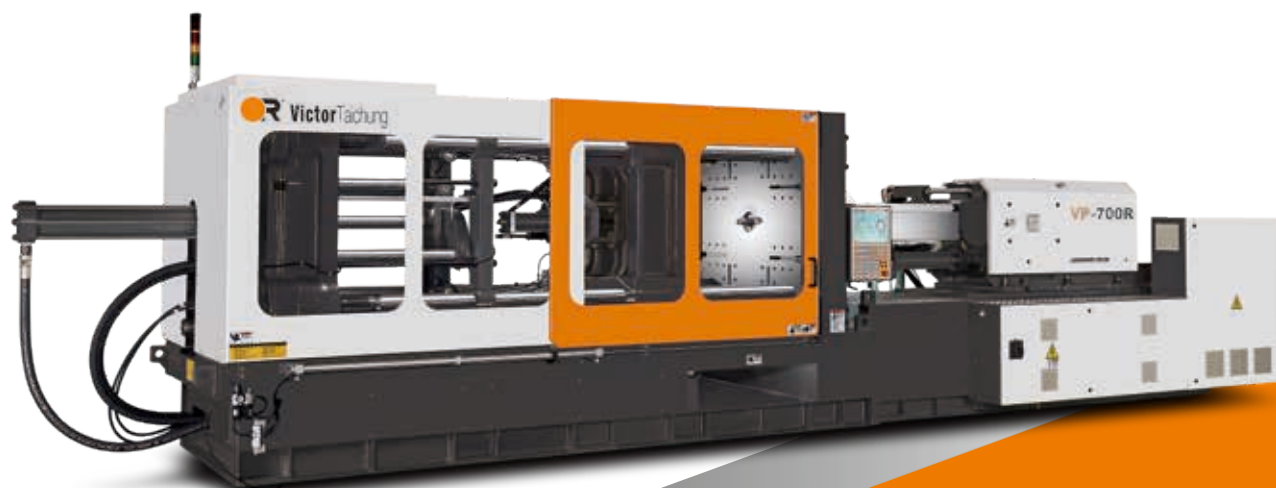


VP Series

Hybrid High-Performance Medium tonnage plastic injection molding machine to satisfy your energy saving and repeatability requirement.



VP Series

700-1300 Tons Precision built, high speed PIM machinery

Victor Taichung VP Series injection molding machine has been developed by fusing of merits of hydraulic injection machines (low maintenance-free operation, long life, and low cost) and electric molding machines (energy-saving, high-velocity injection, quick response, high repeatability, and low operation noise)

The innovative new servo motor with high-effect pump system, achieves energy-saving operation and quick response equivalent to all electric molding machines.



- Injection screw ACM2 German material
- Surface hardness: 900~1100 HV
- Processed by Nitride (500~520°C for 72hrs)
- Nitrided thickness: 0.4~0.5 mm
- Piston rod uses S45C steel which has excellent strength
- Piston seal uses German make Merkel to reduce the leakage and extend piston life.



Energy saving advantage

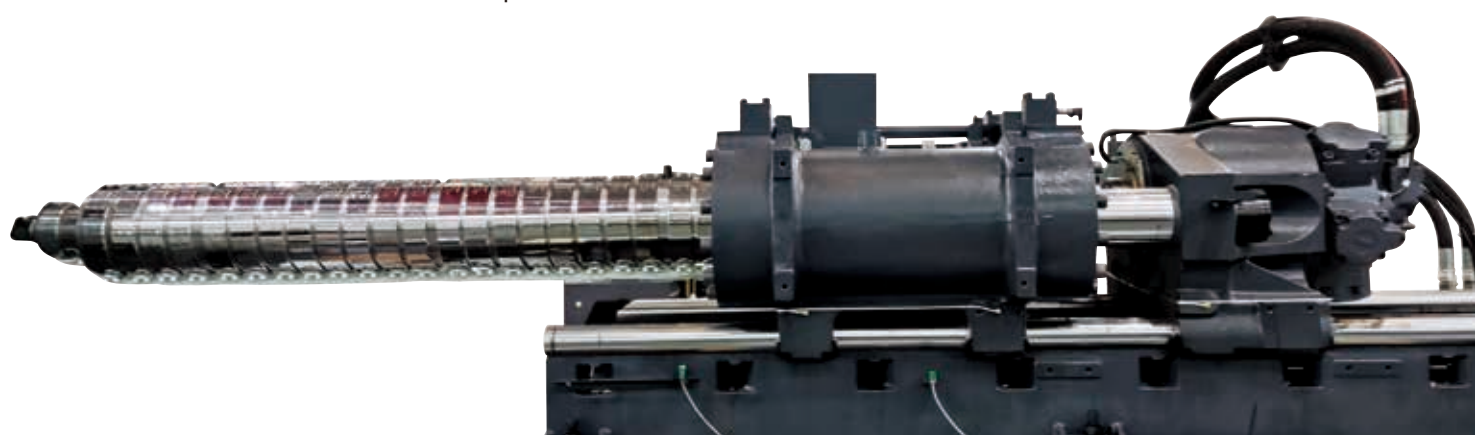
- Energy saving - Almost equivalent to all electric molding machines.
- Quick response - Injection response time (Standard mode).
- Stability in low-velocity/low-pressure & wide range - Injection velocity: From ultra-low to high velocity range.
- Linearity - Excellent linearity in both injection velocity and injection pressure.
- Excellent injection holding pressure performance - Capability in sustaining high injection holding pressure longer (as compared with all electric types).
- Reduction in the amount of hydraulic oil.
- Silent! (Low noise) Almost equivalent to all electric molding machine.

