
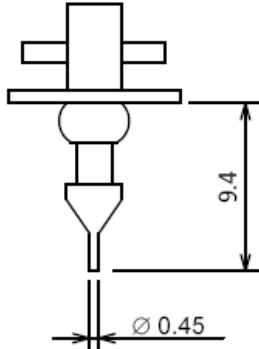

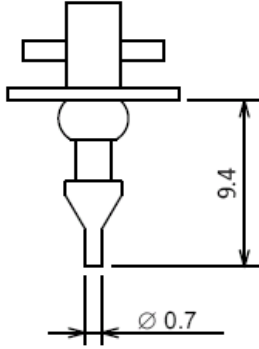

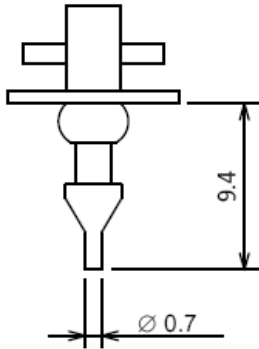
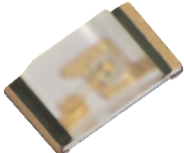
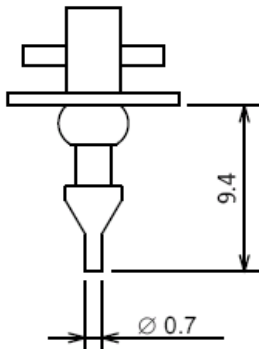

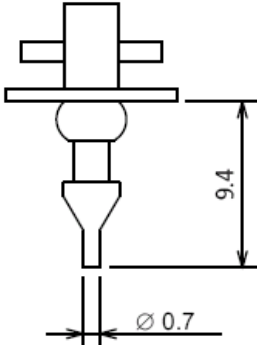
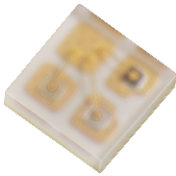
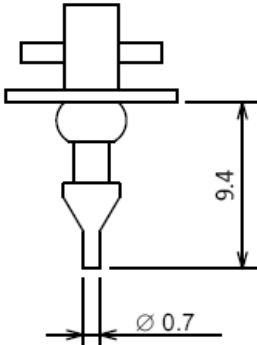

