

8620 Case hardening steel

Typical Analysis (Ave. values %)	C	Si	Mn	Cr	Ni	Mo
	0.20	0.25	0.8	0.50	0.50	0.20
NEAREST STANDARD	BS			SAE		
	EN 362			8620H		

DESCRIPTION	8320 is a balanced low nickel/chromium and molybdenum general purpose case hardening steel, suitable for comparatively light stressed components.
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APPLICATIONS	Used extensively in automotive components such as transmission gears, crown wheel, ring gears, hypoid gears and races, king pins and pinions.
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MECHANICAL PROPERTIES Heat Treated Condition	Tensile Strength MPa	Elong. %	Izod Impact J
	850	11	20

HEAT TREATMENT	Forge	850-1150°C. Cool in lime, sand or ash.
	Normalize	850-880°C. Air cool.
	Anneal	850°C. Cool slowly in a controlled furnace
	Carburize	850-930°C. Furnace or Air cool.
	Core Refine	850-880°C. Oil quench or Air cool

WELDING	8620 should only be welded in the annealed condition using Bohler DCMS Kb electrodes or DCMS-IG MIG wire
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Round Peeled & Polished h9/h10										
SIZE RANGE	35	42	52	60	70	80	90	100	110	130
	40	50	55	65	75	85	95	105	120	140

Sizes normally stocked in Australia. Some branches may not hold the entire range.
Other sizes available on request.

<u>LOCATIONS</u>					
Bohler Uddeholm Australia Pty Ltd ABN 15000013052					
Sydney	129-135 McCredie Rd Guildford	2161	Ph (02) 8724 5554	Fax (02) 8724 5555	
Newcastle	3 Pavilion Pl Cardiff	2285	Ph (02) 4954 6611	Fax (02) 4956 5773	
Albury	1 Eames St Albury	2640	Ph (02) 6041 3399	Fax (02) 6041 1820	
Wollongong	40 Doyle Ave Unanderra	2526	Ph (02) 4272 6544	Fax (02) 4272 7563	
Marayong	1/21 Binney Rd Marayong	2148	Ph (02) 9831 4431	Fax (02) 9671 1682	
Melbourne	282-290 Greens Rd Dandenong	3175	Ph (03) 9767 5554	Fax (03) 9767 5555	
Bayswater	4 Ramage St Bayswater	3153	Ph (03) 9729 7356	Fax (03) 9738 0850	
Adelaide	1 Williams Cir Pooraka	5095	Ph (08) 8368 4554	Fax (08) 8368 4555	
Brisbane	12-18 Limestone St Darra	4076	Ph (07) 3712 9554	Fax (07) 3712 9555	
Townsville	9-11 Caldwell St Garbutt	4814	Ph (07) 4479 4800	Fax (07) 4725 1316	
Perth	29-33 Gauge Cir Canningvale	6155	Ph (08) 9455 8672	Fax (08) 9455 8673	
Kewdale	5 Beete St Welshpool	6106	Ph (08) 9350 9582	Fax (08) 9350 9683	
Launceston	20 Murphy St Invermay	7248	Ph (03) 6334 3542	Fax (03) 6331 4001	
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