Bi-metallic material (optional) - SKD 61 base material. Excellent wear-resistant, corrosion resistant screw & barrel for the processing of materials with fiber additives and also fire retardant materials. Victor general purpose screw and barrels can process any kind of material like PE, PP, PA, ABS, AS. We also supply an optional screw & barrel for engineering materials like PC, PBT, PET, with an L/D ratio from 18, 20, 22.



This multi-notch non-return valve offers improved reaction times and high flow rates. Also improves cycle times and increases product precision.

The VP Series injection unit, utilizing the high wear and corrosion resistant ion-nitrided screw and barrel, provides the injection volumes and plasticizing capacities necessary for the manufacture of precision products. With high injection stability and excellent mixing capabilities, this newly developed injection unit allows for the use of a wider range of materials. It all adds up to unit that will stay the course, giving consistently high quality and product output.

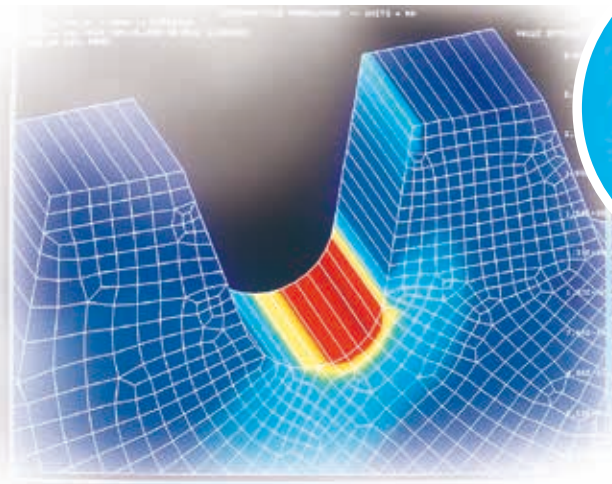
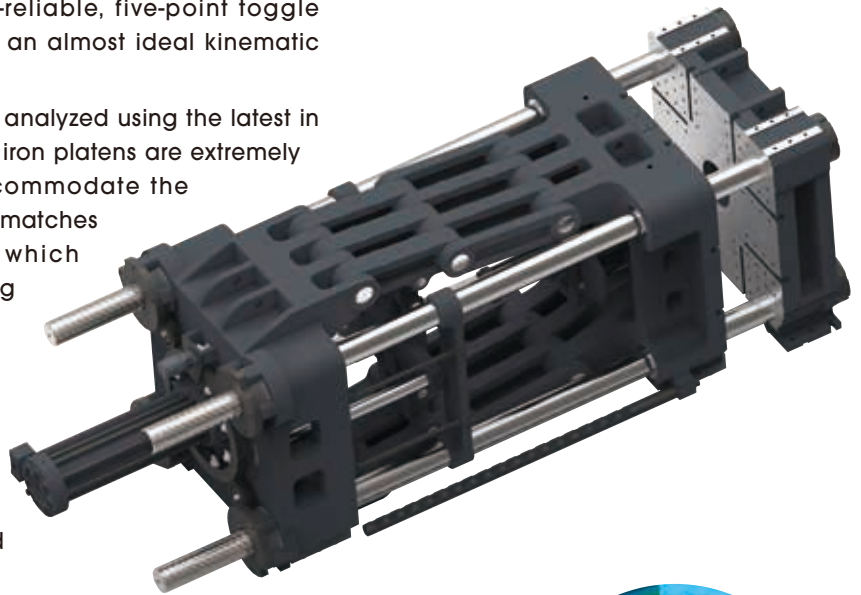


