since 2021)	Limited info	Limited info	Acquired Creganna operation in SG from TE in 2021 and balloon catheter segment from Ridgeback in 2024	Limited info	Limited info
Industries served	Consumer Products, Medical, Clean Tech, Automotive, Energy Services,	Medical/surgical equipment, critical care, orthopaedics, precision machining	Medical devices	Medical devices	Medical devices
MedTech focus	•	•		•	•
Precision engineering capability (estimated)	•	•	•	•	•
Medical products	Devices for Heart Valve Therapy, Sleep Disorder, Laboratory Instruments, Syringe Systems, Blood Collection	Endoscopy couplers, disposable pressure transducers, robotic surgery systems	Medical balloons and catheters, microsensors for minimally invasive medical devices	Breathing trainers, laryngoscopes, resuscitation devices, spacers, anesthesia & NIV masks	High-flow oxygen therapy devices, respiratory humidification systems, rehabilitation devices
Capacity	16 production sites across SG, MY, CH; 104k sq. m. across 4 key sites	Limited info	10 global facilities; Production space - 700k sq. ft.	Limited info	2 production facilities; 764K+ sq.ft manufacturing site
ISO certification	ISO 13485:2016*, ISO 27001:2022, ISO 9001:2015, ISO 14001:2015, ISO 22301:2019	ISO 13485:2016*, ISO 14001, ISO 9002	ISO 13485:2016*	ISO 13485: 2016*, ISO 14001:2015, ISO 9001: 2015	ISO 13485:2016*, ISO 9001

Source: Lit. search; Company and competitor websites

Benchmarking | Target Vs. Large Asian Manufacturing Groups (2/2)

BENCHMARKING

LARGE MFG. GROUPS

/NON-EXHAUSTIVE

	Target	Peer 5	Peer 6	Peer 7	Peer 8
Headquarters					\$
Founded	1987	1980	1958	1995	2017
Business description	EMS provider offering design, development, contract manufacturing, and full product assembly to medical, energy, and consumer product industries	Integrated contract manufacturer specializing in precision tooling, plastic molding, metal stamping, and full product assembly for mobile, lifestyle, computing, medical, and industrial devices	Designs and manufactures high- precision interconnect and mechanical products for markets such as Medical, Mobility, and Information & Communications Technology	Manufactures precision plastic components and offers product and mold design, fabrication, injection molding, precision assembly of complete products in automotive, consumer, IT, healthcare industries	Specializes in high-precision tools and injection-molded components for electronics, automotive, healthcare, and industrial markets; services include tooling, molding, metal stamping
Ownership	Private - Owned by Holding Company 1; PE owner: Dymon Asia Capital)	Private - 65 Equity Partners invested \$74.15M in Hi-P International in 2024	Private - Owned by Blackstone	Private - Backed by Novo Tellus Capital Partners	Private - Ying Shing and Fischer Tech entered a strategic merger (2017); Backed by Platinum Equity
# of employees	3,600+	15000+	11,000+	9000+	5,000+
M&A Activity (Since 2021)	Limited info	Limited info	Acquired US-based OCP Group (2021)	Acquired Proactive Plastics in 2024	Limited info
Industries served	Consumer Products, Medical, Clean Tech, Automotive, Energy Services,	Mobile Device, Lifestyle, Computing & Peripherals, Medical, Industrial	Medical, mobility, information and communications	Automotive, Aerospace, Consumer, IT, Healthcare, Personal Protective	Electronics, automotive, medical, and industrial markets
MedTech focus	•	•	•	•	•
Precision engineering capability (estimated)	•	•	•	•	•
Medical products	Devices for Heart Valve Therapy, Sleep Disorder, Laboratory Instruments, Syringe Systems, Blood Collection	Medical diagnostic products	Medical interconnects, injection molded components, cable assemblies, harnesses and finished devices	Medical disposables, heard aids, airway management, orthopedic, optometric devices and components	Diagnostic & patient monitoring devices, drug dispensing & delivery systems, imaging equipment
Capacity	16 production sites across SG, MY, CH; 104k sq. m. across 4 key sites	9 manufacturing sites across China and Thailand	33 manufacturing sites, 6 design centers, 9 R&D sites	18 manufacturing facilities across 9 countries; factory space 4 million sq. ft.	3 facilities; Manufacturing space – 1.2 million sq. ft.
ISO certification	ISO 13485:2016*, ISO 27001:2022, ISO 9001:2015, ISO 14001:2015, ISO 22301:2019	ISO 9001, ISO 14001, ISO 13485*	ISO 9001:2015, ISO 13485:2016*, ISO 14001:2015, ISO 45001:2018, ISO/IEC 17025:2017 , AS 9100:2016 IATF 16949:2016 , ISO 14554-1:2013 , ISO 3834-2:2005, ISO 27000:2013	ISO 9001, ISO 13485*, ISO 14001, ISO 45001	ISO 13485*,ISO 14001, ISO 9001:2000, ISO 22301, ISO TS 16949

