

SINAMICS Selection aid – typical applications

Performance*)	Continuous motion			Discontinuous motion		
	Basic	Medium	High	Basic	Medium	High
Purpose						
Pumping/ventilating/compressing	Centrifugal pumps Radial/axial fans Compressors		Eccentric spiral/ worm/screw pumps	Hydraulic pumps Dosing pumps		Descaling pumps Hydraulic pumps
Moving	Belt conveyors Roller conveyors Chain conveyors	Belt conveyors Roller conveyors Chain conveyors Vertical/horizontal material handling Elevators/escalators Gantry cranes Ship's drives Cable railways	Elevators Container cranes Mine hoists Open cast mine excavators Test stands	Accelerating conveyors Rack feeders	Accelerating conveyors Rack feeders Cross cutters Roll changers	Rack feeders Robotics Pick & Place Indexing tables Cross cutters Roller feeds Engaging/disengaging
Processing	Mills Mixers Kneaders Crushers Agitators Centrifuges	Mills Mixers Kneaders Crushers Agitators Centrifuges Extruders Rotary furnaces	Extruders Winders/unwinders Leading/following drives Calenders Mechanical presses Printing machines	Tubular bagging machines Single axis motion control i.e. • positioning profiles • path profiles		Servo presses Rolling mill drives Coordinated multi-axis motion control i.e. • Multi-axis positioning • Cam discs • Interpolation
Machining	Main Drives i.e. • Turning • Milling • Drilling	Main Drives i.e. • Drilling • Sawing	Main Drives i.e. • Turning • Milling • Drilling • Gear cutting • Grinding	Axis Drives i.e. • Turning • Milling • Drilling	Axis Drives i.e. • Drilling • Sawing	Axis Drives i.e. • Turning • Milling • Drilling • Laser machining • Gear cutting • Grinding • Nibbling and Punching

*) Requirements regarding torque precision / speed precision / positioning precision / axis coordination / functionality

SINAMICS Selection aid – typical applications

Performance*) Purpose	Continuous motion			Discontinuous motion		
	Basic	Medium	High	Basic	Medium	High
 Pumping/ ventilating/ compressing	G110 G120C G130/G150 GL/GM150	G120P G120C, G120 G130/G150 GL/GM150	S120	S110	S110 S120	S120 GM150
 Moving	G110 G110D G120C G130/G150 GM150	G120D G120C G120 G130/G150 DCM S120/S150 GM/GL/SM150	S120 S150 SM/SL150 GM150 DCM	G120D S110	S110 S120 DCM	S120 DCM
 Processing	G120C G130/G150 GM150	G120C G120 G130/G150 S150 GM/GL150 DCM	S120 S150 DCM	S110	S110 S120	S120 SM/SL150 DCM
 Machining	S110	S110 S120	S120	S110	S110 S120	S120

*) Requirements regarding torque precision / speed precision / positioning precision / axis coordination / functionality