Heavy Duty, Rigid, Clamping Unit

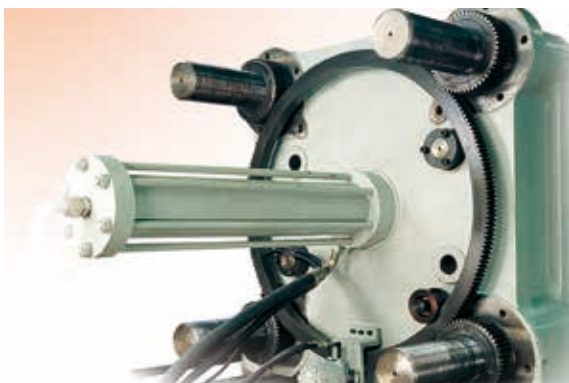
All VP Series machines feature a unique, ultra-reliable, five-point toggle clamping mechanism which is characterized by an almost ideal kinematic velocity feature.

This high precision clamping unit is designed and analyzed using the latest in computer software, i.e. CAD & CAE. The large cast iron platens are extremely robust and with widely spaced tie-bars to accommodate the largest of molds. They have optimum rigidity that matches the current need in precision molding and which minimizes mold deflection caused by clamping force and cavity pressure.

The large, square cast iron platens virtually eliminate deflection. The bushings are manufactured from graphite impregnated phosphor bronze. Designed to run totally oil-free, there's no chance of contaminating molds, and maintenance is limited to long periodic greasing.



Mold height adjustment, which is the bull gear system, is operated by a hydraulic motor and when co-ordinated with a monitoring program proceeds to prevent the possibility of overloading by force and cause machine damage.





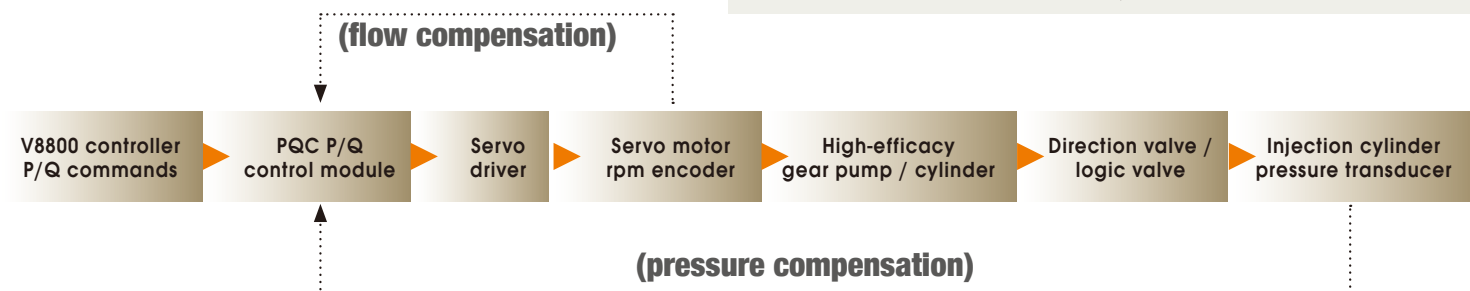
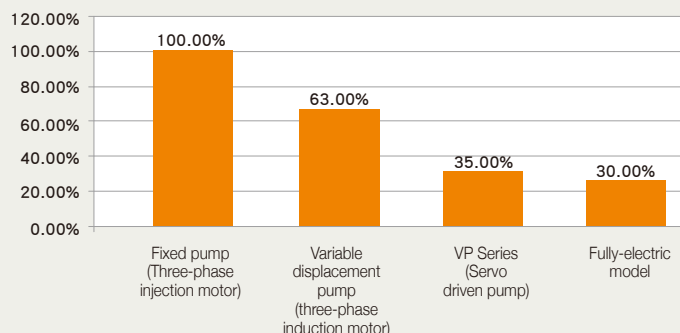
Energy Saving system

The VP Series adopts logic valves in its hydraulic system circuits. The logic valves give high response performance in injection and mould travelling stages and offers 5% energy reduction due to low-pressure loss, and can guarantee a long service life. Less energy loss means lower heat build-up in addition to a substantial reduction in the requirement of cooling water. This is further help automatic regulation of the hydraulic oil temperature.

