

MAJOR MARKET PROFILES AS RELATED TO
THE STEEL CASTINGS INDUSTRY IN THE UNITED STATES

Each major industry market consuming steel castings is affected by different stimuli and trends. These markets have been analyzed and general profiles for each are as follows:

Construction Machinery and Equipment (2nd Largest Steel Castings Market)
and
Mining Machinery and Equipment (4th Largest Steel Castings Market)

It is difficult to separate the Construction Equipment and Mining Equipment markets in reference to the consumption of steel castings. Realistically, ore crushing and dressing equipment and underground mining machinery for drilling, loading, and hauling are singularly used for mining, while earth movers, off-the-road haulers, power shovels, and tractors are peculiar to both industries.

These two industries combined account for approximately 25% of all alloy and carbon steel casting consumption in the United States.

Recent economic conditions considered, these two markets are expected to require approximately 275,000 tons in 1983 with projected compound annual growth rates of 11% and 12%, respectively for Construction and Mining Equipment.

The health of the Construction Equipment industry is heavily leveraged by new residential construction and road building and repair, both of which are currently showing upward trend increases over those previously forecast.

Steel casting usage is continuing to be eroded in the Construction Equipment market by ductile iron conversions in some of the lighter duty drive and axle housings.

Typical castings used in these markets are:

<u>Parts</u>	<u>Weight Range (Pounds)</u>
Tread Shoes and Track Pads for Crawler Equipment	30 to 700
Idler Rollers	40 to 100
Sprockets	100 to 500
Drive and Axle Housings	200 to 1,500
Track Links and Guides	15 to 50
Gear Boxes	75 to 400
Wheel Hubs	50 to 250
Miscellaneous Hangers and Brackets	10 to 75
Liner Plates and Mill Parts for Ore Processing	100 to 300
Power Shovel Bucket Teeth	2 to 60
Bucket Bales and Bodies	1,600 to 15,000