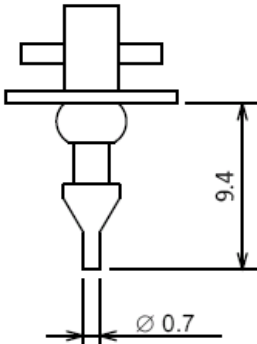

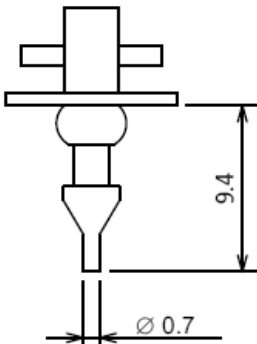

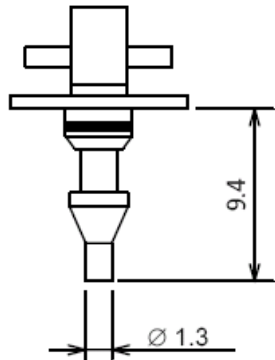

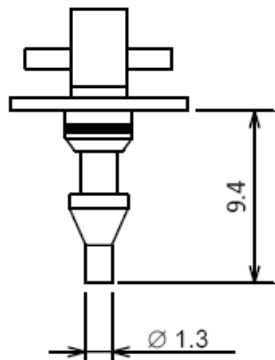

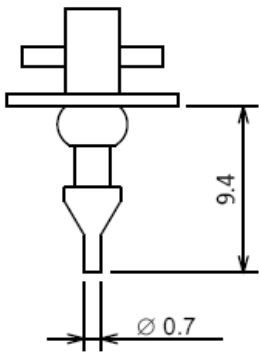

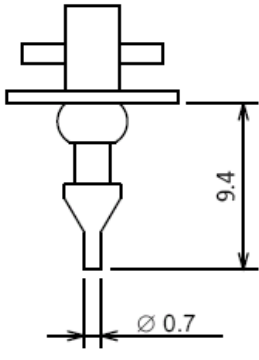



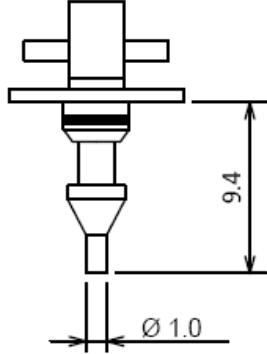

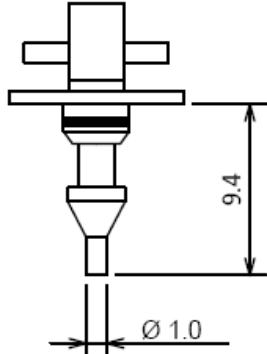

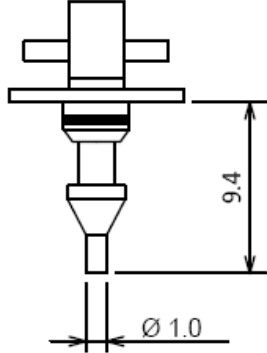

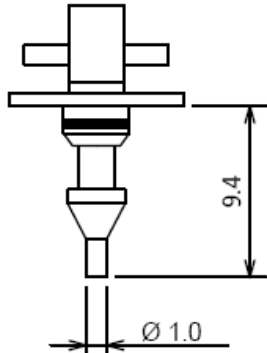
Recommended Pickup Nozzles for Kingbright SMD LED


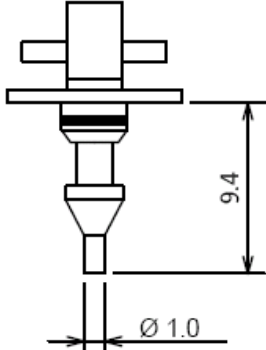

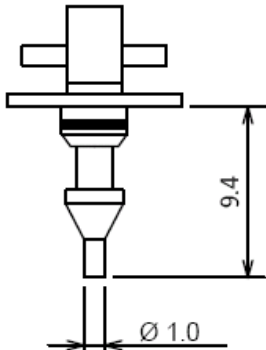

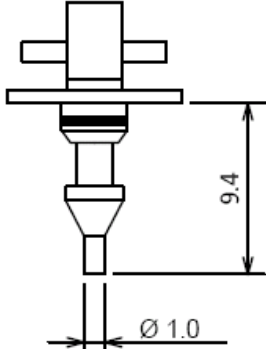

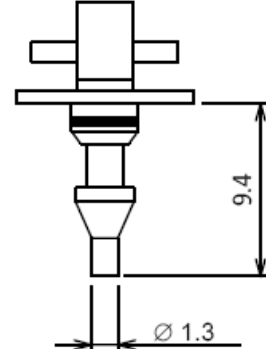
SMD LED Pickup Nozzle Suggestions

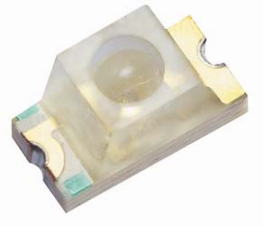
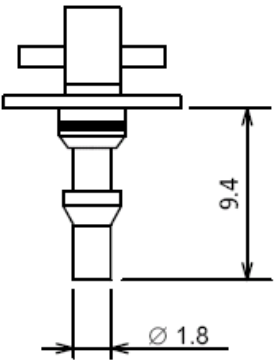

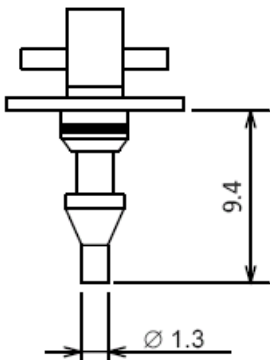

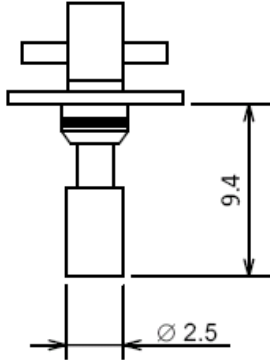
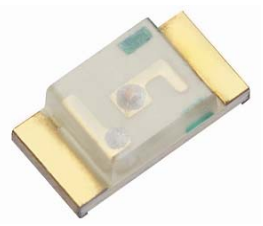
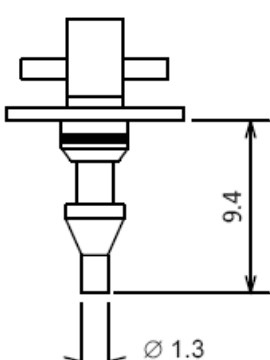
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING CHIP SMD LED  KPG-0603	R07-004-070	
RGB SMD LED  KPGF-0606	R07-007-070	
RGB SMD LED  KPGF-0808	R07-007-070	
TOP-EMITTING CHIP SMD LED  KPG-1005	R07-007-070	