VP Energy Saving system:

The pressure transducer measures the real injection cylinder and feedback to P/Q control module for the close-loop pressure compensation. The servo motor rpm encoder measures and feedback the pump flow to P/Q control module for the speed compensation to get precision relativity control.

Power consumption



New Generation V8800 Control

Intuitive 15 inch touch screen framed with keyboard

The swivel mounted 15" LCD high resolution touch screen, graphical user interface, can be optimally positioned for each operator, allowing an easy setting position and easy access to the mould area.

Lighted on/off manual movement buttons for each axis.

Simple Friendly Operation interface

Mold settings can be transferred using a USB drive

The internal memory allows for up to 1000 set to be stored, the USB port enables molding condition files to be stored to an external USB memory stick.



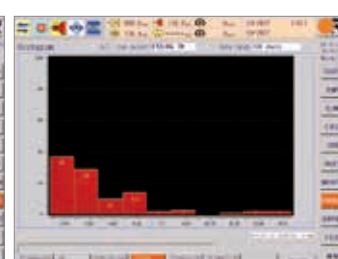
Overall setting screen



Pop-up keyboards for data and text entry

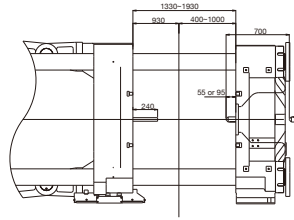
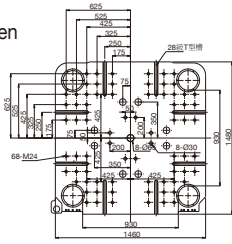


SPC/SQC Production management - quality control

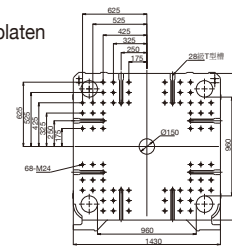


JIS Platen Information

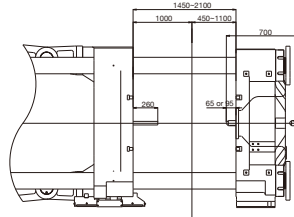
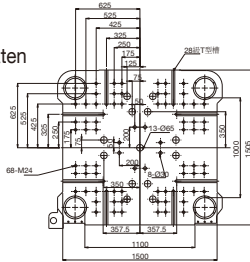
VP-700
Moving platen



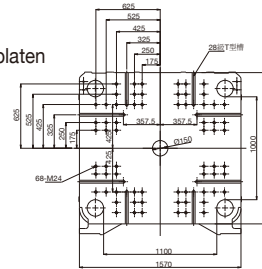
Fixed platen



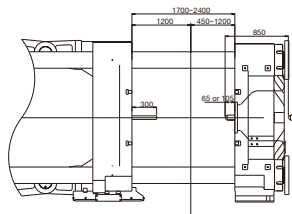
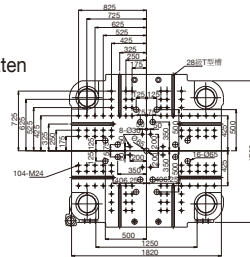
VP-850
Moving platen



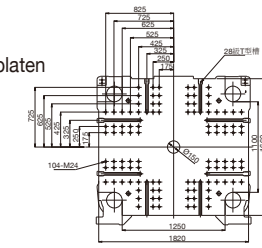
Fixed platen



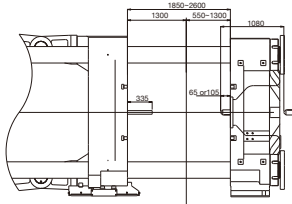
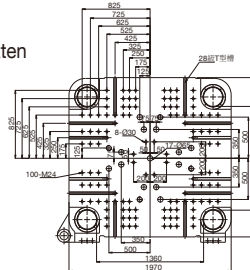
VP-1000
Moving platen



