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### Upcoming Products

**Additional sizes :** 85, 90, 95 mm  
Up to 45 mm in Coils & Straight form  
45 to 95 mm - Straight form

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## PLAIN ROUNDS



*A Navratna Company*

### Special Features:

- o Bundling and automatic tying / strapping of the rounds ensure minimum damage during handling and transport.
- o Tension free rolling in the Light and Medium Merchant Mill ensures close dimensional tolerances.
- o 38 mm and below are rolled in Light and Medium Merchant Mill and other rounds are rolled in Medium Merchant and Structural Mill.



### Packing

: Bare, in strapped bundles weighing 4 to 5 T upto 36 & 8 to 9 T for above 36 approximately.

### Invoicing

: As per actual weight.

### Quantity & Shipment

: On mutually agreed terms



## FORGED ROUNDS



### Forged Rounds

Size : 180 mm - 240 mm  
Grade : EN8D

#### Chemical Composition

C : 0.40 – 0.45 PCT  
MN : 0.70 – 0.90 PCT  
P & S : 0.04 PCT MAX  
Si : 0.05 – 0.35 PCT  
Al : 0.02 PCT MIN

PRODUCT: MMSM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(min)	Cr %	B %
VSP	SAE 1541	0.36-0.44	1.35-1.65	0.04	0.035	0.15-0.35	0.02	-	
VSP	SAE 1008	0.10 MAX	0.30-0.50	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1020	0.18-0.23	0.30-0.60	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1022	0.18-0.23	0.70-1.00	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1023S	0.20-0.25	0.80-1.00	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1029S	0.26-0.30	0.70-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1030	0.28-0.34	0.60-0.90	0.04	0.05	0.15-0.35	0.02	-	
VSP	SAE 1049	0.46-0.50	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
BS 970	EN8	0.35-0.45	0.60-1.00	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN8 D	0.40-0.45	0.70-0.90	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN9	0.50-0.60	0.60-0.80	0.04	0.04	0.05-0.35	0.02	-	
VSP	SAE 1524S	0.16-0.21	1.35-1.65	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1524Cr	0.23-0.28	1.35-1.65	0.04	0.04	0.15-0.35	0.02	0.20-0.30	
VSP	55Si7	0.50-0.60	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
VSP	60Si7	0.55-0.65	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
VSP	65Si7	0.60-0.70	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
ASTM	A 105	0.20-0.25	0.90-1.15	0.035	0.035	0.15-0.35	0.02	-	
JISG 4801	SUP9	0.52-0.60	0.65-0.95	0.035	0.035	0.15-0.35	-	0.65-0.95	
DIN	40CR4	0.35-0.40	0.60-0.90	0.035	0.030	0.15-0.35	0.02	0.90-1.20	
DIN	41CR4	0.36-0.44	0.60-0.90	0.035	0.030	0.15-0.35	0.02	0.90-1.20	
BS 970	EN15B	0.35-0.40	1.10-1.30	0.04	0.035	0.05-0.35	0.02	-	
VSP	SAE 1018	0.15-0.20	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	27C15	0.22-0.32	1.3-1.7	0.035	0.035	0.15-0.35	0.02	-	
BS 970	EN32B	0.10-0.18	0.60-1.00	0.05	0.05	0.15-0.35	0.02	-	
DIN-17210	20MNCr5	0.17-0.22	1.10-1.40	0.035	0.035	0.15-0.40	0.02	1.0-1.30	
DIN-17210	16MNCr5	0.14-0.19	1.00-1.30	0.035	0.035	0.15-0.40	0.02	0.80-1.1	
JISG 4801	SUP 11A	0.56-0.64	0.70-1.00	0.035	0.035	0.15-0.35	-	0.70-1.00	0.0005-0.003
VSP	35C8	0.35-0.40	0.60-0.90	0.04	0.035	0.15-0.35	0.02	-	
VSP	CK-45	0.42-0.50	0.50-0.80	0.035	0.035	0.15-0.35	0.02	-	
VSP	VIZAG TLT	0.17-0.22	1.20-1.60	0.04	0.04	0.15-0.35	0.015	-	0.03 (Min)*
VSP	37C15	0.32-0.42	1.30-1.70	0.035	0.035	0.15-0.35	-	-	

