



**HOW TO ENSURE AN EFFECTIVE
MAGNET INSTALLATION**

<u>DEFINE / SPECIFY / SELECT</u>	<u>CONSIDER</u>	<u>INVOLVE THESE PEOPLE</u>
<p>DEFINE THE DUTY</p> <p>What is this magnet installation to achieve?</p>	<ul style="list-style-type: none"> •Size, volume and type of magnetics to be extracted •If for Product security or protection of plant? •If required as an Indicating magnet? 	<p>Quality Personnel Maintenance Engineers</p>
<p>SELECT THE BEST LOCATION</p> <p><i>If for Indication.....</i> <i>Plant Protection</i> <i>If for Product Security</i></p>	<ul style="list-style-type: none"> •Accessibility for regular cleaning •At incoming raw materials or near critical plant •Install close upstream to point of possible damage •Install near as possible to packing outlet 	<p>Engineers Quality Personnel Supplier</p>
<p>DEFINE THE COVERAGE</p> <p><i>If for Product Security.....</i></p>	<ul style="list-style-type: none"> •Is the whole stream to be treated, or •Is partial coverage adequate? •<i>Aim at total contact of product with magnet—80% regarded as minimum</i> 	<p>Engineers Quality Personnel Manager Supplier</p>
<p>SELECT CORRECT MAGNETIC SEPARATION PRINCIPLE & MAGNET CAPACITY</p>	<ul style="list-style-type: none"> •Should the style selected be Self-Cleaning, Quick Cleaning or Direct Contact? •Will the magnet be large enough to avoid slowing of production rate? •Should Magnet Grate be oscillated? 	<p>Quality Personnel Engineers Production Personnel Supplier</p>
<p>SPECIFY MAGNET EFFICIENCY & STRENGTH FEATURES</p> <p><i>If for Product Security.....</i></p>	<ul style="list-style-type: none"> •If for detection of weakly magnetics, 10,000 gauss @ 22mm pole centres •If for product security above packers - 10,000 gauss @ 22mm pole centres •<i>Sacrifice neither gauss ratings nor distance between poles! Insist on 'documentation' based on currently calibrated gauss meters.</i> 	<p>Quality Personnel</p>
<p>DEFINE MEASURES FOR MAGNET STRENGTH RETENTION OVER TIME</p>	<ul style="list-style-type: none"> •Is the magnet resin encapsulated under vacuum as well as seal welded? •What grade Rare Earth? •If oscillated, is maximum VPM under 1500? 	<p>Quality Personnel</p>
<p>SPECIFY SOUND STANDARDS OF CONSTRUCTION</p>	<ul style="list-style-type: none"> •Has abrasion been considered? •Food grade materials on all contact surfaces? •No ledges, finish, sanitary construction? •Has service temperatures been considered? 	<p>Quality Personnel Engineers</p>
<p>SPECIFY SAFETY REQUIREMENTS</p>	<ul style="list-style-type: none"> •Operation & adequate cleaning instructions, safety signs and approvals for explosive dusts and static conditions? Safety of Personnel? 	<p>Safety Officer</p>
<p>DEFINE A REGULAR MAGNET CLEANING PROGRAM</p>	<ul style="list-style-type: none"> •Frequency (daily is usual) •Retention of magnetics for inspection? 	<p>Quality Personnel Production Personnel Maintenance Manager</p>