

SANDEEP ENTERPRISES

(A Unit of Vision Vanijya Pvt. Ltd)

SPECIAL STEEL SOLUTIONS

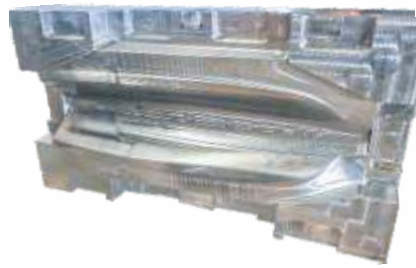
- SANDEEP ENTERPRISES: YOUR PARTNER FOR STEEL SOLUTIONS -

- Established in 1964
- ISO 9001 : 2015 Certified
- 4000+ MT Stock of
 - Plastic Mould Steel
 - Hot Work Tool Steel
 - Wear Resistant Steel
 - High Speed Steel
 - Carbon Steel
 - Cold Work Tool Steel
 - High Strength Steel
 - Aluminium
- In-house QA/QC Lab provides
 - Dimensional Quality Check
 - Hardness Analysis
 - UT Testing
 - Micro-Structure Analysis
- In-house Logistic services upto 10,000 kg within 300 km of NCR

SERVICES



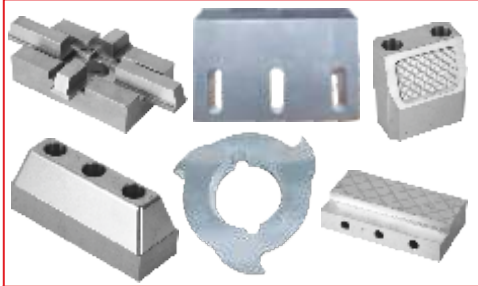
MILLING AND GRINDING



3D VMC ROUGHING AND LIFTING HOLES



STANDARD MOULD BASE AND CUSTOM MOULD BASE



PRECISION COMPONENT MANUFACTURING



CUSTOMIZED EARTHMOVING MACHINERY ATTACHMENTS, CRANE BOOM AND ARMS



REFURBISHMENT AND REPAIRS OF EXCAVATOR ATTACHMENTS

INDUSTRY APPLICATIONS

Plastic Mould Steel

- Mould Frames
- Machine Tool Engineering
- Die Casting
- Compression Moulds
- Injection Moulds
- Perform Dies

Cold Work Tool Steel

- Stamping, Punching, Cutting Tools and Shearing
- Cold Forging, Coining, Pressing, Bending, Deep Drawing and Cold Extrusion
- Machining Tools
- Tool Holders
- Hand & Power Tools

Hot Work Tool Steel

- Pressure Die Casting
- Extrusion
- Forging & Forming Dies
- Punches
- Hot Shearing Blades
- Rolling Mill Rolls
- Head Piercing
- Trimming Dies

High Strength Steel

- Truck Chassis
- Handling Equipment
- Stabilising Support
- Trailers
- Undercarriage
- Crane Booms
- Lifting Equipment
- Hoisting Equipment

Wear Resistant Steel

- Mining and Earthmoving Machinery
- Buckets, Knives and Grapples
- Dumper Bodies
- Scrap Presses
- Conveyor Belts
- Screens and Liners

