					3Cr2MnNiMo							
Steel: Correspondin		Chemical Composition(%)										
g Steel Grade and Chemical	Standard,	Standard/Steel Grade C Si Mn Cr Mo Ni										
Composition	GB AISI	3Cr2MnNiMo P20+Ni	0.32~0.40	0.20~0.40	1.10 ~ 1.50	1.70 ~ 2.00	0.25 ~ 0.40	0.85 ~ 1.15				
	DIN JIS	1.2738 PDS5S	0.35~0.45	0.20~0.40	1.30 ~ 1.60	1.80 ~ 2.10	0.15 ~ 0.25	0.90 ~ 1.20				
Introduction:	Good polisha high purity de for even hard	Good polishability and photoetch performance.Good machinability, suitable for surface treatment (like chrome-plating).Even material hardness, nigh purity degree.Good abrasion resistance, longer life of mould.Suitable for large scale, especially plastic mould with thickness ≥ 400MM, require for even hardness, high toughness and good surface polishability. Such as large scale mould TV shell, copier shell, bumper, shock absorber, nstrument panel, also mold of trash can and casting mould frame.										
Shape & Dimension:	Forged: Flat: 200-400)mm*200-1500mr	n									
		olled: at: 20-190mm*205-2000mm										
Delivery Condition:	Forged/Rolled	d, QT, Black/Milled	d									
Note:												

					3Cr2Mo							
Steel:	P20											
Correspondin g Steel		Chemical Composition(%)										
Grade and Chemical	Standard/	Steel Grade	С	Si	Mn	Cr	Мо	Ni				
Composition	GB	3Cr2Mo	0.28 ~ 0.40	0.20 ~ 0.80	0.60 ~ 1.00	1.40 ~ 2.00	0.30 ~ 0.55	0.85~1.15				
	AISI	P20	0.28 ~ 0.40	0.20 ~ 0.80	0.60 ~ 1.00	1.40 ~ 2.00	0.30 ~ 0.55	Cu+Ni≤0.75				
	DIN	35CrMo7 -1.2311	0.30 ~0.40	0.30~0.70	0.60~1.00	1.50~2.00	0.35~0.55					
	JIS	-										
	thus shorter th	ven hardness, good polishability, photoetch performance and machinability.VD refining is applied, thus with high purity. Suitable for plastic mould equires polishing and photo etching.Delivery on pre-hardening condition, heat treatment is not needed, can apply to mould machining directly, hus shorter the working time.After forging and rolling, has fine and close organization, 100% UT, no defect like gas hole and needle eye.Suitable or large & medium scale and precision mould, also Sn, Zn, Pb alloy die casting mould with low melting point.										
Shape & Dimension:	Forged:											
	Flat: 200-400	mm*200-1500m	nm									
	Rolled:											
	Flat: 20-190m	nm*205-2000mr	n									
Delivery Condition:	Forged/Rolled	l, QT, Black/Mille	ed									
Note:												

10Ni3MnCuAl												
Steel:	Steel: 10Ni3MnCuAl											
Correspondin g Steel		Chemical Composition(%)										
Grade and Chemical	Standard	/Steel Grade	С	Si	Mn	Мо	Ni	Р	S			
Composition	GB	10Ni3MnCuA	0.05~0.18	0.15~1.00	1.00 ~ 2.00	0.10~0.40	2.50 ~ 3.50	≤0.030	≤ 0.030			
	AISI	_										
	DIN	-										
	JIS	NAK80										
Brief Hardness can reach 37 ~ 43HRC after solid solution and ageing strengthen, can apply die milling and machining at original condition without heat treatment.Ni-Al-Cu series ageing hardening steel has following characteristics:(1)Good machinability(2)Very easy to grind after EDM(3)Good welding permeability(4)Even hardness of surface and core, can keep precision degree during using.Because special melting is applied, has compact structure, very few inclusion, has following characteristics:(1)Excellent mirror face abrasive property, can get satisfied luminance(2)Good erode machinability, fine and nice surface after EDM.Applied in mirror polish mould, dust proof, light filter plate of TV, cosmetic box, business automation equipment, auto parts EDM mould. Crystal product or smooth finish required product. Like crystal product mould on automobile, camera, computer and etc.												
Shape &	Forged :											
		m-300mm; Flat:	40-240mm*10	00-610mm								
Delivery Condition:	, Forged, Turne	ed, QT										
Note:												