Source: Lit. search; Company and competitor websites

Potential roll-up play: Sample asset list for SEA Medtech/CMO players (1/2)

	Overview				Industry focu	'S	Medtech contract man	nufacturing focus		Others
	Company Name	Head- quarters	Revenue (US\$M, Year)	EBITDA (US\$M, Year)	Only medtech contract mfg (Y/N)	Other industries	Medtech sub- segments	Product examples	Location of contract mfg sites	Other remarks (e.g., M&A, carveout)
1	Target Corporation	Singapore	n/a	n/a	No	Services: Design & Engineering, Software Mfg industries: CP, Automotive	Heart valve therapy, sleep apnea, hospital supplies	Heart valve therapy devices, sleep disorder devices, syringes	Singapore, China, Malaysia	
2	Medtech 1	Singapore	\$49M (2021)	N/A	No	Services: Product applications and development	Diagnostic imaging, drug delivery, hospital supplies, respiratory devices	Diagnostic devices, respiratory airways, drug delivery systems, feeding catheters	Singapore, China	Independent subsidiary of VicPlas International
3	Medtech 2	Malaysia	\$41M* (Year N/A)	N/A	Yes	N/A	Hip and knee reconstruction	Fragment plates and screws, wires, external fixators	Malaysia	
4	Medtech 3	Malaysia	\$32M (2020)	4M (2020)	Yes	N/A	Hip and knee reconstruction; spinal surgery	Bone screws, nails, knee components for implants, sutures	3 sites in Penang, Malaysia	
5	Medtech 4	Thailand	\$31M (2020)	\$8M (2020)	No	Services: Product development, logistics Mfg industries: Pharma	Hospital supplies	Sterile liquids, aerosol sprays, emulsions	Thailand	
6	Medtech 5		\$10M (2021) nue only for Malaysia diary of Medtech 5	\$0.7M (2021) an	No	Mfg industries: Pharma manufacturing	Orthopaedic implants, dental implants, vascular medical devices, laproscopy, wound care	Bone implants, injection molding, gluing connectors	Malaysia, USA (3), Poland	
7	Medtech 6	Singapore	N/A	\$15K (2012)	Yes	N/A	Medical cables	Medical cables	Singapore, China, Germany, US	Acquired by Carlisle Interconnect Tech

Note: * From ZoomInfo

Source: EMIS; Literature Search

This information is confidential and was prepared by Bain & Company solely for the use of our client; it is not to be relied on by any 3rd party without Bain's prior written consent

Potential roll-up play: Sample asset list for SEA Medtech/CMO players (2/2)

	Overview				Industry focu	s	Medtech contract man	ufacturing focus		Others
	Company Name	Head- quarters (Offices)	Revenue (US\$M, Year)	EBITDA (US\$M, Year)	Only medtech contract mfg (Y/N)	Other industries	Medtech sub- segments	Product examples	Location of contract mfg sites	Other remarks (e.g., M&A, carveout)
8	Medtech 7	USA	N/A	N/A	Yes	N/A	Hip, knee, spine surgeries, trauma fixation	Joint implants, modular racks, femoral broach holders, plate benders, disc prep elevators	Malaysia, USA, France	Part of co. acquired by Montagu PE firm in 2021
9	Medtech 8	Malaysia	N/A	N/A	Yes	N/A	Orthopedic instruments and implants (MY)	Spinal implants, interlocking nails, external fixators	Malaysia, India	
10	Medtech 9	Malaysia	N/A	N/A	No	Services: Product Design & Development	Orthopedic instruments and implants (MY)	Trauma implants, spinal surgical instruments	Malaysia	
11	Medtech 10	Singapore	N/A	N/A	No	Services: Product Design & Development Mfg industries: Life Sciences, Bioprocessing Tools	IVF equipment	Multiroom incubator, timelapse incubator	US, UK, Indonesia, Singapore	
12	Medtech 11	Singapore	N/A	N/A	No	Mfg industries: Cell line creation, clinical trial materials	IVD, hospital supplies	Covid-19 isolation booths, immunoassay reagents, PCR enzymes	Singapore, USA	Subsidiary of Medtech 11 Lifesciences Group
13	Medtech 12	Singapore	N/A	N/A	No	Mfg industries: Automotive, industrial, electronics	IVD, hospital supplies, ENT, general surgery	IVD solutions, hearing aids, robotic surgical systems	Singapore, China	
14	Medtech 13	Singapore .	N/A	N/A	Yes	N/A	General surgery, drug delivery	Balloon tubing, IV catheter tubing, guide catheter	China	
Source	: EMIS; Literature Sea	arch								