OUR INTERNATIONAL PARTNERS



RAW MATERIAL PORTFOLIO

PLASTIC MOULD STEEL

MATERIAL				CHEMISTRY							SUPPLY CONDITION		
DIN	W.Nr	JIS		C	Si	Mn	P (max)	S (max)	Cr	Mo	Ni	Supply Condition	Supply Hardness (HB)
X33CrS16	1.2085			0.28-0.38	≤ 1.0	≤ 1.40	0.03	0.05-0.10	15.00-17.00		≤ 1.0	Q & T	280-320
40CrMnMo7	1.2311			0.35-0.45	0.20-0.40	1.30-1.60	0.035	0.035	1.80-2.10	0.15-0.25		Q & T	280-320
X36CrMo17	1.2316	SUS420J		0.33-0.45	≤ 1.0	≤ 1.50	0.03	0.03	15.50-17.50	0.85-1.30	≤ 1.0	Q & T	280-320
	1.2316 HH			≤ 0.28	≤ 0.30	≤ 0.90	0.08	0.003	14.00	1.00	≤ 0.70	Q & T	360-400
40CrMnNiMo8-6-4	1.2738			0.35-0.45	0.20-0.40	1.30-1.60	0.03	0.03	1.80-2.10	0.15-0.25	0.90-1.20	Q & T	280-320
	1.2738 HH			0.29	≤ 0.30	1.50	0.01	0.001	1.30	0.57	1.05	Q & T	360-400
X42Cr13	1.2083 ESR	SUS420F		0.36-0.42	≤ 1.00	≤ 1.00	0.03	0.03	12.50-14.50			Annealed	240

COLD WORK TOOL STEEL

MATERIAL				CHEMISTRY								SUPPLY CONDITION		
AISI/ASIM	DIN	W.Nr	JIS	C	Si	Mn	P (max)	S (max)	Cr	W	Mo	V	Supply Condition	Supply Hardness (HB)
D-2	X155CrVMo12-1	1.2379	SKD11	1.45-1.60	0.10-0.60	0.2-0.60	0.030	0.030	11.0-13.0		0.70-1.00	0.70-1.00	Annealed	240
O-1	100MnCrW4	1.2510	SKS3	0.90-1.05	0.15-0.35	1.00-1.20	0.035	0.035	0.50-0.70	0.50-0.70		0.05-0.15	Annealed	240
D-3	X210Cr12	1.2080	SKD1	1.9-2.2	0.10-0.60	0.2-0.6	0.030	0.030	11.0-13.0				Annealed	240
K310	86CrMoV7	1.2327		0.83-0.90	0.15-0.35	0.30-0.45	0.030	0.030	1.60-1.90		0.20-0.35	0.05-0.15	Annealed	240
			QCM8	PATENTED								Annealed	240	
SAE-52100	100Cr6	1.3505		0.90-1.05	0.15-0.35	0.25-0.45	0.030	0.030	1.35-1.60		1.10-1.50	0.30-0.50	Annealed	240
			SX105V	PATENTED								Annealed	240	
			SX ACE	PATENTED								Annealed	240	

HOT WORK TOOL STEEL

MATERIAL				CHEMISTRY								SUPPLY CONDITION			
AISI/ASIM	DIN	W.Nr	JIS	C	Si	Mn	P (max)	S (max)	Cr	W	Mo	Ni	V	Supply Condition	Supply Hardness (HB)
H-11	X38CrMoV5-1	1.2343	SKD6	0.33-0.41	0.80-1.20	0.25-0.50	0.03	0.02	4.80-5.50		1.10-1.50		0.30-0.50	Annealed	240
H-13	X40CrMoV5-1	1.2344	SKD61	0.35-0.42	0.80-1.20	0.25-0.50	0.03	0.02	4.80-5.50		1.20-1.50		0.85-1.15	Annealed	240
H-13 ESR	X40CrMoV5-1	1.2344 ESR	SKD61 ESR	≤ 0.39	≤ 1.00	≤ 0.40	≤ 0.015	≤ 0.003	≤ 5.0		≤ 1.30		≤ 1.00	Annealed	240
H-21	X30WCrV-9-3	1.2581	SKT5	0.25-0.35	0.1-0.4	0.15-0.45	0.03	0.02	2.50-3.20	8.50-9.50			0.30-0.50	Annealed	240
	56NiCrMoV7	1.2714		0.50-0.60	0.10-0.40	0.60-0.90	0.03	0.03	0.80-1.20		0.35-0.55	1.50-1.80	0.05-0.15	Q & T	360-400
			QDH	PATENTED								Annealed	240		
			QHZ	PATENTED								Annealed	240		