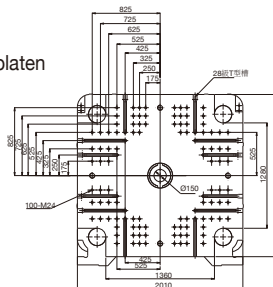
Fixed platen



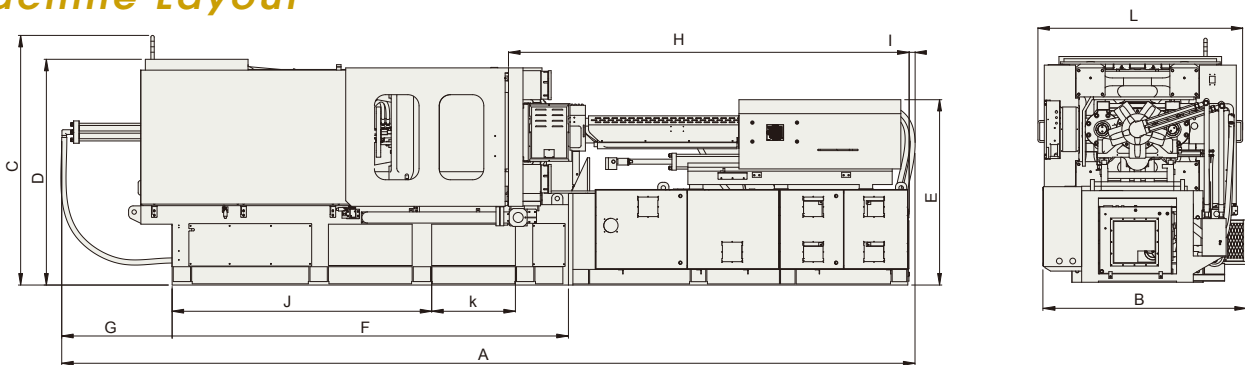
VP-1300
Moving platen



Fixed platen



Machine Layout



MODEL	A	B	C	D	E	F	G	H	I	W	K
VP-700	9990	2230		1717	4300	5136	2302	2088	5490	2088	
VP-850P	10480	2480		1666	4185	5428	2350	2108	5598	2108	
VP-850R	10480	2480		1708	4185	5428	2350	2108	5598	2108	
VP-850S	11480	2480	2970	1860	5560	5490	2350	2108	5598	2108	2910
VP-1000R	11425	2580		1805	4125	6550	2558	2310	6550	2280	
VP-1000S	12050	2580	3065	1850	5115	6550	2558	2310	6550	2280	2910
VP-1000J	12660	2580	3065	1850	5388	6345	2583	2335	6575	2305	2910
VP-1300B	13650	2822	3192	2056	5713	7003	2880	2595	7112	2605	2942

Specifications

Model		VP-700N			VP-700P			VP-700R			VP-850P			VP-850R			VP-850S		
Injection unit																			
Calculated injection capacity	cm³	946	1160	1433	1344	1659	2099	2011	2545	3142	1344	1659	2099	2011	2545	3142	2990	3691	4467
Actual shot weight (PS)	g	886	1088	1343	1259	1555	1968	1885	2385	2945	1259	1555	1968	1885	2385	2945	2803	3460	4187
Actual shot weight (PS)	oz	31	38	47	44	55	69	66	84	104	44	55	69	66	84	104	99	122	147
Calculated Plasticizing capacity (PS)	hg/hr	163	200	265	162	214	293	192	263	361	249	330	451	296	405	555	258	353	451
Injection pressure-Max.	kgf/cm²	1988	1620	1313	2019	1635	1292	1971	1557	1262	2019	1635	1292	1971	1557	1262	2108	1707	1411
Injection rate	cm³/sec	370	454	560	364	450	569	373	472	583	561	692	876	574	727	897	537	663	802
Injection speed	mm/sec	111			89			74			138			114			84		
Screw diameter	mm	65	72	80	72	80	90	80	90	100	72	80	90	80	90	100	90	100	110
Screw L/D ratio		22	20	18	22	20	18	23	20	18	22	20	18	23	20	18	22	20	18
Screw speed	rpm	191			155			139			238			214			136		
Screw stroke	mm	285			330			400			330			400			470		
Nozzle contact force	ton	10.8			10.8			10.8			10.8			10.8			12.5		
Total heating wattage	kw	27			33			41			33			41			51		
Clamping unit																			
Clamping force	ton	700			700			700			850			850			850		
Clamp stroke-max.	mm	930			930			930			1000			1000			1000		
Open daylight-max.	mm	1930			1930			1930			2100			2100			2100		
Mold thickness (min. - max.)	mm	400-1000			400-000			400-1000			450-1100			450-1100			450-1100		
Platen dimension (H x V)	mm	1460x1460			1460x1460			1460x1460			1600x1495			1600x1495			1600x1495		
Tie-bar distance (H x V)	mm	960x960			960x960			960x960			1100x1000			1100x1000			1100x1000		
Ejector stroke	mm	260			260			260			260			260			260		
Ejector force	ton	18			18			18			18			18			18		
General																			
Servomotor (ES system)	kw	18+25=43			18+25=43			18+25=43			45x2=90			45x2=90			45x2=90		
Oil tank capacity	l	717			717			717			961			961			961		
Hydraulic sys. Pressure (max.)	kgf/cm²	140			140			140			140			140			140		
Machine weight	ton	34			34			35			38			39			43		
Machine dimensions	mm	9940x2230x2256			9940x2230x2256			9940x2230x2256			10480x2490x2375			10480x2490x2375			11480x2910x2950		