	Cr12Mo1V1											
Steel:	1.2379											
Correspondin		Chemical Composition(%)										
g Steel												
Grade and Chemical	Standard,	/Steel Grade	С	Si	Mn	Cr	Мо	V	Со			
Composition	GB	Cr12Mo1V1	1.40 ~ 1.60	≤ 0.60	≤ 0.60	11.00 ~ 13.00	0.70 ~ 1.20	0.50~ 1.10	≤ 1.00			
	AISI	D2	1.40 ~ 1.60	0.10~ 0.60	0.10~ 0.60	11.00 ~ 13.00	0.70 ~ 1.20	0.50~ 1.10				
	DIN	1.2379	1.45 ~ 1.60	0.10~ 0.60	0.20~ 0.60	11.00 ~ 13.00	0.70 ~ 1.00	0.70~ 1.00				
	JIS	SKD11	1.40 ~ 1.60	≤ 0.40	≤ 0.60	11.00 ~ 13.00	0.80 ~ 1.20	0.20~0.50				
Introduction:	Brief ntroduction: D2 is a versatile high-carbon, high-chromium, air-hardening tool steel that is characterized by a relatively high attainable hardness and numerous, large, chromiumrich alloy carbides in the microstructure. These carbides provide good resistance to wear from sliding contact with other metals and abrasive materials. Although other steels with improved toughness or improved wear resistance are available, D2 provides an effective combination of wear resistance and toughness, tool performance, price, and a wide variety of product forms.Widely application including rolls, punches, dies for blanking,forming, trimming, and thread rolling, shear knives, food-processing knives, and gages.Application for easy cuttings, shaft knives, circular saw, stamping dies, rolls, punches, milling tool, molds for plastic materials, etc.											
Shape &	Forged Produ	icts:										
Dimension:	Round: 60mm	1-400mm Flat: 40	-240mm*100-6	610mm								
	Rolled Produc	cts:										
	Round: 8mm-	50mm Flat: 12-6	0mm*205-610r	nm								
Delivery Condition:	, Forged / Rolle	ed, Annealed, Tu	rned/Milled									

Note:

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	3Cr17NiMo											
Steel:	1.2316											
Correspondin g Steel	Chemical Composition(%)											
Grade and Chemical	Standard/	'Steel Grade	С	Si	Mn	Cr	Мо	Ni	Ρ	S		
Composition	GB	3Cr17NiMo	0.30 ~ 0.40	≤ 1.00	≤ 1.00	16.00 ~ 17.50	0.80 ~ 1.30	0.60~1.00	≤ 0.035	≤ 0.020		
	AISI	422										
	DIN	1.2316	0.33~0.45	1.00Max	1.50Max	15.5-17.5	0.80~1.30	1.00Max	0.030Max	0.030Max		
	JIS	-										
	Brief Strong corrosion resistance, better than S-136 .Even material hardness, high purity, good mirror surface polishability.Easy to do heat treatment, size is stable after Q+T pre-hardened. Good thermal fatigue resistance.Good abrasion resistance and toughness, can rival with S-136, easy to weld up.Apply for producing plastic mould requires chemical corrosion resistance.Especially suitable for thermoplastic corrosion plastic.Suitable for small scale mould.											
Shape &	Forged Produ	cts:										
Dimension:	Round: 60mm	1-300mm Flat: 40)-240mm*100-6	10mm								
Delivery Condition:	Forged, Turne	ed, Q+T										
Note:	Milled first an	d then make Q+	Т									