HIGH SPEED STEEL

MATERIAL				CHEMISTRY								SUPPLY CONDITION			
AISI/ASIM	DIN	W.Nr	JIS	C	Si	Mn	P (max)	S (max)	Co	Cr	Mo	V	W	Supply Condition	Supply Hardness (HB)
M-35	S 6-5-2-5	1.3243	SKD6	0.87-0.95	≤ 0.45	≤ 0.40	0.03	0.03	4.5-5.0	3.80-4.50	4.70-5.20	1.70-2.10	5.90-6.70	Annealed	240
M-42	S 2-10-1-8	1.3247	SKD59	1.05-1.15	≤ 0.70	≤ 0.40	0.03	0.03	7.5-8.5	3.50-4.50	9.00-10.0	0.90-1.30	1.20-1.90	Annealed	240
M-2	S 6-5-2	1.3343	SKH51	0.86-0.94	≤ 0.45	≤ 0.40	0.03	0.03		3.80-4.50	4.70-5.20	1.70-2.10	5.90-6.70	Annealed	240

WEAR RESISTANT STEEL

MAX LADLE ANALYSIS, %											Supply Hardness (HB)
Grade	Plate Thickness	C	Si	Mn	P	S	Cr	Ni	Mo	B	Supply Hardness (HB)
AR-400	3mm - 60mm	0.17	0.60	1.60	0.025	0.010	1.15 - 1.30	0.10 - 0.50	0.30 - 0.50	0.005	400 BHN
AR-450	3mm - 60mm	0.20 - 0.23	0.60	1.40 - 1.60	0.025	0.010	0.20 - 1.30	0.10 - 0.50	0.25 - 0.50	0.005	450 BHN
AR-500	3mm - 60mm	0.28 - 0.30	0.80	1.60	0.025	0.010	1.00	1.00	0.50	0.005	500 BHN
AR-550	6mm - 20mm	0.35	0.80	1.60	0.025	0.010	1.10	1.00	0.50	0.005	550 BHN

HIGH STRENGTH STEEL

MAX LADLE ANALYSIS, %														
Grade	C	Si	Mn	P	S	Nb	Cr	Ni	Al	Mo	N	B	Yield Strength Rp 0.2	Tensile Strength Rm
S690 QL	0.20	0.60	1.50	0.02	0.010	0.04	0.60	1.00	0.07	0.50	0.014	0.005	700 MPa min	780-930 Mpa
S890 QL	0.28	0.80	1.60	0.025	0.01	0.04	0.70	1.50	0.06	0.70	0.005	0.005	900 MPa min	940-1100 Mpa
S960 QL	0.17	0.60	1.60	0.025	0.010	0.04	0.70	1.50	0.06	0.70	0.005	0.005	960 MPa min	980-1150 Mpa

CARBON STEEL

Grade	Size Range	Supply Condition
C45 / C50	Thickness Upto 500mm	Machined and Grinding

ALUMINIUM

Grade	Size Range
5052	6061
6082	Thickness Upto 500mm

MACHINE INFRASTRUCTURE

Sizes in millimeter (mm)

VMC MACHINES

Machine Type	Make	Size (L x W x Th)
VMC	Sanco / Taiwan	3000 X 2000 X 760
VMC	Doosan / Korea	1600 X 760 X 650
VMC	Mazak / Japan	1600 X 750 X 600
VMC	Taiwan	1200 X 600
VMC	Cosmos / India	800 X 500 X 500
VMC	Mazak / Japan	600 X 400 X 280

CNC MILLING MACHINES

Machine Type	Make	Size (L x W x Th)
CNC Plano Miller	LC / Taiwan	3000 X 1600 X 460
CNC Twin- Head Side Milling	LC / China	1000 X 1000 X 300
CNC Twin- Head Side Milling	LC / China	600 X 600 X 250
CNC Twin- Head Side Milling	Gooda / China	610 X 610 X 250
CNC Twin- Head Side Milling	Gooda / China	430 X 430 X 200

TURNING MACHINES

Machine Type	Make	Size (L x W x Th)
CNC Turning	Kinwa / Taiwan	620 Dia X 4500mm
Lathe	Imported	350 Dia X 2000mm