Key risks and their potential impact on MedTech CDMOs

CDMO RISKS

Key risks	Description	CDMO implication	Reference points
Regulatory & compliance Changes	Stricter FDA and EU MDR rules increase the complexity of medical device approvals	 Need for ongoing investment in compliance systems and risk of delays in certification Increased operational costs for regulatory updates 	The EU MDR (effective 2021) introduced tougher certification requirements ; as of mid-2022, >85% of devices had not yet been certified under the new rules, creating a backlog
Supply chain disruptions	Global supply chain shifts lead to shortages of materials and logistics delays	 Production delays due to material shortages Increased logistics, sourcing costs and supply chain flexibility 	"Commercial slowdown in China, a key player in the production of plastics, electronic components, etc. has exposed medical device manufacturers to surges in material and transportation costs , as well as unpredictable procurement delays " – Market expert
Geopolitical & market access barriers	Trade wars, tariffs, and export controls disrupt global supply chains and access to markets	 Need to adjust manufacturing strategies for tariffs and increased risk of market access Diversified operations become key for resilience 	New wave of import tariffs introduced by U.S in 2025 on medical device components, semiconductors, and precision manufacturing equipment coming from China, Mexico and Canada will lead to increased production costs for U.S based manufacturers relying on imported parts
Margin pressures	Rising margin pressures doubled with challenges to pass through cost inflation to powerful customers	 Stronger focus on operational efficiencies, cost-cutting measures, and lean manufacturing practices Strategic investments in automation and process optimization 	Contract manufacturing is competitive (global EMS margins ~5–8%), and companies must continuously manage costs (labor, resin) and pricing

Source: Lit. search, Bain experience

AGENDA

Initial perspectives and thesis

Asset overview

Market and competitive positioning

Potential scope and approach

Scope questions for discussion – Commercial (1/4)

1											
/	F O	R	D I	IS	C	U	S	S	ı	\mathbf{O}	Ν

	Key topics / questions	Proposed approach / source
MedTech industry market	What is the market size of the industry globally (2021A, 2024A, 2030F)? By region? By therapeutic area? What is the market size of the industry globally (2021A, 2024A, 2030F)? By region? By therapeutic area?	Secondary reports, industry
size, trends and growth	What is the growth drivers of the industry? Current industry trends?	participants interviews, TAM modelling
	 Who are the key players? By region? By therapeutic area? [proposed to focus on key region and key therapeutic areas] 	modelling
	 Trend of in-housing vs. outsource? % outsource overtime? Why? 	
	Margin trend?	
MedTech CDMO industry	What is the market size of the industry globally (2021A, 2024A, 2030F)? By region? By therapeutic area?	Secondary reports, industry
market size, trends and	What is the growth drivers of the industry? Current industry trends? E.g. Cost pressures	participants interviews, TAM
growth	Who are the key players? By region? By therapeutic area? Target's market share?	modelling
	Margin trend?	
Consumer electronics industry market size,	 What is the market size of the industry globally (2021A, 2024A, 2030F)? By region? By type of product? What are the sub-segments under consumer electronics that are most attractive going forward? 	Secondary reports, industry participants interviews, TAM
trends and growth	What is the growth drivers of the industry? Any trend?	modelling
	• Who are the key players? By region? By type of product? [proposed to focus on key region and key sub-segments]	
	Trend of in-housing vs. outsource? % outsource overtime? Why?	
	Margin trend?	
Consumer electronics	What is the market size of the industry globally (2021A, 2024A, 2030F)? By region? By type of product?	Secondary reports, industry
CDMO industry market	What is the growth drivers of the industry? Any trend? E.g. global supply chain shifts	participants interviews, TAM
size, trends and growth	Who are the key players? By region? By type of product? Target's market share?	modelling
	Margin trend?	

