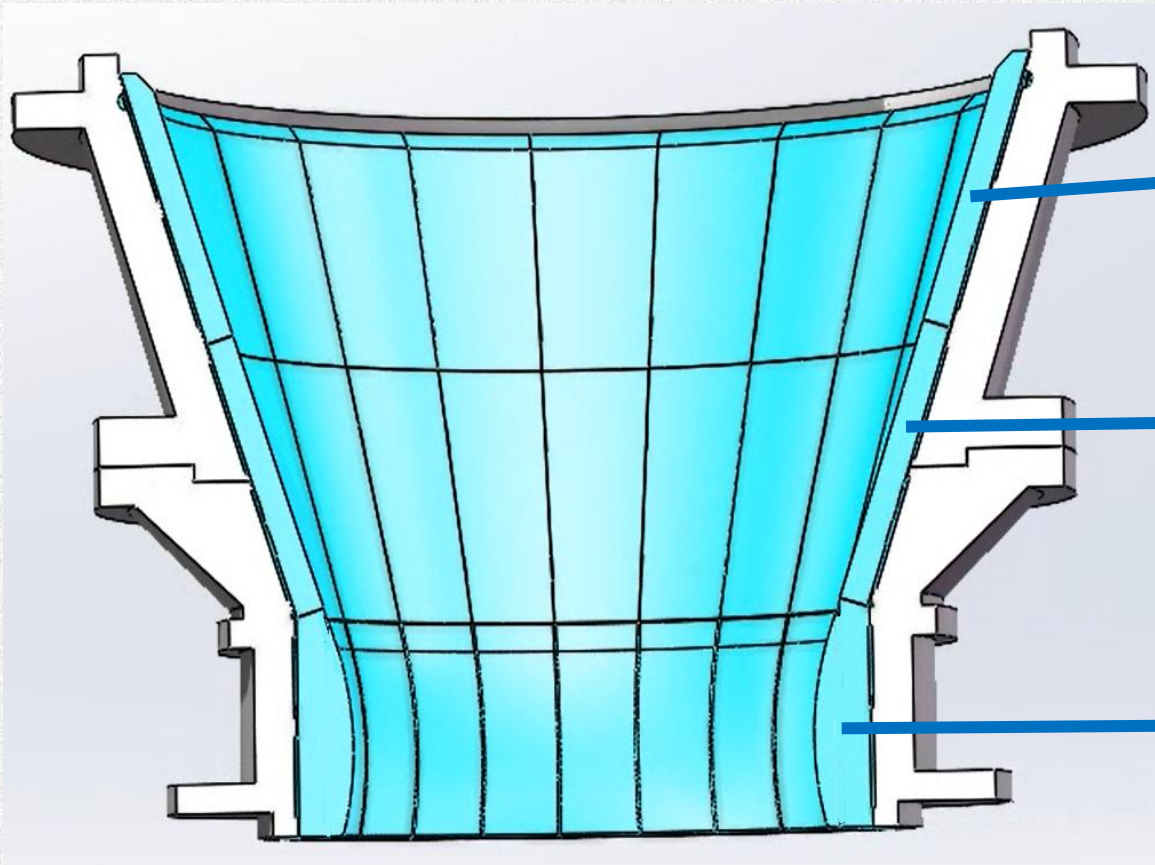


Tuff Alloy Steel

Wear package designed for primary gyratory crusher concave segments



Upper intake liners

- Tuff alloy steel, impact resistant

Chamber mid liners

- Tuff alloy steel, abrasion and impact resistant

Chamber bottom liners

- Tuff alloy steel, high abrasion and impact resistant
- High-chrome special, maximum abrasion resistance

Tuff Alloy Steel

Grade	Chemical	Hardness surface, BHN (ASTM E10)	Charpy Impact (RT °C , KV, J)
TF40	40CrNiMo, EN 10293 (06/2005)	375 - 425	> 15
TF50	40CrNiMo, EN 10293 (06/2005)	475 - 525	> 10
TF55	40CrNiMo, EN 10293 (06/2005)	525 - 575	> 10
TF55D	40CrNiMo (Modified) Combine different micro structure	350 - 630	N/A



Tuff Alloy Steel

Metal scrap shredder hammers:

- Tuff alloy steel grade **TF55D (TF55 Modified Chemical)** with designed harder head and stronger bore
- Tuff alloy steel hammer service 100% longer than normal manganese steel



Metal scrap shredder hammers powered with TF55D alloy