BANDSAW MACHINES

Bandsaw Name / Model	Make	Cutting Size (W x Th)	Qty
230 AUTO	Mep / Italy	230 X 230	1
300 AUTO	Evershine / China	300 X 300	8
300 AUTO	Indo Tech / India	300 X 300	2
430	Behringer / Germany	430 X 410	1
400 X 600	Evershine / China	600 X 400	1
560	Behringer / Germany	560 X 560	1
500 X 700	Behringer / Germany	710 X 550	1
500 X 700	JuliHong / China	700 X 500	1
750 X 550 AUTO	Indo Tech / India	750 X 550	1
1050 X 850 AUTO	Indo Tech / India	1050 X 850	1
1300 X 1700	Cosen / Taiwan	1700 X 1300	1
800 X 2500 LATERAL	Evershine / China	2500 X 800	1
710 X 6000 VERTICAL	Everising / Taiwan	1000 X 710 X 6000	1
Automatic H-7056HA	Everising / Taiwan	700 X 500	1

DEEP HOLE / GUN DRILL MACHINES

Machine Type	Make	Size (L x W x Th)
Deep Hole Drilling	Vanto / China	1600 X 2000 (35mm ø)
Radial Drill	Csepal / Hungary	Upto 63 mm Dia

GRINDING MACHINES

Machine Type	Make	Size (L x W x Th)
Automatic Surface Grinder	Taiwan	5000 X 1700 X 500
Cup Grinder	TOS / Europe	3000 X 800 X 300
Automatic Surface Grinder	Dowell / Taiwan	1500 X 750 X 600
Automatic Surface Grinder	Great / Taiwan	1000 X 500
Automatic Surface Grinder	Phillips / USA	800 X 400 X 400
Automatic Surface Grinder	Prayosha / India	800 X 400 X 400
Automatic Surface Grinder	Prayosha / India	600 X 300 X 200
Automatic Surface Grinder	TOS / Europe	540 X 300 X 250

MILLING MACHINES

Machine Type	Make	Size (L x W x Th)
Horizontal Milling Machine	China	3000 X 1600
Elgamill - Universal Head	Buttler / Europe	5000 X 1300 X 1700
Universal Milling Machine	Rambaudi / Europe	1000 X 600 X 500
Conventional Milling Machine	WMW / USA	1000 X 400 X 300
Conventional Milling Machine	Maxima / Europe	1000 X 600 X 590
Conventional Milling Machine	Induma / Europe	1100 X 500 X 200
Conventional Milling Machine	TOS / Europe	1000 X 400 X 300

TOOL ROOM MACHINES

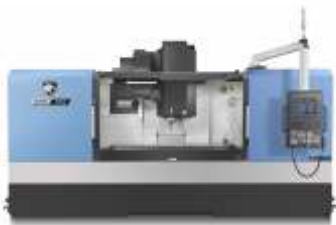
Machine Type	Make	Size (L x W x Th)
MNTR	Taiwan	700 X 350 X 400
Chamfer Machine	LC / China	1150 X 600 X 150
Tapping	Tapmaster / India	UPTO M24
Conventional Milling Machine	TOS / Europe	500 X 500 X 200

OXYFUEL CUTTING MACHINE

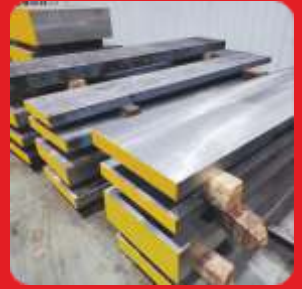
Machine Type	Make	Size (L x W x Th)
Oxyfuel Cutting	Koike / Japan	6000 X 1200 X 300

QUALITY INSTRUMENTS

Mitutoyo Digital Height Master 2D	Vernier Calliper	
Digital Micrometer	Bore Gauge	Depth Gauge