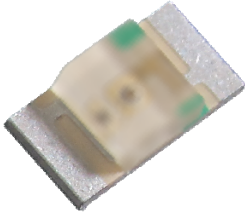
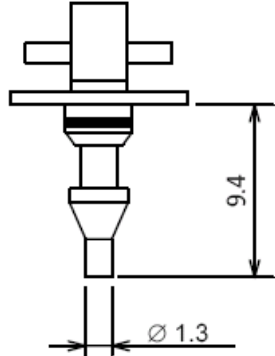

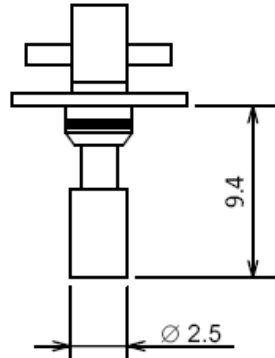

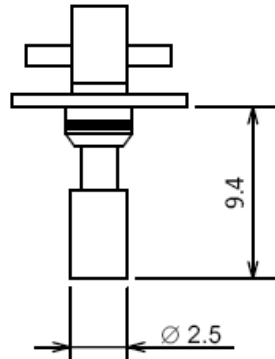

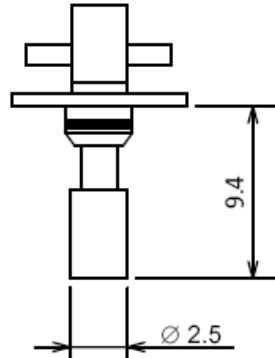
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING CHIP SMD LED  KPHHS-1005	R07-007-070	
RGB SMD LED  KPGF-1011	R07-007-070	
TOP-EMITTING CHIP SMD LED  KPG-1608	R07-007-070	
TOP-EMITTING CHIP SMD LED  KPT-1608	R07-007-070	


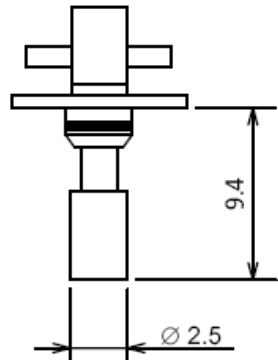

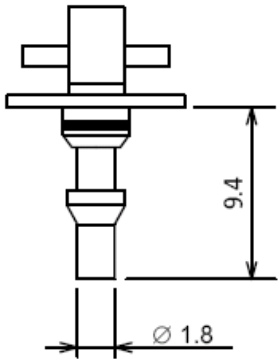

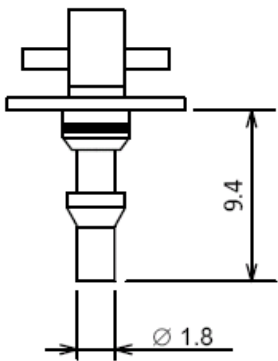

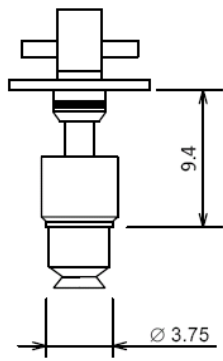
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING CHIP SMD LED  KPHD-1608	R07-013G-070	
TOP-EMITTING CHIP SMD LED  KPTD-1608	R07-013G-070	
MULTI-COLOR SMD LED  KPHB-1608	R07-007-070	
RGB SMD LED  KPHF-1608	R07-007-070	