\* Vanadium

Size

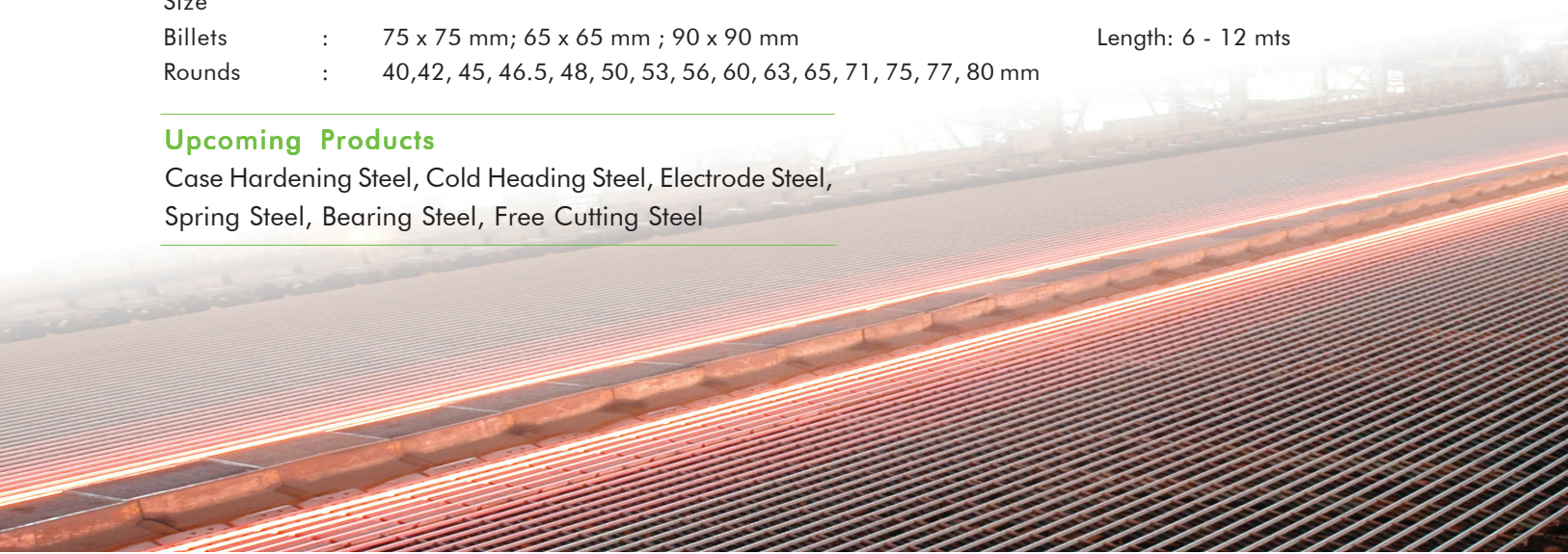
Billets : 75 x 75 mm; 65 x 65 mm ; 90 x 90 mm

Length: 6 - 12 mts

Rounds : 40,42, 45, 46.5, 48, 50, 53, 56, 60, 63, 65, 71, 75, 77, 80 mm

**Upcoming Products**

Case Hardening Steel, Cold Heading Steel, Electrode Steel, Spring Steel, Bearing Steel, Free Cutting Steel



PRODUCT: LMMM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(MIN)	Cr%	B %
VSP	SAE 1010	0.08-0.13	0.30-0.60	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1012S	0.10-0.15	0.50-0.80	0.035	0.035	0.20 max	0.02		
VSP	SAE 1020	0.18-0.23	0.30-0.60	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1023S	0.20-0.25	0.80-1.00	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1029S	0.26-0.30	0.70-0.90	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1030	0.28-0.34	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
BS 970	EN8	0.35-0.45	0.60-1.00	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN8D	0.40-0.45	0.70-0.90	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN9	0.50-0.60	0.50-0.80	0.04	0.04	0.05-0.35	0.02	-	
VSP	SAE 1049	0.46-0.50	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1541	0.36-0.44	1.35-1.65	0.04	0.035	0.15-0.35	0.02	-	
VSP	SAE 1524S	0.16-0.21	1.35-1.65	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1524Cr	0.23-0.28	1.35-1.65	0.04	0.04	0.15-0.35	0.02	0.20-0.30	
VSP	37C15	0.32-0.42	1.30-1.70	0.035	0.035	0.15-0.35	0.02		

# SPECIAL STEELS



PRODUCT: LMMM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(MIN)	Cr%	B %
BS970	EN32B	0.10-0.18	0.60-1.00	0.05	0.05	0.15-0.35	0.02	-	
VSP	27C15	0.22-0.32	1.30-1.70	0.035	0.035	0.15-0.35	0.02		
VSP	SAE1018	0.15-0.20	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
ASTM	A105	0.20-0.25	0.85-1.15	0.035	0.035	0.15-0.35	0.02	-	
DIN-17210	20MnCr5	0.17-0.22	1.1 0-1.40	0.035	0.035	0.15-0.35	0.02	1.00-1.30	
DIN	40CR4	0.35-0.40	0.60-0.90	0.035	0.03	0.15-0.35	0.02	0.90-1.20	
DIN	41CR4	0.36-0.44	0.60-0.90	0.035	0.03	0.15-0.35	0.02	1.00-1.20	
VSP	55Si7	0.50-0.60	0.80-1.00	0.04	0.04	1.50-2.00	-		
VSP	60Si7	0.55-0.65	0.80-1.00	0.04	0.04	1.50-2.00	-		
VSP	65Si7	0.60-0.70	0.80-1.00	0.04	0.04	1.50-2.00	-		
BS 970	EN43D	0.60-0.65	0.40-0.60	0.04	0.015-0.035	0.15-0.35	-		
VSP	35C8	0.35-0.40	0.60-0.90	0.04	0.04	0.15-0.35	0.02		
VSP	CK-45	0.42-0.50	0.50-0.80	0.035	0.035	0.15-0.35	0.02		

Sizes

Billets : 125 x 125 mm

Rounds : 16, 18, 20, 22, 25, 28, 32, 33.5, 34, 36, 38 mm

length: 8 - 10.4 mts

length: 6 - 12 mts