					3Cr13						
Steel:	420										
Correspondin g Steel	Chemical Composition(%)										
Grade and Chemical	Standard/Steel Grade C Si Mn Cr Ni P S										
Composition	GB	3Cr13	0.26~0.35	≤ 1.00	≤ 1.00	12.00~14.00	≤ 0.60	≤0.035	≤0.030		
	AISI	420	≥0.15	≤ 1.00	≤ 1.00	12.00~14.00	≤ 0.75	≤0.040	≤0.030		
	DIN	1.4028	0.26~0.35	≤ 1.00	≤ 1.50	12.00~14.00		≤0.040	≤0.015		
	JIS	SUS420J2	0.26~0.40	≤ 1.00	≤ 1.00	12.00~14.00	≤ 0.60	≤0.040	≤0.030		
Introduction:	Brief It is martensitic stainless steel which has good machinability, corrosion resistance and abrasion resistance. Even hardness, high purity degree, good										
Shape & Dimension:											
Delivery Condition:											
Note:											

					4Cr13						
Steel:	1.2083										
Correspondin		Chemical Composition(%)									
g Steel											
Grade and Chemical	Standard/S	Steel Grade	С	Si	Mn	Cr	Ni	Р	S		
Composition	GB	4Cr13	0.36~0.45	≤ 0.60	≤ 0.80	12.00~14.00	≤ 0.60	≤0.035	≤0.030		
	AISI	-									
	DIN	1.2083	0.36~0.42	≤ 1.00	≤ 1.00	12.50~14.50		≤0.030	≤0.030		
	JIS	-									
	 Brief It is martensitic stainless steel which has good machinability, corrosion resistance and abrasion resistance. Even hardness, high purity degree, good surface finish. Stable hardenability and low rate of deformation. Can get the best polish performance after quenching and tempering; good performance of thermal stress fatigue resistance. It's suitable for plastic mold and crystal plastic mold, which need to bear high load, high abrasion resistance and work under aggressive medium. It is suitable for abrasion resistible mold, including thermoset plastic extrusion mold. With etching medium, like mold for PVC. Long service life mold, like mold for disposable tableware and snack box. Production of optical product parts, like camera 										
		5	medical treatme	ent container.							
	Forged Produc										
Dimension:	Round: 60mm-										
	Block/Flat: 40-2										
Delivery Condition:	Forged, Annea	led, Turned/Mi	lled								
Note:	P:0.025Max										
	S:0.008Max										
	Hardness: <22	5HB									
	UT 1921 C/c										

Steel:	1.2312												
Correspondin g Steel	Chemical Composition(%)												
Grade and Chemical	Standard/S	teel Grade	С	Si	Mn	Cr	Мо	S					
Composition :	DIN 17350	N 17350 1.2312(40Cr MnMoS8-6) 0.35~0.45 0.30~0.50 0.40~0.60 1.80~2.00 0.15~0.25 0.05~0.10											
Brief Introduction:	Plastic mould steel with additional sulphur, usually supplied in a quenched and tempered condition.Polishable, better machinibility compared to 1.2311, similar to AISI P20+S. Application: Plastic moulds, frame for plastic pressure dies, hytro-forming tools.												
Shape &	Forged Product	ts:											
	Flat: 200-400m		n										
			•										
	Rolled Products	S:											
	Flat: 20-190mm	1*205-2000mm											
Delivery Condition:	Forged / Rollec	l, QT, Turned/M	lilled										
Note:													

Steel:	1.2085									
Correspondin	1					Chemical Co	mposition(%)			
g Steel										
Grade and Chemical	Standard	l/Steel Grade	С	Si	Mn	Cr	Ni	Ρ	S	
Composition :	DIN	1.2085(X33Cr S16)	0.28~0.38	≤ 1.00	≤ 1.40	15.0~17.0	≤ 1.00	≤0.030	0.05~0.10	
Brief	Resistant to t	the corrosion Mar	tensite steel wi	ith the high co	ontent of chro	me. The steel ha	s good resista	nce to the wea	r, good workability a	and
									ames of molds etc.	
Shape &	Forged Produ	ucts:								
Dimension:	Round: 600m	1m-400mm								
	Die Block/Fla	nt: 40-240mm*150	-610mm							
Delivery Condition:	Forged, QT, 1	Furned/Milled								
Note:										