Scope questions for discussion – Commercial (2/4)

FOR DISCUSSION

(B)		Key topics / questions	Proposed approach / sources			
Customers	Stickiness of	Barriers for OEM to switch CDMO supplier	Secondary reports			
	MedTech	 FDA approval (or other regulatory requirements) process and timeline for new CDMO supplier 	(regulations), industry			
	CDMO	How many CDMO suppliers does an OEM usually work with? On the other hand, is a concentrated customer base normal for a CDMO?	participants interviews – customer calls,			
		How difficult to win new customers? What is the process and timeline like?	Mgmt. Q&A, internal			
		• Difficulty or timeline required to bring in-house? Which therapeutic areas / medical devices are more difficult to produce in-house?	data			
		Any geographical production interest? How competitive are Singapore and Malaysia?				
	Stickiness of	Barriers for OEM to switch CDMO supplier	Secondary reports			
	consumer electronics CDMO	Approval (or regulatory requirements) process and timeline for new CDMO supplier	(regulations), industry participants interviews – customer calls, Mgmt. Q&A, internal			
		How many CDMO suppliers does an OEM usually work with? On the other hand, is a concentrated customer base normal for a CDMO?				
		How difficult to win new customers? What is the process and timeline like?				
		• Difficulty or timeline required to bring in-house? Which electronics components / area are more difficult to produce in-house?	data			
		Any geographical production interest? How competitive are Singapore and Malaysia?				
	Customer 1 – growth, stickiness,	 What component does Target manufacture for Customer 1? Could we confirm if there is any sole-supplier arrangement between Target and Customer 1 (product wallet share structure – e.g. # of parts per supplier etc.)? Who are the key competitors for Customer 1 for their current products? 	Industry participants interviews – customer calls, warm leads,			
	position vs. peers	 Analysis of past and pipeline programs with Customer 1. Why Target won those contracts? What kind of revenue growth Target could achieve from Customer 1 (2025F-2030F)? 	Industry participants interviews – physician			
		 How sticky is Customer 1 relationship? Would Customer 1 in-house / switch CDMO some of the current programs with Target? 	calls, Mgmt. Q&A, secondary reports,			
		 Reimbursement risk – how would changes around the affordable care act ("ACA") impact Customer 1 and its suppliers? 	internal data			
		• Sleep Apnea innovation – are there any superior alternatives on the horizon to CPAP treatment for OSA, surgical intervention, nerve stimulation devices or dental appliances that can treat OSA (that could render CPAP obsolete)?				
		 Physician advocacy for Customer 1 vs Philips - which one is more favored? [light touch / high level feedback on physician advocacy – no survey] 				
		Sleep Apnea device (i.e. CPAP machine) competitive landscape				

• Does Customer 1 use any ester-based polyurethane substance (said to be carcinogenic) in the manufacturing of its CPAP machines? Any risk

that Customer 1 machine may suffer a recall like in Philips' CPAP machines?

Scope questions for discussion – Commercial (3/4)

			FOR DISCUSSION
_		Key topics / questions	Proposed approach / sources
B Customer	Customer 2 – growth, stickiness	Could we confirm if there is any sole-supplier arrangement between Target and Customer 2?	Industry participants interviews – customer calls, warm leads, Mgmt. Q&A, secondary reports, internal data
		 Analysis of past and pipeline programs with Customer 2. Why Target won those contracts? 	
		 What kind of revenue growth Target could achieve from Customer 2 (2025F-2030F)? 	
		 How sticky is Customer 2 relationship? Would Customer 2 in-house / switch CDMO for some of the current programs with Target? 	
	Others (excluding MedRes and	Analysis of past and pipeline programs for other customers. Why Target won those contracts?	Mgmt. Q&A, internal data
		 What kind of revenue growth Target could achieve from other customers (2025F-2030F)? 	
	Customer 2)– growth, stickiness	How sticky is the relationship with other customers?	
	Suggest light touch on this topic given less revenue and economics contribution	Suggest to be done at aggregate level for the above	
	Target's Own Competitive advantage	 What is Target's competitive advantage compared to its competitors in Asia? Globally? [suggest to focus on 4-5 key competitors in focus geography i.e. Asia] 	Industry participants interviews – customer calls, Warm leads, Mgmt. Q&A
		 What is Target's competitive positioning in its key geographies? (e.g. customer advocacy of Target vs peers, Target's performance vs. peers on customers' KPC, other customer feedback) 	
		What is Target's competitive disadvantage?	
	Capex	Can Target's current capacity and capex plan support the projection presented in IM?	Mgmt. Q&A, Mgmt. forecasts

