



MSM Part Number Generate			Available Dia.(mm) Spool MA125									Available Dia.(mm) Straight rod 500mm									Hardness (HRC)	Compatible Materials	Recommend Application	Features	Note for Welder
Type	Package for Spool (Spool = S)	Package for Rod (Rod = R)	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2							
DSI-M90	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	35 ~ 40	P20 / PX4 / S55C / NAK55 / NAK80 / HPM1 / HPM50 / CENA1	Plastic Injection Mold	High performance for Etching texture surface process, Mirror surface finishing. Applicable for Nitride coating and carburizing.	Improved surfacing and texturing performance		
DSI-M90PK	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	35 ~ 38	P20 / PX4 / S55C / NAK55 / NAK80 / HPM1 / HPM50 / CENA1	Plastic Injection Mold	Very High performance for Etching texture surface process, Mirror surface finishing.			
DSI-M55	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	43 ~ 45	SKD61 / DHA1 / DAC10 / M310 / TOOLx44 / 1.2343 / 1.2344	Plastic Injection Mold Die-Casting Mold Forging Mold	High performance in high temperature wear-resistance and crack repairImproved performance for hot-work tool steels,SKD61.	High performance for SKD61 plastic/die-casting molds.		
DSI-M20	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	45 ~ 50	STAVAX / MIRRAZ / HPM38 / 1.2083 / 1.2316 / 1.2085	Plastic Injection Mold	High corrosion and scaling resistance Up to 900°C temperature. Recommended to use M20+ for STAVAX Mold edges area.	Improved weldability for STAVAX materials.		
DSI-M20PLUS	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	48 ~ 53	STAVAX / HPM38 / KSP1 / SUS42012	Plastic Injection Mold	17% Chromium steel with very high corrosion and scaling resistance Up to 900°C.	Improved toughness for STAVAX mold edge areas.		
DSI-M-ALUCF	S	R	x	o	o	o	o	o	o	x	x	x	x	x	x	x	x	x	-	Aluminum series 3000 / 5000	Specific Mold Applications	For laser welding on Aluminum alloy / cast Aluminum alloy, up to 12% Si. Supreme hot crack resistance for Aluminum	High performance for Aluminum welding with no cracks.		
DSI-M10	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	55 ~ 60	SKD11 / HPM31 / SKH51 / Z160CDV12	Plastic Injection Mold Press Dies	Very high resistance for impact stress, including adhesive and abrasive anti-wear performance.	Improved performance for SKD11 for hot works and cold works		
DSI-M10PLUS	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	x	x	60 ~ 63	SKH58 / SKH51 / YXM1 / MHS1 / DZ(1.2379)	Plastic Injection Mold Press Dies	Martensitic material with embedded carbide and austenitic structures. Improved toughness and cutting performance. High per	Improved weldability for high speed tool materials.		
DSI-M70/12	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	53 (Aging)	SKD61 / MAS1C / 1.2343 / 1.2344	Die-Casting Mold Forging Mold	Widely used for repair cracks and scaling problems. Good machinability (After-welded 35 HRC) but straighten after production (After-aging 53 HRC)	Very high performance for Aluminum die-casting molds.		
DSI-MNICR625	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	26 ~ 30	Nickel Chromium Alloy / GG and GGG Cast Iron	Die-Casting Mold	Non-magnetic, anti-corrosion and oxidation resistant. High strength and toughness even in high temperature.	Improved weldability for STAVAX materials.		
DSI-M100	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	x	-	BeCu Alloy (Beryllium Copper)	Plastic Injection Mold	Base on Copper with Aluminum, good performance for heat transferring and wear resistance.	Improved weldability to BeCu material repair.		
DSI-MCONNECT2	S	R	o	o	o	o	o	o	x	x	x	x	o	o	o	o	o	o	35 ~ 40	SUS630 / SUS316 / 1.0204 / 1.4542 / 1.4548	Specific Mold Applications	High joining performance in critical deep areas of molds and dies.	Good joining performance and weldability in deep area.		

**Part Number**  
 Type-Package-Dia  
 DSI-M90-S-0.2  
 DSI-M90-R-0.2

**Package**  
 Spool : 10 meter / pack  
 Rod (10 meter) : 500 mm \* 20 pcs / pack



Plastic injection molds



Die-casting molds



Specific molds & dies