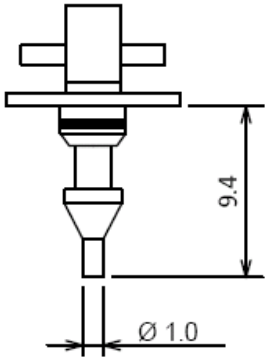

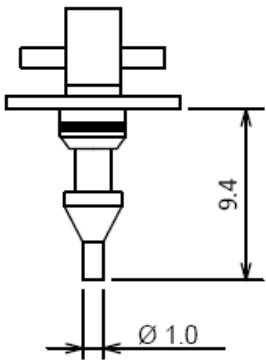

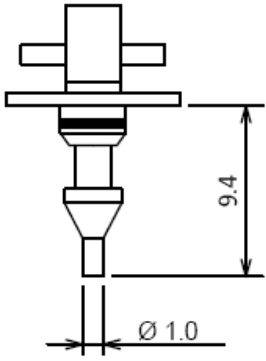

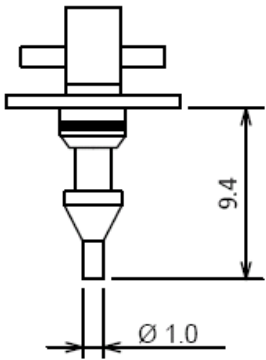
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
MULTI-COLOR SMD LED  KPTB-1612	R07-010-070	
MULTI-COLOR SMD LED  KPTB-1615	R07-010-070	
RGB SMD LED  KPTF-1616	R07-010-070	
TOP-EMITTING CHIP SMD LED  KPT-2012	R07-010-070	


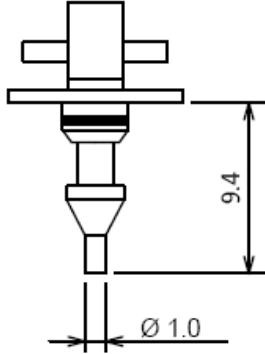

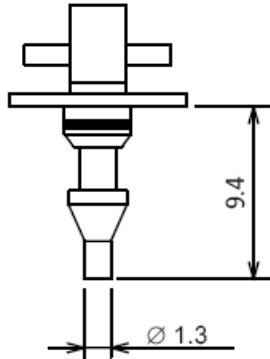

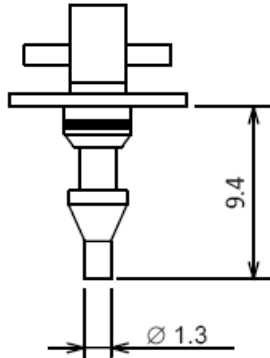

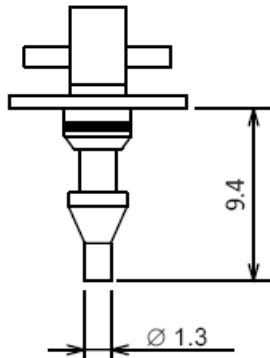
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING CHIP SMD LED  KPHCM-2012	R07-010-070	
MULTI-COLOR SMD LED  KPHBM-2012	R07-010-070	
MULTI-COLOR SMD LED  KPB-2012	R07-010-070	
TOP-EMITTING CHIP SMD LED  KPTD-2012	R07-013G-070	


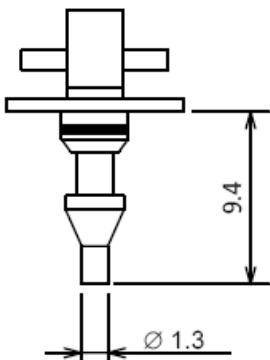

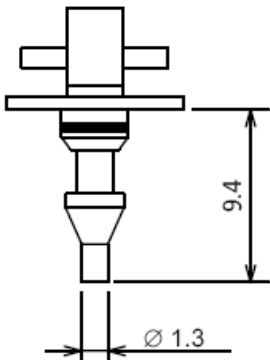

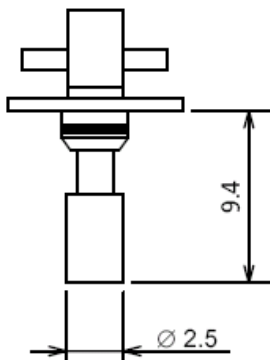

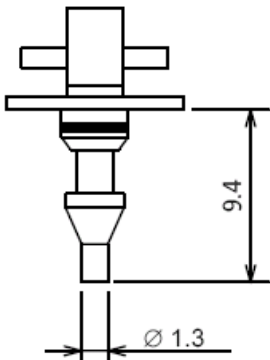
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING CHIP SMD LED  KPL-3015	R07-018-070	
MULTI-COLOR SMD LED  KPB-3025	R07-013-070	
MULTI-COLOR SMD LED  KPBL-3025	R07-025G-070	
TOP-EMITTING CHIP SMD LED  KPT-3216	R07-013-070	