Scope questions for discussion – Operational & value planning (4/4)

FOR DISCUSSION

	\		Key topics / questions	Proposed approach / sources	
	Operational / Tech DD	•	What are the areas for improvement within Target? - COGS, SG&A, Operations, System, Manpower, etc. How does the plants / facilities perform on key metrics (CAPEX invested, max capacity, production reliability, other operating benchmarks etc.)	Industry participants interviews, benchmarking exercise, mgmt. Q&A,	
			If we want to focus on MedTech, does Target need a Sales / Biz Development Director focusing on MedTech?	internal data	
		•	How do other best-in-class peers perform in their operations? What are the best-in-class benchmarks for COGS, SG&A, Opex etc.? How do Target compare vs. best-in-class peers?		
D	Value creation plan	•	What is the right framework to think about prioritizing VCP levers, keeping couple of considerations such as Target's right to win, attractiveness / size of prize, feasibility, etc.?	Industry participants interviews, Mgmt. Q&A, secondary reports	
		•	New customers deep-dive: Which area of growth should Target pursue – which therapeutic area and/or consumer electronics should Target focus on? How can Target win new customers?		
		•	Geographical expansion deep-dive: Where do we need to grow given Target's footprint? Do we need to go to US / EU?		
		•	What is the right strategy to deliver on the above VCP levers? E.g. on geo expansion – do we need US / EU sales office to win businesses from US / EU OEMs? Alternatively, would a US/EU M&A (independent business or current in-house facility of an OEM) be a preferred way?		
D	M&A / bolt-on acquisition	•	What kind of M&A would be synergistic to Target?	Industry participants interviews, Mgmt.	
		•	How easy / difficult is it to integrate competencies (e.g. plastic with metal machining)?	Q&A, secondary reports	
		•	Areas to watch out for in terms of integrating CDMOs?		
		•	Which are the potential available targets?		
	Consumer		What is the synergy between Target's MedTech and Consumer electronic segment?	Mgmt. Q&A, industry participants	
	electronics carve- out	•	Can each of the segment operate standalone? If not, where are the overlapping areas?	interviews	
		•	If Target were to spin-off its Consumer electronic segment, who are the potential buyers?		

Primary research: Suggested topics for customer and competitor interviews

/NON-EXHAUSTIVE / PRELIMINARY

Customer interviews (sourced from expert networks and warm leads)

- Sample target customer profiles: current and former senior executives / mgmt., personnel who are in charge of procuring MedTech / Consumer Electronic components, product R&D team, etc.
- Target N: 10-20
- Sample interview topics:
 - What is the typical process in **choosing and onboarding** CDMO supplier? Who is the **key decision maker** in selecting a CDMO supplier?
 - What does a typical contract look like (esp. number of years, exclusivity)?
 - What is the typical level of stickiness with a CDMO supplier? How easy it is to switch and under what scenarios will switching be considered?
 - Advocacy for current CDMO supplier, feedback on strengths and weaknesses
 - KPC for choosing CDMO supplier and relative performance of CDMO supplier(s)
 - Potential / likelihood of in-housing, and if so, what sub-sectors / areas are more likely to be in-house and why?

Competitor interviews (sourced from expert networks)

- Sample target customer profiles: current and former senior executives / mgmt. of MedTech and/or Consumer Electronics contract manufacturers
- Target N: 5-10
- Sample interview topics:
 - What is the market size, trends, growths and growth drivers for MedTech and/or Consumer Electronics? Which sub-segments are most attractive going forward and why?
 - What are the current industry trends in MedTech and/or Consumer Electronics?
 - What are the trends with regards to in-housing vs outsourcing?
 - How do margin trends look like going into the future?
 - Customer concentration: Who are the MedTech and/or Consumer Electronics customers that you are currently working with and what is the estimated SoW for each customer?

Operational deep dive: We will prioritize a set of critical questions with Target's current operation

Manufacturing & COGS (2)Supply Chain performance

(3) SG&A benchmark

Capex planning

Key questions to be assessed

- · What is the amount of headroom available to grow current (or future growth) portfolio?
- Will the growth continue to come at current mfg cost structure or increased cost?
- How does Target perform in terms of labor utilization. efficiency, quality and yield? are there rooms to further optimize and automate?
- Is capacity sufficient to support growth?