Model		VP-1000R			VP-1000S			VP-1000J			VP-1300S			VP-1300J			VP-1300B		
Injection unit																			
Calculated injection capacity	cm³	2011	2545	3142	2990	3691	4467	4320	5227	6220	2990	3691	4467	4320	5227	6220	5702	6786	7964
Actual shot weight (PS)	g	1885	2385	2945	2803	3460	4187	4049	4899	5830	2803	3460	4187	4049	4899	5830	5344	6360	7465
Actual shot weight (PS)	oz	66	84	104	99	122	147	143	173	205	99	122	147	143	173	205	188	224	263
Calculated Plasticizing capacity (PS)	hg/hr	346	473	649	303	415	530	364	464	640	303	415	530	415	530	731	499	688	881
Injection pressure-Max.	kgf/cm²	1971	1557	1262	2108	1707	1411	2105	1740	1462	2108	1707	1411	2105	1740	1462	2085	1752	1493
Injection rate	cm³/sec	689	872	1076	644	795	962	645	781	929	805	994	1203	806	976	1161	814	969	1137
Injection speed	mm/sec	137			101			82			127			103			86		
Screw diameter	mm	80	90	100	90	100	110	100	110	120	90	100	110	100	110	120	110	120	130
Screw L/D ratio		23	20	18	22	20	18		20	18	22	20	18	22	20	18		20	18
Screw speed	rpm	250			160			140			160			160			151		
Screw stroke	mm	400			470			550			470			550			600		
Nozzle contact force	ton	10.8			12.5			15.0			10.8			15.0			15.0		
Total heating wattage	kw	41			51			66			51			66			77		
Clamping unit																			
Clamping force	ton	1000			1000			1000			1300			1300			1300		
Clamp stroke-max.	mm	1200			1200			1200			1300			1300			1300		
Open daylight-max.	mm	2400			2400			2400			2600			2600			2600		
Mold thickness (min. - max.)	mm	500-1200			500-1200			500-1200			550-1300			550-1300			550-1300		
Platen dimension (H x V)	mm	1820x1720			1820x1720			1820x1720			2010x1970			2010x1970			2010x1970		
Tie-bar distance (H x V)	mm	1250x1100			1250x1100			1250x1100			1360x1280			1360x1280			1360x1280		
Ejector stroke	mm	300			300			300			330			330			330		
Ejector force	ton	23			23			23			26			26			26		
General																			
Servomotor (ES system)	kw	25x3=75			25x3=75			25x3=75			45x3=135			45x3=135			45x3=135		
Oil tank capacity	l	1260			1260			1260			1428			1428			1428		
Hydraulic sys. Pressure (max.)	kgf/cm²	140			140			140			140			140			140		
Machine weight	ton	53			57			59			75			77			81		
Machine dimensions	mm	11425x2580x2558			12050x2910x3030			12565x2910x3065			12980x2855x3048			13410x2940x3153			13920x3275x3203		

※ Notes: Due to continual improvements, specifications technical information and dimensions are subjected to change without prior notice.

Worldwide Subsidiaries

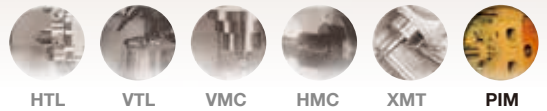


ONWARD RISE

To ensure the return on investment, Victor Taichung has invested considerably in setting up a distribution network in terms of global vision local touch for our sales and service supports worldwide. Besides the qualified exclusive agents around the world, Victor Taichung has 7 overseas subsidiaries to provide our customers efficient after-sales service and technical supports.



THE VICTOR-TAICHUNG COMPANIES



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