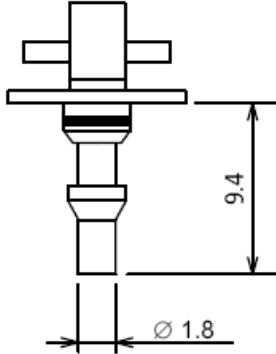

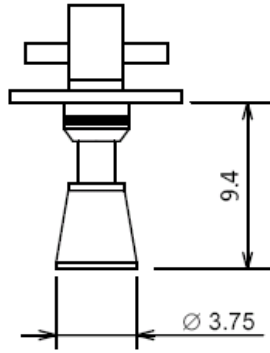

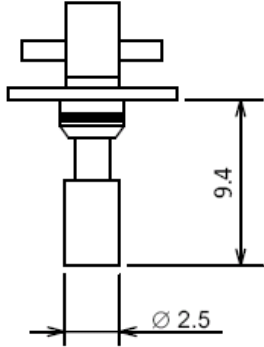

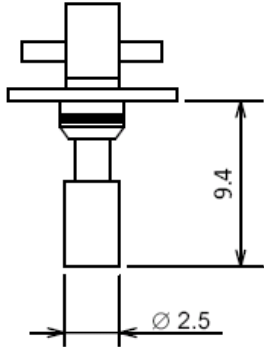
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
REVERSE MOUNT CHIP SMD LED  KPTR-3216	R07-013-070	
TOP-EMITTING CHIP SMD LED  KPTL-3216	R07-025G-070	
TOP-EMITTING CHIP SMD LED  KPTD-3216	R07-025G-070	
TOP-EMITTING CHIP SMD LED  KPD-3224	R07-025G-070	


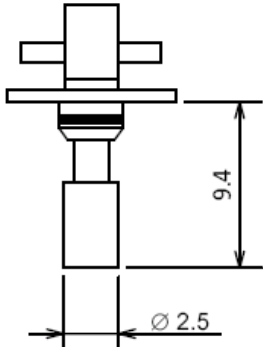

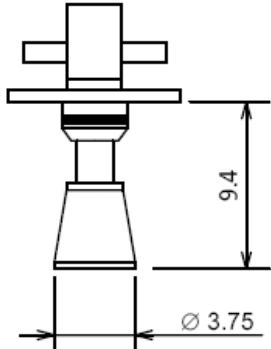

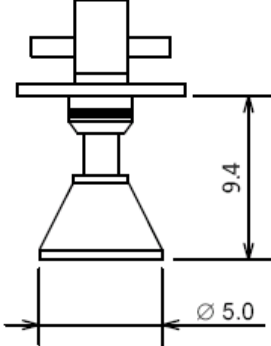

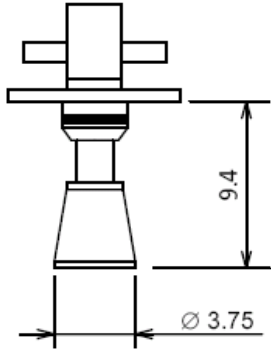
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
MULTI-COLOR SMD LED  KPBD-3224	R07-025G-070	
MULTI-COLOR SMD LED  KPB-3227	R07-018-070	
RGB SMD LED  KPF-3236	R07-018-070	
TOP-EMITTING CHIP SMD LED  KPED-3528	R07-037G-070	