- How does Target perform across its critical SLAs (leadtime, OTIF, etc)?
- How does effective is the supply and demand planning, what is the plan and schedule adherence?
- What is the average batch size and campaign run? How much capacity is lost to changeover?
- Any bottlenecks in the planning process, inventory build up, W/H space availability etc.

- How do peers perform in their operations? What are the best-in-class benchmarks for SG&A?
- How do Target compare vs. best-in-class peers?
- Will current SG&A enable Target to grow or will that increase?
- If we want to focus on MedTech, does Target need a Sales / Biz **Development Director** focusing on MedTech?

 What is requirement of new Capex to support growth?

FOR DISCUSSION

- Any urgent capex requirement since given growth targets?
- Any risk of missing order delivery or delay of new machine startup?
- Can Target's current capacity and capex plan support the growth projected?

Approach and data access

- Site visits
- Management interviews
 Internal data

- Functional expert views
- Industry benchmark

Team: Leadership team will comprise of individuals who have extensive healthcare and MedTech experience

EXACT TEAM MEMBERS TBA AT CDD CONFIRMATION



Fabio La Mola SEA Life Sciences Lead

 Led multiple commercial due diligence in CDMO sector



Usman Akhtar SEA PE Lead

 Led multiple commercial due diligence in precision engineering in SEA



Tom Kidd
Leader in Healthcare PE
capability

 Extensive experience in HCPE and Advanced Manufacturing in SEA and North America



Alex Boulton
APAC Healthcare PE Lead

 Led multiple commercial due diligence engagements in precision engineering and MedTech CDMO in SEA



Chris Liu
APAC Expert in
Performance Improvement

- Deep expertise in operations in advanced manufacturing businesses
- Worked as Chief Transformation Officer in Tooling & Injection company

Team: We have access to a deep bench of global MedTech experts



Mayuri Shah Partner, New York

14 years at Bain, focus on MedTech, including growth strategy, performance improvement, and due diligence analysis



Dieter Meyer Partner, Zurich

13 years at Bain, with deep MedTech experience and expertise in strategy development and implementation, and M&A and post-merger integration



Tim van Biesen, Ph.D. Partner, New York

Healthcare Practice Global Leader. 18+ years at Bain, extensive experience in strategy, performance improvement, commercial excellence and M&A for multi-national MedTech companies



Kevin Chang Partner, Hong Kong

14 years at Bain, member of Bain's Healthcare Practice, deep expertise in MedTech



Mattias Karlsson Partner, Stockholm

13+ years of consulting experience, 5 years at Bain, member of Bain's Healthcare Practice, deep expertise in MedTech

Credentials: Bain brings extensive CDD experience in precision engineering and global MedTech experience

NOT EXHAUSTIVE

Regional SEA precision engineering

>10 precision engineering CDDs in SEA alone

Companies analyzed (targets + competitors):

















Global MedTech experience: Complete over 220 diligences within MedTech in recent years

- Medical device manufacturer focusing on ultrasound, X-ray, IVD and dialysis machines
- Manufacturer of in-vitro diagnostics equipment and assays
- Medical device manufacturer, specializing in arthroscopy, electro surgery, and powered surgical tools
- Company involved in production, distribution, and sale of vascular stents and minimally invasive radiofrequency ablation technology products
- Manufacturer of **dental implants**, **medical devices** in the fields of urology and surgery
- Company providing ophthalmic surgeons with instruments & equipment for anterior & posterior ophthalmic surgery
- Manufacturer & supplier of wound care products, surgical gloves, surgical drapes
- Company manufacturing health related products such as blood glucose monitoring system, electronic medical record system for clinics, ultra low temperate freezer, general refrigerator, CO₂ incubator

Credentials: This team has recent experience across the full deal cycle with a leading PE-owned, SG-headquartered precision engineering company

Precision Engg. co

- \$1B diversified precision engineering group, headquartered in Singapore and with a broad offering of interconnectors & high precision components and mechanical services
- Serves a range of sectors including Auto, Mass Storage, Medical etc.
- Manufacturing footprint across NA/Eur/APAC

CDD (2016)

 Supported CDD for ultimate buyer, as part of a competitive deal process / secondary transaction

Portfolio support (2016-17)

- Designed full potential plan in partnership with the management team
- Delivered a focused salesforce excellence initiative engagement to support institutionalization of the capabilities

Exit/CDD (2021)

 Supported CDD for ultimate buyer, as part of a competitive deal process / secondary transaction



"Home-run" investment for PE fund