FACILITY AND RAW MATERIAL



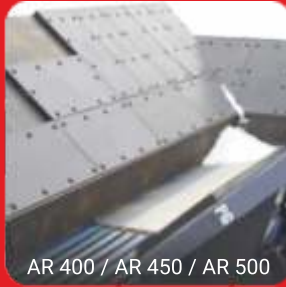
WEAR PARTS



AR 500



AR 450



AR 400 / AR 450 / AR 500



AR 450 / AR 500



AR 450

MACHINE PARTS



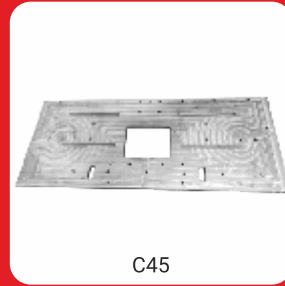
SKD11



SKD11



C45

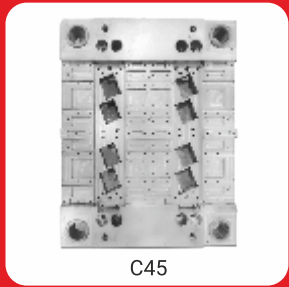


C45

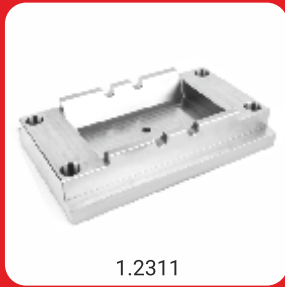


1.2379 / D2

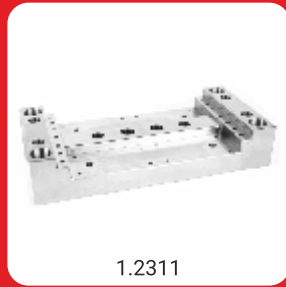
MOULD PARTS



C45



1.2311



1.2311

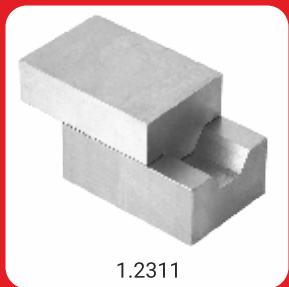


C45



1.2311 / 1.2738

PRECISION COMPONENT



1.2311



Aluminium



1.2379 / D2



1.2379 / D2



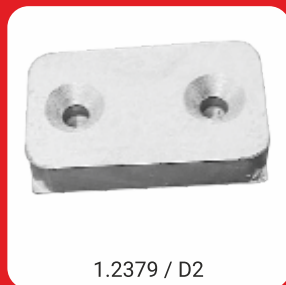
C45



C45



SKD11



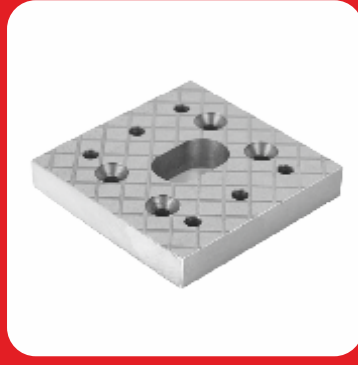
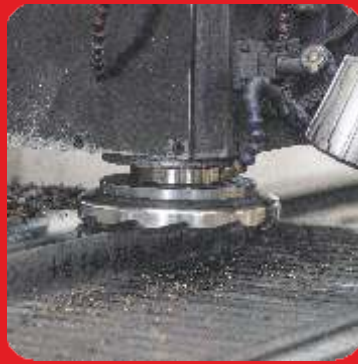
1.2379 / D2



SKD11



SKD11



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SONIPAT UNIT

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📍 Sonipat Location



▶ Sonipat Workshop

SANDEEP ENTERPRISES (A UNIT OF VISION VANIJYA PVT. LTD)

Established in 1964, Sandeep Enterprises is one of the top steel processing companies in India today. Our mission is to serve our customers with the **Utmost Quality, Lowest Cost and Fastest Delivery**, focusing on **QCD Principles**. With our head office in Delhi, our sales network spans across India supported by processing facilities. We provide all kinds of **Tool and Die steel, Plastic Mould Steel, High Speed Steel, High Strength Steel and Wear Resistant Steel**.



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