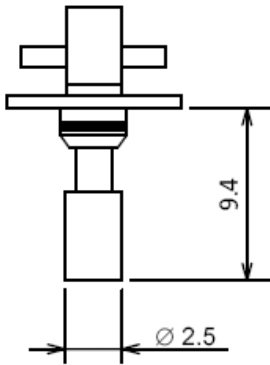

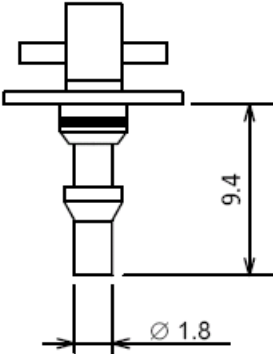

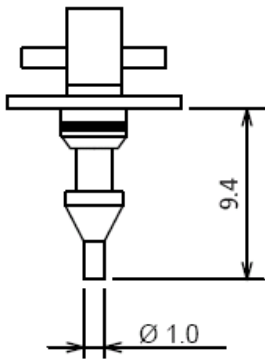
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
RIGHT ANGLE SMD LED  KPGA-1602	R07-010-070	
RIGHT ANGLE SMD LED  KPA-1606	R07-010-070	
RIGHT ANGLE SMD LED  KPA-2106	R07-010-070	
RGB SMD LED  KPFA-2507	R07-010-070	

Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
RIGHT ANGLE SMD LED  KA-2810A	R07-010-070	
RIGHT ANGLE SMD LED  KPA-3010	R07-013-070	
MULTI-COLOR SMD LED  KPBA-3010	R07-013-070	
RGB SMD LED  KPFA-3010	R07-013-070	

Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
RGB SMD LED  KPFA-3011	R07-013-070	
MULTI-COLOR SMD LED  KPBDA-3020	R07-013-070	
RIGHT ANGLE SMD LED  KA-4040	R07-025-070	
TOP-EMITTING PLCC SMD LED  KA-2214	R07-013-070	

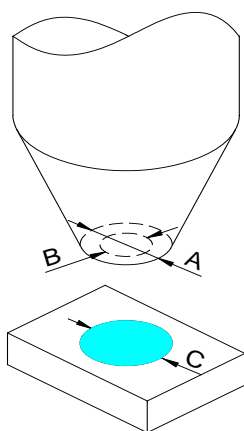
Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
TOP-EMITTING PLCC SMD LED  KA-3021	R07-018-070	
1W HIGH BRIGHTNESS LED  KA-3030	R07-037-070	
TOP-EMITTING PLCC SMD LED  KA-3528	R07-025-070	
TOP-EMITTING PLCC SMD LED  KA-3527A	R07-025-070	

Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
RGB SMD LED  KAAF-3529	R07-025-070	
0.5W HIGH BRIGHTNESS LED  KA-3535	R07-037-070	
1.5W HIGH BRIGHTNESS LED  KAAF-5051	R07-050-070	
0.5W HIGH BRIGHTNESS LED  KA-5630	R07-037-070	

Part No.	FUJI NXT Reference Tool Number	Recommended nozzle for FUJI NXT pick & place machines
SUBMINIATURE SMD LED  KM2520-03	R07-025G-070	
SUBMINIATURE SMD LED  KM2520-09	R07-018-070	
SOT-23 SMD LED  KM-23	R07-010-070	

Notes:

1. If other types of pick & place machines are used, please use the appropriate tool similar to the suggested dimensions and structures for the production process.
2. For components with unique properties such as dome lenses, silicone lenses, and heavier parts, reduced picking speed may help prevent pickup issues and insure production stability.
3. To insure smooth pickup and prevent fling-out of small components such as 1005 series, please insure nozzle and feeder are well maintained to reduce vibrations and maintain picking accuracy.
4. The distance between the nozzle and the component may be set closer to improve pickup in older SMT machines.
5. For LEDs with silicone encapsulation such as the KA and KT series, the outer diameter of the pick-up nozzle must be longer than that of the LED's light emitting area. i. e. $A > C$, and B shall be shorter than the width of the LED.



A is the outer diameter pick-up nozzle, B is the inner diameter of pick-up nozzle, and C is the light emitting area of LED.

6. Nozzle wall thickness for all the recommended nozzles:

FUJI NXT Reference Tool Number	Nozzle wall thickness (mm)
R07-004-070	0.1
R07-007-070	0.1
R07-010-070	0.15
R07-013-070	0.15
R07-013G-070	0.15
R07-018-070	0.2
R07-025-070	0.2
R07-025G-070	0.2
R07-037-070	0.2
R07-037G-070	0.2
R07-050-070	0.2