KES

Equipment Specification

KES G – J876

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1. Scope of application

This standard shall be applied to large equipment used at processing on making a mold at mold manufacturing department.

2. Purpose

The purpose of this standard shall be to derive input of appropriate equipment and to apply it on designing a mold on processing a mold by specifying the spec of large equipment for processing a mold.

3. Definition of terminology

(1) ATC (Automatic tool change)

The equipment with automatic changing tool.

(2) CNC (Computer numerical control)

The equipment to control the value of working machine by a computer.

4. Equipment type

Equipment group	Equipment name	Equipment form	Use
Milling machine for copy	CNC copy milling M/C	HF-3NC-PKO	Processing of mold copy
	CNC copy milling M/C	HF-5NC-PKO	
Vertical CNC milling machine	CNC plano borer	HF-3NC-ATC	For processing base plane, seating plane, CAM processing and outline
	CNC plano borer	HF-4NC-ATC	
	Multi-center	HF-4M	
	5 Faces M/C	MVR 32/34	
High-speed shape milling machine	High-speed vertical-prection (1)	M-KR27A	
	High-speed vertical-prection (2)	M-KR27A	Mold high-speed shape processing
	High-speed milling M/C (1)	DC-4ASM	
	High-speed milling M/C (2)	DC-4ASM	

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5. Standard for equipment

5.1 Copy milling machine

Table 1

Standard \ Equipment name		Unit	3PKO	5PKO	Remark
Distance between column		mm	2300	3000	2A + D
Distance from a table to spindle end		mm	1400Max	2000Max	B+Z shaft S+
Main work table	Size	mm	36201700	43002500	C × D
	Working range	mm	30001700	40002500	E × D
	Allowable load	kg	10000	20000	
Table for a model	Size	mm	36201700	42002000	F × G
	Allowable load	kg	1000	5000	
Stroke	X axis	mm	3250	4000	H
	Y axis	mm	1950	2750	I
	Z axis	mm	450	450	J
	W axis	mm	1250	1650	L
Copy scope	X axis	mm	3250	4000	K
	Y axis	mm	1600	2000	G
	Z axis	mm	1250	1650	J
Manual adjusting distance of tracer head	X axial direction	mm / min	100	100	
	Y axial direction	mm / min	400	400	
Transfer	Rapid transfer (X, Y)	mm / min	7200	7200	
	Rapid transfer (Z, W)	mm / min	2400	3000	
	N.C mode	mm / min	1-2400	1-3000	
	Copy mode	mm / min	10-1000	10-1000	
Diameter of a spindle		mm	120	140	
Diameter of a quill		mm	200	250	
Speed of a spindle		rpm	40-2000	40-2000	
N.C system (Controller)			FANUC9M-A	FANUC9M-A	

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